Annual Progress Report

Kharif Maize

2015

All India Coordinated Research Project on Maize

ICAR-Indian Institute of Maize Research

Pusa Campus, New Delhi-110 012, India

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Annual Maize Workshop-2015
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6	Dr. M.K. Mahala	Sr. Entomologist	Entomology	mkmahla@yahoo.co.in	+91-9829219205
33. Vagarai (Tamil Nadu) Maize Research Station, Tamil Nadu Agricultural University, Vagarai – 624613 Phone (O):04545 – 292900/ 267373 Email: arsvagarai@tnau.ac.in					
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34. Varanasi (U.P.) Institute of Agricultural Sciences, Banaras Hindu University, Varanasi-221 005 UP Phone (O): 0542-6702393 ,0542-6702559 Fax (O): 0542-2369971, 0542-2368993					
1	Dr. J.P. Shahi	Prof. cum Sr. Breeder & I/c	Plant Breeding	jpshahi1@gmail.com; jpshahi@bhu.ac.in	+91-9415644490

Volunteer centre

S. No	Place	Name & Designation	Address
1.	Bertin (H.P)	The Incharge	KVK Berthin Distt. Bilaspur, Himachal Pradesh-174029
2.	Rajouri	Dr. A. K. Sharma, ADR	Agriculture Research Station Rajouri (RARS) SKUAST-J, Pin-185131 J & K.
3.	Poonch	Dr. Praveen Singh, Jr. Breeder	Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu Maize Breeding Research Sub-Station, Poonch, J & K- 185 101 (India)
4.	Gurdaspur	Dr. Param Jeet Singh, Director	, Regional Research Station, PAU, Gurdaspur, Punjab, PIN- 143521
5.	Kapurthala	Dr. K.S. Thing, Director	Regional Research Station, PAU, Kapurthala, Punjab, PIN-144620
6.	Hisar	The Director, R D S	Seed Farm, CCSHAU, Hissar-289210, Haryana
7.	Aligarh	Dr. Vishwjeet Singh, In charge	Zonal Agriculture Research Station, Kalai Aligarh - 202115, Mo.No.-9411467816, Uttar Pradesh.

S. No	Place	Name & Designation	Address
8.	RRS Madhopur	Dr. S.N. Singh, I/c (Seed Scientist)	Regional Research Station,Madhopur,P.O. Madhopur West Champaran Distt. Bihar-845458
9.	Chhapra	Maize Breeder	Rajendra Agricultural University, Pusa, Samastipur-848125 Bihar
10.	Sabour	Maize Breeder	Bihar Agriculture University, Sabour, Bhagalpur
11.	Koraput	Dr. T.K. Mishra, I/c AICRP (Maize)	, College of Agriculture, OUAT, Bhubaneswar-751003,Odisha
12.	Mohanpur	Maize Breeder	Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Distt- NADIA, WB-741252
13.	Dharwad	Dr. G. Shanthakumar, Sr. Scientist (GPB)	Main Agriculture Research Station, Maize Research Unit, UAS, Dharwad PIN -580 005, Mo. No.9448874035,Karnataka
14.	Almel	Dr. S.H. Biradar, Sr. Scientist (Agronomy)	Agricultural Research Station, Almel Tq: Sindagi, Dist: Bijapur PIN -586202, Mo. No.9901110462, Karnataka
15.	Belavatagi	Dr. S. Rajkumar, Sr. Scientist (Agronomy)	AICRP on Water Management, Belvatagi Tq: Navalgund Distt. Dharwad, PIN-582213, Karnataka
16.	Dhule	Officer I/c & Wheat specialist	Agriculture research station, Agricultural college Dhule, PIN-424004 (Maharashtra)
17.	Niphad, Nasik	In charge	Agriculture Research Station, Niphad District Nasik PIN- 422209 Maharashtra
18.	Rahauri	Scientist	Mahatma Phule Krishi Vidyapeeth, Rahuri, Tal Rahuri, Dist. Ahmednagar-413722, Maharashtra
19.	Parbhani	Dr V.R. Naik, Breeder-Maize	Marathwada krishi vidyapeeth, Parbhani PIN- 431402 (Maharashtra)
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22.	Bhiloda	Assistant Research Scientist	Maize Research Station,S.D. Agricultural University, Bhiloda-383245 (Gujarat)
23.	RARS Ujjain	Dr. A.K. Dixit, In-charge	Regional Agricultural Research Station, Near, Vikram Nagar, Railway Station, Ujjain, PIN-456010, M.P.
24.	ZARS, Indore	Dr. A.M. Rajput, Dean	College of Agriculture, Zonal Agriculture Research Station, Indore, PIN-452001, M.P.
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Director's Review Report

Review of Research of AICRP on Maize (2015-16)

Trends in area, production and productivity of maize

The fourth advance estimates for 2014-15 have indicated enhancement in acreage of maize and has touched 9.2 million ha, which is the highest so far in the history of maize production in India. The trends in the last three years indicate that area under maize cultivation is expanding not only in *rabi* but also in *kharif* season (Table 1). The major enhancement in the area has occurred during recent past in the peninsular Indian states of Maharashtra and West Bengal (*kharif* and *rabi*); Tamil Nadu, Gujarat and Bihar (*rabi*).

The maize production in 2014-15 stood at 24.17 million t (final estimates). The monsoon season of the year 2014-15 was marked by a 12 percent below average rainfall, making it the worst drought-like season in five years. The deficient rainfall resulted in 4.9 percent reduction in total food grain production. However, in case of maize, the production declined only 0.37 percent. This signifies the resilience of the maize system against climatic variability. The year 2015-16 was also a rainfall deficit year, with monsoon ending at 14 percent shortfall. According to the 2nd advance estimate, the total maize production (*kharif* and *rabi*) of the country during 2015-16 is likely to be 21 million t. For the first time in many years, India would have to import maize to fulfill the rising domestic demand and accordingly, the Central government has allowed duty-free import of maize up to 5 lakh t.

The all India maize productivity during 2014-15 was 2.56 t/ha. During last three years, the productivity increased in the states of Tamil Nadu, Karnataka and West Bengal during both *kharif* and *rabi* season while its increased during *kharif* in Himachal Pradesh, Odisha, Uttarakhand and Uttar Pradesh. The *rabi* productivity also incraesed in the states of Andhra Pradesh, Gujarat, Rajasthan and Maharashtra. On the other hand, the productivity during *kharif* declined in Andhra Pradesh, Chhattisgarh, Jharkhand, Haryana, Punjab, Gujarat, J&K, Rajasthan and Maharashtra, due to deficient monsoon rains.

Table 1: Maize area, production and yield statistics in Indian states from 2012-13 to 2014-15

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#
Andhra Pradesh	*Kharif*	565.0	565.0	622.0	2342.0	1970.2	1738.0	4145	3487	2794
	Rabi	407.0	441.0	373.0	2513.0	2892.0	2498.0	6174	6558	6697
	Total	972.0	1006.0	995.0	4855.0	4862.2	4236.0	4995	4833	4257
Arunachal Pradesh	*Kharif*	39.0	39.0	*	55.5	55.5	*	1423	1423	-
	Rabi	8.5	8.0	*	12.7	13.5	*	1496	1681	-
	Total	47.5	47.0	*	68.2	69.0	*	1436	1467	-
Assam	*Kharif*	23.7	24.1	23.0	21.3	21.6	38.0	897	898	1652
Bihar	Autumn	261.0	276.6	250.2	646.2	581.6	619.5	2476	2103	2476

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#
	Rabi	424.6	455.8	464.0	1829.6	1530.4	1558.1	4309	3358	3358
	Total	685.6	732.3	714.2	2475.9	2112.1	2177.6	3611	2884	3049
Chattisgarh	*Kharif*	107.2	111.1	122.1	207.5	229.1	230.3	1936	2062	1886
Gujarat	*Kharif*	373.0	333.0	318.0	625.0	422.0	463.0	1676	1267	1456
	Rabi	85.0	128.0	105.0	166.0	259.0	209.0	1953	2023	1990
	Total	458.0	461.0	423.0	791.0	681.0	672.0	1727	1477	1589
Haryana	*Kharif*	9.0	9.0	8.0	23.0	27.0	18.0	2556	3000	2250
Himachal Pradesh	*Kharif*	294.3	292.7	300.0	657.2	652.1	752.7	2233	2228	2509
Jammu & Kashmir	*Kharif*	310.9	298.7	308.6	512.3	530.5	461.3	1648	1776	1495
Jharkhand	Autumn	243.4	250.8	263.6	435.8	506.0	466.1	1790	2017	1768
	Rabi	5.9	6.1	6.2	15.9	11.0	9.5	2689	1807	1532
	Total	249.3	256.9	269.8	451.7	517.0	475.7	1812	2012	1763
Karnataka	*Kharif*	1162.0	1246.0	1210.0	2978.0	3578.5	3484.8	2563	2872	2880
	Rabi	160.0	131.0	130.0	497.0	406.0	430.0	3106	3099	3308
	Total	1322.0	1377.0	1340.0	3475.0	3984.5	3914.8	2629	2894	2921
Kerala	*Kharif*	0.2	0.1	0.1	0.0	0.1	0.1	61	2000	1000
Madhya Pradesh	*Kharif*	845.4	868.0	1132.0	1513.6	1534.0	2026.3	1790	1767	1790
Maharashtra	*Kharif*	689.0	747.0	797.0	1582.0	2133.4	1597.0	2296	2856	2004
	Rabi	133.0	254.0	262.0	242.0	596.0	606.0	1820	2346	2313
	Total	822.0	1001.0	1059.0	1824.0	2729.4	2203.0	2219	2727	2080
Manipur	Total	19.4	26.1	*	44.7	58.6	*	2301	2246	-
Meghalaya	*Kharif*	17.3	18.0	*	26.9	39.7	*	1554	2200	-
Mizoram	*Kharif*	5.9	5.6	*	7.7	8.0	*	1305	1424	-
	Rabi	0.2	0.2	*	0.3	0.2	*	1611	1294	-
	Total	6.1	5.8	*	8.0	8.2	*	1314	1420	-
Nagaland	*Kharif*	68.7	63.6	*	134.7	125.2	*	1961	1969	-
	Rabi	0.0	5.2	*	*	10.3	*	*	1973	-
	Total	68.7	68.8	89.4	134.7	135.4	182.3	1961	1969	2039
Odisha	*Kharif*	90.9	91.5	2.3	217.5	253.2	6.3	2393	2766	2739
	Rabi	3.6	3.6	*	10.0	10.4	*	2793	2905	-
	Total	94.5	95.1	91.7	227.5	263.6	188.5	2408	2771	2056
Punjab	*Kharif*	129.0	130.0	126.0	475.0	507.0	460.0	3682	3900	3651
Rajasthan	*Kharif*	978.4	916.4	891.5	1725.2	1463.8	1551.2	1763	1597	1740
	Rabi	7.8	10.3	12.8	29.9	38.4	50.0	3844	3729	3906
	Total	986.2	926.7	904.3	1755.1	1502.2	1601.3	1780	1621	1771
Sikkim	*Kharif*	40.0	39.9	*	68.0	68.8	*	1700	1724	-
Tamil Nadu	*Kharif*	171.3	188.0	116.4	609.0	1068.2	598.2	3554	5682	5139
	Rabi	119.6	157.3	225.8	337.2	786.9	1235.7	2819	5002	5473

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#	2012-13	2013-14	2014-15#
	Total	291.0	345.3	342.2	946.2	1855.1	1833.9	3252	5372	5359
Tripura	Total	3.6	4.6	*	4.7	5.9	*	1295	1277	-
Uttar Pradesh	*Kharif*	698.0	696.0	643.0	1154.5	1151.2	1143.0	1654	1654	1778
	Rabi	38.0	71.0	69.0	80.0	155.0	132.0	2105	2183	1913
	Total	736.0	767.0	712.0	1234.5	1306.2	1275.0	1677	1703	1791
Uttarakhand	Total	28.0	25.0	25.0	40.2	35.5	53.0	1437	1419	2120
West Bengal	*Kharif*	40.6	43.7	45.4	96.8	117.4	122.1	2384	2687	2689
	Rabi	65.0	85.0	105.0	320.0	405.0	530.0	4923	4765	5048
	Total	105.6	128.7	150.4	416.8	522.4	652.1	3947	4059	4336
A & N Islands	*Kharif*	0.1	0.1	*	0.2	0.3	*	2000	2254	-
D & N Haveli	*Kharif*	0.1	0.1	*	0.1	0.1	*	1000	1000	-
Others	*Kharif*	-	-	200.4	-	-	382.0	-	-	1906
	Rabi	-	-	11.1	-	-	21.5	-	-	1937
	Total	-	-	211.5	-	-	403.5	-	-	1908
All India	*Kharif*	7214	7310	7492	16204	17145	16387	2246	2346	2187
	Rabi	1458	1757	1766	6054	7115	7286	4152	4050	4125
	Total	8673	9066	9233	22258	24259	23673	2566	2676	2564

**Included in other states; #As per fourth advance estimate*

A. Crop improvement

Development and testing of new maize hybrids

During *Kharif* 2015, 343 maize entries were evaluated and compared with 25 relevant checks varieties of different maturity in various zones. Of total entries received, 221 were contributed by public and 122 by the private sector. Out of 343 test entries, 219 were evaluated in national initial varietal trial (NIVT), 40 in advance varietal trial-I (AVT-I), 18 in advance varietal trial-II (AVT-II), 30 entries in quality protein maize (QPM), and 36 in specialty corns trials (17 in baby corn, 10 in sweet corn, and 9 in popcorn trials). Total fifteen breeding trials (four each of NIVT, AVT-I, specialty corns and three of AVT-II) were constituted for evaluation at 64 locations (33 regular and 31 volunteers) across country. Trials data received from 54 locations were reviewed and analyzed critically for yield and related traits. The test entries were promoted from first year (NIVT) to second year (AVT-I) and second year (AVT-I) to third (AVT-II) based on the 5% (sweet corn, popcorn, QPM trials and baby corn trials) and 10% superiority (in late, medium, early, and extra early) over the best relevant check of zone for their mean yield. Besides yield superiority, responses to major diseases of maize in a zone, quality parameters in specialty corn and days to 50% silking (Only in medium, early and extra early maturity) were the other important criteria to promote test entry in a particular zone. During the year 2015, four essentially derived varieties (EDV) of

QPM viz., AQH8 (PZ), AQH4 (NWPZ), AQH9 (NEPZ) and APQH9 (NHZ, PZ) developed by marker assisted selection (MAS) were tested in final year trial. The same hybrids will be propose for release in this year.

During *Rabi* 2013-14, 128 maize entries were evaluated in 9 different breeding trials at 17 locations across four maize growing zones of country *viz.,* NWPZ, NEPZ, PZ and CWZ. No trials were allotted in NHZ due to non-suitability of maize in these regions during *rabi* season. Of 128 entries, 47 were received from public and 81 from private sector. Further, 68 entries were evaluated in NIVT, 33 in AVT-I, 25 in AVT-II and 2 entries were in QPM trials. Out of 103 test entries, available for promotion, 51 test entries were found significantly superior over the best check and therefore were promoted for their advance generation testing. Of 68 entries in NIVT trials, 26 were got promoted to AVT-I. Similarly, from 33 entries evaluated in AVT-I, 25 were promoted to final year of testing. No any QPM hybrids were found superior over the best check in rabi 2014-15 testing. The entries were promoted as per the same criterion followed for promotion during Kharif season.

Addressing the need across regions

The entire maize growing area in India is divided in five major zones [Northern Hill Zone (NHZ), North West Plain Zone (NWPZ), North East Plain Zone (NEPZ), Peninsular Zone (PZ) and Central West Zone (CWZ)] for effective evaluation of the maize breeding materials and experimental cultivars. The details of maize growing states included in these zones are given below:

Zone	State(s)
Northern Hill Zone (NHZ)	Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh)
North West Plain Zone (NWPZ)	Punjab, Haryana, Delhi, Uttarakhand (Plain), Uttar Pradesh (Western region)
North East Plain Zone (NEPZ)	Bihar, Jharkhand, Odisha, Uttar Pradesh (Eastern region), West Bengal
Peninsular Zone	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu
Central West Zone (CWZ)	Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat

Total of 64 locations (33 regular and 31 volunteers) were identified for conducting different breeding trials. Advance varietal trials I & II of various maturities were allotted to the volunteer centers. The NIVT and AVT-I & II (late maturity) trials were not allotted in Northern Hill Zone (NHZ), this is because of no requirement of late maturity genotypes in this zone.

During kharif 2015, different breeding trials were organized at 12 test locations in NHZ, 9 in NWPZ, 12 in NEPZ, 17 in PZ and 14 test locations in CWZ. All the normal maize entries were tested under four maturity group viz., late, medium, early and

extra early. The success rate of PZ for reporting of trials is low. The details of success rate in reporting the data from each zone is given below:

Zone(s)	Centers	Trials allotted	Trials Reported	Success rate (%)
NHZ	Srinagar, Almora, Bajaura, Barapani, Kangra, Gossaingaon, Udhampur, Poonch, Bertin, Dhaulakuan, Rajauri, Imphal	61	44	72.1
NWPZ	Ludhiana, Karnal, Kanpur, Pantnagar, Hisar, Aligarh, Jhansi, Gurdaspur, Kapurthala	61	50	82.0
NEPZ	Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Medinapur, Koraput, Madhopur, Chhapra, Sabour, Mohanpur, Kalyani	67	48	71.6
PZ	Arabhavi, Mandya, Karimnagar, Sehgal Foud. Hyd, Hyderabad, Coimbatore, Vagarai, Kolhapur, Dharwad, VRDCKSSC, Devihosur, Almel, Belavatagi, Dhule, Parbhani, Nasik, Rahuri	155	109	70.3
CWZ	Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, Bhiloda, Dahod, Raipur, Jagadalpur, Ujjain, Indore, Kota, chittarkoot	115	95	82.6

During *rabi* 2014-15, total 17 locations (All were regular centers) were identified for conducting 9 different breeding trials. No trials were allotted to northern hill zone during the season. Of 17 testing locations, 4 were in NWPZ, 5 from NEPZ, 6 from PZ and 2 were from CWZ. Due to more suitability of late and medium genotypes during *rabi* season ecology, no new entries of early and extra early maturity were tested. Trial numbers allotted and reported from testing sites was use to calculate the percent success rate for a zone. The success rate of PZ for reporting of trials was found low. The details of success rate in reporting the data from each zone is given below:

Zone(s)	Centers	Trials allotted	Trial Reported	Percent Success
NWPZ	Ludhiana, Karnal, Kanpur, Pantnagar	32	32	100.0
NEPZ	Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich	40	39	97.5
PZ	Arabhavi, Mandya, Karimnagar, Coimbatore, Vagarai, Kolhapur	48	48	100.0
CWZ	Banswara, Godhra	16	16	100.0

Germplasm sharing

In 2015-16, a total of 559 maize accessions were provided to 23 AICRP centres and 30 scientists. The distributed germplasm included lines for specific traits like yellow corn (405), white corn (22), QPM (66), sweet corn (30) and popcorn (32). The total number of samples distributed to various centres was 1816 during 2015 -16 (Table 2).

Table 2: Maize accessions distributed to maize centres and regenerate by IIMR in last 11 years

Year	Maize accessions			
	Displayed during field days	Total distributions	Number of Centres/SAU benefitted	Received for Regeneration from NBPGR
2005	1039	1113	15	140
2006	801	1728	30	73
2007	1281	2237	32	34
2008	1521	3554	25	895
2009	2155	3080	30	1066
2010	2257	1276	26	1061
2011	1816	3687	23	451
2012	2721	3985	35	433
2013	1795	4050	22	1615
2014	1923	3672	29	755
2015	862	1816	23	791
TOTAL	**18171**	**30198**	**290**	**7314**

Hybrids Notified

During the year under report, seven hybrids, three from public institutions and four from private sector have been released and notified for cultivation in different production ecologies of the country.

Cultivar	AICRP(Maize) centre/ Private organization	Notification Date	Notification No.	Maturity	Area of adaptation/Cropping Season	Average Yield (t/ha)	Other characteristics
CoH (M) 10 (CMH 08-433)	TNAU, Coimbatore	28/01/2015	268(E)	Medium	Andhra Pradesh, Tamil Nadu, Karnataka, Maharashtra, Rajasthan, Gujarat, Madhya Pradesh and Chhattisgarh (Kharif)	7.2	Orange-yellow, semi-dent resistant to MLB, RDM and moderately resistant to common rust and TLB
HM-13 (HKH-317)	CCSHAU, Karnal	28/01/2015	268(E)	Early	Jammu and Kashmir, Himachal Pradesh and Uttarakhand (Kharif)	6.6	Yellow with cap, flint and resistant to MLB, TLB, BLSB, C. rust and PFSR
PMH 6 (JH 31292)	PAU, Ludhiana	28/01/2015	268(E)	Medium	Bihar, West Bengal, Jharkhand, Odisha and Uttar Pradesh (Kharif)	6.3	Yellow, flint
NMH-713	Nuziveedu seeds	28/01/2015	268(E)	Late	Uttar Pradesh, Bihar, Jharkhand, Odisha, Andhra Pradesh, Karnataka, Tamil Nadu and Maharashtra (Rabi)	9.4	Yellow, dent
NMH-731	Nuziveedu seeds	28/01/2015	269(E)	Late	Gujarat, Rajasthan Chhattisgarh, Madhya Pradesh, Andhra Pradesh, Karnataka, Tamil Nadu and Maharashtra (Kharif)	5.4	Orange-yellow, semi-dent
KMH-25K45 (Bumper)	Kaveri Seeds	28/01/2015	271(E)	Late	Punjab, Haryana, Delhi, Uttar Pradesh, Andhra Pradesh, Telangana, Karnataka, Maharashtra, Tamil Nadu, Rajasthan, Gujarat, Madhya Pradesh and Chhattisgarh (Rabi)	9	Yellow, semi-dent
NMH-1242	Nuziveedu seeds	28/01/2015	272(E)	Medium	Andhra Pradesh, Tamil Nadu, Maharashtra, Karnataka, Punjab, Haryana, Delhi, Uttar Pradesh, Rajasthan, Gujarat, Chhattisgarh and Madhya Pradesh (Kharif)	7.3	Yellow, dent and moderately tolerant to MLB

Hybrids Registered

Two hybrids and three varieties (OPVs) have been registered under the new category of PPV&FR Act, 2001 after completing two years of DUS testing at two locations. The details are given below:

Name	Centre	Period of protection (Years)
Hybrids		
DHM 117	ANGRAU Hyderabad	April 8, 2015 to April 7, 2030 (15 years)

PMH 4	PAU, Ludhiana	April 27, 2015 to April 26, 2030 (15 years)
OPVs		
Bajaura Makka 1	CSK HPKV Bajaura	January 22, 2015 to January 21, 2030 (15 years)
Vivek Sankul Makka 31	VPKAS Almora	March 30, 2015 to March 29, 2030 (15 years)
Vivek Sankul Makka 37	VPKAS Almora	April 7, 2015 to April 6, 2030 (15 years)

PPVFRA Applications Filed

Applications pertaining to eight hybrids have been filed under PPVFR Act,2001. The details are given below:

Hybrids	Name of centre	Date of filing	Acknowledgement no.
DHM 121	PJTSAU,Hyderabad	22/07/2015	REG/2015/1445
Vivek Maize Hybrid 47	ICAR-VPKAS, Almora	22/07/2015	REG/2015/1444
Vivek Maize Hybrid 53	ICAR-VPKAS, Almora	22/07/2015	REG/2015/1443
Vivek Maize Hybrid 51	ICAR-VPKAS, Almora	22/07/2015	REG/2015/1442
CoH(M)7	TNAU Coimbatore	30/12/2015	REG/2015/2090
CoH(M)8	TNAU Coimbatore	30/12/2015	REG/2015/2091
CoH(M)9	TNAU Coimbatore	30/12/2015	REG/2015/2089
CoH(M)10	TNAU Coimbatore	30/12/2015	REG/2015/2088

DUS testing in maize

During *Kharif*, 167 entries including 33 Farmers varieties have been characterized as per DUS descriptors in *Kharif* 2015.Of these, 46 candidate entries completed two years DUS testing and have become eligible for registration. Of these, nine cultivars (seven in first year and two in second year) are from public organizations.

Additional testing locations

Additional DUS testing / grow-out sites have been identified by PPVFR Authority, New Delhi. Besides, IIMR, New Delhi and SRTC, Hyderabad, tests have been conducted at VPKAS, Almora, ICAR Research Complex, Umiam, MPKV, Kolhapur,MPUA&T, Banswara, AAU Gossaigaon and PAU Ludhiana, respectively.

Breeder seed production

A total of 65.96q of breeders' seed has been produced against the indent of 103.91q during Kharif 2015. Eleven OPVs and 25 parental lines of 16 hybrids were indented and allotted to 15 AICRP (Maize) centres for production during 2015-16. In Kharif 2015, breeder seed in respect of 18 parental lines of 11 hybrids and 4 OPVs was produced. The BSP in respect of five OPVs and 16 parental lines of eight hybrids has been taken up in rabi 2015-16.

Quality Protein Maize

Four inbred nurseries comprising 160 lines have been evaluated for *per se* performance in *Kharif* 2015 at Delhi, Karnal and Ludhiana and at Begusarai and Hyderabad during Rabi 2015-16, respectively. A total of 779 LxT crosses were evaluated for yield. The multi-location data generated is being used for heterotic grouping of lines and identifying superior combinations thereof.

CRP on maize agro-biodiversity

Under the Consortium Research Platform on maize agro- biodiversity, 2500 accessions of maize were characterized as per 30 common descriptors at five

centres, 500 each at five centres ,viz. PAU Ludhiana, CSKHPKV Bajaura, MPUA&T Udaipur, WNC, IIMR Hyderabad and IIMR New Delhi, respectively.485 accessions during Kharif and 250 in rabi have been multiplied at WNC, Hyderabad.

New initiative

A new *ad hoc* project entitled, "Genetic enhancement for low moisture stress tolerance in maize" has been commissioned with the total budget of 95 lacs by ICAR, New Delhi. The project has been implemented at three centres viz. PAU Ludhiana and GBPUA&T Pantnagar with IIMR New Delhi as nodal centre. The project envisages to understand the physiological and molecular basis of low moisture stress adaptation and take up mapping and introgression of genomic regions associated with low moisture stress tolerance in maize over the period 2015-16 to 2016-17.

Quality Evaluation

Biochemical characterization and identification of appropriate germplasm is the major prerequisite for developing nutritionally improved maize cultivars. The biochemistry laboratory facilitates the identification of nutritionally superior germplasm for various quality traits such as protein quality, carbohydrate profile, oil content and carotenoids composition. During the period under review, samples received from NHZ (VPKAS Almora, Bajaura), NWPZ (Karnal), NEPZ (Dholi) and CWZ (Udaipur and Godhra) were analyzed for protein quality under AICRP QPM breeding programme. No opaqueness was observed in the samples received from Dholi center, hence, were found unsuitable for analysis. Across the locations, highest protein content was observed in the samples received from VPKAS, Almora. Varying levels of tryptophan were observed among different locations. The mean values of tryptophan are far below its required concentration (0.6%) across the locations except Almora center, indicating that proper selfing of samples was executed at Almora center only. The QPM trials require proper crop monitoring and care in selfing. Variability in kernel weight and specific gravity was observed across locations. Maize germplasm received from SKUAST, Srinagar and VPKAS Almora was analyzed for protein quality under QPM strengthening programe. The AICRP centres are required to send only the properly selfed material for quality analysis. Two sets of samples containing around 400 inbreds, received from IIMR, were analyzed for protein quality and subsequently 71 lines containing the desired content of protein (≥ 9%) along with tryptophan (≥ 0.6 % tryptophan in the endosperm protein) was selected as promising QPM lines. A set of 44 maize cultivars, mostly hybrids of public as well as private sector, grown at three different locations of IIMR viz: Delhi, Begusarai and Hyderabad were analyzed for starch and oil content. A promising inbred (HP704-9) containing more than 6 ppm of β-carotene was identified during carotenoids profiling of maize germplasm.

B. Crop production

The major agronomic research trial on maize based systems during *kharif* 2015 were focused on nutrient and planting density optimization for different maturity pre-released and notified maize hybrids, precision nutrient management, site specific nutrient management (SSNM) for maize hybrids and tillage practices, weed management in maize, and enhancing water-use efficiency in rainfed maize. There

were 11 Maize Agronomy Trials constituted. The trial-wise highlights were as follows:

Evaluation of pre-release genotypes under varying planting density and nutrient levels

The pre-release early maturing genotypes were evaluated under different nutrient levels (150:50:60, 200:60:80 $N:P_2O_5:K_2O$ kg/ha) in NHZ (three), PZ (two) and CWZ (three). At Almora (NHZ) FH-3626, FH-3605 and Bio-9720 genotypes yielded significantly higher than the best check (Parkash) at high nutrient levels and planting density (50x20 cm). In PZ (Dharwad and Karimnagar), FH-3664 and FH-3605 genotypes were found significantly superior than the best check (Parkash) at high nutrient levels and planting density (50x20 cm). At Udaipur (CWZ), FH-3664 genotype gave significantly higher yield over best check (PMH-5) at high nutrient levels and planting density (50x20 cm), however, at Godhra no genotype was found significantly superior.

The DKC9144 (IM8478) and HTMH-5402 pre-release medium maturing genotypes were evaluated under different nutrient levels (200:65:80 and 250:80:100 $N:P_2O_5:K_2O$ kg/ha) in PZ at Karimnagar and found significantly superior at lower nutrient levels and high planting density (50x20 cm) over the best check (HM-9). Pre-release late maturing genotypes were evaluated under different nutrient levels at Ludhiana (NWPZ) and Vagarai (PZ), genotype X35D601 yielded significantly higher over best check PMH-1 and Seedtech-2324, respectively at high nutrient levels (250:80:100 $N:P_2O_5:K_2O$ kg/ha) and planting density (50x20 cm), while at Banswara (CWZ) DKC9141 (IM8539) genotype was found superior over best check (PMH-1) at high nutrient levels (250:80:100 $N:P_2O_5:K_2O$ kg/ha) and planting density (50x20 cm).

The pre-release popcorn genotypes were evaluated under different nutrient levels (150:50:60, 200:60:80 N: P_2O_5: K_2O kg/ha) in NHZ (Almora and Bajaura), NWPZ (Ludhiana and Karnal), NEPZ (Ambikapur, Bahraich and Bhubneshwar), PZ (Hyderabad and Karimnagar) and CWZ (Godhra). In NHZ (Almora and Bajaura), KDPC-2 (popcorn) genotype performed significantly superior over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In NWPZ (Ludhiana) maximum yield was recorded in KDPC-2 (popcorn) but found to be non-significant than the best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). However, at Karnal VL popcorn-2 genotype recorded significantly higher yield over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In NEPZ at Ambikapur at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm), KDPC-2 and at Bahraich at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and normal planting density (60x20 cm), VL popcorn-2 pre-released popcorn genotypes produced significantly higher yield over best check (VL popcorn). However, at Bhubaneswar (NEPZ), both VL popcorn-2 and KDPC-2 popcorn genotypes yielded significantly higher over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In PZ (Hyderabad and Karimnagar) KDPC-2 (popcorn) genotype yielded significantly superior over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In CWZ (Godhra), KDPC-2 yielded maximum but was

found non-significant over the best check (VL popcorn) at lower nutrient levels (150:50:60 N: P_2O_5: K_2O kg/ha) and high planting density (50x20 cm).

The pre-release sweet corn genotypes were evaluated under different nutrient levels in NHZ (Almora and Bajaura), NWPZ (Delhi and Ludhiana), NEPZ (Ambikapur, Bahraich and Dholi), PZ (Hyderabad and Karimnagar) and CWZ (Godhra). In NHZ (at Almora) ADVSW-1, ADVSW-2 and FSCH-41 genotypes resulted in significantly higher yield over best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). However, at Bajaura, ADVSW-2 and FSCH-41 genotypes were produced significantly higher yield over best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In NWPZ at Delhi ADVSW-1 genotype was found significantly higher yielder over best check (Madhuri), while at Ludhiana (NWPZ) and in NEPZ (at Ambikapur, Bahraich and Dholi) no genotype performed significantly superior over best check. In PZ, at Hyderabad and Karimnagar, ADVSW-2 and ADVSW-1 gave significantly higher yield than the best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In CWZ (at Godhra), ADVSW-1 performed significantly superior than the best check (WOSC) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm).

The pre-release QPM genotypes were evaluated with different nutrient levels (150:50:60 and 200:60:80 N: P_2O_5: K_2O kg/ha) in NHZ (Bajaura), (200:65:80 and 250:80:100 N: P_2O_5: K_2O kg/ha) in NWPZ (Ludhiana and Karnal) and in NEPZ (Ranchi) and (150:65:65, 200:80:80 and 250:95:95 N: P_2O_5: K_2O kg/ha) in PZ (Vagarai). In all the zones and locations no pre-release QPM genotype was found significantly higher yielder than the best check.

Nutrient management in maize-wheat-greengram cropping system under different tillage practices

The experiments were conducted at five locations to find out effective precision nutrient management *viz*; SSNM and tillage practices for achieving the higher yield under intensified cropping system. Planting of maize under zero tillage resulted 3.3-42.8 % higher yield over conventional tillage system at Karnal, Pantnagar, Dholi and Banswara, respectively. However, the conventional tillage planting gave 9.6 % higher yield at Udaipur. Amongst nutrient management practices SSNM resulted in significantly higher yield at Banswara and Dholi, while farmers fertilization practices (FFP) resulted significantly higher yield at Karnal and RDF at Udaipur and Pantnagar.

Nutrient management in maize-chickpea/mustard cropping systems under different tillage practices

The experiment was conducted at three locations (Srinagar, Delhi and Chhindwara) to find out effective SSNM and tillage practices for yield maximization in emerging cropping systems. Planting of maize under zero tillage resulted 6.52-19.3 % higher yields over conventional tillage system at Srinagar and Delhi. However, the method of conventional tillage planting gave higher yield at Chhindwara. Amongst nutrient management practices SSNM resulted in significantly higher yield at Srinagar and Chhindwara, while it remained higher with 100% RDF at Delhi.

Nutrient management for maize genotypes under different cropping systems

The trial was conducted at thirteen locations under maize based systems to find out SSNM practices for yield maximization of maize hybrids. Among the nutrient management practices, SSNM based decision support system gave 42.0, 63.3, 3.6, 17.4, 20.5, 44.9, 51.0, 83.8, 1.8, 5.0, 32.5 and 50.2 % higher yield of maize over recommended fertilizer practices (RDF) at Bajaura, Srinagar, Karnal, Ludhiana, Pantnagar, Ambikapur, Bahraich, Ranchi, Hyderabad, Karimnagar, Chhindwara, and Udaipur, respectively. However, RDF resulted better at Dharwad. Among the various maize hybrids tested, significantly higher yield was obtained with K-25 Gold at Bajaura, HQPM-1 at Srinagar and Dharwad, PHM-3 at Karnal, Karimnagar, Bahraich and Chhindwara, PMH-1 at Ludhiana and Pantnagar, NK-30 at Ambikapur, CMH-08-350 at Ranchi, CMH-08-292 at Hyderabad and Udaipur.

Effect of planting density and nutrient management practices on the performance of hybrids in kharif season

This experiment was conducted for maximum yield realization of popular maize hybrids through optimization of planting density and nutrient management at eighteen locations in different agro-ecologies of the country. The popular maize hybrids responded to high density at Bajaura (60x15 cm^2), Ludhiana (67.5x15 cm^2), Pantnagar (67.5x15 cm^2), Bhubneshwar (50x20 cm^2), Coimbatore (50x20 cm^2), Banswara (50x20 cm^2) and Udaipur (60x20 cm^2) centers and resulted yield enhancement by 9.4, 6.2, 13.8, 8.3, 15.4, 14.7 and 11.1% higher yield over normal density, respectively. The response to normal planting density observed at Srinagar, Karnal, Ambikapur, Bahraich, Dholi, Ranchi, Dharwad, Hyderabad, Karimnagar, Chhindwara and Godhra. Amongst various nutrient management practices SSNM resulted in significantly higher yield at Srinagar, Ludhiana, Ambikapur, Bahraich, Banswara and Chhindwara while Soil test crop response (STCR) was found significantly superior at Bajaura, Karnal, Pantnagar, Bhubaneswar, Dholi, Ranchi, Hyderabad, Karimnagar, Godhra and Udaipur, respectively. However RDF proved better at Coimbatore and Dharwad centers.

Long term trial on integrated nutrient management in maize- wheat cropping system

To explore the possibilities of integrated nutrient management by inclusion of organic sources in maize production this long term experiment was initiated during *kharif* 2014 at Pantnagar. Significantly higher maize grain yield (5.65 t/ha) was obtained with 100% RDF + 5 t/ha FYM. However, 100% RDF was found at par with 100% RDF + 5 kg Zn/ha application which shows that the organic maize production can be possible in lower foothill of Himalayas. Economic analysis showed a new path for organic cultivation of maize and it was found that maize + cowpea as intercrop with FYM 10 t/ha + Azotobacter resulted in highest net returns and B:C ratio.

Weed management in maize systems

The experiments were conducted at nineteen locations to find out the options of best weed management practices in maize based systems in different agro-climatic conditions during kharif 2015. At all the locations the treatments were T1. Control (weedy check), T2. Weed free, T3. Atrazine @ 1.5* kg/ha preemegence, T4. Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) preemegence, T5. Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE, T6. Halosulfuron 60 g/ha at 25

DAS, T7. Atrazine @ 1.5 kg/ha preemegence fb Halosulfuron 60 g/ha 25 DAS, T8. Tembotrione (Laudis) 120 g/ha PoE at 25 DAS, T9. Pendemathalin (1000 ml/ha) preemegence fb Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE and T10. Atrazine @ 1.5 kg/ha preemegence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS.

The result of study showed the two best weed management treatments were T9 and T10 at Bajaura, Ludhiana, Pantnagar, Ambikapur, Kalyani, Ranchi, Coimbatore and Hyderabad T7 and T10 at Srinagar and Bahraich; T7 and T9 at Karnal and Vagarai; T10 and T3 at Bhubneshwar; T3 and T7 at Dholi; T9 and T5 at Dharwad; T4 and T7 at Karimnagar and Udaipur T10 and T8 at Banswara and T4 and T3 at Chhindwara. Out of 19 centers the maximum yield was recorded under weed free (T2) treatment at 16 centers, except at Bahraich, Bhubaneswar and Vagarai.

Enhancing water-use efficiency in rainfed maize

The experiments were conducted at six locations to find practices for enhancing water-use efficiency in rainfed maize in different agro-climatic conditions during kharif 2015. The rainfed maize hybrids responded to zero tillage + mulch at Srinagar, Hisar, Dholi, Karimnagar and Chhindwara centers and resulted yield enhancement by 9.7, 111.1, 26.5, 2.2 and 18.1% higher yield over conventional tillage without mulch, respectively. The response to conventional tillage with mulch was observed at Bhubaneswar. Amongst various hydrogel treatments the application of hydrogel @5.0 (kg/ha) resulted yield increment by 3.0, 11.4, 13.2, 5.0, 0.4 and 5.3% at Srinagar, Hisar, Dholi, Karimnagar and Chhindwara centers, respectively over control.

Agronomy Salient Achievement of Rabi 2014-15

A set of thirteen pre-release late maturity were tested at 8 locations in three zones and the genotypes IL8212, IL8534, DKC 9120, P 3533 and X35C357, Bisco x 6573 outperformed significantly over best checks in PZ while higher density planting (1 lakh plants/ha) found effective and resulted in significantly higher yield. The IL8212, IL 8534, PMH 2277, Ivori, KMH 2589, X35C537, KMH 2589, P3533, and Bisco x 6573 were found significantly higher yielding over best checks in NWPZ. While in CWZ, Venus, Bisco x 6573 and P 3533 gave significantly higher yield over best checks and high density planting (60 x 15 cm^2) found significantly superior. The six medium maturity AHT–II year genotypes were tested with checks and high fertilizer doses and planting densities in three zones at eight locations. The genotype DKC 9155, DKC 9142 and PMH 2246 gave significantly higher yield over best checks at Banswara (CWZ) and Arbhavi (PZ). The interaction of medium maturity genotypes and planting densities was also found significant. The DKC 9135, DKC 9155, PMH 2246 and MKM 325 medium maturity genotypes gave significantly higher yield best checks at Pantnagar (NWPZ). Three early maturity genotypes with checks tested at nine locations in four zones with different fertility levels and plant densities. The KHK 25, HKH 329, and HKH 330 gave significantly higher yield at Arbhavi, Karimnagar (PZ) and Ludhiana, Pantnagar and Karnal (NWPZ) while HKH 329 at Banswara (CWZ), The higher planting density (1 lakh/ha) gave significantly higher yield of early genotypes over lower density (83,333 plants/ha). However, no baby corn AHI-II year genotypes was found superior to check in NEPZ.

In Rabi season, planting of popular maize hybrids in high density (1 lakh/ha) was found effective for significantly higher yields at Dholi (10.0 t/ha), Banswara (8.8 t/ha) and Vagarai while there was no-significant difference was found at Karimanagar. The application of nutrients based on soil test crop response (STCR) based equations resulted in significantly higher yield at Dholi, Karimnagar and Banswara (9.0 t/ha) while at Vagarai SSNM gave higher yields. After three years of experimentation in maize-wheat-mungbean system; the adoption of conservation agriculture practices of permanent raised beds (PB) at Dholi and flat zero tillage (ZT) at Banswara was found superior of enhancing system productivity over conventional tillage (CT) while CT was found significantly superior over CA practices in heavy soils at Pantnagar. In maize-chickpea cropping system, zero tillage resulted in significantly higher crops yield after three years and site specific nutrient management (SSNM) gave higher yield over farmer's fertilization practices (FFP) and RDF at Banswara. The SSNM also resulted in significantly higher yields at maize-wheat-mungbean system at Pantnagar and Banswara over FFP while at Dholi; FFP gave significantly higher yields over RDF and SSNM. The significantly highest (10.2 t/ha) productivity of maize-wheat system was recorded with 100%RDF + FYM@5 t/ha. The higher system productivity was found with high density planning of maize in rotation with wheat at Pantnagar while STCR based nutrient management gave higher yields over SSNM and RDF.

C. Crop Protection and Resistance Breeding

Pathology

The programme for *Kharif* 2015 Pathology trials under All India Coordinated Research Project on Maize (AIRCPM) was chalked out in the 58th Annual Maize Workshop held at PAU, Ludhiana. A total of 23 trials (17 in *Kharif* 2015 and 6 in *Rabi* 2014-15) of Maize Pathology were conducted under sick plot / artificially created epiphytotics at identified hot spot locations namely Bajaura, Almora, Dhaulakuan, Barapani (AVTs only) in NHZ; Ludhiana (*Rabi & Kharif*), Delhi, Karnal, Pantnagar in NWPZ; Dholi (*Rabi & Kharif*), Medinapur (*Kharif*) in NEPZ; Dharwad (*Rabi & Kharif*), Coimbatore (*Rabi & Kharif*), Mandya (*Rabi & Kharif*), Hyderabad (*Rabi & Kharif*) in PZ and Udaipur in CWZ. A total of 528 hybrids in both seasons and 443 inbred lines (*Kharif* only) were screened against Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Rajasthan downy mildew (RDM), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Common rust, Polysora rust, Bacterial stalk rot (BSR) and Cyst nematode. Yield loss trials were conducted at Dharwad, Udaipur and Ludhiana centres. Trap nursery trial for disease occurrence was conducted at Almora, Bajaura, Coimbatore, Delhi, Dharwad, Dhaulakuan, Dholi, Hyderabad, Karnal, Ludhiana, Mandya, Pantnagar and Udaipur centres. In addition, disease surveys were conducted at farmers' fields in Himachal Pradesh and Uttarakhand (NHZ), Punjab (NWPZ), Karnataka (NEPZ), Rajasthan and Gujarat (CWZ) to assess overall disease scenario during the crop season. Study on management of nematode and its interaction with PFSR and termite in maize was taken up by Udaipur centre. Disease management trials for development of integrated disease management (IDM) strategy in maize were conducted at Bajaura, Ludhiana, Karnal, Delhi, Pantnagar, Godhra, Dharwad, and Udaipur. The summarized results of advance AICRPM Pathology trials conducted during *Kharif* 2015 and *Rabi* 2014-15 at respective centres are presented below:

A. *Host plant resistance:*

i. **Hybrids:** The hybrids having multiple disease resistance (MDR) are:

a) *Kharif 2015*:

AVT I & AVT II (late maturity): 28 hybrids *viz*., HT 51412616, DAS-MH-106, JH 13282, ADV 0990293, DKC9159 (IN8570), JH 13252, CMH 10-555, CMH 11-618, Gold 1166, CMH 12-663, HT 51412607, ADV 0990296, ADV 1190384, DKC9151 (IN8902), NMH-1247, Super-1177, KMH-3981, GK3118, KH-2192, 115-08-01,DMRH1308, DKC9133, DKC9141 (IM8539), IM8556, PRO-392, DAS-MH-105, CP.999, Siri-4527.
AVT I & AVT II (medium maturity): 10 hybrids *viz*., BH 412084, JH 31605, HT 51412182, DAS-MH-306, JKMH 4848, CP.201, GK3120, HT 51412607, HTMH 5402, DKC9144 (IM8478).

AVT I & AVT II (early maturity): one hybrids *viz*., KDQH-49*(First Year)
Specialty corn hybrids: 41 hybrids *viz*., DMRHP 1402, IMHP 1540, HPC 1, VL Popcorn-2(Re-testing), DMRHP 1401, SJPC1, KDPC-2 (Popcorn), MPC-1-15, IMHP 1535, SCH 6, ADVSW-1IMHB 1538, IMHB 1529, Vivek MH 27(R-Testing), IMHB 1537, DMRH 1305, IMHB 1532, GAYMH-1. IMH 1525, HKH 425, ASKBH1, AH5021AQH8(EDV), IIMRQPMH 1507, IIMRQPMH 1502, AQH9(EDV), IIMRQPMH 1504, BAUQMH-18, BQPMH 36, HQPM 26, IIMRQPMH 1510, BQPMH 141 (EDV-DHM117), IIMRQPMH 1501, IIMRQPMH 1503, IIMRQPMH 1506, IIMRQPMH 1505, VEHQ14-1, LQPMH 215, VEHQ15-1, IIMRQPMH 1509, FQH 106.

Promising hybrids having resistance to cyst nematode*:* 11 hybrids *viz.;* PRMH-189, KMH-3981, X35D601, HT 51412182, HTMH 5402, CMH 10-531, IMHB 1529, IMHB 1531, IIMRQPMH 1502, BQPMH 36, HQPM 4.

b) *Rabi 2014-15*:

A total of 140 genotypes were evaluated during *Rabi* 2014-15 against major diseases of maize under artificially created epiphytotics at various hot spot locations i.e. sorghum downy mildew (SDM) at Mandya; charcoal rot (C. Rot) at Arabhavi, Ludhiana and Hyderabad; Turcicum leaf blight (TLB) at Dholi and Mandya, Common rust (C. Rust) at Karnal. Promising hybrids are mentioned below:

AVT I & AVT II (late maturity): 9 hybrids viz.;GK 3150, P3533, Venus, TH 2, IL 8534, HTMH 5108, GK 3118, CP 333, Rasi 864.

AVT I & AVT II (medium maturity): 6 hybrids viz.; DKC 9155(IL8536), DKC9135 (IJ 8521), GPS MAINA, DMRH1307, IM 8303 (DKC9166), DMRH1306.

AVT I & AVT II (early maturity): 3 hybrids viz.; HKH 329, HKH 330, VEHQ 14-1-QPM1

B. *Disease management:*

i. Fungal diseases: Amongst the promising components identified are:

- *Rauvolfia serpentina* leaves extract, *Trichoderma harzianum* as seed treatment + bioagent fortified FYM (1:50) and spray for MLB
- *Trichoderma harzianum*, *Trichoderma viride* as seed treatment + bioagent fortified FYM (1:50) and spray for PFSR
- *S*alicylic acid for PFSR, RDM, TLB and MLB
- *Pseudomonas fluorescens* (4g/kg), FYM (100kg/ha) + *Trichoderma harzianum* (2.5g/kg), Difenoconazole, Trifloxystrobin + Tebuconazole and Validamycin for BLSB
- Tebuconazole, Difenconazole, Trifloxystrobin + Tebuconazole and Propiconazole for common rust and turcicum leaf blight
- Metalaxyl + Mancozeb @ 0.25% for RDM

ii. Cyst nematode:

- *Pochonia chlamydosporia* @ 2 % w/w as ST + *Lantana camera* leaves @ 1 q / ha
- *Paecilomyces lilacinus* @ 2 % w/w + Lantana leaves at 1 q/ha
- *Pochonia chlamydosporia* @ 2 % w/w + *Calotropisprocera* @ 1 q / ha

Entomology

Evaluation of AICRP entries against stem borers under AICRP:
During *Kharif* 2015, AICRP trials of 71, 41, 39 and 42 entries of different maturity period, speciality corn, QPM and inbred lines were evaluated at Delhi, Karnal and Ludhiana, Dholi, Kolhapur, Hyderabad and Udaipur for screening against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three metres each. When the plants were 12-14 days-old; 10-12 black-headed eggs of *C. partellus* laid on butter paper were pinned in the whorl. The plants were observed 25 days after infestation for level of infestation by recording the leaf injury rating on 1-9 scale.

Different maturity group: The following entries registered least susceptible reaction against *C*. *partellus* (LIR <3.0)
Full Season Maturity: NWPZ: CMH 10-555, ADV 0990296, PRMH-189, ADV 1190384,115-08-01,, Siri-4527; NEPZ: 29 entries least susceptible while 12 were highly susceptible; PZ:32 moderately susceptible while 9 highly susceptible; CWZ: DAS-Mh-106, PM14101L, GK3118, Siri-4527, PMH-3-C and Bio 9681-C were least susceptible.
Medium Maturity: NWPZ:BH 412084, JH 31605, CP.201, DKC9144(IM8478) and HM 9-C were least susceptible; NEPZ: all entries except BL 897, CP.201 , HT 51412607 and DKC9144(IM8478) were least susceptible; PZ: No entry showed least susceptible reaction; CWZ: BH 412084, BL 897 and HT 51412607 showed least susceptible reaction.
Early Maturity: NWPZ: GYH-0656, FH 3605, FH 3664 and CMH 10-531 were least susceptible; NEPZ: all the entries were least susceptible; PZ: no entry showed least susceptibility; CWZ: FH 3605, FH 3664, PMH-5-C were least susceptible.
Extra Early Maturity: NWPZ: Vivek Hybrid 21-C and Vivek Hybrid 43-C were least susceptible; NEPZ: all the entries were least susceptible; PZ: no entry showed least susceptibility; CWZ: no entry showed least susceptibility.

Speciality Corn: The following entries registered least susceptible reaction against *C. Partellus (LIR <3.0)*
Pop Corn*:* NWPZ: SJPC1, MPC-1-15 and VLpop corn-C were least Susceptible; NEPZ: DMRHP 1402 IMHP 1540, HPC 1,VL Popcorn-2(Re-testing),KDPC-2 (Pop corn),IMHP 1535 and VL Pop corn-C: PZ: no entry was least susceptible; CWZ: VL Popcorn-2(Re-testing) and SJPC1 were least susceptible
Sweet Corn: NWPZ: one entry, FSCH 55 ; NEPZ: FSCH 75, QMHSC-1182, BSCH 6, SJSC1, ASKH1, FSCH 41 and ASKH4; PZ: no entry was least susceptible; CWZ: QMHSC-1182 and FSCH 55 were least susceptible
Baby Corn: NWPZ: Vivek MH 27(R-Testing), IMHB 1531, HKH 425 and HM4-C; NEPZ: IMHB 1538, IMHB 1539, MBC-11-15, IMHB 1537, ABH9001,DMRH 1305, IMHB 1531, IMHB 1532, GAYMH-1, IMH 1525, BAUM-3, ASKBH1 and HM4-C; PZ: no entry was least susceptible; CWZ: IMHB 1529, IMHB 1539, BAUM-3 and HM4-C were least susceptible
QPM: NWPZ: EHQ-64, BQPMH-18, IIMRQPMH1510 and IIMRQPMH; NEPZ: All entries except IIMRQPMH1510 were least susceptible; PZ: IIMRQPMH1507, IIMRQPMH1508, LQPMH 415, APQH9(EDV), IIMRQPMH1504, BQPMH-18, IIMRQPMH1505, FQH 106, LQPMH 115, LQPMH 315, DHM 117-C and HQPM1-C; CWZ: AQH4(EDV), APQH9(EDV), HM4-C and HQPM 5-C were least susceptible
During *Rabi* 2014-15, the following entries were found to be least susceptible against *C. partellus* at Kolhapur , X35F880 (2.5) and Rasi 950 (2.9) in full season maturity; DKC 9155 (2.9) in medium maturity and PMH 2246 (2.4) in early maturity-QPM.

During 2014-15, out of 39 entries screened against *Sesamia inferens* at Hyderabad under artificial infestation in late maturity, only one entry Venus (2.5) was found to be least susceptible. In the medium maturity, none of the entries were found to be least susceptible to pink borer and entry BL 798 (6.7) was highly susceptible. In the early maturity, none of the entries were least susceptible to *S. inferens* and the entries DKC9155 (6.6) and DKC 9135(6.2) were highly susceptible.

Evaluation of inbred lines against *Chilo partellus*:
Forty-two inbred lines were evaluated against *C. partellus* under artificial infestation during *kharif* 2015, seven entries AEB(Y)C534-1-1 (3.2), EC 618222 (3.4) ,WNZPBTL 8 (3.4), WNZPBTL 9 (3.5), IIMR PBT synthetic (3.7)IIMR SBT Pool (3.8 and EC 598465 (3.8) recorded LIR less than the resistant check CM 500 (3.9).

Evaluation of inbred lines against *Sesamia inferens*:
The third year screening of inbred lines against *S. inferens* at WNC, Hyderabad resulted in identifying two least susceptible genotypes, WNZ EXOTIC POOLDC2(2.6) and WNZPBTL 6 (3.0).

Evaluation of inbred lines against Shoot fly, *Atherigina Spp.* under natural infestation during Spring 2015:
Sixty-eight inbred lines were evaluated against shootfly during Spring 2015 at Delhi and Ludhiana. The following lines recorded less than 10.0 percent dead hearts,CML420(8.3), ACC.263214(9.1),WINPOP 8(9.1), AEB (Y)(10.0%), and CML49(10.0).
Monitoring of *Helicoverpa armigera* by pheromone traps:
The population of *Helicoverpa armigera* was monitored from tasseling till hard dough stage of maize by installing pheromone traps during *Kharif*- 2015 at weekly

interval. The moths started appearing in second week of September and continue till first week of October at Delhi with maximum number of moths i.e. 7.5/trap/week noticed in first week of October. Moth appearance was observed in the same metrological period at Karnal. The moths started appearing in first week of May and continued till second week of June at Ludhiana. Maximum number of moths (64.5/trap/3 days) were recorded during mid June. *Helicoverpa* moths were observed active in the second fortnight of September at Udaipur with maximum activity (5 moths /trap) recorded during the last week of September.
The period of activity varied greatly from location to location with minimum (15 days) recorded at Udaipur to more than 30 days at Delhi and Karnal while the moth activity was observed quite earlier in the month of May on spring sown maize at Ludhiana. The cob infestation was 27.5, 3.9, 0.5 and 6.8 percent at Delhi, Karnal, Hyderabad and Udaipur respectively.

Evaluation of biocontrol agents, egg and larval parasitoids:

Egg parasitoids:
The parasitization was recorded on the freshly laid eggs by *C. partellus* by artificially releasing the adults on HQPM1 and PMH1 at 12 DAG. No egg parasitization was observed at Karnal, Kolhapur, Ludhiana and Udaipur, while 12.5 percent parasitization by *Trichogramma* was recorded at Delhi.

Larval parasitoids:
The larvae collected from infested maize plants when reared in laboratory, resulted in 37.5, 6.1, 5.6, 8.6, and 4.8 percent parasitization by *Cotesia flavipes* at Delhi, Karnal, Hyderabad, Ludhiana and Udaipur respectively. The mean larval incidence at all the centres suggested *Cotesia* to be active during 30-60 DAG with maximum incidence (21.4 percent) recorded at 40 DAG. Thereafter, the incidence starts decreasing till 60 DAG. No parasitized larvae recovered from the plants dissected at 70 DAG at any of the centre. Similar results were recorded in 2014.

Evaluation of insecticides against *Chilo partellus*:
The efficacy of four insecticides Chlorantraniliprole 18.5 SC, Flubendiamide 480 SC, Novaluron 10 EC and Deltamethrin 2.8 EC was evaluated at AICRP centres during *Kharif*, 2015. Flubendiamide 480 SC @ 0.2ml/litre followed by Chlorantraniliprole 18.5 SC @ 0.4ml/litre were found to be most effective based on leaf injury rating and also resulting in maximum yield return as compared to other treatments.

D. Outreach programmes

The Indian Institute of Maize Research is providing extension services to the nation through organizing Frontline Demonstrations (FLDs), field days, trainings *etc.* The demonstrations were organized at farmer's field by 14 AICRIP centres in 13 states. During *rabi* 2014-15, spring 2015 and *kharif* 2015, 28.8, 9.6 and 119.8 hectares FLDs were undertaken in different states. An average grain yield of 5,003 kg/ha was recorded which showed an increase of 95.6 per cent over all India average yield of maize. All promising technologies on maize were demonstrated. Ten hectares FLDs were also conducted on baby corn and fenugreek intercropping and average yield of 1,401 kg/ha and 11,500 kg/ha of dehusked baby corn and fenugreek green leaves, respectively were recorded. Demonstrations on Maize+ Soybean intercropping were also conducted at Banswara. This highlights the potentials of further enhancing the yield levels of maize across the country.

Details of FLDs conducted during different seasons in 2014-15

States covered	No. of FLDs (ha)	Range of average yield (kg/ha)	% increase over state average yield
***Rabi*- 2014-15**			
Bihar, Gujarat, Tamilnadu	28.8	4,166 – 8,353	43.2 – 148.7
Spring-2015			
Punjab	9.6	7,329	100.8
***Kharif*-2015**			
Andhra Pradesh, Bihar, Chhattisgarh, Delhi, Gujarat, Jammu & Kashmir, Jharkhand, Karnataka, Odisha, Punjab, Rajasthan, Tamilnadu, Uttar Pradesh	119.8	2,347 – 6,318	7.5 – 227.5

Tribal Sub Plan scheme

Under TSP scheme, 209 hectares demonstration were carried out at tribal farmer's field by IIMR through its AICRIP centres in different states of Assam, Andhra Pradesh, Chhattisgrah, Jharkhand, Karnataka, Madhya Pradesh, Odisha, Rajasthan and Uttar Pradesh. The average yield under the demonstration varied from 3,441 kg/ha to 7,500 kg/ha with 12.0 % to 34.6% increase over state average yield during *rabi,* 2014-15 and 2,420 kg/ha to 5,090 kg/ha with 39.1% to 186.3 % increase over state average yield during *kharif,* 2015. Four hectares FLDs in spring 2015 were conducted on baby corn cultivation in Ranchi, Jharkhand and average yield of 5,230 kg/ha husked baby corn was obtained.

The Institute organized six National Level Training programmes for tribal farmers to enrich their skills in respect of latest production technologies and value addition in maize during 29th September to 01st October, 7th to 9th October, 27th to 29th October, 2015, 16th to 18th February, 8th to 10th March and 14th to 16th March, 2016 at New Delhi. In these trainings, 224 tribal farmers from various states *viz.* Assam, Chhattisgarh, Gujarat, Jammu and Kashmir, Jharkhand, Odisha, Madhya Pradesh, Rajasthan, Uttar Pradesh and Telangana *etc.*, were trained. AICRIP centres on maize conducted 19 Regional training programs and fifteen field days in Assam, Andhra Pradesh, Chhattisgrah, Gujarat, Jharkhand, Jammu and Kashmir, Karnataka, Madhya Pradesh, Manipur, Odisha, Rajasthan and Uttar Pradesh wherein more than 2,000 tribal farmers were exposed to latest technologies. To uplift the economic conditions of the farmers seed of improved maize hybrid, maize sheller, literature, biofertilizer, vermicompost, Seed storage bin, Line Marker, Kunte, Tarapaulins, Knapsack sprayer were provided to beneficiaries.

The IIMR participated in India International Trade Fare in Pragati Maidan, New Delhi from 14th to 27th November, 2015. More than 500 visitors visited the exhibition and enriched with the maize production, protection and value addition knowledge.

E. New initiatives to strengthen AICRP Maize

The new proposals for further strengthening of AICRP Maize system are as follows:

a. **Re-naming of zones**: The AICRP zones have been re-named so that it is easy to understand by everyone. The zones which are renamed are Zone I (North Hill Zone); Zone II (North West Plain Zone); Zone III (North East Plain Zone); Zone IV (Peninsular Zone) and Zone V (Central-western Zone).
b. **Re-naming of IVT:** Since IVT trials are conducted throughout the country across zones in all the states, hence it is worthwhile to rename IVT as National Initial varietal trial (NIVT).
c. **Promotion/release criteria**: Those entries will be promoted which falls under the non-significant group from the best entry(Rank 1) and are numerically superior over the best check of the trial at CD (*P*=0.05) for NIVT to AVT-1 and from AVT-1 to AVT-2.
d. In extra-early, early and medium trials, the test entry should not exceed the relevant best check by 1.5 days in days to silking (50%).
e. A **new IVT for rainfed** will be conducted in all the zones.
f. **All zonal trials will be conducted in rainfed conditions**. Sowing shall be done on residual moisture and no life saving irrigation shall be given.
g. **National nurseries** viz. 'Pre-breeding Maize Nursery' and 'Superior Segregating Nursery' will be provided to the maize centers. All maize centers may contribute their entries to the national nurseries.
h. **Reaction to diseases** which are rated on 1 to 9 scale should be less than or equal to 3.0 for resistance and 3.1 to 5.0 for moderate resistance in case of *Maydis* Leaf Blight, *Turcicum* Leaf Blight, Banded Leaf and Sheath Blight, *Curvularia* Leaf Spot and Post Flowering Stalk rots; and less than or equal to 2.0 for resistance and 2.1 to 4.0 for moderate resistance in case of Common and Polysora rusts. The resistant and moderately resistant entries would be considered for promotion. While promoting from NIVT to AVT-1 and AVT-1 to AVT-2, the disease reaction of test entries to the diseases of zonal/regional importance would be considered.

Decoding of Entries Tested in Kharif 2015 Coordinated Trials

BREEDING

Trial. 61 (Late)-A

Trial No. : Late Maturity (NIVT) (61)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	IIMRNH 2015-8	IIMR Ludhiana	All*	IMR101	1055	1088	1113
2	TMMH 840	Tri Murty Seeds P. Ltd.	All*	IMR102	1029	1102	1124
3	BRM 12-1	BAC Sabour	All*	IMR103	1051	1070	1114
4	SRIKAR 3555	Srikar seeds Ltd.	All*	IMR104	1053	1082	1118
5	BH 413053	ARI Hyd.	All*	IMR105	1019	1097	1131
6	CP.802	CP.Seeds Ltd.	All*	IMR106	1012	1089	1144
7	JH 13339	PAU Ludhiana	All*	IMR107	1038	1105	1157
8	CP.804	CP.Seeds Ltd.	All*	IMR108	1004	1083	1145
9	JKMH 4153	JK Seeds Ltd.	All*	IMR109	1030	1084	1119
10	Super-6030	Super Seeds P.Ltd.	All*	IMR110	1050	1064	1159
11	GK3141	Ganga Kavari Ltd.	All*	IMR111	1043	1078	1141
12	DAS-MH-111	Dow Agro Sciences	All*	IMR112	1054	1059	1153
13	IMHW1541	IIMR Ludhiana	All*	IMR113	1016	1079	1136
14	PM15101L	PHI Seeds Ltd.	All*	IMR114	1028	1095	1146
15	IMH1533	IIMR New Delhi	All*	IMR115	1035	1087	1152
16	HT 515387	Hytech Seed India P.Ltd.	All*	IMR116	1022	1063	1154
17	JH 13341	PAU Ludhiana	All*	IMR117	1007	1100	1130
18	MFH-6-15	TCA Dholi	All*	IMR118	1011	1108	1142
19	HM15310	METAHELIX	All*	IMR119	1049	1057	1116
20	CMH12-661	TNAU Ciombatore	All*	IMR120	1025	1106	1135
21	MAH-K14-4(CAHCM1476)	MANDYA	All*	IMR121	1047	1109	1132
22	IMH1530	IIMR New Delhi	All*	IMR122	1026	1104	1111
23	DMRH1415	IIMR New Delhi	All*	IMR123	1014	1060	1150
24	ANJAN	Srikar seeds Ltd.	All*	IMR124	1023	1080	1115
25	PM15105L	PHI Seeds Ltd.	All*	IMR125	1015	1086	1125
26	IMH1528	IIMR New Delhi	All*	IMR126	1010	1085	1160
27	CMH12-678	TNAU Ciombatore	All*	IMR127	1039	1090	1155
28	NMH-3662	Nimal Seeds Ltd.	All*	IMR128	1003	1081	1149
29	QMH-1025	Kolhapur	All*	IMR129	1021	1091	1140
30	OMH 14-27(CAH 153)	Bhubaneswar	All*	IMR130	1020	1058	1164
31	QMH-1232	Kolhapur	All*	IMR131	1048	1072	1163
32	IMH1527	IIMR New Delhi	All*	IMR132	1024	1061	1158
33	DKC9163 (IP8703)	Monsanto	All*	IMR133	1002	1110	1165
34	JKMH 4444	JK Seeds Ltd.	All*	IMR134	1017	1096	1129
35	IIMRNH 2015-10	IIMR Ludhiana	All*	IMR135	1037	1107	1128
36	QMH-1231	Kolhapur	All*	IMR136	1008	1093	1126
37	EH-2371	Udaipur	All*	IMR137	1034	1069	1156
38	CCH 4039	Rohini seeds Ltd.	All*	IMR138	1005	1068	1133
39	IMH1524	IIMR New Delhi	All*	IMR139	1031	1073	1161
40	PM15102L	PHI Seeds Ltd.	All*	IMR140	1041	1071	1162
41	KH-440	Kanchan	All*	IMR141	1018	1075	1112
42	MAH-K14-2(CAHCM1456)	MANDYA	All*	IMR142	1052	1092	1134

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
43	VNR-31565	VNR SEEDS LTD.	All*	IMR143	1009	1076	1121
44	IIMRNH 2015-9	IIMR Ludhiana	All*	IMR144	1046	1099	1127
45	PM15106L	PHI Seeds Ltd.	All*	IMR145	1006	1065	1122
46	SMH-3902	Shakthi Seeds pvt. Ltd.	All*	IMR146	1001	1067	1138
47	CMH12-688	TNAU Ciombatore	All*	IMR147	1044	1062	1117
48	DAS-MH-110	Dow Agro Sciences	All*	IMR148	1027	1077	1139
49	PM15104L	PHI Seeds Ltd.	All*	IMR149	1033	1074	1151
50	GH-1113	Dharwad	All*	IMR150	1040	1094	1147
51	KNMH-4503	ARS Karimnagar	All*	IMR151	1036	1103	1120
52	PMH-1-C	PAU, Ludhiana	All*	IMR152	1032	1066	1137
53	PMH-3-C	PAU, Ludhiana	All*	IMR153	1042	1101	1143
54	Seedtech 2324-C	Bisco	All*	IMR154	1045	1056	1123
55	BIO 9681-C	Bioseed	All*	IMR155	1013	1098	1148

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. 61 (Late)-B

Trial No. : Late Maturity (NIVT) (61)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	ADV 7139	ADVANTA LTD.	All*	IMR161	1215	1231	1300
2	ADV 7022	ADVANTA LTD.	All*	IMR162	1171	1264	1323
3	MAH-K14-1(CAHCM1442)	MANDYA	All*	IMR163	1203	1229	1290
4	PM15108L	PHI Seeds Ltd.	All*	IMR164	1211	1226	1293
5	AH7000	IARI Delhi	All*	IMR165	1196	1260	1287
6	KMH-1311	Kavari seed Ltd.	All*	IMR166	1216	1244	1286
7	Aadi	Srikar seeds Ltd.	All*	IMR167	1205	1254	1312
8	IMH1534	IIMR New Delhi	All*	IMR168	1222	1245	1331
9	EH-2588	Udaipur	All*	IMR169	1180	1255	1302
10	DKC8166 (IP8571)	Monsanto	All*	IMR170	1197	1233	1318
11	JH 13336	PAU Ludhiana	All*	IMR171	1172	1241	1281
12	RMH-726	Rasi seeds Ltd.	All*	IMR172	1208	1261	1298
13	ZASL-986	Zuari Seeds Limited	All*	IMR173	1221	1257	1306
14	IMH1526	IIMR New Delhi	All*	IMR174	1198	1250	1326
15	CMH12-686	TNAU Ciombatore	All*	IMR175	1207	1275	1322
16	BL 103	BISCO BIO SCIENCE LTD.	All*	IMR176	1173	1236	1280
17	DH-296	Pantnagar	All*	IMR177	1186	1278	1316
18	GK3144	Ganga Kavari Ltd.	All*	IMR178	1185	1252	1328
19	OMH 14-19(CAH 1521)	Bhubaneswar	All*	IMR179	1217	1271	1315
20	DKC9164 (IP9002)	Monsanto	All*	IMR180	1188	1225	1301
21	SAFAL X-2	SAFAL SEEDS Ltd.	All*	IMR181	1184	1266	1305
22	RMH-748	Rasi seeds Ltd.	All*	IMR182	1206	1268	1308
23	HM15313	METAHELIX	All*	IMR183	1194	1277	1327
24	VNR-34229	VNR SEEDS LTD.	All*	IMR184	1176	1242	1311
25	BH 413055	ARI Hyd.	All*	IMR185	1193	1267	1289
26	HKH 425	HAU Karnal	All*	IMR186	1183	1273	1329
27	BL 108	BISCO BIO SCIENCE LTD.	All*	IMR187	1220	1249	1325
28	SYN516753	syngenta Ltd.	All*	IMR188	1177	1263	1317

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
29	BRM 12-6	BAC Sabour	All*	IMR189	1213	1259	1330
30	PM15103L	PHI Seeds Ltd.	All*	IMR190	1224	1239	1313
31	MAH-K14-3(CAHCM1473)	MANDYA	All*	IMR191	1190	1256	1292
32	DH-295	Pantnagar	All*	IMR192	1214	1228	1307
33	DKC8144 (IM8479)	Monsanto	All*	IMR193	1174	1238	1296
34	KNMH-4506	ARS Karimnagar	All*	IMR194	1179	1230	1324
35	VNR-32971	VNR SEEDS LTD.	All*	IMR195	1218	1237	1310
36	IIMRNH 2015-7	IIMR Ludhiana	All*	IMR196	1200	1258	1321
37	JH 13208	PAU Ludhiana	All*	IMR197	1219	1247	1332
38	KMH-2852	Kavari seed Ltd.	All*	IMR198	1210	1272	1309
39	DKC9167 (IP8708)	Monsanto	All*	IMR199	1192	1232	1314
40	BH 413027	ARI Hyd.	All*	IMR200	1189	1253	1283
41	IIMRNH 2015-6	IIMR Ludhiana	All*	IMR201	1175	1243	1304
42	Googul	Srikar seeds Ltd.	All*	IMR202	1202	1269	1291
43	JH 13346	PAU Ludhiana	All*	IMR203	1195	1276	1295
44	BH 413036	ARI Hyd.	All*	IMR204	1187	1270	1303
45	DKC9168 (IP8704)	Monsanto	All*	IMR205	1201	1240	1279
46	CCH 1040	Rohini seeds Ltd.	All*	IMR206	1191	1234	1294
47	IMH1536	IIMR New Delhi	All*	IMR207	1182	1262	1285
48	DKC8161 (IP8570)	Monsanto	All*	IMR208	1209	1246	1288
49	MFH-5-15	TCA Dholi	All*	IMR209	1212	1274	1299
50	HT 515169	Hytech Seed India P.Ltd.	All*	IMR210	1178	1251	1320
51	PMH-1-C	PAU, Ludhiana	All*	IMR211	1181	1235	1284
52	PMH-3-C	PAU, Ludhiana	All*	IMR212	1223	1248	1319
53	Seedtech 2324-C	Bisco	All*	IMR213	1199	1265	1297
54	BIO 9681-C	Bioseed	All*	IMR214	1204	1227	1282

All*= All Zones except Northern Hill Zone (NHZ) (Zone-I)

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. 62 (Medium)-A

Trial No. : Medium Maturity (NIVT) (62)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan (Jorhat), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	KNMH-4501	ARS Karimnagar	All	IMR221	1371	1423	1439
2	JH 13347	Ludhiana	All	IMR222	1378	1386	1448
3	KMH 13-5	Kangra	All	IMR223	1336	1392	1452
4	KNMH-4505	ARS Karimnagar	All	IMR224	1358	1416	1432
5	HM15207	METAHELIX	All	IMR225	1344	1422	1463
6	EH-2480	Udaipur	All	IMR226	1373	1417	1453
7	JH 13348	Ludhiana	All	IMR227	1364	1390	1424
8	AH7007	IARI Delhi	All	IMR228	1360	1421	1440
9	SRIKAR 2079	Srikar seeds Ltd.	All	IMR229	1359	1411	1427
10	IMH1526	IIMR New Delhi	All	IMR230	1349	1381	1428
11	PMSW4	SKUAST Jammu	All	IMR231	1368	1402	1446
12	EH-2233	Udaipur	All	IMR232	1347	1397	1441
13	BIO 509	BIOSEED	All	IMR233	1355	1401	1460
14	KNMH-4507	ARS Karimnagar	All	IMR234	1339	1389	1430
15	IMH1530	IIMR New Delhi	All	IMR235	1345	1380	1449
16	AMH-3435	Ajeet seeds Ltd.	All	IMR236	1362	1408	1465
17	MMH-4-15	TCA Dholi	All	IMR237	1372	1419	1431
18	UDMH-127	SKUAST Jammu	All	IMR238	1341	1400	1451
19	NMH 109	Namdhari seeds Ltd.	All	IMR239	1375	1405	1438
20	PMSY3	SKUAST Jammu	All	IMR240	1350	1420	1461
21	CMH11-620	TNAU Coimbatore	All	IMR241	1353	1384	1464
22	LMH 915	Bajaura	All	IMR242	1366	1413	1457
23	JKMH 4103	JK Seeds Ltd.	All	IMR243	1340	1383	1429
24	RCRMH1 (HTMR1)	Karnataka	All	IMR244	1370	1410	1444
25	LMH 615	Bajaura	All	IMR245	1352	1391	1459
26	JKMH 4333	JK Seeds Ltd.	All	IMR246	1354	1407	1447
27	LMH 815	Bajaura	All	IMR247	1343	1393	1437
28	OMH 14-64(CAH 1532)	Bhubaneswar	All	IMR248	1357	1382	1458
29	Mahabeej-1302	MSSC Ltd.	All	IMR249	1351	1404	1445
30	IIMRNH 2015-1	IIMR Ludhiana	All	IMR250	1363	1414	1436
31	CMH12-699	TNAU Coimbatore	All	IMR251	1376	1403	1454
32	IIMRNH 2015-2	IIMR Ludhiana	All	IMR252	1367	1385	1467
33	IMH1525	IIMR New Delhi	All	IMR253	1337	1399	1426
34	BRM 12-3	BAC Sabour	All	IMR254	1361	1418	1434
35	MMH-3-15	TCA Dholi	All	IMR255	1342	1412	1450
36	DAS-MH-309	Dow Agro Sciences Ltd.	All	IMR256	1374	1388	1455
37	NMH-3746	Nimal Seeds Ltd.	All	IMR257	1338	1387	1425
38	PROLINE-511	Proline	All	IMR258	1369	1395	1466
39	BL 106	BISCO BIO SCIENCE LTD.	All	IMR259	1379	1394	1456
40	IIMRNH 2015-3	IIMR Ludhiana	All	IMR260	1356	1396	1442
41	HM15206	METAHELIX	All	IMR261	1377	1409	1443
42	HM 9-C	HAU, Karnal	All	IMR262	1365	1415	1435
43	BIO 9637-C	Bioseed	All	IMR263	1348	1398	1462
44	PMH-4-C	PAU, Ludhiana	All	IMR264	1346	1406	1433

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. 62 (Medium)-B

Trial No. :	Medium Maturity (NIVT) (62)	Year (Season):	2015-Kharif
Replication :	3	Row No. :	2
Row Length:	4 mts.		

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan (Jorhat), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	BRM 12-4	BAC Sabour	All	IMR271	1473	1530	1585
2	AH1401	IARI Delhi	All	IMR272	1482	1541	1569
3	OMH 14-7(CAH 1538)	Bhubaneswar	All	IMR273	1479	1551	1580
4	IMH1534	IIMR New Delhi	All	IMR274	1487	1543	1573
5	Muskan	BBN Ltd.	All	IMR275	1497	1537	1589
6	IMH1524	IIMR New Delhi	All	IMR276	1483	1519	1594
7	PM15107M	PHI Seeds Ltd.	All	IMR277	1491	1544	1566
8	RMH-301	Rasi seeds Ltd.	All	IMR278	1514	1521	1602
9	LMH 715	Bajaura	All	IMR279	1510	1522	1563
10	KNMH-4502	ARS Karimnagar	All	IMR280	1471	1553	1575
11	IIMRNH 2015-4	IIMR Ludhiana	All	IMR281	1505	1555	1593
12	KNMH-4504	ARS Karimnagar	All	IMR282	1495	1523	1576
13	IMH1527	IIMR New Delhi	All	IMR283	1498	1527	1591
14	Ganga-11	Godavari Ltd.	All	IMR284	1490	1517	1586
15	LMH 515	Bajaura	All	IMR285	1489	1554	1600
16	KH-2001 GOLD	Kanchan Ltd.	All	IMR286	1503	1558	1572
17	DH-293	Pantnagar	All	IMR287	1509	1515	1562
18	VaMH 12014	Vagarai	All	IMR288	1475	1557	1560
19	JH 31820	Ludhiana	All	IMR289	1508	1550	1567
20	EH-2214	Udaipur	All	IMR290	1486	1532	1581
21	CMH12-672	TNAU Coimbatore	All	IMR291	1474	1525	1564
22	BIO 274	BIOSEED	All	IMR292	1484	1539	1570
23	PHM 34	SKUAST Jammu	All	IMR293	1512	1552	1561
24	KMH-5332	Kavari seed Ltd.	All	IMR294	1477	1526	1597
25	KNMH-4508	ARS Karimnagar	All	IMR295	1506	1548	1577
26	HKH 350	HAU Karnal	All	IMR296	1501	1556	1601
27	HT 515349	Hytech Seed India P.Ltd.	All	IMR297	1504	1536	1592
28	BGMH2 (CAH1454)	Karnataka	All	IMR298	1507	1542	1595
29	LMH 1015	Bajaura	All	IMR299	1511	1531	1578
30	DH-294	Pantnagar	All	IMR300	1485	1535	1582
31	IMH1533	IIMR New Delhi	All	IMR301	1496	1533	1588
32	RCRMH2 (HTMR2)	Karnataka	All	IMR302	1493	1538	1584
33	BL 107	BISCO BIO SCIENCE LTD.	All	IMR303	1488	1528	1599
34	AH7009	IARI Delhi	All	IMR304	1513	1549	1579
35	GK3131	Ganga Kavari Ltd.	All	IMR305	1492	1529	1587
36	IIMRNH 2015-5	IIMR Ludhiana	All	IMR306	1481	1518	1571
37	DAS-MH-308	Dow Agro Sciences Ltd.	All	IMR307	1502	1546	1596
38	BGMH1 (CAH1526)	Karnataka	All	IMR308	1476	1534	1583
39	KMH 13-79	Kangra	All	IMR309	1499	1547	1598
40	BAUMC-3	Ranchi	All	IMR310	1472	1524	1565
41	VEH 15-1	BHU	All	IMR311	1478	1540	1574
42	HM 9-C	HAU, Karnal	All	IMR312	1480	1520	1559
43	BIO 9637-C	Bioseed	All	IMR313	1494	1516	1590
44	PMH-4-C	PAU, Ludhiana	All	IMR314	1500	1545	1568

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. 63,64 (Early-Ex Early)

Trial No. :	Early Maturity (IVT) (63,64)	Year (Season):	2015-Kharif
Replication :	3		
Row No. :	2	Row Length:	4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Udhampur, Sirinagar, Gossaigoan (Jorhat), Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Vagarai, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua

E.No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
1	BRM 12-5	BAC Sabour	All	IMR318	1643	1655	1722
2	KMH-5510	Kavari seed Ltd.	All	IMR319	1609	1648	1707
3	AH7006	IARI Delhi	All	IMR320	1633	1658	1719
4	LMH 1215	Bajaura	All	IMR321	1617	1669	1726
5	DMRH1305	IIMR New Delhi	All	IMR322	1621	1659	1716
6	FH 3728	VPKAS Almora	All	IMR323	1622	1663	1718
7	LMH 1415	Bajaura	All	IMR324	1644	1653	1688
8	JH 31785	Ludhiana	All	IMR325	1626	1668	1727
9	FH 3754	VPKAS Almora	All	IMR326	1635	1685	1691
10	BL 104	BISCO BIO SCIENCE LTI	All	IMR327	1638	1654	1692
11	KMH 13-15	Kangra	All	IMR328	1611	1676	1721
12	BL 105	BISCO BIO SCIENCE LTI	All	IMR329	1618	1686	1700
13	DH-292	Pantnagar	All	IMR330	1620	1678	1708
14	H-100 (CAH-1527)	SKUAST Kashmir	All	IMR331	1624	1683	1698
15	H-101 (CAH-1586)	SKUAST Kashmir	All	IMR332	1627	1649	1689
16	IH-0712	Godhara	All	IMR333	1629	1666	1705
17	EH-2416	Udaipur	All	IMR334	1614	1650	1695
18	CMH12-700	TNAU Ciombatore	All	IMR335	1636	1665	1724
19	KMH 13-17	Kangra	All	IMR336	1625	1679	1715
20	AH1402	IARI Delhi	All	IMR337	1612	1651	1690
21	LMH 1115	Bajaura	All	IMR338	1630	1670	1704
22	CMH12-703	TNAU Ciombatore	All	IMR339	1637	1675	1694
23	LMH 1315	Bajaura	All	IMR340	1647	1667	1720
24	DH-291	Pantnagar	All	IMR341	1639	1682	1703
25	FH 3729	VPKAS Almora	All	IMR342	1615	1662	1725
26	JKMH 4222	JK Seeds Ltd.	All	IMR343	1632	1671	1713
27	NMH-51	Nimal Seeds Ltd.	All	IMR344	1646	1652	1717
28	IH-0953	Godhara	All	IMR345	1641	1657	1711
29	BRM 12-2	BAC Sabour	All	IMR346	1640	1680	1723
30	MEH-2-15	TCA Dholi	All	IMR347	1628	1656	1706
31	Khushi	BBN Ltd.	All	IMR348	1634	1674	1697
32	LMH 1515	Bajaura	All	IMR349	1608	1677	1701
33	MEH-1-15	TCA Dholi	All	IMR350	1645	1672	1693
34	PMH-5-C	PAU, Ludhiana	All	IMR351	1619	1661	1714
35	Parkash-C	PAU, Ludhiana	All	IMR352	1623	1664	1709
	Extra Early						
36	DH-297	Pantnagar	All	IMR353	1631	1687	1712
37	DH-298	Pantnagar	All	IMR354	1610	1684	1710
38	APH27-B	IARI Delhi	All	IMR355	1616	1660	1696
39	Vivek Hybrid 21-C	Almora	All	IMR356	1642	1681	1699
40	Vivek Hybrid 43-C	Almora	All	IMR357	1613	1673	1702

Trial. 65, 66-(NEPZ) (Z-3) (Late+Medium)

Trial No. : 65,66, (NEPZ) (Z - III) Late-Medium Maturity (AVT-I Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 4 Row Length: 4 mts.
Locations: Dholi, Ranchi, Bhubneshwar, Varanasi, Baharaich, Medinapur, Koraput, RRS Madhopur, Chappra, Sabour, Mohanpur

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
Trial. 65 - (NEPZ) (Z-3)(Late)							
1	CMH 12-663	TNAU Ciombatore	(NEPZ) (Z-3)	IMR451	1988	2000	2010
2	GOLD1166	GREEN GOLD LTD	(NEPZ) (Z-3)	IMR452	1991	1997	2007
3	PMH-1-C	PAU, Ludhiana	(NEPZ) (Z-3)	IMR453	1984	1994	2004
4	PMH-3-C	PAU, Ludhiana	(NEPZ) (Z-3)	IMR454	1987	1999	2005
5	Seedtech 2324-C	Bisco	(NEPZ) (Z-3)	IMR455	1986	2001	2012
6	BIO 9681-C	Bioseed	(NEPZ) (Z-3)	IMR456	1982	1993	2011
Trial. 66 -(NEPZ) (Z-3) (Medium)							
7	DAS-MH-306	Dow Agro Sciences	(NEPZ) (Z-3)	IMR457	1983	2002	2008
8	GK3120	Ganga Kavari Ltd.	(NEPZ) (Z-3)	IMR458	1985	1996	2009
9	HM 9-C	HAU, Karnal	(NEPZ) (Z-3)	IMR459	1981	1995	2006
10	BIO 9637-C	Bioseed	(NEPZ) (Z-3)	IMR460	1989	1998	2013
11	PMH-4-C	PAU, Ludhiana	(NEPZ) (Z-3)	IMR461	1990	1992	2003

Z-3:North East Plain Zone (NEPZ) (Z-3)

Trial. 65, 69 - (PZ) (Z-4) (Late)

Trial No. : 65, 69 (PZ) (Z4) Late Maturity (AVT-I-IIYear) Replication : 3
Year (Season): 2015-Kharif Row No. : 6
Replication : 3 Row Length: 4 mts.
Locations: Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Arbahvi, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Niphad Nasik,Rahuri

E. No.	Name	Origin	Zone	IIMR Code	R1	R2	R3
	Tr 65- (PZ) (Z-4)						
1	CMH 10-555	TNAU Ciombatore	(PZ) (Z-4)	IMR465	2026	2060	2086
2	CMH 11-618	TNAU Ciombatore	(PZ) (Z-4)	IMR466	2037	2062	2076
3	NMH-1247	Nuziveedu Seeds Ltd.	(PZ) (Z-4)	IMR467	2036	2059	2080
4	PRMH-189	Pravardhan seeds Ltd.	(PZ) (Z-4)	IMR468	2039	2055	2073
5	DMH 192	METAHELIX	(PZ) (Z-4)	IMR469	2027	2065	2083
6	HT 51412616	Hytech Seed India P.Ltd.	(PZ) (Z-4)	IMR470	2018	2066	2084
7	CMH 12-663	TNAU Ciombatore	(PZ) (Z-4)	IMR471	2017	2050	2077
8	DAS-MH-106	Dow Agro Sciences	(PZ) (Z-4)	IMR472	2033	2058	2071
9	PM14101L	PHI Seeds Ltd.	(PZ) (Z-4)	IMR473	2020	2053	2092
10	DKC9151 (IN8902)	Monsanto	(PZ) (Z-4)	IMR474	2022	2046	2090
11	DKC9159 (IN8570)	Monsanto	(PZ) (Z-4)	IMR475	2034	2061	2075
12	KH-2192	Kanchan	(PZ) (Z-4)	IMR476	2015	2045	2067
13	115-08-01	Kanchan	(PZ) (Z-4)	IMR477	2023	2051	2070
14	ADV 0990293	Advanta Ltd.	(PZ) (Z-4)	IMR478	2035	2042	2081
15	ADV 0990296	Advanta Ltd.	(PZ) (Z-4)	IMR479	2029	2054	2068
16	ADV 1190384	Advanta Ltd.	(PZ) (Z-4)	IMR480	2030	2049	2091
17	Super-1177	Super Seeds P.Ltd.	(PZ) (Z-4)	IMR481	2038	2048	2089
18	GK3118	Ganga Kavari Ltd.	(PZ) (Z-4)	IMR482	2032	2063	2088
19	KMH-3981	Kavari seeds Ltd.	(PZ) (Z-4)	IMR483	2016	2041	2087
20	DMRH1308	IIMR New Delhi	(PZ) (Z-4)	IMR484	2025	2043	2078
	Tr 69-(PZ) (Z-4)						
21	HTMH 5108	Hytech Seed India P.Ltd.	(PZ) (Z-4)	IMR485	2021	2056	2074
22	X35D601	PHI Seeds Ltd.	(PZ) (Z-4)	IMR486	2031	2064	2069
23	PMH-1-C	PAU, Ludhiana	(PZ) (Z-4)	IMR487	2028	2047	2082
24	PMH-3-C	PAU, Ludhiana	(PZ) (Z-4)	IMR488	2019	2044	2072
25	Seedtech 2324-C	Bisco	(PZ) (Z-4)	IMR489	2024	2057	2079
26	BIO 9681-C	Bioseed	(PZ) (Z-4)	IMR490	2040	2052	2085

Z-4:Peninsular Zone (PZ) (Z-4)

Trial. 65,66 - (CWZ) (Z-5) (Late, Medium)

Trial No. : 65,66 (CWZ) (Z-5) Late, Medium Maturity (AVT-I Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur Jagadalpur, RARS Ujjain, ZARS Indore, ARS Kota

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
	Tr 65-(CWZ) (Z-5)						
1	JH 13270	PAU. Ludhiana	(CWZ) (Z-5)	IMR495	2097	2120	2131
2	JH 13252	PAU. Ludhiana	(CWZ) (Z-5)	IMR496	2098	2121	2129
3	JH 13282	PAU. Ludhiana	(CWZ) (Z-5)	IMR497	2103	2118	2135
4	JH 12010	PAU. Ludhiana	(CWZ) (Z-5)	IMR498	2099	2119	2132
5	HT 51412607	Hytech SeedS India P.Ltd.	(CWZ) (Z-5)	IMR499	2095	2117	2133
6	DKC9151 (IN8902)	Monsanto	(CWZ) (Z-5)	IMR500	2107	2128	2140
7	KH-2192	Kanchan	(CWZ) (Z-5)	IMR501	2100	2114	2136
8	ADV 0990296	Advanta Ltd.	(CWZ) (Z-5)	IMR502	2108	2125	2142
9	VNR-4325	VNR Seeds Ltd.	(CWZ) (Z-5)	IMR503	2102	2112	2143
10	PMH-1-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR504	2111	2122	2145
11	PMH-3-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR505	2106	2115	2139
12	Seedtech 2324-C	Bisco	(CWZ) (Z-5)	IMR506	2096	2124	2130
13	BIO 9681-C	Bioseed	(CWZ) (Z-5)	IMR507	2109	2127	2144
	Tr. 66-(CWZ) (Z-5)						
14	HT51412607	Hytech seed	(CWZ) (Z-5)	IMR508	2101	2123	2134
15	HM 9-C	HAU, Karnal	(CWZ) (Z-5)	IMR509	2104	2113	2141
16	BIO 9637-C	Bioseed	(CWZ) (Z-5)	IMR510	2110	2126	2137
17	PMH-4-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR511	2105	2116	2138

Z-5:Central Western Zone (CWZ)(Z-5)

Trial. 66 - (NHZ) (Z-1) (Medium)

Trial No. : 66 (NHZ) (Z-1) Medium Maturity (AVT-I Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Almora, Bajaura, Udhampur, Kangra, Bertin, Dhaulakuan, Barapani, Gossaiogaon, Poonch, Rajouri, Imphal

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
1	BH 412084	ARI Hyderabad.	(NHZ) (Z-1)	IMR515	2155	2163	2168
2	HT 51412182	Hytech Seed India P.Ltd.	(NHZ) (Z-1)	IMR516	2157	2164	2170
3	HM 9-C	HAU, Karnal	(NHZ) (Z-1)	IMR517	2152	2162	2166
4	BIO 9637-C	Bioseed	(NHZ) (Z-1)	IMR518	2153	2161	2167
5	PMH-4-C	PAU, Ludhiana	(NHZ) (Z-1)	IMR519	2151	2160	2169
6	Seed Tech2324 (Filler)	Bisco	(NHZ) (Z-1)	IMR520	2156	2159	2171
7	Bio9681 (Filler)	Bioseed	(NHZ) (Z-1)	IMR521	2154	2158	2165

Z-1:Northern Hill Zone (NHZ) (Z-1)

Trial. 66,69 - (NWPZ) (Z-2)(Medium)

Trial No. : 66,69- (NWPZ) (Z-2) Medium-Late Maturity (AVT-I-II Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Ludhiana, Karnal, Kanpur, Pantnagar, delhi, Hisar,Aligarh, Jhansi, Gurdaspur, Kapurthala

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
	Tr 66(NWPZ) (Z-2)						
1	CP.201	CP.Seeds Ltd.	(NWPZ) (Z-2)	IMR525	2176	2189	2198
2	HM 9-C	HAU, Karnal	(NWPZ) (Z-2)	IMR526	2179	2187	2195
3	BIO 9637-C	Bioseed	(NWPZ) (Z-2)	IMR527	2182	2191	2196
4	PMH-4-C	PAU, Ludhiana	(NWPZ) (Z-2)	IMR528	2180	2190	2193
	Tr 69-(NWPZ) (Z-2)						
5	X35D601	PHI Seeds Ltd.	(NWPZ) (Z-2)	IMR529	2181	2188	2194
6	PMH-1-C	PAU, Ludhiana	(NWPZ) (Z-2)	IMR530	2183	2192	2200
7	PMH-3-C	PAU, Ludhiana	(NWPZ) (Z-2)	IMR531	2177	2186	2199
8	Seedtech 2324-C	Bisco	(NWPZ) (Z-2)	IMR532	2178	2184	2197
9	BIO 9681-C	Bioseed	(NWPZ) (Z-2)	IMR533	2175	2185	2201

Z-2:North West Plain Zone (NWPZ) (Z-2)

Trial. 66,70 - (PZ) (Z-4) (Medium)

Trial No. : 66,70 (PZ) (Z-4) Medium Maturity (AVT-I-II Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations: Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Dharwad, Arbahvi Niphad Nasik, Rahuri

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
	Tr 66-(PZ) (Z-4)						
1	JH 31605	Ludhiana	(PZ) (Z-4)	IMR535	2210	2218	2225
2	BL 897	Bisco Bio Science Ltd.	(PZ) (Z-4)	IMR536	2215	2223	2231
3	JKMH 4848	JK Seeds Ltd.	(PZ) (Z-4)	IMR537	2211	2220	2230
4	GK3120	Ganga Kavari Ltd.	(PZ) (Z-4)	IMR538	2212	2216	2226
	Tr70-(PZ) (Z-4)						
5	HTMH 5402	Hytech Seed India P.Ltd.	(PZ) (Z-4)	IMR539	2208	2222	2229
6	DKC9144 (IM8478	Monsanto	(PZ) (Z-4)	IMR540	2213	2219	2227
7	HM 9-C	HAU, Karnal	(PZ) (Z-4)	IMR541	2207	2224	2228
8	BIO 9637-C	Bioseed	(PZ) (Z-4)	IMR542	2209	2217	2233
9	PMH-4-C	PAU, Ludhiana	(PZ) (Z-4)	IMR543	2214	2221	2232

Z-4:Peninsular Zone (PZ) (Z-4)

Trial. 69 - (CWZ) (Z-5)(Late)

Trial No. : 69 (CWZ) (Z-5) Late Maturity (AVT-IIYear)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, RARS Ujjain, ZARS Indore, ARS Kota

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
1	Siri-4527	Siri Seeds Ltd.	(CWZ) (Z-5)	IMR551	2248	2262	2270
2	HTMH 5202	Hytech Seed India P.Ltd.	(CWZ) (Z-5)	IMR552	2243	2256	2266
3	DAS-MH-105	Dow Agro Sciences	(CWZ) (Z-5)	IMR553	2247	2263	2274
4	X35D601	PHI Seeds Ltd.	(CWZ) (Z-5)	IMR554	2241	2255	2276
5	DKC9133	Monsanto	(CWZ) (Z-5)	IMR555	2249	2252	2273
6	IM8556	Monsanto	(CWZ) (Z-5)	IMR556	2244	2251	2271
7	CP.999	CP.Seeds	(CWZ) (Z-5)	IMR557	2246	2254	2269
8	PRO-392	Rasi seeds Ltd.	(CWZ) (Z-5)	IMR558	2239	2259	2265
9	DKC9141 (IM8539)	Monsanto	(CWZ) (Z-5)	IMR559	2242	2253	2272
10	PMH-1-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR560	2245	2257	2275
11	PMH-3-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR561	2238	2260	2267
12	Seedtech 2324-C	Bisco	(CWZ) (Z-5)	IMR562	2240	2258	2268
13	BIO 9681-C	Bioseed	(CWZ) (Z-5)	IMR563	2250	2261	2264

Z-5:Central Western Zone (CWZ)(Z-5)

Trial. 67,71 (PZ) (Z-4)(Early)

Trial No. : 67,71(PZ) (Z-4) Early Maturity (AVT-I-IIYear)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations: Hyderabad, Shegal Founadation ICRISAT, Karimnagar, VRDC KSSC Dharwad, Kolhapur, Dharwad, Arbahvi, Mandya, Vagarai, Coimbatore, ARS Devihosur, Almel, ARS Belavatagi, Dhule, Parbhani, Niphad Nasik, Rahuri

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
	Tr 67-(PZ) (Z-4)						
1	AH9001	IARI New Delhi	(PZ) (Z-4)	IMR571	2282	2291	2298
	Tr 71-(PZ) (Z-4)						
2	FH 3605	VPKAS Almora	(PZ) (Z-4)	IMR572	2281	2294	2296
3	FH 3664	VPKAS Almora	(PZ) (Z-4)	IMR573	2287	2292	2300
4	PMH-5-C	PAU, Ludhiana	(PZ) (Z-4)	IMR574	2283	2290	2297
5	Parkash-C	PAU, Ludhiana	(PZ) (Z-4)	IMR575	2284	2289	2299
6	Seed Tech2324 (Filler)	Bisco	(PZ) (Z-4)	IMR576	2285	2288	2295
7	Bio9681 (Filler)	Bioseed	(PZ) (Z-4)	IMR577	2286	2293	2301

Z-4:Peninsular Zone (PZ) (Z-4)

Trial. 67,71 (CWZ) (Z-5) (Early)

Trial No. : 67 (CWZ) (Z-5) Early Maturity (AVT-I-IIYear)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations: Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabua, Bhiloda, AAR Dahod, Rajpur, Jagadalpur, RARS Ujjain, ZARS Indore, ARS Kota

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
	Tr. 67- (CWZ) (Z-5)						
1	GYH-0656	Godhara	(CWZ) (Z-5)	IMR581	2311	2317	2324
2	AH9001	IARI New Delhi	(CWZ) (Z-5)	IMR582	2305	2315	2320
	Tr. 71 (CWZ) (Z-5)						
3	FH 3664	VPKAS Almora	(CWZ) (Z-5)	IMR583	2307	2313	2319
4	JH 31613	PAU. Ludhiana	(CWZ) (Z-5)	IMR584	2306	2316	2322
5	CMH 10-531	TNAU Ciombatore	(CWZ) (Z-5)	IMR585	2309	2312	2325
6	PMH-5-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR586	2310	2318	2321
7	Parkash-C	PAU, Ludhiana	(CWZ) (Z-5)	IMR587	2308	2314	2323

Z-5:Central Western Zone (CWZ)(Z-5)

Trial. 68 (NWPZ) (Z-2) (Extra Early)

Trial No. : 68 (NWPZ) (Z-2) Extra Early Maturity (AVT-I Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 4
Row Length: 4 mts.
Locations: Ludhiana, Karnal, Kanpur, Pantnagar, delhi, Hisar,Aligarh, Jhansi, Gurdaspur, Kapurthala

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
1	AH1317	IARI New Delhi	(NWPZ) (Z-2)	IMR591	2333	2339	2347
2	EH-2236	Udaipur	(NWPZ) (Z-2)	IMR592	2331	2340	2351
3	Vivek Hybrid 21-C	Almora	(NWPZ) (Z-2)	IMR593	2335	2338	2350
4	Vivek Hybrid 43-C	Almora	(NWPZ) (Z-2)	IMR594	2336	2344	2349
5	BIO9637 (Filler)	Bioseed	(NWPZ) (Z-2)	IMR595	2337	2341	2345
6	Bio9681 (Filler)	Bioseed	(NWPZ) (Z-2)	IMR596	2334	2342	2348
7	Prakash (Filler)	PAU,Ludhiana	(NWPZ) (Z-2)	IMR597	2332	2343	2346

Z-2:North West Plain Zone (NWPZ) (Z-2)

Trial. 71 -(NHZ) (Z-1) (Early)

Trial No. : 71(NHZ) (Z-1) Early Maturity (AVT-II Year)
Year (Season): 2015-Kharif
Replication : 3
Row No. : 6
Row Length: 4 mts.
Locations: Almora, Bajaura, Udhampur, Kangra, Bertin, Dhaulakuan, Barapani, Gossaiogaon, Poonch, Rajouri, Imphal

E. No.	Name	Institute/orga.	Zone	IIMR Code	R1	R2	R3
1	FH 3605	VPKAS Almora	(NHZ) (Z-1)	IMR601	2367	2369	2376
2	FH 3626	VPKAS Almora	(NHZ) (Z-1)	IMR602	2364	2374	2377
3	Bio 9720	Bio Seeds Ltd.	(NHZ) (Z-1)	IMR603	2363	2368	2381
4	PMH-5-C	PAU, Ludhiana	(NHZ) (Z-1)	IMR604	2366	2372	2375
5	Parkash-C	PAU, Ludhiana	(NHZ) (Z-1)	IMR605	2365	2371	2379
6	Vivek Hybrid 21-Filler	Almora	(NHZ) (Z-1)	IMR606	2362	2370	2380
7	Vivek Hybrid 43-C-Filler	Almora	(NHZ) (Z-1)	IMR607	2361	2373	2378

Z-1:Northern Hill Zone (NHZ) (Z-1)

Trial. QPM I-II-III

Trial No. : QPM I-II-III
Year (Season): 2015 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No	Hybrid	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	IIMRQPMH 1506	IIMR Ludhiana	QPM I	All	IMR410	1895	1921	1960
2	LQPMH 215	Bajaura	QPM I	All	IMR411	1877	1930	1966
3	AQH8(EDV)	IARI Delhi	QPM III (Z-IV)	(PZ) (Z4)*	IMR412	1896	1938	1949
4	VEHQ14-1	BHU	QPM II	All	IMR413	1893	1937	1948
5	PMSQ5	SKUAST Jammu	QPM I	All	IMR414	1875	1904	1964
6	LQPMH 415	Bajaura	QPM I	All	IMR415	1885	1935	1941
7	IIMRQPMH 1504	IIMR Ludhiana	QPM I	All	IMR416	1880	1928	1952
8	IIMRQPMH 1502	IIMR Ludhiana	QPM I	All	IMR417	1884	1932	1946
9	AQH4 (EDV)	IARI Delhi	QPM III (Z-II)	(NWPZ)(Z2)*	IMR418	1889	1929	1975
10	MHQPM-10-15	TCA Dholi	QPM I	All	IMR419	1881	1933	1963
11	APQH9(EDV)	IARI Delhi	QPM III (Z-I-IV)	(NHZ, PZ) (Z1,Z4)*	IMR420	1897	1916	1957
12	IIMRQPMH 1510	IIMR Ludhiana	QPM I	All	IMR421	1890	1911	1968
13	AQH9(EDV)	IARI Delhi	QPM III (Z-III)	III	IMR422	1870	1924	1967
14	BAUQMH-18	Ranchi	QPM I	All	IMR423	1876	1915	1976
15	IIMRQPMH 1505	IIMR Ludhiana	QPM I	All	IMR424	1867	1917	1955
16	FQH 106	VPKAS Almora	QPM I	All	IMR425	1882	1925	1974
17	BQPMH 36	ARI Hyd.	QPM II (Z-I)	(NHZ) (Z1)*	IMR426	1887	1900	1940
18	EHQ-63	Udaipur	QPMII (Z-I-III)	(NHZ, NEPZ),(Z1, Z3)*	IMR427	1894	1913	1951
19	IIMRQPMH 1507	IIMR Ludhiana	QPM I	All	IMR428	1878	1927	1973
20	IHQ-091	Godhra	QPM I	All	IMR429	1866	1936	1954
21	BQPMH 141 (EDV-DHM117)	ARI Hyd.	QPM II (Z-IV)	(PZ) (Z4)*	IMR430	1873	1923	1950
22	IIMRQPMH 1508	IIMR Ludhiana	QPM I	All	IMR431	1883	1901	1956
23	LQPMH 315	Bajaura	QPM I	All	IMR432	1892	1905	1943
24	IIMRQPMH 1503	IIMR Ludhiana	QPM I	All	IMR433	1886	1910	1942
25	VEHQ15-1	BHU	QPM I	All	IMR434	1865	1908	1945
26	LQPMH 115	Bajaura	QPM I	All	IMR435	1868	1926	1969
27	EHQ-64	Udaipur	QPMII (Z-V)	(CWZ) (Z5)*	IMR436	1874	1920	1959
28	IIMRQPMH 1501	IIMR Ludhiana	QPM I	All	IMR437	1898	1912	1961
29	IIMRQPMH 1509	IIMR Ludhiana	QPM I	All	IMR438	1863	1919	1970
30	HQPM 26	Karnal	QPM I	All	IMR439	1864	1903	1953
31	HM8-C	HAU-Hissar	QPMIII-(Z-IV)	(PZ) (Z4-C)*	IMR440	1872	1909	1972
32	HM9-C	HAU-Hissar	QPMIII-(Z-III)	(NEPZ)(Z3-C)*	IMR441	1891	1906	1958
33	HM4-C	HAU-Hissar	QPMIII-(Z-II)	(NWPZ) (Z2-C)*	IMR442	1899	1907	1939
34	DHM 117-C	ARI Hyd.	QPM II (Z-IV)	(PZ) (Z4-C)*	IMR443	1862	1931	1962
35	Vivek QPM-9-C	Almora	C	C	IMR444	1879	1918	1944
36	HQPM 1-C	HAU-Hissar	C	C	IMR445	1888	1922	1977
37	HQPM 4-C	HAU-Hissar	C	C	IMR446	1869	1914	1965
38	HQPM 5-C	HAU-Hissar	C	C	IMR447	1871	1902	1947
39	HQPM 7-C	HAU-Hissar	C	C	IMR448	1861	1934	1971

Note: Filler have been used in rest of zones in cases where entries are proposed for specified zones of testing by Breeders

Zone name*:

Z-1:Northern Hill Zone (NHZ)(Z-1)
Z-2:North West Plain Zone (NWPZ)(Z-2)
Z-3:North East Plain Zone (NEPZ)(Z-3)
Z-4:Peninsular Zone (PZ) (Z-4)
Z-5:Central Western Zone (CWZ)(Z-5)

Popcorn Trial I-II-III

Trial No. : Popcorn
Year (Season): 2015 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	VL Popcorn-2(Re-testing)	VPKAS Almora	PC IIII	All	IMR361	1740	1746	1757
2	DMRHP 1401	WNC-IIMR-Hyderabad	PCII	All	IMR362	1738	1750	1756
3	MPC-1-15	TCA Dholi	PC I	All	IMR363	1731	1745	1753
4	IMHP 1540	IIMR New Delhi	PC I	All	IMR364	1732	1749	1755
5	HPC 1	Karnal	PCII	All	IMR365	1733	1743	1754
6	IMHP 1535	IIMR New Delhi	PC I	All	IMR366	1735	1742	1758
7	KDPC-2 (Pop corn)	SKUAST Kashmir	PC III	All	IMR367	1739	1744	1751
8	DMRHP 1402	IIMR New Delhi	PCII	All	IMR368	1736	1741	1752
9	SJPC1	SKUAST Jammu	PC I	All	IMR369	1734	1748	1760
10	VL Pop corn-C	Almora	C	All	IMR370	1737	1747	1759

Sweet Corn Trial I-II-III

Trial No. : Sweet Corn
Year (Season): 2015 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	FSCH 55	VPKAS Almora	SCII	All	IMR372	1767	1781	1800
2	QMHSC-1182	Kolhapur	SC II	All	IMR373	1764	1776	1790
3	SJSC1	SKUAST Jammu	SC I	All	IMR374	1768	1777	1794
4	ASKH1	IARI Delhi	SCII	All	IMR375	1771	1775	1798
5	ADVSW-2	ADVANTA Ltd.	SCIII	All	IMR376	1766	1785	1797
6	ADVSW-1	ADVANTA Ltd.	SCIII	All	IMR377	1765	1782	1799
7	BSCH 6	ARI Hyd.	SCII	All	IMR378	1773	1787	1792
8	FSCH 41	VPKAS Almora	SC III	All	IMR379	1774	1784	1793
9	ASKH4	IARI Delhi	SC I	All	IMR380	1762	1779	1795
10	FSCH 75	VPKAS Almora	SC I	All	IMR381	1770	1780	1791
11	Madhuri-C	ARI Hyderabad	C	All	IMR382	1772	1783	1796
12	WOSC -C	IIMR-WNC-Hyderabad	C	All	IMR383	1763	1786	1788
13	Priya-C	ARI Hyderabad	C	All	IMR384	1769	1778	1789

Baby Corn Trial I-II-III

Trial No. : Baby Corn
Year (Season): 2015 (Kharif)
Replication : 3
Row No. : 4
Row Length: 4 mts.

Locations: Almora, Bajaura, Barapani, Kangra, Ludhiana, Karnal, Delhi, Kanpur, Pantnagar, Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Arabhavi, Mandya, Karimnagar, Hyderabad, Coimbatore, Kolhapur, Udaipur, Banswara, Chindwara, Ambikapur, Godhra

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2	R3
1	IMHB 1532	IIMR Delhi	BC I	All	IMR391	1817	1833	1841
2	BVM-2	Ranchi	BCII	All	IMR392	1802	1831	1850
3	ABH9001	IARI Delhi	BC I	All	IMR393	1807	1832	1853
4	AH5021	IARI Delhi	BC I	All	IMR394	1819	1824	1844
5	IMHB 1538	IIMR Delhi	BC I	All	IMR395	1814	1822	1848
6	HKH 425	Karnal	BC I	All	IMR396	1811	1825	1843
7	IMH 1525	IIMR Delhi	BC I	All	IMR397	1812	1820	1842
8	MBC-11-15	TCA Dholi	BC I	All	IMR398	1804	1828	1851
9	ASKBH1	IARI Delhi	BCII	All	IMR399	1813	1837	1855
10	BAUM-3	Ranchi	BC I	All	IMR400	1816	1834	1854
11	IMHB 1531	IIMR Delhi	BC I	All	IMR401	1810	1826	1845
12	IMHB 1537	IIMR Delhi	BC I	All	IMR402	1815	1829	1846
13	DMRH 1305	IIMR Delhi	BC I	All	IMR403	1808	1821	1839
14	GAYMH-1	Godhra	BC I	All	IMR404	1818	1830	1840
15	IMHB 1539	IIMR Delhi	BC I	All	IMR405	1805	1827	1849
16	IMHB 1529	IIMR Delhi	BC I	All	IMR406	1809	1836	1838
17	Vivek MH 27(R-Testing)	VPKAS Almora	BC III	All	IMR407	1803	1823	1852
18	HM4-C	HAU	C	All	IMR408	1806	1835	1847

Zonal trial **102 (Medium maturity)**

Year : 2015

Season : Kharif

Entries : 25

Replication : 3

Spacing : 60cm x 20cm

Design : RBD

Locations : Bajaura, Kangra, Barapani, Udhampur & Poonch

S. No.	Code	Pedigree	Centre	Replications		
				RI	RII	RIII
1	ZR-201	LMH1615	Bajaura	2001	2028	2054
2	ZR-202	LMH1715	Bajaura	2002	2039	2062
3	ZR-203	LMH1815	Bajaura	2003	2049	2059
4	ZR-204	KMH13-17	Kangra	2004	2037	2066
5	ZR-205	PMH35	Poonchh	2005	2026	2075
6	ZR-206	PMSW4	Poonchh	2006	2043	2064
7	ZR-207	LMH1915	Bajaura	2007	2050	2052
8	ZR-208	BIO9544	Check	2008	2048	2068
9	ZR-209	LMH2015	Bajaura	2009	2030	2070
10	ZR-210	PMH48	Poonchh	2010	2045	2072
11	ZR-211	LMH2115	Bajaura	2011	2047	2074
12	ZR-212	KMH13-79	Kangra	2012	2035	2057
13	ZR-213	LMH2215	Bajaura	2013	2041	2073
14	ZR-214	LMH2315	Bajaura	2014	2032	2071
15	ZR-215	PMSY-3	Poonchh	2015	2042	2060
16	ZR-216	LMH2415	Bajaura	2016	2046	2063
17	ZR-217	KMH13-15	Kangra	2017	2044	2067
18	ZR-218	LMH2515	Bajaura	2018	2040	2069
19	ZR-219	LMH2615	Bajaura	2019	2038	2065
20	ZR-220	UDMH122	Udhampur	2020	2033	2053
21	ZR-221	UDMH121	Udhampur	2021	2034	2056
22	ZR-222	LMH2715	Bajaura	2022	2027	2051
23	ZR-223	KMH13-5	Kangra	2023	2031	2058
24	ZR-224	UDMH123	Udhampur	2024	2036	2061
25	ZR-225	Local check	Local check	2025	2029	2055

Zonal Trial **103(Early maturity)**

Season Kharif 2015

Entry: 25

Replication: 3

Plot Size: 4.0m x 1.2m (2Row)

Design: R.B.D.

N:P:K: 90:60:40 Kg/ha

Locations: Almora, Bajaura, Kangra, Udhampur, Srinagar, Poonch, Barapani, Gosaigaon

E.No.	Code	Pedigree	Origin	Replications		
				I	II	III
1	ZR101	H 21	DARS, Budgam	1023	1035	1075
2	ZR102	UDMH 124	Udhampur	1016	1031	1052
3	ZR103	FH 3764	Almora, 2014K	1002	1047	1071
4	ZR104	FH 3765	Almora, 2014K	1003	1026	1067
5	ZR105	FH 3767	Almora, 2014K	1014	1037	1057
6	ZR106	LMH 115	Bajaura	1011	1040	1054
7	ZR107	LMH 116	Bajaura	1021	1029	1064
8	ZR108	UDMH 125	Udhampur	1005	1043	1074
9	ZR109	FH 3769	Almora, 2014K	1024	1042	1070
10	ZR110	FH 3774	Almora, 2014K	1009	1036	1059
11	ZR111	FH 3791	Almora, 2014K	1019	1038	1072
12	ZR112	FH 3796	Almora, 2014K	1008	1034	1055
13	ZR113	UDMH 126	Udhampur	1006	1045	1063
14	ZR114	Vivek Hybrid 39	Almora, 2014K	1020	1039	1062
15	ZR115	Vivek Hybrid 45	Almora, 2014K	1017	1049	1056
16	ZR116	FH 3798	Almora, 2014K	1010	1032	1065
17	ZR117	FH 3799	Almora, 2014K	1015	1048	1066
18	ZR118	FH 3800	Almora, 2014K	1013	1027	1068
19	ZR119	H 65	DARS, Budgam	1004	1050	1069
20	ZR120	FH 3801	Almora, 2014K	1025	1046	1061
21	ZR121	FH 3802	Almora, 2014K	1007	1041	1053
22	ZR122	LMH 117	Bajaura	1012	1033	1073
23	ZR123	LMH 118	Bajaura	1001	1030	1058
24	ZR124	FH 3803	Almora, 2014K	1018	1044	1051
25	ZR125	FH 3804	Almora, 2014K	1022	1028	1060

Trial. 501 (Late Maturity)

Trial No. : 501

Year (Season): 2015-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Location: Udaipur, Banswara, Godhra, Ambikapur and Chhindwara

S.No.	Name of Entry	Entry Code	Source/ Origin	R_1	R_2	R_3
1	IAHM-2014-59	ZT-501-1	Ambikapur	5111	5119	5145
2	IAHM-2014-83	ZT-501-2	Ambikapur	5103	5126	5137
3	WH-1095	ZT-501-3	Banswara	5109	5120	5149
4	WH-1094	ZT-501-4	Banswara	5116	5131	5144
5	EH-2861	ZT-501-5	Udaipur	5104	5125	5136
6	EH-2862	ZT-501-6	Udaipur	5115	5130	5146
7	EH-2863	ZT-501-7	Udaipur	5112	5121	5138
8	EH-2864	ZT-501-8	Udaipur	5108	5134	5150
9	EH-2865	ZT-501-9	Udaipur	5101	5127	5143
10	EH-2866	ZT-501-10	Udaipur	5107	5132	5148
11	EH-2867	ZT-501-11	Udaipur	5110	5122	5139
12	EH-2868	ZT-501-12	Udaipur	5114	5133	5142
13	EH-2869	ZT-501-13	Udaipur	5106	5128	5151
14	EH-2870	ZT-501-14	Udaipur	5113	5123	5147
15	Pratap Maize Hybrid-3	ZT-501-15	Check	5102	5129	5140
16	C2 Bio 9681	ZT-501-16	Check	5105	5118	5135
17	C3 PMH-1	ZT-501-17	Check	5117	5124	5141

Trial. 502 (Medium Maturity)

Trial No. : 502

Year (Season): 2015-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Location: Udaipur, Banswara, Godhra, Ambikapur and Chhindwara

S. No.	Name of Entry	Entry Code	Source/ Origin	R1	R2	R3
1	IAHM-2013-9	ZT-502-1	Ambikapur	5212	5226	5269
2	IAHM-2013-11	ZT-502-2	Ambikapur	5205	5244	5260
3	IAHM-2013-26	ZT-502-3	Ambikapur	5221	5233	5252
4	IAHM-2014-84	ZT-502-4	Ambikapur	5206	5240	5265
5	WH-2176	ZT-502-5	Banswara	5213	5229	5257
6	WH-2175	ZT-502-6	Banswara	5222	5247	5270
7	WH-2174	ZT-502-7	Banswara	5217	5237	5253
8	WH-2172	ZT-502-8	Banswara	5207	5232	5261
9	WH-2171	ZT-502-9	Banswara	5225	5243	5268
10	WH-2170	ZT-502-10	Banswara	5218	5239	5258
11	WH-2146	ZT-502-11	Banswara	5211	5245	5264
12	WH-2051	ZT-502-12	Banswara	5208	5228	5272
13	WH-2044	ZT-502-13	Banswara	5216	5248	5254
14	WH-2065	ZT-502-14	Banswara	5201	5238	5266
15	EC-UHPY-5	ZT-502-15	Udaipur	5214	5234	5263
16	UHPD-6	ZT-502-16	Udaipur	5224	5249	5275
17	EH-2871	ZT-502-17	Udaipur	5219	5230	5256
18	EH-2872	ZT-502-18	Udaipur	5203	5241	5267
19	EH-2873	ZT-502-19	Udaipur	5210	5236	5273
20	EH-2874	ZT-502-20	Udaipur	5220	5250	5251
21	EH-2875	ZT-502-21	Udaipur	5215	5231	5262
22	EH-2876	ZT-502-22	Udaipur	5202	5246	5274
23	EH-1974,PHM-3	ZT-502-23	Check	5223	5235	5255
24	C2, Pratap Makka-9	ZT-502-24	Check	5209	5242	5271
25	C3 Bio 9637	ZT-502-25	Check	5204	5227	5259

Trial. 503 (Early Maturity)

Trial No. : 503

Year (Season): 2015-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Location: Udaipur, Banswara, Godhra, Ambikapur and Chhindwara

S. No.	Name of Entry	Entry Code	Source/ Origin	R1	R2	R3
1	IH-1002	ZT-503-1	Godhra	5309	5328	5347
2	IH-0704	ZT-503-2	Godhra	5317	5323	5353
3	IH-1206	ZT-503-3	Godhra	5304	5329	5342
4	IH-0903	ZT-503-4	Godhra	5310	5327	5360
5	IH-0901	ZT-503-5	Godhra	5314	5324	5348
6	WH-3138	ZT-503-6	Banswara	5305	5335	5352
7	WH-3140	ZT-503-7	Banswara	5318	5330	5359
8	WH-3141	ZT-503-8	Banswara	5306	5338	5343
9	WH-3142	ZT-503-9	Banswara	5313	5322	5354
10	WH-3139	ZT-503-10	Banswara	5301	5334	5358
11	EH-2880	ZT-503-11	Udaipur	5319	5339	5346
12	EH-2214	ZT-503-12	Udaipur	5315	5325	5355
13	EH-2233	ZT-503-13	Udaipur	5302	5333	5349
14	EH-2877	ZT-503-14	Udaipur	5320	5331	5357
15	EH-2878	ZT-503-15	Udaipur	5312	5340	5344
16	EH-2879	ZT-503-16	Udaipur	5307	5326	5351
17	UHPY-7	ZT-503-17	Udaipur	5316	5332	5341
18	Vivek Hy-43	ZT-503-18	Check	5311	5336	5356
19	PMH-5	ZT-503-19	Check	5308	5321	5345
20	Prakash	ZT-503-20	Check	5303	5327	5350

Trial. ZTQ01

Trial No. : ZTQ01

Year (Season): 2015-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Location: Udaipur, Banswara and Godhra,

S.No.	Name of Entry	Entry/Code	Source/ origin	R_1	R_2	R_3
1	IHQPM-0901	ZTQ-01-01	Godhra	5504	5523	5549
2	IHQPM-0902	ZTQ-01-02	Godhra	5511	5535	5542
3	IHQPM-0903	ZTQ-01-03	Godhra	5505	5528	5554
4	IHQPM-0904	ZTQ-01-04	Godhra	5516	5524	5547
5	IHQPM-0905	ZTQ-01-05	Godhra	5501	5532	5556
6	EHQ-561	ZTQ-01-06	Udaipur	5518	5522	5541
7	EHQ-562	ZTQ-01-07	Udaipur	5506	5536	5550
8	EHQ-563	ZTQ-01-08	Udaipur	5517	5531	5548
9	EHQ-564	ZTQ-01-09	Udaipur	5519	5525	5543
10	EHQ-565	ZTQ-01-10	Udaipur	5507	5537	5557
11	EHQ-566	ZTQ-01-11	Udaipur	5512	5529	5546
12	EHQ-567	ZTQ-01-12	Udaipur	5510	5538	5553
13	EHQ-568	ZTQ-01-13	Udaipur	5508	5530	5540
14	EHQ-569	ZTQ-01-14	Udaipur	5515	5527	5555
15	EHQ-570	ZTQ-01-15	Udaipur	5502	5534	5552
16	EHQ-571	ZTQ-01-16	Udaipur	5513	5521	5545
17	Vivek QPM-9	ZTQ-01-17	Check	5509	5526	5539
18	HQPM-1	ZTQ-01-18	Check	5514	5533	5551
19	HQPM-7	ZTQ-01-19	Check	5503	5520	5544

Trial.511 (Early Maturity)

Trial No. : 511

Year (Season): 2015-Kharif

Replication : 3

Row No. : 2

Row Length: 4 mts.

Location: Udaipur and Banswara

S.No.	Name of Entry	Entry Code	Source/origin	R_1	R_2	R_3
1	EH-2214	ST-511-1	Udaipur	1107	1134	1156
2	PMH-5	ST-511-2	Check	1115	1128	1151
3	Prakash	ST-511-3	Check	1112	1141	1164
4	WH-3152	ST-511-4	Banswara	1108	1135	1157
5	WH-3165	ST-511-5	Banswara	1116	1129	1165
6	WH-3146	ST-511-6	Banswara	1101	1140	1152
7	Vivek Hy-43	ST-511-7	Check	1124	1144	1169
8	WH-3162	ST-511-8	Banswara	1106	1130	1158
9	Pratap Hy. Maize 3	ST-511-9	Check	1117	1145	1170
10	EH-2880	ST-511-10	Udaipur	1102	1139	1163
11	EH-2881	ST-511-11	Udaipur	1123	1127	1153
12	EH-2882	ST-511-12	Udaipur	1109	1133	1159
13	EH-2883	ST-511-13	Udaipur	1118	1146	1167
14	EH-2884	ST-511-14	Udaipur	1113	1138	1162
15	EH-2885	ST-511-15	Udaipur	1105	1131	1172
16	EH-2886	ST-511-16	Udaipur	1119	1147	1154
17	EH-2887	ST-511-17	Udaipur	1110	1137	1160
18	EH-2888	ST-511-18	Udaipur	1122	1148	1171
19	EH-2889	ST-511-19	Udaipur	1103	1132	1155
20	EH-2890	ST-511-20	Udaipur	1114	1125	1168
21	EH-2891	ST-511-21	Udaipur	1121	1143	1149
22	EH-2892	ST-511-22	Udaipur	1111	1136	1166
23	EH-2893	ST-511-23	Udaipur	1120	1142	1161
24	EH-2894	ST-511-24	Udaipur	1104	1126	1150
25	EH-2895	ST-511-25	Udaipur	1104A	1126A	1150A

Trial.512(Medium Maturity)

Trial No. : 512
Year (Season): 2015-Kharif
Replication : 3
Row No. : 2
Row Length: 4 mts.
Location: Udaipur and Banswara

S.N.	Name of Entry	Origin	Entry Code	R1	R2	R3
1	Bio 9637	ST-512-1	Check	1210	1240	1288
2	Pratap Hybrid Maize-3	ST-512-2	Check	1224	1234	1267
3	WH-2230	ST-512-3	Banswara	1202	1247	1280
4	WH-2178	ST-512-4	Banswara	1230	1254	1287
5	WH-2204	ST-512-5	Banswara	1213	1241	1273
6	WH-2228-1	ST-512-6	Banswara	1209	1262	1289
7	WH-2197	ST-512-7	Banswara	1228	1235	1268
8	WH-2225	ST-512-8	Banswara	1223	1248	1281
9	WH-2181	ST-512-9	Banswara	1225	1255	1279
10	EH-2896	ST-512-10	Udaipur	1212	1242	1274
11	EH-2897	ST-512-11	Udaipur	1227	1253	1290
12	EH-2898	ST-512-12	Udaipur	1211	1249	1269
13	EH-2899	ST-512-13	Udaipur	1201	1233	1282
14	WH-2044	ST-512-14	Banswara	1222	1263	1286
15	WH-2182	ST-512-15	Banswara	1208	1243	1275
16	WH-2272	ST-512-16	Banswara	1214	1256	1291
17	WH-2178	ST-512-17	Banswara	1203	1236	1270
18	PMH-1	ST-512-18	Check	2121	1250	1292
19	Bio-9681	ST-512-19	Check	1215	1261	1265
20	EH-2900	ST-512-20	Udaipur	1226	1244	1293
21	EH-2901	ST-512-21	Udaipur	1204	1257	1276
22	EH-2902	ST-512-22	Udaipur	1220	1237	1294
23	EH-2903	ST-512-23	Udaipur	1216	1258	1272
24	EH-2904	ST-512-24	Udaipur	1231	1251	1296
25	EH-2905	ST-512-25	Udaipur	1205	2145	1285
26	EH-2906	ST-512-26	Udaipur	1229	1259	1277
27	EH-2907	ST-512-27	Udaipur	1217	1238	1295
28	EH-2908	ST-512-28	Udaipur	1219	1260	1278
29	EH-2909	ST-512-29	Udaipur	1232	1246	1271
30	EH-2910	ST-512-30	Udaipur	1207	1264	1283
31	EH-2911	ST-512-31	Udaipur	1218	1252	1266
32	EH-2912	ST-512-32	Udaipur	1206	1239	1284

Trial N X G - Late NWPZ

N X G Trial :Late NWPZ Late Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations: Ludhiana, Karnal

E.N	Hybrid Name	Institute/orga.	Trial no.	DMR Code	Zone
1	X35D601	PHI Seeds Ltd.	Tr69	IMR691	NWPZ
2	PMH-1-C	PAU, Ludhiana	Tr69	IMR692	NWPZ
3	PMH-3-C	PAU, Ludhiana	Tr69	IMR693	NWPZ
4	Seedtech 2324-C	Bisco	Tr69	IMR694	NWPZ
5	BIO 9681-C	Bioseed	Tr69	IMR695	NWPZ

Trial N X G -Late- PZ

N X G Trial : Late PZ Late Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations:Karimnagar, Arbhavi

E.N.	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	HTMH 5108	Hytech Seed India P.Ltd.	Tr 69	IMR698	PZ
2	X35D601	PHI Seeds Ltd.	Tr 69	IMR699	PZ
3	PMH-1-C	PAU, Ludhiana	Tr 69	IMR700	PZ
4	PMH-3-C	PAU, Ludhiana	Tr 69	IMR701	PZ
5	Seedtech 2324-C	Bisco	Tr 69	IMR702	PZ
6	BIO 9681-C	Bioseed	Tr 69	IMR703	PZ

Trial N X G -Late- CWZ

N X G Trial : Late CWZ Late Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations: Chindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	DMR Code	Zone
1	Siri-4527	Siri Seeds Ltd.	Tr 69	IMR708	CWZ
2	HTMH 5202	Hytech Seed India P.Ltd.	Tr 69	IMR709	CWZ
3	DAS-MH-105	Dow Agro Sciences	Tr 69	IMR710	CWZ
4	X35D601	PHI Seeds Ltd.	Tr 69	IMR711	CWZ
5	DKC9133	Monsanto	Tr 69	IMR712	CWZ
6	IM8556	Monsanto	Tr 69	IMR713	CWZ
7	CP.999	CP.Seeds	Tr 69	IMR714	CWZ
8	PRO-392	Rasi seeds Ltd.	Tr 69	IMR715	CWZ
9	DKC9141 (IM8539)	Monsanto	Tr 69	IMR716	CWZ
10	PMH-1-C	PAU, Ludhiana	Tr 69	IMR717	CWZ
11	PMH-3-C	PAU, Ludhiana	Tr 69	IMR718	CWZ
12	Seedtech 2324-C	Bisco	Tr 69	IMR719	CWZ
13	BIO 9681-C	Bioseed	Tr 69	IMR720	CWZ

Trial N X G -Medium- Z-IV

N X G Trial :Medium Z - IV Medium Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations:Karimnagar, Arbhavi

E.N.	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	HTMH 5402	Hytech Seed India P.Ltd.	Tr 70	IMR725	PZ
2	DKC9144 (IM8478	Monsanto	Tr 70	IMR726	PZ
3	HM 9-C	HAU, Karnal	Tr 70	IMR727	PZ
4	BIO 9637-C	Bioseed	Tr 70	IMR728	PZ
5	PMH-4-C	PAU, Ludhiana	Tr 70	IMR729	PZ

Trial N X G -Early- NHZ

N X G Trial : Early Z - I Early Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations: Almora, Bajaura

E.N	Hybrid Name	Institute/orga.	Trial no.	DMR Code	Zone
1	FH 3605	VPKAS Almora	Tr71	IMR733	NHZ
2	FH 3626	VPKAS Almora	Tr71	IMR734	NHZ
3	Bio 9720	Bio Seeds Ltd.	Tr71	IMR735	NHZ
4	PMH-5-C	PAU, Ludhiana	Tr71	IMR736	NHZ
5	Parkash-C	PAU, Ludhiana	Tr71	IMR737	NHZ

Trial N X G -Early- PZ

N X G Trial : Early PZ Early Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations:Karimnagar, Arbhavi

E.N.	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	FH 3605	VPKAS Almora	Tr71	IMR741	PZ
2	FH 3664	VPKAS Almora	Tr71	IMR742	PZ
3	PMH-5-C	PAU, Ludhiana	Tr71	IMR743	PZ
4	Parkash-C	PAU, Ludhiana	Tr71	IMR744	PZ

Trial N X G -Early- CWZ

N X G Trial : Early CWZ Early Maturity (AVT 2nd Year)

Year (Season): 2015-Kharif

Locations: Chhindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	FH 3664	VPKAS Almora	Tr71	IMR751	CWZ
2	JH 31613	PAU. Ludhiana	Tr71	IMR752	CWZ
3	CMH 10-531	TNAU Ciombatore	Tr71	IMR753	CWZ
4	PMH-5-C	PAU, Ludhiana	Tr71	IMR754	CWZ
5	Parkash-C	PAU, Ludhiana	Tr71	IMR755	CWZ

Trial N X G -QPMIII- NHZ

N X G Trial :QPM -NHZ QPM III

Year (Season): 2015-Kharif

Locations: Almora, Bajaura

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	APQH9(EDV)	IARI Delhi	QPM-III	IMR761	NHZ
2	Vivek QPM-9-C	Almora	QPM-III	IMR762	NHZ
3	HQPM 1-C	HAU-Hissar	QPM-III	IMR763	NHZ
4	HQPM 4-C	HAU-Hissar	QPM-III	IMR764	NHZ

Trial N X G -QPM NWPZ

N X G Trial QPM-NWPZ QPM (QPM-III)

Year (Season): 2015-Kharif

Locations: Ludhiana, Karnal

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	AQH4 (EDV)	IARI Delhi	QPM-III	IMR771	NWPZ
2	HM4-C	HAU-Hissar	QPM-III	IMR772	NWPZ
3	HQPM 1-C	HAU-Hissar	QPM-III	IMR773	NWPZ
4	HQPM 4-C	HAU-Hissar	QPM-III	IMR774	NWPZ

Trial N X G -QPM-NEPZ

N X G Trial QPM-NEPZ QPM (QPM-III)

Year (Season): 2015-Kharif

Locations: Bahraich, Bubhneshwar

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	AQH9(EDV)	IARI Delhi	QPMIII	IMR778	NEPZ
2	HM9-C	HAU-Hissar	QPMIII	IMR779	NEPZ
3	HQPM 1-C	HAU-Hissar	QPMIII	IMR780	NEPZ
4	HQPM 4-C	HAU-Hissar	QPMIII	IMR781	NEPZ

Trial N X G -QPM-PZ

N X G Trial : QPM-PZ QPM Maturity (QPM-III)

Year (Season): 2015-Kharif

Locations:Karimnagar, Arbhavi

E.N.	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	AQH8(EDV)	IARI Delhi	QPMIII	IMR785	PZ
2	APQH9(EDV)	IARI Delhi	QPMIII	IMR786	PZ
3	HM8-C	HAU-Hissar	QPMIII	IMR787	PZ
4	Vivek QPM-9-C	Almora	QPMIII	IMR788	PZ

Tr.PC-III

Trial N X G -PCIII- Zone-All

N X G Trial : PC Z -All Tr.PC-III (Popcorn Corn)

Year (Season): 2015-Kharif

Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhneshwar, Karimnagar, Hyderabad Chhindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	VL Popcorn-2	VPKAS Almora	PC IIII	IMR791	All
2	KDPC-2 (Pop corn)	SKUAST Kashmir	PC III	IMR792	All
3	VL Pop corn-C	Almora	PC III	IMR793	All

Tr.SC-III

Trial N X G - SCIII Zone-All

N X G Trial : SC Z -All Tr.SC-III (Sweet Corn)

Year (Season): 2015-Kharif

Locations: Bajura, Almora, Ludhiana, Karnal, Bahraich, Bubhneshwar, Karimnagar, Hyderabad Chhindwara, Banswara

E.N	Hybrid Name	Institute/orga.	Trial no.	IIMR Code	Zone
1	ADVSW-2	ADVANTA Ltd.	SCIII	IMR801	All
2	ADVSW-1	ADVANTA Ltd.	SCIII	IMR802	All
3	FSCH 41	VPKAS Almora	SC III	IMR803	All
4	Madhuri-C	ARI Hyderabad	SC III	IMR804	All
5	WOSC -C	IIMR-WNC-Hyderabad	SC III	IMR805	All
6	Priya-C	ARI Hyderabad	SC III	IMR806	All

Trial. Late-A Maturity (IVT)-Patho

Trial No. : Late-A — Pathology, Nematology and Soil Science Trial - Late
Year (Season): 2015-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.
Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
1	SRIKAR 3555	Srikar seeds Ltd.	All	Path101	1055	1088
2	JKMH 4153	JK Seeds Ltd.	All	Path102	1029	1102
3	IMH1530	IIMR New Delhi	All	Path103	1051	1070
4	ANJAN	Srikar seeds Ltd.	All	Path104	1053	1082
5	CCH 4039	Rohini seeds Ltd.	All	Path105	1019	1097
6	BRM 12-1	BAC Sabour	All	Path106	1012	1089
7	QMH-1232	Kolhapur	All	Path107	1038	1105
8	OMH 14-27(CAH 153)	Bhubaneswar	All	Path108	1004	1083
9	QMH-1025	Kolhapur	All	Path109	1030	1084
10	MFH-6-15	TCA Dholi	All	Path110	1050	1064
11	PM15101L	PHI Seeds Ltd.	All	Path111	1043	1078
12	PM15104L	PHI Seeds Ltd.	All	Path112	1054	1059
13	KH-440	Kanchan	All	Path113	1016	1079
14	IMH1527	IIMR New Delhi	All	Path114	1028	1095
15	PM15102L	PHI Seeds Ltd.	All	Path115	1035	1087
16	JKMH 4444	JK Seeds Ltd.	All	Path116	1022	1063
17	Super-6030	Super Seeds P.Ltd.	All	Path117	1007	1100
18	HT 515387	Hytech Seed India P.Ltd.	All	Path118	1011	1108
19	GK3141	Ganga Kavari Ltd.	All	Path119	1049	1057
20	IIMRNH 2015-9	IIMR Ludhiana	All	Path120	1025	1106
21	TMMH 840	Tri Murty Seeds P. Ltd.	All	Path121	1047	1109
22	CP.804	CP.Seeds Ltd.	All	Path122	1026	1104
23	BH 413053	ARI Hyd.	All	Path123	1014	1060
24	PM15106L	PHI Seeds Ltd.	All	Path124	1023	1080
25	DAS-MH-111	Dow Agro Sciences	All	Path125	1015	1086
26	DKC9163 (IP8703)	Monsanto	All	Path126	1010	1085
27	GH-1113	Dharwad	All	Path127	1039	1090
28	KNMH-4503	ARS Karimnagar	All	Path128	1003	1081
29	EH-2371	Udaipur	All	Path129	1021	1091
30	IIMRNH 2015-10	IIMR Ludhiana	All	Path130	1020	1058
31	IIMRNH 2015-8	IIMR Ludhiana	All	Path131	1048	1072
32	MAH-K14-4(CAHCM1476)	MANDYA	All	Path132	1024	1061
33	CP.802	CP.Seeds Ltd.	All	Path133	1002	1110
34	SMH-3902	Shakthi Seeds pvt. Ltd.	All	Path134	1017	1096
35	JH 13339	PAU Ludhiana	All	Path135	1037	1107
36	HM15310	METAHELIX	All	Path136	1008	1093
37	NMH-3662	Nimal Seeds Ltd.	All	Path137	1034	1069
38	CMH12-661	TNAU Ciombatore	All	Path138	1005	1068
39	CMH12-688	TNAU Ciombatore	All	Path139	1031	1073
40	CMH12-678	TNAU Ciombatore	All	Path140	1041	1071
41	DAS-MH-110	Dow Agro Sciences	All	Path141	1018	1075
42	VNR-31565	VNR SEEDS LTD.	All	Path142	1052	1092

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
43	DMRH1417	IIMR New Delhi	All	Path143	1009	1076
44	IMH1533	IIMR New Delhi	All	Path144	1046	1099
45	JH 13341	PAU Ludhiana	All	Path145	1006	1065
46	IMHW1541	IIMR Ludhiana	All	Path146	1001	1067
47	IMH1524	IIMR New Delhi	All	Path147	1044	1062
48	IMH1528	IIMR New Delhi	All	Path148	1027	1077
49	PM15105L	PHI Seeds Ltd.	All	Path149	1033	1074
50	QMH-1231	Kolhapur	All	Path150	1040	1094
51	MAH-K14-2(CAHCM1456)	MANDYA	All	Path151	1036	1103
52	PMH-1-C	PAU, Ludhiana	All	Path152	1032	1066
53	PMH-3-C	PAU, Ludhiana	All	Path153	1042	1101
54	Seedtech 2324-C	Bisco	All	Path154	1045	1056
55	BIO 9681-C	Bioseed	All	Path155	1013	1098

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. Late-B Maturity (IVT)-Patho

Trial No. : Late-B — Pathology, Nematology and Soil Science Trial - Late
Year (Season): 2015-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.
Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani
Nematology: Udaipur
Soil Science: Pantnagar

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
1	HM15313	METAHELIX	All	Path161	1215	1231
2	MAH-K14-1(CAHCM1442)	MANDYA	All	Path162	1171	1264
3	IMH1536	IIMR New Delhi	All	Path163	1203	1229
4	EH-2588	Udaipur	All	Path164	1211	1226
5	JH 13336	PAU Ludhiana	All	Path165	1196	1260
6	SAFAL X-2	SAFAL SEEDS Ltd.	All	Path166	1216	1244
7	IIMRNH 2015-7	IIMR Ludhiana	All	Path167	1205	1254
8	ADV 7139	ADVANTA LTD.	All	Path168	1222	1245
9	JH 13346	PAU Ludhiana	All	Path169	1180	1255
10	BH 413036	ARI Hyd.	All	Path170	1197	1233
11	DKC9167 (IP8708)	Monsanto	All	Path171	1172	1241
12	BH 413027	ARI Hyd.	All	Path172	1208	1261
13	DH-296	Pantnagar	All	Path173	1221	1257
14	HKH 425	HAU Karnal	All	Path174	1198	1250
15	RMH-748	Rasi seeds Ltd.	All	Path175	1207	1275
16	IMH1534	IIMR New Delhi	All	Path176	1173	1236
17	VNR-34229	VNR SEEDS LTD.	All	Path177	1186	1278
18	CMH12-686	TNAU Ciombatore	All	Path178	1185	1252
19	PM15103L	PHI Seeds Ltd.	All	Path179	1217	1271
20	KNMH-4506	ARS Karimnagar	All	Path180	1188	1225
21	BL 103	BISCO BIO SCIENCE LTD.	All	Path181	1184	1266
22	ZASL-986	Zuari Seeds Limited	All	Path182	1206	1268
23	PM15108L	PHI Seeds Ltd.	All	Path183	1194	1277
24	HT 515169	Hytech Seed India P.Ltd.	All	Path184	1176	1242
25	ADV 7022	ADVANTA LTD.	All	Path185	1193	1267
26	SYN516753	syngenta Ltd.	All	Path186	1183	1273

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
27	KMH-2852	Kavari seed Ltd.	All	Path187	1220	1249
28	DKC9168 (IP8704)	Monsanto	All	Path188	1177	1263
29	VNR-32971	VNR SEEDS LTD.	All	Path189	1213	1259
30	DH-295	Pantnagar	All	Path190	1224	1239
31	DKC8166 (IP8571)	Monsanto	All	Path191	1190	1256
32	IMH1526	IIMR New Delhi	All	Path192	1214	1228
33	MFH-5-15	TCA Dholi	All	Path193	1174	1238
34	DKC8144 (IM8479)	Monsanto	All	Path194	1179	1230
35	IIMRNH 2015-6	IIMR Ludhiana	All	Path195	1218	1237
36	DKC8161 (IP8570)	Monsanto	All	Path196	1200	1258
37	KMH-1311	Kavari seed Ltd.	All	Path197	1219	1247
38	JH 13208	PAU Ludhiana	All	Path198	1210	1272
39	GK3144	Ganga Kavari Ltd.	All	Path199	1192	1232
40	BH 413055	ARI Hyd.	All	Path200	1189	1253
41	BRM 12-6	BAC Sabour	All	Path201	1175	1243
42	AH7000	IARI Delhi	All	Path202	1202	1269
43	OMH 14-19(CAH 1521)	Bhubaneswar	All	Path203	1195	1276
44	Aadi	Srikar seeds Ltd.	All	Path204	1187	1270
45	Googul	Srikar seeds Ltd.	All	Path205	1201	1240
46	BL 108	BISCO BIO SCIENCE LTD.	All	Path206	1191	1234
47	MAH-K14-3(CAHCM1473)	MANDYA	All	Path207	1182	1262
48	DKC9164 (IP9002)	Monsanto	All	Path208	1209	1246
49	RMH-726	Rasi seeds Ltd.	All	Path209	1212	1274
50	CCH 1040	Rohini seeds Ltd.	All	Path210	1178	1251
51	PMH-1-C	PAU, Ludhiana	All	Path211	1181	1235
52	PMH-3-C	PAU, Ludhiana	All	Path212	1223	1248
53	Seedtech 2324-C	Bisco	All	Path213	1199	1265
54	BIO 9681-C	Bioseed	All	Path214	1204	1227

All*= All Zones except NHZ

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial Medium-A Maturity (IVT)-Patho

Trial No. : Medium-A | Pathology, Nematology and Soil Science Trial - Medium

Year (Season): 2015-Kharif | Row No. : 2

Replication : 2 | Row Length: 4 mts.

Pathology :Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur | Soil Science: Pantnagar

E.No.	Name	Origin	Zone	DMR Code	R1	R2
1	JH 13348	Ludhiana	All	Path221	1371	1423
2	BRM 12-3	BAC Sabour	All	Path222	1378	1386
3	KNMH-4505	ARS Karimnagar	All	Path223	1336	1392
4	CMH11-620	TNAU Coimbatore	All	Path224	1358	1416
5	MMH-4-15	TCA Dholi	All	Path225	1344	1422
6	AMH-3435	Ajeet seeds Ltd.	All	Path226	1373	1417
7	UDMH-127	SKUAST Jammu	All	Path227	1364	1390
8	JKMH 4103	JK Seeds Ltd.	All	Path228	1360	1421
9	CMH12-699	TNAU Coimbatore	All	Path229	1359	1411
10	NMH-3746	Nimal Seeds Ltd.	All	Path230	1349	1381
11	PMSW4	SKUAST Jammu	All	Path231	1368	1402
12	EH-2480	Udaipur	All	Path232	1347	1397
13	PMSY3	SKUAST Jammu	All	Path233	1355	1401
14	KNMH-4507	ARS Karimnagar	All	Path234	1339	1389
15	KNMH-4501	ARS Karimnagar	All	Path235	1345	1380
16	PROLINE-511	Proline	All	Path236	1362	1408
17	IMH1526	IIMR New Delhi	All	Path237	1372	1419
18	RCRMH1 (HTMR1)	Karnataka	All	Path238	1341	1400
19	LMH 615	Bajaura	All	Path239	1375	1405
20	OMH 14-64(CAH 1532)	Bhubaneswar	All	Path240	1350	1420
21	AH7007	IARI Delhi	All	Path241	1353	1384
22	HM15206	METAHELIX	All	Path242	1366	1413
23	LMH 915	Bajaura	All	Path243	1340	1383
24	NMH 109	Namdhari seeds Ltd.	All	Path244	1370	1410
25	MMH-3-15	TCA Dholi	All	Path245	1352	1391
26	IIMRNH 2015-2	IIMR Ludhiana	All	Path246	1354	1407
27	BL 106	BISCO BIO SCIENCE LTD.	All	Path247	1343	1393
28	IIMRNH 2015-1	IIMR Ludhiana	All	Path248	1357	1382
29	LMH 815	Bajaura	All	Path249	1351	1404
30	IMH1525	IIMR New Delhi	All	Path250	1363	1414
31	KMH 13-5	Kangra	All	Path251	1376	1403
32	JH 13347	Ludhiana	All	Path252	1367	1385
33	HM15207	METAHELIX	All	Path253	1337	1399
34	IMH1530	IIMR New Delhi	All	Path254	1361	1418
35	SRIKAR 2079	Srikar seeds Ltd.	All	Path255	1342	1412
36	DAS-MH-309	Dow Agro Sciences Ltd.	All	Path256	1374	1388
37	BIO 509	BIOSEED	All	Path257	1338	1387
38	IIMRNH 2015-3	IIMR Ludhiana	All	Path258	1369	1395
39	EH-2233	Udaipur	All	Path259	1379	1394
40	Mahabeej-1302	MSSC Ltd.	All	Path260	1356	1396
41	JKMH 4333	JK Seeds Ltd.	All	Path261	1377	1409
42	HM 9-C	HAU, Karnal	All	Path262	1365	1415
43	BIO 9637-C	Bioseed	All	Path263	1348	1398
44	PMH-4-C	PAU, Ludhiana	All	Path264	1346	1406

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial Medium-B Maturity (IVT)-Patho

Trial No. : Medium-B | Pathology, Nematology and Soil Science Trial - Medium

Year (Season): | 2015-Kharif | Row No. : | 2

Replication : | 2 | Row Length: | 4 mts.

Pathology :Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur | Soil Science: Pantnagar

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
1	IMH1534	IIMR New Delhi	All	Path271	1473	1530
2	DH-293	Pantnagar	All	Path272	1482	1541
3	RCRMH2 (HTMR2)	Karnataka	All	Path273	1479	1551
4	KNMH-4508	ARS Karimnagar	All	Path274	1487	1543
5	AH1401	IARI Delhi	All	Path275	1497	1537
6	KNMH-4504	ARS Karimnagar	All	Path276	1483	1519
7	KNMH-4502	ARS Karimnagar	All	Path277	1491	1544
8	LMH 1015	Bajaura	All	Path278	1514	1521
9	IMH1533	IIMR New Delhi	All	Path279	1510	1522
10	Ganga-11	Godavari Ltd.	All	Path280	1471	1553
11	HT 515349	Hytech Seed India P.Ltd.	All	Path281	1505	1555
12	JH 31820	Ludhiana	All	Path282	1495	1523
13	CMH12-672	TNAU Coimbatore	All	Path283	1498	1527
14	BGMH1 (CAH1526)	Karnataka	All	Path284	1490	1517
15	OMH 14-7(CAH 1538)	Bhubaneswar	All	Path285	1489	1554
16	BIO 274	BIOSEED	All	Path286	1503	1558
17	DH-294	Pantnagar	All	Path287	1509	1515
18	VEH 15-1	BHU	All	Path288	1475	1557
19	KMH-5332	Kavari seed Ltd.	All	Path289	1508	1550
20	PHM 34	SKUAST Jammu	All	Path290	1486	1532
21	IIMRNH 2015-5	IIMR Ludhiana	All	Path291	1474	1525
22	RMH-301	Rasi seeds Ltd.	All	Path292	1484	1539
23	VaMH 12014	Vagarai	All	Path293	1512	1552
24	DAS-MH-308	Dow Agro Sciences Ltd.	All	Path294	1477	1526
25	KH-2001 GOLD	Kanchan Ltd.	All	Path295	1506	1548
26	IIMRNH 2015-4	IIMR Ludhiana	All	Path296	1501	1556
27	IMH1527	IIMR New Delhi	All	Path297	1504	1536
28	PM15107M	PHI Seeds Ltd.	All	Path298	1507	1542
29	AH7009	IARI Delhi	All	Path299	1511	1531
30	BRM 12-4	BAC Sabour	All	Path300	1485	1535
31	LMH 715	Bajaura	All	Path301	1496	1533
32	LMH 515	Bajaura	All	Path302	1493	1538
33	BAUMC-3	Ranchi	All	Path303	1488	1528
34	Muskan	BBN Ltd.	All	Path304	1513	1549
35	BL 107	BISCO BIO SCIENCE LTD.	All	Path305	1492	1529
36	KMH 13-79	Kangra	All	Path306	1481	1518
37	GK3131	Ganga Kavari Ltd.	All	Path307	1502	1546
38	EH-2214	Udaipur	All	Path308	1476	1534
39	HKH 350	HAU Karnal	All	Path309	1499	1547
40	IMH1524	IIMR New Delhi	All	Path310	1472	1524
41	BGMH2 (CAH1454)	Karnataka	All	Path311	1478	1540
42	HM 9-C	HAU, Karnal	All	Path312	1480	1520
43	BIO 9637-C	Bioseed	All	Path313	1494	1516
44	PMH-4-C	PAU, Ludhiana	All	Path314	1500	1545

Important Note= Kindly short out the materials in increasing order of plot number in each replication before sowing

Trial. Early-Ex early Maturity (IVT)-Patho

Trial No. : Early-Ex Early Pathology, Nematology and Soil Science Trial - Early-Ex early
Year (Season): 2015-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Godhra, Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

E.No.	Name	Origin	Zone	IIMR Code	R1	R2
1	LMH 1215	Bajaura	All	Path318	1643	1655
2	DH-291	Pantnagar	All	Path319	1609	1648
3	AH1402	IARI Delhi	All	Path320	1633	1658
4	DMRH1305	IIMR New Delhi	All	Path321	1617	1669
5	MEH-2-15	TCA Dholi	All	Path322	1621	1659
6	H-100 (CAH-1527)	SKUAST Kashmir	All	Path323	1622	1663
7	LMH 1315	Bajaura	All	Path324	1644	1653
8	Khushi	BBN Ltd.	All	Path325	1626	1668
9	CMH12-703	TNAU Ciombatore	All	Path326	1635	1685
10	NMH-51	Nimal Seeds Ltd.	All	Path327	1638	1654
11	KMH-5510	Kavari seed Ltd.	All	Path328	1611	1676
12	JH 31785	Ludhiana	All	Path329	1618	1686
13	EH-2416	Udaipur	All	Path330	1620	1678
14	FH 3754	VPKAS Almora	All	Path331	1624	1683
15	IH-0953	Godhara	All	Path332	1627	1649
16	JKMH 4222	JK Seeds Ltd.	All	Path333	1629	1666
17	BL 104	BISCO BIO SCIENCE LTD.	All	Path334	1614	1650
18	BRM 12-2	BAC Sabour	All	Path335	1636	1665
19	LMH 1115	Bajaura	All	Path336	1625	1679
20	H-101 (CAH-1586)	SKUAST Kashmir	All	Path337	1612	1651
21	FH 3729	VPKAS Almora	All	Path338	1630	1670
22	AH7006	IARI Delhi	All	Path339	1637	1675
23	MEH-1-15	TCA Dholi	All	Path340	1647	1667
24	DH-292	Pantnagar	All	Path341	1639	1682
25	KMH 13-15	Kangra	All	Path342	1615	1662
26	IH-0712	Godhara	All	Path343	1632	1671
27	CMH12-700	TNAU Ciombatore	All	Path344	1646	1652
28	BRM 12-5	BAC Sabour	All	Path345	1641	1657
29	BL 105	BISCO BIO SCIENCE LTD.	All	Path346	1640	1680
30	LMH 1515	Bajaura	All	Path347	1628	1656
31	KMH 13-17	Kangra	All	Path348	1634	1674
32	FH 3728	VPKAS Almora	All	Path349	1608	1677
33	LMH 1415	Bajaura	All	Path350	1645	1672
34	PMH-5-C	PAU, Ludhiana	All	Path351	1619	1661
35	Parkash-C	PAU, Ludhiana	All	Path352	1623	1664
36	DH-298	Pantnagar	All	Path353	1631	1687
37	DH-297	Pantnagar	All	Path354	1610	1684
38	APH27-B	IARI Delhi	All	Path355	1616	1660
39	Vivek Hybrid 21-C	Almora	All	Path356	1642	1681
40	Vivek Hybrid 43-C	Almora	All	Path357	1613	1673

Trial. QPM I-II-III-Pathology-Entomology

Trial No. : QPM I-II-III
Year (Season): 2015 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No	Hybrid	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2
1	AQH8(EDV)	IARI Delhi	QPM III (PZ)	All	PE410	1895	1921
2	IIMRQPMH 1507	IIMR Ludhiana	QPM I	All	PE411	1877	1930
3	IIMRQPMH 1508	IIMR Ludhiana	QPM I	IV	PE412	1896	1938
4	PMSQ5	SKUAST Jammu	QPM I	All	PE413	1893	1937
5	IIMRQPMH 1502	IIMR Ludhiana	QPM I	All	PE414	1875	1904
6	AQH9(EDV)	IARI Delhi	QPM III (NEPZ)	All	PE415	1885	1935
7	LQPMH 415	Bajaura	QPM I	All	PE416	1880	1928
8	AQH4 (EDV)	IARI Delhi	QPM III (NWPZ)	All	PE417	1884	1932
9	APQH9(EDV)	IARI Delhi	QPM III (NHZ, PZ)	II	PE418	1889	1929
10	IHQ-091	Godhra	QPM I	All	PE419	1881	1933
11	MHQPM-10-15	TCA Dholi	QPM I	I,IV	PE420	1897	1916
12	EHQ-64	Udaipur	QPMII (CWZ)	All	PE421	1890	1911
13	IIMRQPMH 1504	IIMR Ludhiana	QPM I	III	PE422	1870	1924
14	BAUQMH-18	Ranchi	QPM I	All	PE423	1876	1915
15	BQPMH 36	ARI Hyd.	QPM II (NHZ)	All	PE424	1867	1917
16	HQPM 26	Karnal	QPM I	All	PE425	1882	1925
17	IIMRQPMH 1510	IIMR Ludhiana	QPM I	I	PE426	1887	1900
18	BQPMH 141 (EDV-DHM117)	ARI Hyd.	QPM II (PZ)	I,III	PE427	1894	1913
19	IIMRQPMH 1501	IIMR Ludhiana	QPM I	All	PE428	1878	1927
20	IIMRQPMH 1503	IIMR Ludhiana	QPM I	All	PE429	1866	1936
21	IIMRQPMH 1506	IIMR Ludhiana	QPM I	IV	PE430	1873	1923
22	LQPMH 115	Bajaura	QPM I	All	PE431	1883	1901
23	EHQ-63	Udaipur	QPMII (NHZ, NEPZ)	All	PE432	1892	1905
24	IIMRQPMH 1505	IIMR Ludhiana	QPM I	All	PE433	1886	1910
25	VEHQ14-1	BHU	QPM II	All	PE434	1865	1908
26	LQPMH 215	Bajaura	QPM I	All	PE435	1868	1926
27	VEHQ15-1	BHU	QPM I	V	PE436	1874	1920
28	IIMRQPMH 1509	IIMR Ludhiana	QPM I	All	PE437	1898	1912
29	FQH 106	VPKAS Almora	QPM I	All	PE438	1863	1919
30	LQPMH 315	Bajaura	QPM I	All	PE439	1864	1903
31	HM8-C	HAU-Hissar	QPMIII-(PZ)	IV-C	PE440	1872	1909
32	HM9-C	HAU-Hissar	QPMIII-(NEPZ)	III-C	PE441	1891	1906
33	HM4-C	HAU-Hissar	QPMIII-(NWPZ)	II-C	PE442	1899	1907
34	DHM 117-C	ARI Hyd.	QPM II (PZ)	IV-C	PE443	1862	1931
35	Vivek QPM-9-C	Almora	C	C	PE444	1879	1918
36	HQPM 1-C	HAU-Hissar	C	C	PE445	1888	1922
37	HQPM 4-C	HAU-Hissar	C	C	PE446	1869	1914
38	HQPM 5-C	HAU-Hissar	C	C	PE447	1871	1902
39	HQPM 7-C	HAU-Hissar	C	C	PE448	1861	1934

Note: Filler have been used in rest of zones in cases where entries were proposed for specified zones of testing by Breeders

Popcorn Trial I-II-III-Pathology-Entomology

Trial No. : Popcorn
Year (Season): 2015 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2
1	DMRHP 1402	IIMR New Delhi	PCII	All	PE361	1740	1746
2	IMHP 1540	IIMR New Delhi	PC I	All	PE362	1738	1750
3	HPC 1	Karnal	PCII	All	PE363	1731	1745
4	VL Popcorn-2(Re-testing)	VPKAS Almora	PC IIII	All	PE364	1732	1749
5	DMRHP 1401	WNC-IIMR-Hyderabad	PCII	All	PE365	1733	1743
6	SJPC1	SKUAST Jammu	PC I	All	PE366	1735	1742
7	KDPC-2 (Pop corn)	SKUAST Kashmir	PC III	All	PE367	1739	1744
8	MPC-1-15	TCA Dholi	PC I	All	PE368	1736	1741
9	IMHP 1535	IIMR New Delhi	PC I	All	PE369	1734	1748
10	VL Pop corn-C	Almora	C	All	PE370	1737	1747

Sweet Corn Trial I-II-III-Pathology-Entomology

Trial No. : Sweet Corn
Year (Season): 2015 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2
1	FSCH 75	VPKAS Almora	SC I	All	Path372	1767	1781
2	QMHSC-1182	Kolhapur	SC II	All	Path373	1764	1776
3	BSCH 6	ARI Hyd.	SCII	All	Path374	1768	1777
4	SJSC1	SKUAST Jammu	SC I	All	Path375	1771	1775
5	ADVSW-2	ADVANTA Ltd.	SCIII	All	Path376	1766	1785
6	FSCH 55	VPKAS Almora	SCII	All	Path377	1765	1782
7	ASKH1	IARI Delhi	SCII	All	Path378	1773	1787
8	FSCH 41	VPKAS Almora	SC III	All	Path379	1774	1784
9	ASKH4	IARI Delhi	SC I	All	Path380	1762	1779
10	ADVSW-1	ADVANTA Ltd.	SCIII	All	Path381	1770	1780
11	Madhuri-C	ARI Hyderabad	C	All	Path382	1772	1783
12	WOSC -C	IIMR-WNC-Hyderabad	C	All	Path383	1763	1786
13	Priya-C	ARI Hyderabad	C	All	Path384	1769	1778

Baby Corn Trial I-II-III-Patho-Entomology

Trial No. : Baby Corn
Year (Season): 2015 (Kharif)
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (2), Barapani

Nematology: Udaipur

Soil Science: Pantnagar

Entomology: New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No	Hybrid name	Institute/orga.	Trial no.	Zone	IIMR Code	R1	R2
1	IMHB 1538	IIMR Delhi	BC I	All	PE391	1817	1833
2	IMHB 1529	IIMR Delhi	BC I	All	PE392	1802	1831
3	IMHB 1539	IIMR Delhi	BC I	All	PE393	1807	1832
4	Vivek MH 27(R-Testing)	VPKAS Almora	BC III	All	PE394	1819	1824
5	BVM-2	Ranchi	BCII	All	PE395	1814	1822
6	MBC-11-15	TCA Dholi	BC I	All	PE396	1811	1825
7	IMHB 1537	IIMR Delhi	BC I	All	PE397	1812	1820
8	ABH9001	IARI Delhi	BC I	All	PE398	1804	1828
9	DMRH 1305	IIMR Delhi	BC I	All	PE399	1813	1837
10	IMHB 1531	IIMR Delhi	BC I	All	PE400	1816	1834
11	IMHB 1532	IIMR Delhi	BC I	All	PE401	1810	1826
12	GAYMH-1	Godhra	BC I	All	PE402	1815	1829
13	IMH 1525	IIMR Delhi	BC I	All	PE403	1808	1821
14	BAUM-3	Ranchi	BC I	All	PE404	1818	1830
15	HKH 425	Karnal	BC I	All	PE405	1805	1827
16	ASKBH1	IARI Delhi	BCII	All	PE406	1809	1836
17	AH5021	IARI Delhi	BC I	All	PE407	1803	1823
18	HM4-C	HAU	C	All	PE408	1806	1835

TRIAL 75 Late (AVT-I-II)

Trial No. : 75 Pathology, Entomology Trial - Late
Year (Season): 2015-Kharif
Replication : 2
Row No. : 2
Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Origin	Trial no.	IIMR Code	R1	R2
	AVT-I LATE					
1	HT 51412616	Hytech Seed India P.Ltd.	75	PE610	2399	2465
2	VNR-4325	VNR Seeds Ltd.	75	PE611	2410	2435
3	DAS-MH-106	Dow Agro Sciences	75	PE612	2408	2462
4	JH 13282	PAU. Ludhiana	75	PE613	2409	2443
5	JH 12010	PAU. Ludhiana	75	PE614	2407	2430
6	ADV 0990293	Advanta Ltd.	75	PE615	2398	2452
7	PM14101L	PHI Seeds Ltd.	75	PE616	2402	2441
8	DKC9159 (IN8570)	Monsanto	75	PE617	2423	2453
9	DMH 192	METAHELIX	75	PE618	2393	2438
10	JH 13252	PAU. Ludhiana	75	PE619	2422	2457
11	CMH 10-555	TNAU Ciombatore	75	PE620	2418	2450
12	CMH 11-618	TNAU Ciombatore	75	PE621	2395	2427
13	Gold 1166	Green Gold Seeds Ltd.	75	PE622	2387	2455
14	CMH 12-663	TNAU Ciombatore	75	PE623	2400	2448
15	HT 51412607	Hytech Seed India P.Ltd.	75	PE624	2406	2432
16	ADV 0990296	Advanta Ltd.	75	PE625	2417	2429
17	PRMH-189	Pravardhan seeds Ltd.	75	PE626	2392	2439
18	ADV 1190384	Advanta Ltd.	75	PE627	2391	2436
19	JH 13270	PAU. Ludhiana	75	PE628	2414	2434
20	DKC9151 (IN8902)	Monsanto	75	PE629	2403	2437
21	NMH-1247	Nuziveedu Seeds Ltd.	75	PE630	2388	2454
22	Super-1177	Super Seeds P.Ltd.	75	PE631	2404	2447
23	KMH-3981	Kavari seed Ltd.	75	PE632	2396	2428
24	GK3118	Ganga Kavari Ltd.	75	PE633	2397	2426
25	KH-2192	Kanchan	75	PE634	2420	2449
26	115-08-01	Kanchan	75	PE635	2389	2433
27	DMRH1308	IIMR New Delhi	75	PE636	2413	2460
	AVT-II LATE					
28	DKC9133	Monsanto	75	PE637	2385	2463
29	HTMH 5108	Hytech Seed India P.Ltd.	75	PE638	2416	2451
30	DKC9141 (IM8539)	Monsanto	75	PE639	2425	2446
31	HTMH 5202	Hytech Seed India P.Ltd.	75	PE640	2415	2445
32	IM8556	Monsanto	75	PE641	2401	2442
33	PRO-392	Rasi seeds Ltd.	75	PE642	2424	2459
34	DAS-MH-105	Dow Agro Sciences	75	PE643	2412	2431
35	CP.999	CP.Seeds	75	PE644	2386	2461
36	X35D601	PHI Seeds Ltd.	75	PE645	2421	2440
37	Siri-4527	Siri Seeds Ltd.	75	PE646	2419	2444
38	PMH-1-C	PAU, Ludhiana	75	PE647	2390	2464
39	PMH-3-C	PAU, Ludhiana	75	PE648	2394	2466
40	Seedtech 2324-C	Bisco	75	PE649	2405	2456
41	BIO 9681-C	Bioseed	75	PE650	2411	2458

TRIAL 76 Medium (AVT-I-II)

Trial No. : 76 Pathology, Entomology Tria Medium Maturity
Year (Season): 2015-Kharif Row No. : 2
Replication : 2 Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Origin	Trial no.	IIMR Code	R1	R2
	AVT-I MEDIUM					
1	BH 412084	ARI Hyderabad.	76	PE655	2470	2486
2	JH 31605	Ludhiana	76	PE656	2475	2485
3	BL 897	Bisco Bio Science Ltd.	76	PE657	2476	2493
4	HT 51412182	Hytech Seed India P.Ltd.	76	PE658	2477	2494
5	DAS-MH-306	Dow Agro Sciences	76	PE659	2483	2491
6	JKMH 4848	JK Seeds Ltd.	76	PE660	2481	2484
7	CP.201	CP.Seeds Ltd.	76	PE661	2473	2495
8	GK3120	Ganga Kavari Ltd.	76	PE662	2479	2497
9	HT 51412607	Hytech Seed India P.Ltd.	76	PE663	2478	2490
	AVT-II MEDIUM					
10	HTMH 5402	Hytech Seed India P.Ltd.	76	PE664	2474	2489
11	DKC9144 (IM8478	Monsanto	76	PE665	2480	2487
12	HM 9-C	HAU, Karnal	76	PE666	2472	2492
13	BIO 9637-C	Bioseed	76	PE667	2482	2488
14	PMH-4-C	PAU, Ludhiana	76	PE668	2471	2496

TRIAL 77,78 Early-Ex. Early (AVT-I-II)

Trial No. : 77 Pathology, Entomology Tria Early-Ex Early Maturity
Year (Season): 2015-Kharif Row No. : 2
Replication : 2 Row Length: 4 mts.

Pathology: Bajaura, Dhaula kuan, Almora, Ludhiana, Delhi, Karnal, Pantnagar, Dholi, Hyderabad, Arbhavi, Coimbatore, Mandya (2), Udaipur (3), Barapani

Entomology: DMR-New Delhi, Ludhiana, Karnal, Dholi, Varanasi, Hyderabad, Kolhapur and Udaipur

E.No.	Name	Origin	Trial no.	IIMR Code	R1	R2
	AVT-I EARLY					
1	GYH-0656	Godhara	77,78	PE671	2506	2524
2	AH9001	IARI New Delhi	77,78	PE672	2504	2530
3	KDN1263SC*(First year)	SKAUST-Sirinagar	77,78	PE673	2503	2526
4	KDQH-49*(First Year)	SKAUST-Sirinagar	77,78	PE674	2512	2523
	AVT-II EARLY					
5	FH 3605	VPKAS Almora	77,78	PE675	2513	2527
6	FH 3626	VPKAS Almora	77,78	PE676	2507	2528
7	FH 3664	VPKAS Almora	77,78	PE677	2516	2520
8	JH 31613	Ludhiana	77,78	PE678	2514	2519
9	CMH 10-531	TNAU Ciombatore	77,78	PE679	2508	2525
10	Bio 9720	Bio Seeds Ltd.	77,78	PE680	2505	2521
11	PMH-5-C	PAU, Ludhiana	77,78	PE681	2510	2529
12	Parkash-C	PAU, Ludhiana	77,78	PE682	2501	2522
	AVT-I Extra Early					
13	EH-2236	Udaipur	77,78	PE683	2502	2518
14	AH1317	IARI New Delhi	77,78	PE684	2509	2531
15	Vivek Hybrid 21-C	Almora	77,78	PE685	2515	2517
16	Vivek Hybrid 43-C	Almora	77,78	PE686	2511	2532

LOCATIONS OF AICRP TRIALS DURING KHARIF 2015

S. No.	Abbreviations	Locations	S. No.	Abbreviations	Locations
1	SRIN	SRINAGAR	34	HYDE	HYDERABAD
2	ALMO	ALMORA	35	SHEG	SHEGAL FOUNDATION
3	BAJA	BAJAURA	36	KARI	KARIMNAGAR
4	UDHA	UDHAMPUR	37	VRDC	VRDC KSSC
5	KANG	KANGRA	38	DHAR	DHARWAD
6	BERT	BERTIN	39	KOLH	KOLHAPUR
7	DHAU	DHAULAKUAN	40	ARBH	ARBHAVI
8	BARA	BARAPANI	41	MAND	MANDYA
9	GOSS	GOSSAIGAON	42	VAGA	VAGARAI
10	POON	POONCH	43	COIM	COIMBATORE
11	RAJO	RAJOURI	44	DEVI	DEVIHOSUR
12	IMPH	IMPHAL	45	ALME	ALMEL
13	LUDH	LUDHIANA	46	BELA	BELAVATAGI
14	KARN	KARNAL	47	DHUL	DHULE
15	KANP	KANPUR	48	PARB	PARBHANI
16	PANT	PANTNAGAR	49	NIPH	NIPHAD
17	HISA	HISAR	50	RAHU	RAHURI
18	ALIG	ALIGARH	51	UDAI	UDAIPUR
19	JHAN	JHANSI	52	BANS	BANSAWARA
20	GURD	GURDASPUR	53	CHHI	CHHINDWARA
21	KAPU	KAPURTHALA	54	AMBI	AMBIKAPUR
22	DHOL	DHOLI	55	GODH	GODHRA
23	RANC	RANCHI	56	JHAB	JHABUA
24	BHUB	BHUBANESHWAR	57	BHIL	BHILODA
25	VARA	VARANASI	58	DAHO	DAHOD
26	BAHR	BAHRAICH	59	RAIP	RAIPUR
27	MEDI	MEDINAPUR	60	JAGD	JAGDALPUR
28	KORA	KORAPUT	61	UJJA	UJJAIN
29	MADH	MADHOPUR	62	INDO	INDORE
30	CHHA	CHHAPRA	63	KOTA	KOTA
31	SABO	SABOUR	64	CHIT	CHITTARKOOT
32	MOHA	MOHANPUR			
33	KALY	KALYANI			

BREEDING

Summary Results - Breeding Kharif 2015

The entire maize growing area in India is divided in five major zones [Northern Hill Zone (NHZ), North West Plain Zone (NWPZ), North East Plain Zone (NEPZ), Peninsular Zone (PZ) and Central West Zone (CWZ)] for effective evaluation of the maize breeding materials and experimental cultivars. The details of maize growing states included in these zones are given below:

Zone	**State(s)**
Northern Hill Zone (NHZ)	Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), North Eastern Hill Regions (Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur, Arunachal Pradesh)
North West Plain Zone (NWPZ)	Punjab, Haryana, Delhi, Uttarakhand (Plain), Uttar Pradesh (Western region)
North East Plain Zone (NEPZ)	Bihar, Jharkhand, Odisha, Uttar Pradesh (Eastern region), West Bengal
Peninsular Zone (PZ)	Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu
Central West Zone (CWZ)	Rajasthan, Madhya Pradesh, Chhattisgarh, Gujarat

During *Kharif* 2015, 343 maize entries were evaluated in all India coordinated trials. Of 343 entries, 219 entries were evaluated in national initial varietal trial (IVT), 40 in advance varietal trial-I (AVT-I), 18 in advance varietal trial-II (AVT-II), 30 entries in quality protein maize (QPM), and 36 in specialty corns trials (17 in baby corn, 10 in sweet corn, and 9 in popcorn trials). Of total entries received, 221 were contributed from public and 122 by the private sector. Fifteen breeding trials (four each of NIVT, AVT-I, specialty corns and three of AVT-II) were constituted for evaluation at 64 locations (33 regular and 31 volunteers) across country. Data received from 54 locations were reviewed and analyzed critically for yield and related traits. The performance of each variety was compared with 23 relevant checks varieties of different types and maturity. The performance of each variety was compared with 25 relevant checks varieties of different types and maturity in a zone. During the year 2015, four essentially derived varieties (EDV) of QPM viz., AQH8 (PZ), AQH4 (NWPZ), AQH9 (NEPZ) and APQH9 (NHZ, PZ) developed by marker assisted selection (MAS) were tested

in final year trial. The same hybrids will be propose for release in this year. The test entries were promoted from first year (NIVT) to second year (AVT-I) and second year (AVT-I) to third (AVT-II) based on the 5% (sweet corn, popcorn, QPM and baby corn trials) and 10% superiority (in late, medium, early and extra early) over the best relevant check of zone for their mean yield. Besides yield superiority, responses to major diseases of maize in a zone as well as days to 50% silking (Only in medium, early and extra early maturity) were the other important criteria to promote a test entry for particular zone.

If C.V. value found more than 20% for a trial in any of location of NWPZ, NEPZ, PZ and more than 30% for location of NHZ and CWZ, then the data of those trials were rejected from the final analysis. Similarly, if trial mean is falling below state average yield of the year then the same location has been rejected from the analysis.

The details of checks used and number of coordinated varietal trials conducted under All India Coordinated Maize Improvement Project (AICMIP) during *Kharif* 2015 are given below:

Detail numbers of test entries and checks evaluated in 15 different AICRP-breeding Trials during Kharif 2015:

Trial	**Entries**	**Checks varieties**	**Mode of operation**
NIVT-Late Maturity (A+B)	101	PMH1, PMH3, Seed Tech 2324, Bio 9681	Across zones
NIVT-Medium Maturity (A+B)	82	PMH4, Bio 9637, HM9	Across zones
NIVT-Early Maturity	33	Prakash , PMH5	Across zones
NIVT-Extra Early Maturity	3	Vivek Hybrid 21, Vivek Hybrid 43	Across zones
AVT-I –Late Maturity	27	PMH1, PMH3, Seed Tech 2324, Bio 9681	Zone specific
AVT-I-Medium Maturity	9	PMH4, Bio 9637, HM9	Zone specific
AVT-I-Early Maturity	2	Prakash, PMH5,	Zone specific
AVT-I-Extra Early Maturity	2	Vivek Hybrid 21, Vivek Hybrid 43	Zone specific

AVT-II-Late Maturity	10	PMH1, PMH3, Seed Tech 2324, Bio 9681	Zone specific
AVT-II-Medium Maturity	2	PMH4, Bio 9637, HM9	Zone specific
AVT-II-Early Maturity	6	Prakash, PMH5	Zone specific
QPM 1-2-3	30	HQPM1, HQPM4, HQPM5, HQPM7 Vivek QPM9, HM4,HM8,HM9, DHM117	Across zones
Popcorn-1-2-3	9	VL Amber Popcorn	Across zones
Sweet Corn-1-2-3	10	Madhuri, WOSC, Priya	Across zones
Baby Corn-1	17	HM4	Across zones

Details of trials allotted to various testing centers:

Total of 64 locations (33 regulars and 31 volunteer) were identified for evaluation of fifteen different breeding trials. The detail of trials allotted to various test centers during *Kharif* 2015 is given below:

	Location		National Initial Varietal Trial					Advance Varietal Trial I					Advance Varietal Trial II						Specialty Corns Trials		
S.N	NHZ (Zone-I)	State	L	M	E	EE		L	M	E	EE		L	M	E	EE		QPM	SC	PC	BC
1	Almora	UK	--	*	*	*		--	*	--	--		--	--	*	--		*	*	*	*
2	Bajaura	H.P	--	*	*	*		--	*	--	--		--	--	*	--		*	*	*	*
3	Srinagar	J&K	--	*	*	*		--	*	--	--		--	--	*	--		--	--	--	--
4	Udhampur	J&K	--	*	*	*		--	*	--	--		--	--	*	--		--	--	--	--
5	Kangra	H.P	--	*	*	*		--	*	--	--		--	--	*	--		*	*	*	*
6	Bertin	H.P	--	--	--	--		--	*	--	--		--	--	*	--		--	--	--	--
7	Dhaulakuan	H.P	--	--	--	--		--	*	--	--		--	--	*	--		--	--	--	--
8	Barapani	MEG	--	*	*	*		--	*	--	--		--	--	*	--		*	--	--	--
9	Gossaiogaon	AS	--	*	*	*		--	*	--	--		--	--	*	--		--	--	--	--
10	Poonch	J&K	--	--	--	--		--	*	--	--		--	--	*	--		--	--	--	--
11	Rajouri	J&K	--	--	--	--		--	*	--	--		--	--	*	--					
12	Imphal	MN	--	--	--	--		--	*	--	--		--	--	*	--					
	NWPZ (ZONE-II)																				
13	Ludhiana	PB	*	*	*	*		--	*	--	*		*	--	--	--		*	*	*	*
14	Karnal	HR	*	*	*	*		--	*	--	*		*	--	--	--		*	*	*	*
15	Kanpur	UP	*	*	*	*		--	*	--	*		*	--	--	--		*	*	*	*

16	Pantnagar	UK	*	*	*	*		--	*	--	*		*	--	--	--		*	*	*	*
17	Hisar	HR	--	--	--	--		--	*	--	*		*	--	--	--		--	--	--	--
18	Aligarh	UP	--	--	--	--		--	*	--	*		*	--	--	--		--	--	--	--
19	Jhansi	UP	--	--	--	--		--	*	--	*		*	--	--	--		--	--	--	--
20	Gurdaspur	PB	--	--	--	--		--	*	--	*		*	--	--	--		--	--	--	--
21	Kapurthala	PB	--	--	--	--		--	*	--	*		*	--	--	--		--	--	--	--
	NEPZ (ZONE-III)																				
22	Dholi	BH	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
23	Ranchi	JKH	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
24	Bhubaneshwar	OD	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
25	Varanasi	UP	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
26	Bahraich	UP	*	*	*	*		*	*	--	--		--	--	--	--		*	*	*	*
27	Medinapur	WB	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
28	Koraput	OD	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
29	RRS Madhopur	BH	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
30	Chhapra	BH	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
31	Sabour	BH	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
32	Mohanpur	WB	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
33	Kalyani	WB	--	--	--	--		*	*	--	--		--	--	--	--		--	--	--	--
	PZ (ZONE-IV)																				
34	Hyderabad	AP	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
35	Sehgal Foud.	AP	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
36	Karimnagar	AP	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
37	VRDC KSSC-Dharwad	KR	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
38	Dharwad	KR	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
39	Kolhapur	MH	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
40	Arbhavi	KR	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
41	Mandya,	KR	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
42	Vagarai	TN	*	*	*	*		*	*	*	--		*	*	*	--		--	--	--	--
43	Coimbatore	TN	*	*	*	*		*	*	*	--		*	*	*	--		*	*	*	*
44	ARS Devihosur	KR	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
45	Almel	KR	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
46	ARS Belavatagi	KR	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
47	Dhule	MH	--	--	--	--		*	*	*	--		*	*	*	--		--	*	--	--
48	Parbhani	MH	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
49	Niphad, Nasik	MH	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
50	Rahuri	MH	--	--	--	--		*	*	*	--		*	*	*	--		--	--	--	--
	CWZ (ZONE-V)																				

51	**Udaipur**	**RJ**	*	*	*	*		*	*	*	--		*	--	*	--		*	*	*	*
52	**Banswara**	**RJ**	*	*	*	*		*	*	*	--		*	--	*	--		*	*	*	*
53	**Chindwara**	**MP**	*	*	*	*		*	*	*	--		*	--	*	--		*	*	*	*
54	**Ambikapur**	**CHG**	*	*	*	*		*	*	*	--		*	--	*	--		*	*	*	*
55	**Godhara**	**GUJ**	*	*	*	*		*	*	*	--		*	--	*	--		*	*	*	*
56	**Jabhua**	**MP**	*	*	*	*		*	*	*	--		*	--	*	--		--	--	--	--
57	**Bhiloda**	**GUJ**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
58	**AAR Dahod**	**GUJ**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
59	**Raipur**	**CHG**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
60	**Jagadalpur**	**CHG**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
61	**RARS Ujjain**	**MP**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
62	**ZARS, Indore**	**MP**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
63	**ARS, Kota**	**RJ**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--
64	**Chittarkoot**	**MP**	--	--	--	--		*	*	*	--		*	--	*	--		--	--	--	--

Note:

1. Due to less number of testing entries, AVT-I and II Trials has been clubbed according to their maturity groups

2. *- represents the trial allotted, whereas -- represents trial not allotted

3. L, M, E, EE, designated here for the Late, Medium, Early and Extra early, whereas QPM, PC, SC, BC represented for Quality protein maize, Popcorn, Sweet corn and Baby corn
trials

During kharif 2015, different breeding trials were organized at 12 test locations in NHZ, 9 in NWPZ, 12 in NEPZ, 17 in PZ and 14 test locations in CWZ. All entries were tested under four maturity group viz., late, medium, early and extra early. The success rate of PZ for reporting of trials is low. The details of success rate in reporting the data from each zone is given as:

Zone(s)	Centers	Volunteer centers			Regular centers			Overall % Success rate
		Trial			Trial			
		Allotted	Reported	% Success	Allotted	Reported	% Success	
NHZ	Srinagar, Almora, Bajaura, Barapani, Kangra, Gossaingaon, Udhampur, Poonch, Bertin, Dhaulakuan, Rajauri,Imphal	8	8	100	53	36	67.9	72.1
NWPZ	Ludhiana, Karnal, Kanpur, Pantnagar, Hisar, Aligarh, Jhansi, Gurdaspur, Kapurthala	15	12	80	46	38	82.6	82.0
NEPZ	Dholi, Ranchi, Bhubaneswar, Varanasi, Bahraich, Medinapur, Koraput, Madhopur, Chhapra, Sabour, Mohanpur, Kalyani	10	2	20	57	46	80.7	71.6
PZ	Arabhavi, Mandya, Karimnagar, Sehgal Foud. Hyd, Hyderabad, Coimbatore, Vagarai, Kolhapur, Dharwad, VRDCKSSC, Devihosur, Almel, Belavatagi, Dhule, Parbhani, Nasik, Rahuri	55	29	52.7	100	80	80.0	70.3
CWZ	Udaipur, Banswara, Chindwara, Ambikapur, Godhra, Jabhua, Bhiloda, Dahod, Raipur, Jagadalpur, Ujjain, Indore, Kota, chittarkoot	40	28	70	75	67	89.3	82.6

TABLE No. 1: **PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN NIVT TRIAL No. TR61A (NIVT-L) DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
Sl		NWPZ																		NEPZ							
No	PEDIGREE	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R	HYDE	R	KARI	R
1	IIMRNH 2015-8	10757	25	14717	13	8776	35	10157	39	11102	26	3732	7	7762	23	5224	40	4146	41	7894	13	6257	29	7459	12	7342	27
2	TMMH 840	10269	31	15817	5	9507	26	13099	9	12173	8	2957	26	7630	25	5222	41	4501	38	6254	37	5902	40	5764	45	6223	40
3	BRM 12-1	9986	36	12741	34	9446	29	10669	34	10711	38	1908	54	8183	18	4898	45	3994	43	7552	17	6157	31	5027	50	7976	9
4	SRIKAR 3555	14246	1	12319	40	9378	30	12914	12	12214	7	2695	38	7411	30	5287	39	5616	18	7833	15	6537	19	6361	33	8249	6
5	BH 413053	8370	44	9928	52	9448	28	9290	47	9259	52	2309	48	6333	42	5569	33	5071	29	6635	28	5902	39	4694	52	6215	41
6	CP.802	11158	23	16166	2	11216	6	12957	10	12875	3	3384	13	9149	3	4636	50	3786	45	6476	32	6012	35	7568	8	7621	22
7	JH 13339	10255	32	14567	17	10344	18	10769	32	11484	17	3767	6	7206	33	5414	35	5134	26	5220	45	5743	43	8857	2	5679	47
8	CP.804	12107	13	10524	50	9193	31	12829	13	11163	24	2606	42	5939	49	6344	12	6244	6	6850	23	6344	26	6219	36	8223	7
9	JKMH 4153	11519	16	13290	26	10943	11	13122	8	12219	6	2869	29	8997	4	5758	28	3018	51	6080	41	5963	37	6873	23	5130	49
10	Super-6030	7074	53	14695	14	11131	8	8263	54	10291	43	1763	55	5841	50	5576	32	3236	50	3232	55	4471	53	5513	47	5021	50
11	GK3141	7236	52	14060	20	11545	3	9650	42	10623	40	2765	36	5668	52	5626	30	6932	2	6974	20	6300	28	7266	15	7888	14
12	DAS-MH-111	10371	29	15335	10	10864	12	11539	20	12027	11	3119	20	8122	20	4298	54	4753	32	8681	4	6463	22	6158	39	9516	1
13	IMHW1541	10365	30	12053	42	8475	38	11661	19	10638	39	3016	23	6637	38	4958	44	4003	42	8150	9	5937	38	5852	43	6586	36
14	PM15101L	12305	10	14308	18	9450	27	12615	14	12169	9	2782	34	7421	29	5778	26	5088	28	8166	7	6613	17	8473	4	7781	16
15	IMH1533	7388	51	15725	6	8563	37	9316	46	10248	45	2113	51	5607	53	5885	25	5467	20	5044	46	5501	45	7098	20	6242	39
16	HT 515387	12642	6	14192	19	10380	16	13311	7	12631	5	3296	15	6941	36	6164	19	5463	21	7244	19	6453	23	6743	27	8037	8
17	JH 13341	10002	35	11528	46	10785	13	10794	30	10777	35	3583	11	7498	28	6766	7	5893	13	6661	26	6704	15	6358	34	7689	19
18	MFH-6-15	8005	49	13898	21	11604	2	10337	36	10961	31	2390	45	5991	48	5372	36	2588	54	4593	48	4636	52	6186	38	6472	38
19	HM15310	12471	7	12918	30	10115	20	7872	55	10844	34	3183	18	8339	14	5725	29	6540	4	7858	14	7115	5	9239	1	6767	32
20	CMH12-661	10477	28	15394	8	9713	24	10818	29	11600	16	3371	14	8229	17	6167	18	5980	10	6587	29	6741	14	6768	26	7666	21
21	MAH-K14-4	8240	45	14592	16	11390	4	10054	41	11069	28	2492	43	6295	43	5892	24	2825	52	5721	42	5183	47	5212	49	3496	54
22	IMH1530	10223	33	11939	43	10063	21	10858	28	10771	36	3239	16	6139	46	7055	2	3538	49	4932	47	5416	46	5529	46	7375	26
23	DMRH1417	9422	41	12769	32	11166	7	10456	35	10953	32	3110	21	6731	37	5914	23	5133	27	6481	31	6065	33	6737	28	7385	25
24	ANJAN	9774	37	9832	53	12014	1	10076	40	10424	41	2801	32	6420	41	6148	20	5138	25	6449	33	6039	34	5381	48	7058	31
25	PM15105L	8099	47	14632	15	10996	10	12116	16	11461	18	2961	25	7714	24	6317	14	5516	19	7697	16	6811	10	6659	29	5978	44
26	IMH1528	7727	50	12795	31	8687	36	8800	50	9502	50	2779	35	6225	44	5606	31	4369	39	4034	52	5058	48	6232	35	6609	35
27	CMH12-678	11379	19	12625	35	9644	25	11178	25	11206	22	2221	50	6593	39	4864	47	5809	15	5281	44	5637	44	6392	32	4770	51
28	NMH-3662	10093	34	8327	55	11127	9	11847	18	10348	42	2275	49	8330	15	7234	1	5989	9	6644	27	7049	7	7070	21	6517	37
29	QMH-1025	12330	9	11714	44	10332	19	11130	26	11376	20	3093	22	7577	26	6263	15	4851	30	6870	22	6390	25	7117	19	7328	29
30	OMH 14-27	11914	15	12118	41	11269	5	11892	17	11798	14	3655	8	8132	19	6938	5	7491	1	6435	34	7249	4	7602	6	7805	15
31	QMH-1232	12209	11	13371	25	8465	39	10777	31	11205	23	3154	19	8524	9	6210	16	5956	12	6700	24	6848	9	7708	5	7329	28
32	IMH1527	9414	42	12438	39	9783	23	13457	5	11273	21	3002	24	7533	27	6837	6	6848	3	6328	36	6886	8	6529	31	9276	2
33	DKC9163	12017	14	11336	47	10357	17	14183	2	11973	12	2635	40	8534	8	6655	8	6349	5	9608	1	7786	1	8507	3	7606	23

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		NWPZ																		NEPZ					
		LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R	HYDE	R	KARI	R
34	JKMH 4444	9615	39	9283	54	7789	48	10748	33	9359	51	2783	33	8087	22	6988	4	5358	22	5605	43	6509	20	7426	13	6152	42
35	IIMRNH 2015-10	10894	24	13590	23	8231	42	11445	21	11040	29	3588	10	8445	11	5306	38	5288	23	6189	39	6307	27	7463	11	6036	43
36	QMH-1231	11216	22	11568	45	7644	51	9472	44	9975	47	3861	5	7296	32	5337	37	4699	33	6156	40	5872	41	6831	25	7955	10
37	EH-2371	5719	55	13897	22	8137	44	8677	52	9107	53	1932	53	-	-	5075	42	2642	53	3670	54	3796	55	1366	55	1819	55
38	CCH 4039	10606	26	13167	27	7898	47	11299	22	10742	37	4157	1	8429	12	6209	17	5854	14	6519	30	6753	13	6582	30	7949	11
39	IMH1524	8079	48	12937	28	7527	54	9591	43	9533	49	2856	30	6963	35	4456	52	3776	46	4187	51	4846	51	6863	24	7924	13
40	PM15102L	9761	38	15937	4	7785	50	14038	3	11880	13	2634	41	8675	6	4590	51	3576	48	8159	8	6250	30	7544	9	7779	17
41	KH-440	11517	17	12568	37	9112	33	10883	27	11020	30	2647	39	8581	7	4298	53	2251	55	7915	12	5761	42	4632	53	7117	30
42	MAH-K14-2	8190	46	12606	36	7605	53	11289	23	9922	48	2740	37	6435	40	6064	21	5267	24	6687	25	6113	32	5859	42	5836	45
43	VNR-31565	13433	2	15369	9	8174	43	13553	4	12633	4	4128	2	8487	10	7043	3	6154	7	8376	6	7515	2	7589	7	8851	3
44	IIMRNH 2015-9	8487	43	10319	51	7786	49	8409	53	8750	55	2373	47	6067	47	6002	22	3897	44	4218	50	5046	49	6086	40	5328	48
45	PM15106L	11317	21	15283	11	8871	34	10165	38	11409	19	2949	27	5668	51	6400	10	4668	36	7303	18	6010	36	3856	54	4743	52
46	SMH-3902	11330	20	15539	7	10599	14	14487	1	12989	2	3562	12	8087	21	6605	9	4568	37	9129	3	7097	6	7379	14	8384	5
47	CMH12-688	12373	8	12516	38	8426	40	11263	24	11145	25	2443	44	8296	16	4653	49	6024	8	8105	10	6769	12	7542	10	7671	20
48	DAS-MH-110	13125	4	17209	1	9193	32	8707	51	12058	10	2374	46	8402	13	6377	11	4311	40	6882	21	6493	21	6210	37	8524	4
49	PM15104L	12919	5	15956	3	10487	15	13364	6	13181	1	3936	4	10024	1	6332	13	4684	35	8017	11	7264	3	7245	16	7696	18
50	GH-1113	6635	54	11321	48	8258	41	8837	49	8763	54	2110	52	3958	54	3885	55	4692	34	4242	49	4194	54	4955	51	4140	53
51	KNMH-4503	11457	18	12764	33	10008	22	9424	45	10913	33	3186	17	7361	31	4871	46	4787	31	8568	5	6397	24	6082	41	6621	34
	CHECKS																										
52	PMH-1	13423	3	12930	29	7644	52	12932	11	11732	15	3948	3	9759	2	5554	34	5654	16	6193	38	6790	11	6944	22	7573	24
53	PMH-3	10521	27	13481	24	8132	45	12175	15	11077	27	3644	9	8819	5	5026	43	5980	11	6366	35	6548	18	7229	17	6642	33
54	Seedtech-2324	12205	12	10762	49	7987	46	10181	37	10284	44	2920	28	7192	34	4824	48	5627	17	9134	2	6694	16	7195	18	5706	46
55	BIO-9681	9441	40	15182	12	7527	55	8838	48	10247	46	2851	31	6212	45	5764	27	3735	47	3720	53	4858	50	5774	44	7925	12
	Location Mean	**10402**		**13215**		**9473**		**11065**		**11039**		**2957**		**7424**		**5714**		**4923**		**6591**		**6146**		**6542**		**6895**	
	C.D. (5%)	2120		489		792		1472		1218		1342		1388		623		1564		993		1142		1155		769	
	C.V. (%)	12.59		2.29		5.16		8.22		-		**28.04**		11.76		6.74		15.84		9.31		-		10.91		6.89	
	F (Prob)	0		0		0		0				0.036		0		0		0		0				0		0	
	Plot Size	4.8		6		4.8		6		-		6		5.6		4.8		4.8		4.8		-		6		6	
	AGRONOMY DATA																										
	Sowing Date	29-06		29-06		8-08		24-06		-		2-07		9-07		23-06		26-06		2-07		-		27-06		26-06	
	Harvest Date	7-10		10-10		11-20		19-06		-		26-10		30-10		16-10		4-10		8-10		-		29-10		26-10	
	Irrigation Nos	7		6		3		1		-		2		-		-		1		-		-		4		10	
	Ferilizer Applied N	50		150		120		120		-		120		120		120		120		120		-		200		200	
	Ferilizer Applied P	24		60		60		60		-		60		60		60		60		60		-		60		60	
	Ferilizer Applied K	12		60		50		40		-		40		40		60		40		60		-		50		50	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

TABLE No. 1: (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		DHAR	R	MAND	R	VAGA	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	PZ MEAN	R	OV'L MEAN	R
1	IIMRNH 2015-8	7359	36	8101	38	5946	25	11087	17	7882	21	6275	27	5132	44	6818	6	6891	20	4063	29	5836	23	7679	24
2	TMMH 840	7107	43	8133	37	6928	7	12009	7	7694	24	3581	54	6006	22	4760	43	7294	14	4492	18	5227	41	7610	27
3	BRM 12-1	8871	14	9544	15	4794	43	9288	32	7583	30	6404	22	4811	49	4779	41	5414	43	4065	28	5095	44	7286	38
4	SRIKAR 3555	8714	15	9781	10	6627	13	12686	5	8736	4	6213	28	5261	42	5812	23	8997	2	3564	39	5969	16	8277	6
5	BH 413053	8925	13	8633	30	4389	45	7622	42	6746	46	4371	50	7522	4	3418	54	5844	35	3039	46	4839	50	6596	49
6	CP.802	9119	8	8931	25	6082	23	11264	14	8431	12	8456	3	6065	21	5249	36	7661	10	2905	50	6067	11	8235	8
7	JH 13339	8997	12	9266	21	4193	48	8020	40	7502	31	6296	25	6387	15	6661	8	5793	39	4182	25	5864	21	7539	28
8	CP.804	9550	1	9200	22	6506	15	11920	9	8603	7	5987	29	5548	34	5843	21	7946	5	3470	43	5759	26	7918	16
9	JKMH 4153	8207	22	9964	7	4958	39	9230	35	7393	32	4731	46	4732	50	6109	15	6528	27	2984	48	5017	47	7483	32
10	Super-6030	7133	42	9315	20	3652	50	7076	51	6285	48	4836	44	4332	52	3998	52	3885	53	4301	22	4270	53	6216	52
11	GK3141	8997	11	9604	14	5399	31	9501	30	8109	15	5962	31	6069	20	5898	19	6341	30	5843	2	6023	14	7708	22
12	DAS-MH-111	9379	4	8871	26	8379	2	11254	15	8926	2	3475	55	6187	18	6287	10	7843	7	4235	24	5605	30	8187	9
13	IMHW1541	7625	31	8771	29	5180	34	7108	49	6854	45	3779	53	5363	41	5413	32	4714	50	2960	49	4446	52	6824	44
14	PM15101L	7830	25	10254	4	4195	47	9375	31	7985	18	7832	9	6479	13	4416	46	6802	22	3786	34	5863	22	8019	14
15	IMH1533	6784	48	6825	43	5924	27	7494	43	6728	47	5544	35	5540	35	4043	50	4862	48	4710	12	4940	49	6740	46
16	HT 515387	7434	35	10269	3	7680	5	11007	19	8528	9	4396	49	6340	17	5317	34	7360	13	3706	35	5424	35	8138	10
17	JH 13341	7603	32	6537	48	5890	28	7366	45	6907	44	8549	1	5932	24	5697	25	6775	23	4302	21	6251	7	7507	31
18	MFH-6-15	5383	54	6291	50	5939	26	5989	54	6043	51	4959	43	3892	54	3040	55	4755	49	3590	38	4047	55	6257	51
19	HM15310	9519	2	6611	46	8237	3	10029	26	8401	13	7032	19	7848	1	5965	18	7070	15	3316	45	6246	8	8077	11
20	CMH12-661	7669	30	8796	27	4952	40	11212	16	7844	22	5326	38	5816	29	5482	31	6598	26	3418	44	5328	39	7740	20
21	MAH-K14-4	7288	38	6684	45	6126	22	8698	38	6251	49	3921	51	4903	47	4764	42	5408	44	4005	31	4600	51	6606	48
22	IMH1530	6963	46	6560	47	6828	10	9211	36	7078	41	5584	33	5626	32	4523	45	5383	45	4042	30	5031	46	6967	42
23	DMRH1417	6449	51	8950	24	6416	16	9726	29	7611	27	5596	32	6164	19	5147	38	5504	41	4308	20	5344	37	7392	34
24	ANJAN	8610	18	9883	9	6644	12	10215	24	7965	20	3782	52	4886	48	6213	12	7988	4	3931	33	5360	36	7392	35
25	PM15105L	6652	50	8294	34	3379	52	11442	13	7067	42	7961	6	5470	38	5605	29	6968	18	3537	40	5908	17	7633	26
26	IMH1528	7043	44	6353	49	4299	46	6311	52	6141	50	7046	18	5894	25	4033	51	6019	33	2405	55	5080	45	6341	50
27	CMH12-678	7932	23	9771	11	6163	21	7775	41	7134	39	4743	45	6369	16	5688	26	5162	47	4576	15	5308	40	7195	40
28	NMH-3662	7534	34	9427	17	5367	33	11083	18	7833	23	4713	48	5679	30	6176	13	9281	1	4504	17	6071	10	7734	21
29	QMH-1025	6401	52	8203	35	6562	14	7125	48	7123	40	6709	21	6397	14	5246	37	7765	8	5434	6	6310	5	7650	25
30	OMH 14-27	8602	19	9343	19	6721	11	9812	28	8314	14	8211	4	7043	7	6690	7	8160	3	4112	26	6843	1	8436	4
31	QMH-1232	9296	6	6808	44	5553	30	8969	37	7610	28	7331	14	7797	2	7111	4	6398	29	4524	16	6632	2	7949	15
32	IMH1527	8569	20	9395	18	6167	20	10980	20	8486	10	7000	20	5620	33	5565	30	5982	34	4837	9	5801	25	8029	12
33	DKC9163	7251	39	10469	2	9445	1	13858	1	9523	1	5963	30	5996	23	6042	17	7001	17	3527	41	5706	27	8669	1

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		DHAR	R	MAND	R	VAGA	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	PZ MEAN	R	OV'L MEAN	R
34	JKMH 4444	7352	37	10050	6	7910	4	12415	6	8551	8	7993	5	5188	43	4250	48	7002	16	3666	36	5620	29	7520	29
35	IIMRNH 2015-10	7792	27	9692	13	4808	42	7076	50	7144	37	7897	7	5866	26	6089	16	5374	46	4291	23	5903	18	7462	33
36	QMH-1231	7537	33	7759	40	5398	32	7339	46	7137	38	7156	17	6634	11	5817	22	6944	19	5196	7	6349	4	7261	39
37	EH-2371	3454	55	6098	52	3145	53	13249	2	4855	55	7463	13	7040	8	3456	53	7583	11	4653	13	6039	13	5949	53
38	CCH 4039	9079	9	8782	28	5058	37	10528	22	7996	17	7604	12	5416	39	4256	47	6148	31	4770	10	5639	28	7692	23
39	IMH1524	6815	47	9007	23	4851	41	7464	44	7154	36	5529	36	5036	46	4866	39	6432	28	4096	27	5192	42	6653	47
40	PM15102L	7791	28	6919	42	2862	54	13167	3	7677	26	7872	8	7768	3	5362	33	5831	36	4635	14	6293	6	7897	17
41	KH-440	9227	7	8558	32	6074	24	10518	23	7688	25	4722	47	5831	28	5616	28	7453	12	5759	3	5876	20	7507	30
42	MAH-K14-2	7166	41	8432	33	6887	8	10050	25	7372	34	6387	23	4533	51	4091	49	6092	32	5583	4	5337	38	7108	41
43	VNR-31565	9033	10	7371	41	5143	35	10599	21	8098	16	5068	42	5093	45	7107	5	6600	25	5145	8	5803	24	8326	5
44	IIMRNH 2015-9	7200	40	5312	55	3496	51	6032	53	5576	53	5222	39	3760	55	4582	44	3727	54	3955	32	4249	54	5783	54
45	PM15106L	6774	49	6234	51	2817	55	9857	27	5714	52	7610	11	5640	31	4863	40	3675	55	2989	47	4956	48	6775	45
46	SMH-3902	8649	17	8585	31	5805	29	13098	4	8650	6	8492	2	7521	5	5884	20	3893	52	3610	37	5880	19	8508	3
47	CMH12-688	8672	16	10076	5	7130	6	11511	12	8767	3	5218	40	6957	9	6346	9	4679	51	2586	53	5157	43	7897	18
48	DAS-MH-110	9436	3	9884	8	6334	19	11711	10	8683	5	7752	10	4066	53	7777	1	7899	6	2769	51	6053	12	8240	7
49	PM15104L	8565	21	10591	1	4739	44	11953	8	8465	11	7195	16	6718	10	5789	24	6811	21	3504	42	6003	15	8557	2
50	GH-1113	5435	53	5626	53	4095	49	5642	55	4982	54	5138	41	5841	27	5288	35	5466	42	5950	1	5536	32	5758	55
51	KNMH-4503	7820	26	8166	36	6410	17	7257	47	7059	43	6327	24	5474	37	5634	27	5722	40	4762	11	5584	31	7343	36
	CHECKS																								
52	PMH-1	9343	5	9732	12	4978	38	9273	33	7974	19	7322	15	7112	6	7617	2	5820	38	2672	52	6109	9	8025	13
53	PMH-3	7917	24	9482	16	5131	36	9241	34	7607	29	6285	26	5485	36	7300	3	7663	9	5496	5	6446	3	7809	19
54	Seedtech-2324	7018	45	5613	54	6339	18	11519	11	7232	35	5363	37	5380	40	6166	14	5828	37	4443	19	5436	34	7288	37
55	BIO-9681	7675	29	7848	39	6845	9	8239	39	7384	33	5578	34	6499	12	6261	11	6675	24	2504	54	5504	33	6960	43
	Location Mean	**7828**		**8430**		**5669**		**9700**		**7511**		**6141**		**5854**		**5495**		**6358**		**4067**		**5583**		**7461**	
	C.D. (5%)	2242		927		1141		872		1184		1000		1522		1548		1435		603		1222		1192	
	C.V. (%)	17.69		6.79		12.44		5.56		-		10.06		16.06		17.4		13.94		9.16		-		-	
	F (Prob)	0		0		0		0				0		0		0		0		0					
	Plot Size	4.8		5.6		4.8		4.8		-		4.8		4.8		6		6		2.4		-		-	
	AGRONOMY DATA																								
	Sowing Date	3-08		18-07		8-07		9-07		-		25-06		24-06		9-07		20-07		16-07		-		-	
	Harvest Date	17-12		3-12		5-11		26-10		-		5-10		18-10		7-11		-		28-10		-		-	
	Irrigation Nos	3		7		12		9		-		3		-		-		-		-		-		-	
	Ferilizer Applied N	150		150		150		150		-		120		150		120		120		100		-		-	
	Ferilizer Applied P	75		75		75		75		-		90		80		60		60		50		-		-	
	Ferilizer Applied K	37.5		40		75		75		-		-		-		40		40		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1																								
		NWPZ					NEPZ												PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRNH 2015-8	-	13.8	14.8	-	-	-	-	-	-	27.5	-	7.4	-	-	-	19.5	19.6	-	-	-	-	18.4	52	-	-
2	TMMH 840	-	22.3	24.4	1.3	3.8	-	-	-	-	1	-	-	-	-	-	39.2	29.5	-	-	-	-	25.3	68.1	-	-
3	BRM 12-1	-	-	23.6	-	-	-	-	-	-	21.9	-	-	5.3	-	-	-	0.2	-	-	-	-	-	52.1	-	-
4	SRIKAR 3555	6.1	-	22.7	-	4.1	-	-	-	-	26.5	-	-	8.9	-	0.5	33.1	36.8	9.6	-	-	-	54.6	33.3	-	3.1
5	BH 413053	-	-	23.6	-	-	-	-	0.3	-	7.1	-	-	-	-	-	-	-	-	-	5.8	-	0.4	13.7	-	-
6	CP.802	-	25	46.7	0.2	9.7	-	-	-	-	4.6	-	9	0.6	-	-	22.2	21.5	5.7	15.5	-	-	31.6	8.7	-	2.6
7	JH 13339	-	12.7	35.3	-	-	-	-	-	-	-	-	27.6	-	-	-	-	-	-	-	-	-	-	56.5	-	-
8	CP.804	-	-	20.3	-	-	-	-	14.2	10.4	10.6	-	-	8.6	2.2	-	30.7	28.5	7.9	-	-	-	36.5	29.8	-	-
9	JKMH 4153	-	2.8	43.2	1.5	4.1	-	-	3.7	-	-	-	-	-	-	2.4	-	-	-	-	-	-	12.2	11.6	-	-
10	Super-6030	-	13.6	45.6	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60.9	-	-
11	GK3141	-	8.7	51	-	-	-	-	1.3	22.6	12.6	-	4.6	4.2	-	-	8.5	2.5	1.7	-	-	-	9	118.6	-	-
12	DAS-MH-111	-	18.6	42.1	-	2.5	-	-	-	-	40.2	-	-	25.7	0.4	-	68.3	21.4	11.9	-	-	-	34.8	58.5	-	2
13	IMHW1541	-	-	10.9	-	-	-	-	-	-	31.6	-	-	-	-	-	4.1	-	-	-	-	-	-	10.8	-	-
14	PM15101L	-	10.7	23.6	-	3.7	-	-	4	-	31.9	-	22	2.8	-	5.4	-	1.1	0.1	7	-	-	16.9	41.7	-	-
15	IMH1533	-	21.6	12	-	-	-	-	6	-	-	-	2.2	-	-	-	19	-	-	-	-	-	-	76.2	-	-
16	HT 515387	-	9.8	35.8	2.9	7.7	-	-	11	-	17	-	-	6.1	-	5.5	54.3	18.7	7	-	-	-	26.5	38.7	-	1.4
17	JH 13341	-	-	41.1	-	-	-	-	21.8	4.2	7.5	-	-	1.5	-	-	18.3	-	-	16.8	-	-	16.4	61	2.3	-
18	MFH-6-15	-	7.5	51.8	-	-	-	-	-	-	-	-	-	-	-	-	19.3	-	-	-	-	-	-	34.3	-	-
19	HM15310	-	-	32.3	-	-	-	-	3.1	15.7	26.9	4.8	33.1	-	1.9	-	65.5	8.2	5.4	-	10.3	-	21.5	24.1	2.3	0.7
20	CMH12-661	-	19.1	27.1	-	-	-	-	11	5.8	6.4	-	-	1.2	-	-	-	20.9	-	-	-	-	13.4	27.9	-	-
21	MAH-K14-4	-	12.8	49	-	-	-	-	6.1	-	-	-	-	-	-	-	23.1	-	-	-	-	-	-	49.9	-	-
22	IMH1530	-	-	31.7	-	-	-	-	27	-	-	-	-	-	-	-	37.2	-	-	-	-	-	-	51.2	-	-
23	DMRH1417	-	-	46.1	-	-	-	-	6.5	-	4.6	-	-	-	-	-	28.9	4.9	-	-	-	-	-	61.2	-	-
24	ANJAN	-	-	57.2	-	-	-	-	10.7	-	4.1	-	-	-	-	1.6	33.5	10.2	-	-	-	-	37.2	47.1	-	-
25	PM15105L	-	13.2	43.9	-	-	-	-	13.7	-	24.3	0.3	-	-	-	-	-	23.4	-	8.7	-	-	19.7	32.3	-	-
26	IMH1528	-	-	13.7	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	3.4	-	-	-
27	CMH12-678	-	-	26.2	-	-	-	-	-	2.7	-	-	-	-	-	0.4	23.8	-	-	-	-	-	-	71.2	-	-
28	NMH-3662	-	-	45.6	-	-	-	-	30.2	5.9	7.3	3.8	1.8	-	-	-	7.8	19.5	-	-	-	-	59.5	68.5	-	-
29	QMH-1025	-	-	35.2	-	-	-	-	12.8	-	10.9	-	2.5	-	-	-	31.8	-	-	-	-	-	33.4	103.3	3.3	-
30	OMH 14-27	-	-	47.4	-	0.6	-	-	24.9	32.5	3.9	6.8	9.5	3.1	-	-	35	5.8	4.3	12.1	-	-	40.2	53.9	12	5.1
31	QMH-1232	-	3.4	10.7	-	-	-	-	11.8	5.3	8.2	0.8	11	-	-	-	11.6	-	-	0.1	9.6	-	9.9	69.3	8.6	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1																								
		NWPZ											NEPZ						PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	IMH1527	-	-	28	4.1	-	-	-	23.1	21.1	2.2	1.4	-	22.5	-	-	23.9	18.4	6.4	-	-	-	2.8	81	-	0.1
33	DKC9163	-	-	35.5	9.7	2.1	-	-	19.8	12.3	55.1	14.7	22.5	0.4	-	7.6	89.7	49.4	19.4	-	-	-	20.3	32	-	8
34	JKMH 4444	-	-	1.9	-	-	-	-	25.8	-	-	-	6.9	-	-	3.3	58.9	33.9	7.2	9.2	-	-	20.3	37.2	-	-
35	IIMRNH 2015-10	-	5.1	7.7	-	-	-	-	-	-	-	-	7.5	-	-	-	-	-	-	7.8	-	-	-	60.6	-	-
36	QMH-1231	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	8.4	-	-	-	-	-	19.3	94.4	3.9	-
37	EH-2371	-	7.5	6.5	-	-	-	-	-	-	-	-	-	-	-	-	-	42.9	-	1.9	-	-	30.3	74.1	-	-
38	CCH 4039	-	1.8	3.3	-	-	5.3	-	11.8	3.5	5.3	-	-	5	-	-	1.6	13.5	0.3	3.9	-	-	5.6	78.5	-	-
39	IMH1524	-	0	-	-	-	-	-	-	-	-	-	-	4.6	-	-	-	-	-	-	-	-	10.5	53.3	-	-
40	PM15102L	-	23.3	1.9	8.6	1.3	-	-	-	-	31.7	-	8.6	2.7	-	-	-	42	-	7.5	9.2	-	0.2	73.4	3	-
41	KH-440	-	-	19.2	-	-	-	-	-	-	27.8	-	-	-	-	-	22	13.4	-	-	-	-	28.1	115.5	-	-
42	MAH-K14-2	-	-	-	-	-	-	-	9.2	-	8	-	-	-	-	-	38.4	8.4	-	-	-	-	4.7	108.9	-	-
43	VNR-31565	0.1	18.9	6.9	4.8	7.7	4.6	-	26.8	8.8	35.3	10.7	9.3	16.9	-	-	3.3	14.3	1.6	-	-	-	13.4	92.5	-	3.7
44	IIMRNH 2015-9	-	-	1.9	-	-	-	-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-	-
45	PM15106L	-	18.2	16.1	-	-	-	-	15.2	-	17.9	-	-	-	-	-	-	6.3	-	3.9	-	-	-	11.8	-	-
46	SMH-3902	-	20.2	38.7	12	10.7	-	-	18.9	-	47.4	4.5	6.3	10.7	-	-	16.6	41.2	8.5	16	5.7	-	-	35.1	-	6
47	CMH12-688	-	-	10.2	-	-	-	-	-	6.5	30.9	-	8.6	1.3	-	3.5	43.2	24.1	9.9	-	-	-	-	-	-	-
48	DAS-MH-110	-	33.1	20.3	-	2.8	-	-	14.8	-	11.1	-	-	12.6	1	1.6	27.2	26.3	8.9	5.9	-	2.1	35.7	3.6	-	2.7
49	PM15104L	-	23.4	37.2	3.3	12.4	-	2.7	14	-	29.5	7	4.3	1.6	-	8.8	-	28.9	6.2	-	-	-	17	31.1	-	6.6
50	GH-1113	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	122.6	-	-
51	KNMH-4503	-	-	30.9	-	-	-	-	-	-	38.3	-	-	-	-	-	28.8	-	-	-	-	-	-	78.2	-	-
	CHECKS																									
52	PMH-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	PMH-3	-	4.3	6.4	-	-	-	-	-	5.8	2.8	-	4.1	-	-	-	3.1	-	-	-	-	-	31.7	105.7	5.5	-
54	Seedtech-2324	-	-	4.5	-	-	-	-	-	-	47.5	-	3.6	-	-	-	27.3	24.2	-	-	-	-	0.1	66.3	-	-
55	BIO-9681	-	17.4	-	-	-	-	-	3.8	-	-	-	-	4.6	-	-	37.5	-	-	-	-	-	14.7	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3																									
						NWPZ							NEPZ								PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRNH 2015-8	2.2	9.2	7.9	-	0.2	2.4	-	3.9	-	24	-	3.2	10.5	-	-	15.9	20	3.6	-	-	-	-	-	-	-
2	TMMH 840	-	17.3	16.9	7.6	9.9	-	-	3.9	-	-	-	-	-	-	-	35	29.9	1.1	-	9.5	-	-	-	-	-
3	BRM 12-1	-	-	16.2	-	-	-	-	-	-	18.6	-	-	20.1	12.1	0.7	-	0.5	-	1.9	-	-	-	-	-	-
4	SRIKAR 3555	35.4	-	15.3	6.1	10.3	-	-	5.2	-	23	-	-	24.2	10.1	3.2	29.2	37.3	14.8	-	-	-	17.4	-	-	6
5	BH 413053	-	-	16.2	-	-	-	-	10.8	-	4.2	-	-	-	12.7	-	-	-	-	-	37.1	-	-	-	-	-
6	CP.802	6.1	19.9	37.9	6.4	16.2	-	3.7	-	-	1.7	-	4.7	14.7	15.2	-	18.5	21.9	10.8	34.5	10.6	-	-	-	-	5.5
7	JH 13339	-	8.1	27.2	-	3.7	3.4	-	7.7	-	-	-	22.5	-	13.6	-	-	-	-	0.2	16.4	-	-	-	-	-
8	CP.804	15.1	-	13	5.4	0.8	-	-	26.2	4.4	7.6	-	-	23.8	20.6	-	26.8	29	13.1	-	1.2	-	3.7	-	-	1.4
9	JKMH 4153	9.5	-	34.6	7.8	10.3	-	2	14.6	-	-	-	-	-	3.7	5.1	-	-	-	-	-	-	-	-	-	-
10	Super-6030	-	9	36.9	-	-	-	-	10.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	GK3141	-	4.3	42	-	-	-	-	11.9	15.9	9.6	-	0.5	18.8	13.6	1.3	5.2	2.8	6.6	-	10.7	-	-	6.3	-	-
12	DAS-MH-111	-	13.7	33.6	-	8.6	-	-	-	-	36.4	-	-	43.3	18.5	-	63.3	21.8	17.3	-	12.8	-	2.3	-	-	4.8
13	IMHW1541	-	-	4.2	-	-	-	-	-	-	28	-	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-
14	PM15101L	17	6.1	16.2	3.6	9.9	-	-	15	-	28.3	1	17.2	17.1	-	8.1	-	1.4	5	24.6	18.1	-	-	-	-	2.7
15	IMH1533	-	16.6	5.3	-	-	-	-	17.1	-	-	-	-	-	-	-	15.4	-	-	-	1	-	-	-	-	-
16	HT 515387	20.2	5.3	27.6	9.3	14	-	-	22.6	-	13.8	-	-	21	-	8.3	49.7	19.1	12.1	-	15.6	-	-	-	-	4.2
17	JH 13341	-	-	32.6	-	-	-	-	34.6	-	4.6	2.4	-	15.8	-	-	14.8	-	-	36	8.2	-	-	-	-	-
18	MFH-6-15	-	3.1	42.7	-	-	-	-	6.9	-	-	-	-	-	-	-	15.8	-	-	-	-	-	-	-	-	-
19	HM15310	18.5	-	24.4	-	-	-	-	13.9	9.4	23.4	8.7	27.8	1.9	20.2	-	60.5	8.5	10.4	11.9	43.1	-	-	-	-	3.4
20	CMH12-661	-	14.2	19.4	-	4.7	-	-	22.7	0	3.5	2.9	-	15.4	-	-	-	21.3	3.1	-	6	-	-	-	-	-
21	MAH-K14-4	-	8.2	40.1	-	-	-	-	17.2	-	-	-	-	-	-	-	19.4	-	-	-	-	-	-	-	-	-
22	IMH1530	-	-	23.7	-	-	-	-	40.4	-	-	-	-	11	-	-	33.1	-	-	-	2.6	-	-	-	-	-
23	DMRH1417	-	-	37.3	-	-	-	-	17.7	-	1.8	-	-	11.2	-	-	25	5.3	0	-	12.4	-	-	-	-	-
24	ANJAN	-	-	47.7	-	-	-	-	22.3	-	1.3	-	-	6.3	8.8	4.2	29.5	10.5	4.7	-	-	-	4.2	-	-	-
25	PM15105L	-	8.5	35.2	-	3.5	-	-	25.7	-	20.9	4	-	-	-	-	-	23.8	-	26.7	-	-	-	-	-	-
26	IMH1528	-	-	6.8	-	-	-	-	11.5	-	-	-	-	-	-	-	-	-	-	12.1	7.5	-	-	-	-	-
27	CMH12-678	8.2	-	18.6	-	1.2	-	-	-	-	-	-	-	-	0.2	3	20.1	-	-	-	16.1	-	-	-	-	-
28	NMH-3662	-	-	36.8	-	-	-	-	43.9	0.2	4.4	7.7	-	-	-	-	4.6	19.9	3	-	3.5	-	21.1	-	-	-
29	QMH-1025	17.2	-	27	-	2.7	-	-	24.6	-	7.9	-	-	10.3	-	-	27.9	-	-	6.7	16.6	-	1.3	-	-	-
30	OMH 14-27	13.2	-	38.6	-	6.5	0.3	-	38	25.3	1.1	10.7	5.2	17.5	8.7	-	31	6.2	9.3	30.6	28.4	-	6.5	-	6.2	8
31	QMH-1232	16	-	4.1	-	1.2	-	-	23.6	-	5.2	4.6	6.6	10.3	17.4	-	8.2	-	0	16.6	42.2	-	-	-	2.9	1.8

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3																								
		NWPZ											NEPZ							PZ						OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	IMH1527	-	-	20.3	10.5	1.8	-	-	36	14.5	-	5.2	-	39.7	8.2	-	20.2	18.8	11.6	11.4	2.5	-	-	-	-	2.8
33	DKC9163	14.2	-	27.4	16.5	8.1	-	-	32.4	6.2	50.9	18.9	17.7	14.5	-	10.4	84.1	50	25.2	-	9.3	-	-	-	-	11
34	JKMH 4444	-	-	-	-	-	-	-	39	-	-	-	2.7	-	-	6	54.1	34.3	12.4	27.2	-	-	-	-	-	-
35	IIMRNH 2015-10	3.5	0.8	1.2	-	-	-	-	5.6	-	-	-	3.2	-	-	2.2	-	-	-	25.6	7	-	-	-	-	-
36	QMH-1231	6.6	-	-	-	-	6	-	6.2	-	-	-	-	19.8	-	-	5.2	-	-	13.8	21	-	-	-	-	-
37	EH-2371	-	3.1	0.1	-	-	-	-	1	-	-	-	-	-	-	-	-	43.4	-	18.7	28.4	-	-	-	-	-
38	CCH 4039	0.8	-	-	-	-	14.1	-	23.5	-	2.4	3.1	-	19.7	14.7	-	-	13.9	5.1	21	-	-	-	-	-	-
39	IMH1524	-	-	-	-	-	-	-	-	-	-	-	-	19.3	-	-	-	-	-	-	-	-	-	-	-	-
40	PM15102L	-	18.2	-	15.3	7.2	-	-	-	-	28.2	-	4.3	17.1	-	-	-	42.5	0.9	25.2	41.6	-	-	-	-	1.1
41	KH-440	9.5	-	12	-	-	-	-	-	-	24.3	-	-	7.1	16.5	-	18.4	13.8	1.1	-	6.3	-	-	4.8	-	-
42	MAH-K14-2	-	-	-	-	-	-	-	20.7	-	5	-	-	-	-	-	34.2	8.8	-	1.6	-	-	-	1.6	-	-
43	VNR-31565	27.7	14	0.5	11.3	14	13.3	-	40.1	2.9	31.6	14.8	5	33.3	14.1	-	0.2	14.7	6.4	-	-	-	-	-	-	6.6
44	IIMRNH 2015-9	-	-	-	-	-	-	-	19.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
45	PM15106L	7.6	13.4	9.1	-	3	-	-	27.3	-	14.7	-	-	-	-	-	-	6.7	-	21.1	2.8	-	-	-	-	-
46	SMH-3902	7.7	15.3	30.3	19	17.3	-	-	31.4	-	43.4	8.4	2.1	26.2	9.2	-	13.1	41.7	13.7	35.1	37.1	-	-	-	-	8.9
47	CMH12-688	17.6	-	3.6	-	0.6	-	-	-	0.7	27.3	3.4	4.3	15.5	9.5	6.3	39	24.6	15.2	-	26.8	-	-	-	-	1.1
48	DAS-MH-110	24.8	27.7	13	-	8.9	-	-	26.9	-	8.1	-	-	28.3	19.2	4.2	23.4	26.7	14.1	23.3	-	6.5	3.1	-	-	5.5
49	PM15104L	22.8	18.4	29	9.8	19	8	13.7	26	-	25.9	10.9	0.2	15.9	8.2	11.7	-	29.3	11.3	14.5	22.5	-	-	-	-	9.6
50	GH-1113	-	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	8.3	-	-
51	KNMH-4503	8.9	-	23.1	-	-	-	-	-	-	34.6	-	-	-	-	-	24.9	-	-	0.7	-	-	-	-	-	-
	CHECKS																									
52	PMH-1	27.6	-	-	6.2	5.9	8.4	10.7	10.5	-	-	3.7	-	14	18	2.6	-	0.3	4.8	16.5	29.7	4.3	-	-	-	2.8
53	PMH-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	Seedtech-2324	16	-	-	-	-	-	-	-	-	43.5	2.2	-	-	-	-	23.5	24.6	-	-	-	-	-	-	-	-
55	BIO-9681	-	12.6	-	-	-	-	-	14.7	-	-	-	-	19.3	-	-	33.4	-	-	-	18.5	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324																								
		NWPZ											NEPZ							PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRNH 2015-8	-	36.8	9.9	-	8	27.8	7.9	8.3	-	-	-	3.7	28.7	4.9	44.3	-	-	9	17	-	10.6	18.2	-	7.4	5.4
2	TMMH 840	-	47	19	28.7	18.4	1.3	6.1	8.3	-	-	-	-	9.1	1.3	44.9	9.3	4.3	6.4	-	11.6	-	25.2	1.1	-	4.4
3	BRM 12-1	-	18.4	18.3	4.8	4.2	-	13.8	1.5	-	-	-	-	39.8	26.4	70	-	-	4.9	19.4	-	-	-	-	-	-
4	SRIKAR 3555	16.7	14.5	17.4	26.8	18.8	-	3.1	9.6	-	-	-	-	44.6	24.2	74.3	4.6	10.1	20.8	15.8	-	-	54.4	-	9.8	13.6
5	BH 413053	-	-	18.3	-	-	-	-	15.4	-	-	-	-	8.9	27.2	53.8	-	-	-	-	39.8	-	0.3	-	-	-
6	CP.802	-	50.2	40.4	27.3	25.2	15.9	27.2	-	-	-	-	5.2	33.6	29.9	59.1	-	-	16.6	57.7	12.7	-	31.5	-	11.6	13
7	JH 13339	-	35.4	29.5	5.8	11.7	29	0.2	12.2	-	-	-	23.1	-	28.2	65.1	-	-	3.7	17.4	18.7	8	-	-	7.9	3.4
8	CP.804	-	-	15.1	26	8.6	-	-	31.5	11	-	-	-	44.1	36.1	63.9	2.6	3.5	19	11.6	3.1	-	36.4	-	5.9	8.6
9	JKMH 4153	-	23.5	37	28.9	18.8	-	25.1	19.3	-	-	-	-	-	16.9	77.5	-	-	2.2	-	-	-	12	-	-	2.7
10	Super-6030	-	36.5	39.4	-	0.1	-	-	15.6	-	-	-	-	-	1.6	66	-	-	-	-	-	-	-	-	-	-
11	GK3141	-	30.6	44.6	-	3.3	-	-	16.6	23.2	-	-	1	38.2	28.2	71.1	-	-	12.1	11.2	12.8	-	8.8	31.5	10.8	5.8
12	DAS-MH-111	-	42.5	36	13.3	17	6.8	12.9	-	-	-	-	-	66.8	33.6	58	32.2	-	23.4	-	15	2	34.6	-	3.1	12.3
13	IMHW1541	-	12	6.1	14.5	3.5	3.3	-	2.8	-	-	-	-	15.4	8.6	56.3	-	-	-	-	-	-	-	-	-	-
14	PM15101L	0.8	32.9	18.3	23.9	18.3	-	3.2	19.8	-	-	-	17.8	36.4	11.6	82.7	-	-	10.4	46.1	20.4	-	16.7	-	7.9	10
15	IMH1533	-	46.1	7.2	-	-	-	-	22	-	-	-	-	9.4	-	21.6	-	-	-	3.4	3	-	-	6	-	-
16	HT 515387	3.6	31.9	30	30.7	22.8	12.9	-	27.8	-	-	-	-	40.9	5.9	82.9	21.2	-	17.9	-	17.8	-	26.3	-	-	11.7
17	JH 13341	-	7.1	35	6	4.8	22.7	4.3	40.3	4.7	-	0.2	-	34.8	8.3	16.5	-	-	-	59.4	10.3	-	16.3	-	15	3
18	MFH-6-15	-	29.1	45.3	1.5	6.6	-	-	11.4	-	-	-	-	13.4	-	12.1	-	-	-	-	-	-	-	-	-	-
19	HM15310	2.2	20	26.6	-	5.4	9	15.9	18.7	16.2	-	6.3	28.4	18.6	35.6	17.8	30	-	16.2	31.1	45.9	-	21.3	-	14.9	10.8
20	CMH12-661	-	43	21.6	6.2	12.8	15.5	14.4	27.8	6.3	-	0.7	-	34.3	9.3	56.7	-	-	8.5	-	8.1	-	13.2	-	-	6.2
21	MAH-K14-4	-	35.6	42.6	-	7.6	-	-	22.1	-	-	-	-	-	3.8	19.1	-	-	-	-	-	-	-	-	-	-
22	IMH1530	-	10.9	26	6.6	4.7	10.9	-	46.2	-	-	-	-	29.3	-	16.9	7.7	-	-	4.1	4.6	-	-	-	-	-
23	DMRH1417	-	18.6	39.8	2.7	6.5	6.5	-	22.6	-	-	-	-	29.4	-	59.5	1.2	-	5.2	4.3	14.6	-	-	-	-	1.4
24	ANJAN	-	-	50.4	-	1.4	-	-	27.4	-	-	-	-	23.7	22.7	76.1	4.8	-	10.1	-	-	0.8	37.1	-	-	1.4
25	PM15105L	-	36	37.7	19	11.4	1.4	7.3	30.9	-	-	1.7	-	4.8	-	47.8	-	-	-	48.5	1.7	-	19.6	-	8.7	4.7
26	IMH1528	-	18.9	8.8	-	-	-	-	16.2	-	-	-	-	15.8	0.3	13.2	-	-	-	31.4	9.6	-	3.3	-	-	-
27	CMH12-678	-	17.3	20.8	9.8	9	-	-	0.8	3.2	-	-	-	-	13	74.1	-	-	-	-	18.4	-	-	3	-	-
28	NMH-3662	-	-	39.3	16.4	0.6	-	15.8	50	6.4	-	5.3	-	14.2	7.3	67.9	-	-	8.3	-	5.6	0.2	59.3	1.4	11.7	6.1
29	QMH-1025	1	8.8	29.4	9.3	10.6	5.9	5.4	29.8	-	-	-	-	28.4	-	46.1	3.5	-	-	25.1	18.9	-	33.2	22.3	16.1	5
30	OMH 14-27	-	12.6	41.1	16.8	14.7	25.2	13.1	43.8	33.1	-	8.3	5.7	36.8	22.6	66.4	6	-	15	53.1	30.9	8.5	40	-	25.9	15.8
31	QMH-1232	0	24.2	6	5.9	9	8	18.5	28.7	5.8	-	2.3	7.1	28.4	32.4	21.3	-	-	5.2	36.7	44.9	15.3	9.8	1.8	22	9.1

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324																								
		NWPZ											NEPZ							PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	IMH1527	-	15.6	22.5	32.2	9.6	2.8	4.7	41.7	21.7	-	2.9	-	62.6	22.1	67.4	-	-	17.3	30.5	4.5	-	2.7	8.8	6.7	10.2
33	DKC9163	-	5.3	29.7	39.3	16.4	-	18.7	37.9	12.8	5.2	16.3	18.2	33.3	3.3	86.5	49	20.3	31.7	11.2	11.5	-	20.1	-	5	18.9
34	JKMH 4444	-	-	-	5.6	-	-	12.4	44.8	-	-	-	3.2	7.8	4.8	79	24.8	7.8	18.2	49	-	-	20.2	-	3.4	3.2
35	IIMRNH 2015-10	-	26.3	3.1	12.4	7.4	22.9	17.4	10	-	-	-	3.7	5.8	11	72.7	-	-	-	47.3	9	-	-	-	8.6	2.4
36	QMH-1231	-	7.5	-	-	-	32.2	1.4	10.6	-	-	-	-	39.4	7.4	38.2	-	-	-	33.4	23.3	-	19.2	16.9	16.8	-
37	EH-2371	-	29.1	1.9	-	-	-	-	5.2	-	-	-	-	-	-	8.6	-	15	-	39.2	30.9	-	30.1	4.7	11.1	-
38	CCH 4039	-	22.3	-	11	4.5	42.4	17.2	28.7	4	-	0.9	-	39.3	29.4	56.5	-	-	10.6	41.8	0.7	-	5.5	7.4	3.7	5.5
39	IMH1524	-	20.2	-	-	-	-	-	-	-	-	-	-	38.9	-	60.5	-	-	-	3.1	-	-	10.4	-	-	-
40	PM15102L	-	48.1	-	37.9	15.5	-	20.6	-	-	-	-	4.8	36.3	11	23.3	-	14.3	6.2	46.8	44.4	-	0.1	4.3	15.8	8.4
41	KH-440	-	16.8	14.1	6.9	7.2	-	19.3	-	-	-	-	-	24.7	31.5	52.5	-	-	6.3	-	8.4	-	27.9	29.6	8.1	3
42	MAH-K14-2	-	17.1	-	10.9	-	-	-	25.7	-	-	-	-	2.3	2.1	50.2	8.7	-	1.9	19.1	-	-	4.5	25.6	-	-
43	VNR-31565	10.1	42.8	2.3	33.1	22.8	41.4	18	46	9.4	-	12.3	5.5	55.1	28.7	31.3	-	-	12	-	-	15.3	13.3	15.8	6.7	14.2
44	IIMRNH 2015-9	-	-	-	-	-	-	-	24.4	-	-	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-
45	PM15106L	-	42	11.1	-	10.9	1	-	32.7	-	-	-	-	-	-	11.1	-	-	-	41.9	4.8	-	-	-	-	-
46	SMH-3902	-	44.4	32.7	42.3	26.3	22	12.5	36.9	-	-	6	2.6	46.9	23.2	53	-	13.7	19.6	58.4	39.8	-	-	-	8.2	16.7
47	CMH12-688	1.4	16.3	5.5	10.6	8.4	-	15.4	-	7	-	1.1	4.8	34.4	23.6	79.5	12.5	-	21.2	-	29.3	2.9	-	-	-	8.4
48	DAS-MH-110	7.5	59.9	15.1	-	17.3	-	16.8	32.2	-	-	-	-	49.4	34.4	76.1	-	1.7	20.1	44.6	-	26.1	35.5	-	11.3	13.1
49	PM15104L	5.9	48.3	31.3	31.3	28.2	34.8	39.4	31.2	-	-	8.5	0.7	34.9	22	88.7	-	3.8	17.1	34.2	24.9	-	16.9	-	10.4	17.4
50	GH-1113	-	5.2	3.4	-	-	-	-	-	-	-	-	-	-	-	0.2	-	-	-	-	8.6	-	-	33.9	1.9	-
51	KNMH-4503	-	18.6	25.3	-	6.1	9.1	2.3	1	-	-	-	-	16	11.4	45.5	1.1	-	-	18	1.8	-	-	7.2	2.7	0.7
	CHECKS																									
52	PMH-1	10	20.1	-	27	14.1	35.2	35.7	15.1	0.5	-	1.4	-	32.7	33.1	73.4	-	-	10.3	36.5	32.2	23.5	-	-	12.4	10.1
53	PMH-3	-	25.3	1.8	19.6	7.7	24.8	22.6	4.2	6.3	-	-	0.5	16.4	12.8	68.9	-	-	5.2	17.2	2	18.4	31.5	23.7	18.6	7.1
54	Seedtech-2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	BIO-9681	-	41.1	-	-	-	-	-	19.5	-	-	-	-	38.9	9.4	39.8	8	-	2.1	4	20.8	1.5	14.5	-	1.2	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681																								
		NWPZ											NEPZ												PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRNH 2015-8	13.9	-	16.6	14.9	8.3	30.9	25	-	11	112.2	28.8	29.2	-	-	3.2	-	34.6	6.7	12.5	-	8.9	3.2	62.3	6	10.3
2	TMMH 840	8.8	4.2	26.3	48.2	18.8	3.7	22.8	-	20.5	68.1	21.5	-	-	-	3.6	1.2	45.8	4.2	-	-	-	9.3	79.4	-	9.3
3	BRM 12-1	5.8	-	25.5	20.7	4.5	-	31.7	-	6.9	103	26.7	-	0.6	15.6	21.6	-	12.7	2.7	14.8	-	-	-	62.4	-	4.7
4	SRIKAR 3555	50.9	-	24.6	46.1	19.2	-	19.3	-	50.4	110.5	34.6	10.2	4.1	13.5	24.6	-	54	18.3	11.4	-	-	34.8	42.3	8.5	18.9
5	BH 413053	-	-	25.5	5.1	-	-	1.9	-	35.8	78.4	21.5	-	-	16.3	10	-	-	-	-	15.7	-	-	21.4	-	-
6	CP.802	18.2	6.5	49	46.6	25.6	18.7	47.3	-	1.4	74.1	23.8	31.1	-	18.8	13.8	-	36.7	14.2	51.6	-	-	14.8	16	10.2	18.3
7	JH 13339	8.6	-	37.4	21.8	12.1	32.1	16	-	37.5	40.3	18.2	53.4	-	17.2	18.1	-	-	1.6	12.9	-	6.4	-	67	6.5	8.3
8	CP.804	28.2	-	22.1	45.2	8.9	-	-	10.1	67.2	84.1	30.6	7.7	3.8	24.4	17.2	-	44.7	16.5	7.3	-	-	19	38.6	4.6	13.8
9	JKMH 4153	22	-	45.4	48.5	19.2	0.6	44.8	-	-	63.4	22.8	19	-	6.9	27	-	12	0.1	-	-	-	-	19.2	-	7.5
10	Super-6030	-	-	47.9	-	0.4	-	-	-	-	-	-	-	-	-	18.7	-	-	-	-	-	-	-	71.8	-	-
11	GK3141	-	-	53.4	9.2	3.7	-	-	-	85.6	87.5	29.7	25.8	-	17.2	22.4	-	15.3	9.8	6.9	-	-	-	133.4	9.4	10.7
12	DAS-MH-111	9.8	1	44.3	30.6	17.4	9.4	30.7	-	27.3	133.3	33.1	6.7	20.1	22.2	13	22.4	36.6	20.9	-	-	0.4	17.5	69.2	1.9	17.6
13	IMHW1541	9.8	-	12.6	31.9	3.8	5.8	6.8	-	7.2	119.1	22.2	1.4	-	-	11.8	-	-	-	-	-	-	-	18.2	-	-
14	PM15101L	30.3	-	25.5	42.7	18.8	-	19.4	0.2	36.2	119.5	36.1	46.7	-	2	30.7	-	13.8	8.1	40.4	-	-	1.9	51.2	6.5	15.2
15	IMH1533	-	3.6	13.8	5.4	0	-	-	2.1	46.4	35.6	13.2	22.9	-	-	-	-	-	-	-	-	-	-	88.1	-	-
16	HT 515387	33.9	-	37.9	50.6	23.3	15.6	11.7	6.9	46.3	94.7	32.8	16.8	1.4	-	30.9	12.2	33.6	15.5	-	-	-	10.3	48	-	16.9
17	JH 13341	5.9	-	43.3	22.1	5.2	25.7	20.7	17.4	57.8	79	38	10.1	-	-	-	-	-	-	53.3	-	-	1.5	71.8	13.6	7.8
18	MFH-6-15	-	-	54.2	17	7	-	-	-	-	23.5	-	7.1	-	-	-	-	-	-	-	-	-	-	43.4	-	-
19	HM15310	32.1	-	34.4	-	5.8	11.7	34.2	-	75.1	111.2	46.5	60	-	24	-	20.3	21.7	13.8	26.1	20.7	-	5.9	32.5	13.5	16.1
20	CMH12-661	11	1.4	29	22.4	13.2	18.2	32.5	7	60.1	77	38.8	17.2	-	-	12.1	-	36.1	6.2	-	-	-	-	36.5	-	11.2
21	MAH-K14-4	-	-	51.3	13.8	8	-	1.3	2.2	-	53.8	6.7	-	-	-	-	-	5.6	-	-	-	-	-	60	-	-
22	IMH1530	8.3	-	33.7	22.9	5.1	13.6	-	22.4	-	32.6	11.5	-	-	-	-	-	11.8	-	0.1	-	-	-	61.5	-	0.1
23	DMRH1417	-	-	48.3	18.3	6.9	9.1	8.3	2.6	37.4	74.2	24.8	16.7	-	-	14	-	18.1	3.1	0.3	-	-	-	72.1	-	6.2
24	ANJAN	3.5	-	59.6	14	1.7	-	3.3	6.7	37.6	73.3	24.3	-	-	12.2	25.9	-	24	7.9	-	-	-	19.7	57	-	6.2
25	PM15105L	-	-	46.1	37.1	11.8	3.9	24.2	9.6	47.7	106.9	40.2	15.3	-	-	5.7	-	38.9	-	42.7	-	-	4.4	41.3	7.4	9.7
26	IMH1528	-	-	15.4	-	-	-	0.2	-	17	8.4	4.1	7.9	-	-	-	-	-	-	26.3	-	-	-	-	-	-
27	CMH12-678	20.5	-	28.1	26.5	9.4	-	6.1	-	55.5	41.9	16	10.7	-	3.3	24.5	-	-	-	-	-	-	-	82.8	-	3.4
28	NMH-3662	6.9	-	47.8	34	1	-	34.1	25.5	60.4	78.6	45.1	22.4	-	-	20.1	-	34.5	6.1	-	-	-	39	79.9	10.3	11.1
29	QMH-1025	30.6	-	37.3	25.9	11	8.5	22	8.7	29.9	84.7	31.6	23.3	-	-	4.5	-	-	-	20.3	-	-	16.3	117	14.7	9.9
30	OMH 14-27	26.2	-	49.7	34.6	15.1	28.2	30.9	20.4	100.6	73	49.2	31.7	-	12.1	19	-	19.1	12.6	47.2	8.4	6.8	22.2	64.3	24.3	21.2
31	QMH-1232	29.3	-	12.5	21.9	9.4	10.6	37.2	7.7	59.5	80.1	41	33.5	-	21.1	-	-	8.9	3.1	31.4	20	13.6	-	80.7	20.5	14.2

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681																								
		NWPZ											NEPZ						PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	IMH1527	-	-	30	52.3	10	5.3	21.3	18.6	83.4	70.1	41.8	13.1	17.1	11.6	19.7	-	33.3	14.9	25.5	-	-	-	93.2	5.4	15.4
33	DKC9163	27.3	-	37.6	60.5	16.8	-	37.4	15.5	70	158.3	60.3	47.3	-	-	33.4	38	68.2	29	6.9	-	-	4.9	40.9	3.7	24.5
34	JKMH 4444	1.8	-	3.5	21.6	-	-	30.2	21.2	43.4	50.7	34	28.6	-	-	28.1	15.5	50.7	15.8	43.3	-	-	4.9	46.5	2.1	8
35	IIMRNH 2015-10	15.4	-	9.3	29.5	7.7	25.9	35.9	-	41.6	66.3	29.8	29.2	-	1.5	23.5	-	-	-	41.6	-	-	-	71.4	7.3	7.2
36	QMH-1231	18.8	-	1.5	7.2	-	35.4	17.4	-	25.8	65.5	20.9	18.3	0.4	-	-	-	-	-	28.3	2.1	-	4	107.6	15.4	4.3
37	EH-2371	-	-	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	60.8	-	33.8	8.3	-	13.6	85.8	9.7	-
38	CCH 4039	12.3	-	4.9	27.8	4.8	45.8	35.7	7.7	56.7	75.2	39	14	0.3	18.3	11.9	-	27.8	8.3	36.3	-	-	-	90.6	2.5	10.5
39	IMH1524	-	-	-	8.5	-	0.2	12.1	-	1.1	12.5	-	18.9	-	-	14.8	-	-	-	-	-	-	-	63.6	-	-
40	PM15102L	3.4	5	3.4	58.8	15.9	-	39.6	-	-	119.3	28.7	30.6	-	1.5	-	-	59.8	4	41.1	19.5	-	-	85.1	14.4	13.5
41	KH-440	22	-	21	23.1	7.5	-	38.1	-	-	112.8	18.6	-	-	20.2	9.1	-	27.7	4.1	-	-	-	11.7	130.1	6.8	7.9
42	MAH-K14-2	-	-	1	27.7	-	-	3.6	5.2	41	79.7	25.8	1.5	-	-	7.4	0.6	22	-	14.5	-	-	-	123	-	2.1
43	VNR-31565	42.3	1.2	8.6	53.4	23.3	44.8	36.6	22.2	64.8	125.1	54.7	31.4	11.7	17.7	-	-	28.6	9.7	-	-	13.5	-	105.5	5.4	19.6
44	IIMRNH 2015-9	-	-	3.4	-	-	-	-	4.1	4.3	13.4	3.9	5.4	-	-	-	-	-	-	-	-	-	-	58	-	-
45	PM15106L	19.9	0.7	17.9	15	11.3	3.4	-	11	25	96.3	23.7	-	-	-	-	-	19.6	-	36.4	-	-	-	19.4	-	-
46	SMH-3902	20	2.3	40.8	63.9	26.8	24.9	30.2	14.6	22.3	145.4	46.1	27.8	5.8	12.7	9.4	-	59	17.1	52.2	15.7	-	-	44.2	6.8	22.2
47	CMH12-688	31.1	-	11.9	27.4	8.8	-	33.5	-	61.3	117.9	39.4	30.6	-	13	28.4	4.2	39.7	18.7	-	7	1.3	-	3.3	-	13.5
48	DAS-MH-110	39	13.4	22.1	-	17.7	-	35.2	10.6	15.4	85	33.7	7.5	7.6	22.9	25.9	-	42.1	17.6	39	-	24.2	18.3	10.6	10	18.4
49	PM15104L	36.8	5.1	39.3	51.2	28.6	38.1	61.4	9.9	25.4	115.5	49.5	25.5	-	11.6	35	-	45.1	14.6	29	3.4	-	2	40	9.1	22.9
50	GH-1113	-	-	9.7	-	-	-	-	-	25.6	14	-	-	-	-	-	-	-	-	-	-	-	-	137.7	0.6	-
51	KNMH-4503	21.3	-	33	6.6	6.5	11.8	18.5	-	28.2	130.3	31.7	5.3	-	1.9	4.1	-	-	-	13.4	-	-	-	90.2	1.5	5.5
	CHECKS																									
52	PMH-1	42.2	-	1.5	46.3	14.5	38.5	57.1	-	51.4	66.5	39.8	20.3	-	21.7	24	-	12.6	8	31.3	9.4	21.6	-	6.7	11	15.3
53	PMH-3	11.4	-	8	37.8	8.1	27.8	42	-	60.1	71.1	34.8	25.2	-	3.1	20.8	-	12.2	3	12.7	-	16.6	14.8	119.6	17.1	12.2
54	Seedtech-2324	29.3	-	6.1	15.2	0.4	2.4	15.8	-	50.7	145.5	37.8	24.6	-	-	-	-	39.8	-	-	-	-	-	77.5	-	4.7
55	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 28.0 %

Table No. 1 (Continued)

		GRAIN SHELLING %																							
						NWPZ						NEPZ						PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	82.1	83.0	76.0	83.0	81.0	74.5	80.9	77.4	72.0	75.2	76.0	82.4	79.4	79.8	78.6	78.6	79.8	82.3	77.1	73.0	76.5	84.3	78.6	78.7
2	TMMH 840	84.8	82.4	77.3	85.4	82.5	70.5	82.8	80.0	72.0	73.4	75.7	82.8	82.2	81.6	77.9	80.7	81.0	81.7	76.8	79.9	79.8	85.9	80.8	79.9
3	BRM 12-1	82.3	83.3	75.3	82.6	80.9	73.0	82.1	76.4	74.0	75.6	76.2	82.4	80.0	79.9	75.2	80.0	79.5	81.8	77.5	78.9	75.7	83.2	79.4	78.9
4	SRIKAR 3555	82.5	81.4	74.0	82.1	80.0	75.0	81.6	80.4	74.0	76.5	77.5	79.7	79.5	80.4	75.9	79.8	79.0	81.8	73.8	78.0	79.4	85.1	79.6	79.0
5	BH 413053	84.4	81.5	75.3	85.4	81.6	74.5	84.5	79.0	74.0	76.1	77.6	85.2	83.2	81.1	75.3	79.8	80.9	82.0	76.2	76.5	79.1	84.1	79.6	79.8
6	CP.802	85.7	83.7	77.0	87.4	83.4	79.0	85.9	80.2	76.5	77.5	79.8	83.4	82.3	80.3	79.3	82.7	81.6	83.0	75.4	85.8	77.9	68.1	78.0	80.6
7	JH 13339	79.0	80.8	77.7	80.0	79.4	79.0	83.4	80.5	71.0	74.2	77.6	73.8	78.5	80.1	72.6	76.4	76.3	83.0	76.3	77.6	77.1	81.1	79.0	78.0
8	CP.804	84.1	81.9	73.3	80.8	80.0	66.0	79.5	76.6	73.5	75.6	74.2	82.9	78.5	82.0	77.0	84.6	81.0	83.0	75.4	87.4	79.6	85.0	82.1	79.3
9	JKMH 4153	86.6	83.7	74.3	86.3	82.7	78.0	86.1	76.6	75.0	75.9	78.3	85.5	78.1	82.3	79.1	83.3	81.6	82.8	71.8	80.8	77.2	86.3	79.8	80.5
10	Super-6030	81.9	83.9	75.0	82.8	80.9	75.0	84.0	81.9	74.0	70.1	77.0	76.1	79.9	81.1	72.0	79.3	77.7	82.9	71.1	81.4	76.8	85.5	79.5	78.7
11	GK3141	84.5	79.6	73.3	81.4	79.7	76.5	82.9	80.8	72.0	73.9	77.2	82.6	79.0	80.6	74.0	82.6	79.8	82.6	77.8	87.3	76.7	87.1	82.3	79.7
12	DAS-MH-111	80.9	78.2	74.3	86.3	79.9	81.5	81.3	76.4	75.0	79.9	78.8	81.8	79.6	81.0	78.2	80.1	80.1	83.1	77.8	89.7	75.0	83.1	81.8	80.2
13	IMHW1541	82.2	79.9	71.7	85.0	79.7	73.0	81.5	80.0	77.0	76.4	77.6	78.6	77.3	81.0	73.2	81.0	78.2	82.8	76.8	81.1	75.2	85.2	80.2	78.9
14	PM15101L	82.4	82.0	74.3	84.2	80.7	80.0	81.7	80.8	73.0	73.8	77.9	81.4	81.9	83.3	74.7	83.7	81.0	83.0	74.2	80.6	75.5	85.0	79.7	79.8
15	IMH1533	84.8	81.3	72.0	87.4	81.4	73.0	82.1	82.2	80.5	74.1	78.4	85.7	85.7	78.9	75.1	81.9	81.4	83.1	72.8	77.7	79.5	86.5	79.9	80.2
16	HT 515387	85.5	80.7	75.0	89.4	82.6	74.5	82.0	81.1	80.0	79.3	79.4	83.8	80.1	81.2	79.9	83.3	81.6	82.7	75.9	87.2	78.1	83.5	81.5	81.2
17	JH 13341	83.5	80.6	71.7	87.1	80.7	80.0	85.2	84.5	79.5	77.4	81.3	83.6	84.1	82.0	77.0	81.0	81.5	83.0	77.7	83.6	80.8	80.0	81.0	81.2
18	MFH-6-15	82.0	82.6	74.7	88.8	82.0	79.0	82.9	77.6	73.0	70.5	76.6	81.6	81.6	80.1	75.3	80.0	79.7	82.7	70.0	82.6	77.2	85.3	79.5	79.3
19	HM15310	86.8	82.8	75.7	80.8	81.5	78.0	84.2	83.7	77.5	76.9	80.0	81.3	81.8	78.5	79.2	83.0	80.7	82.5	77.4	85.0	77.6	80.7	80.6	80.7
20	CMH12-661	81.4	83.9	76.0	81.3	80.6	64.0	82.3	82.7	72.5	77.1	75.7	78.2	78.0	79.9	72.5	79.8	77.7	82.6	74.8	81.5	76.6	82.6	79.6	78.3
21	MAH-K14-4	83.1	83.1	77.0	82.6	81.4	75.0	82.2	78.0	71.5	72.6	75.9	79.5	82.8	83.1	76.6	80.1	80.4	82.7	72.4	82.2	74.3	81.4	78.6	78.9
22	IMH1530	86.9	79.9	76.7	86.8	82.6	68.5	82.3	83.7	79.0	69.5	76.6	79.3	82.4	83.1	78.0	83.1	81.2	83.1	76.3	83.1	81.4	79.2	80.6	80.1
23	DMRH1417	83.1	79.4	75.7	88.3	81.6	73.0	80.6	78.1	74.5	79.0	77.0	83.1	80.5	82.1	76.4	82.2	80.9	82.5	76.0	83.9	76.8	86.0	81.0	80.1
24	ANJAN	84.8	83.1	77.3	88.6	83.4	78.0	81.4	80.8	77.0	75.9	78.6	84.7	79.4	81.8	78.5	79.9	80.9	83.3	71.0	85.9	78.5	85.8	80.9	80.8
25	PM15105L	85.0	83.1	76.7	89.0	83.4	77.0	85.0	81.4	76.0	76.6	79.2	82.3	81.5	80.8	73.3	83.2	80.2	82.5	74.2	86.2	81.8	79.0	80.7	80.8
26	IMH1528	85.7	82.2	73.0	87.8	82.2	77.0	82.0	78.1	77.5	68.1	76.5	82.1	82.0	80.3	77.6	83.0	81.0	83.1	75.5	82.2	79.1	86.5	81.3	80.1
27	CMH12-678	80.7	83.3	74.7	83.7	80.6	67.5	81.7	76.1	73.5	76.6	75.1	80.0	80.8	82.1	77.0	79.9	79.9	83.1	76.1	81.5	78.2	83.2	80.4	78.9
28	NMH-3662	87.0	82.2	74.3	87.4	82.7	70.5	83.6	84.3	72.0	74.6	77.0	79.3	81.6	77.6	78.4	83.4	80.0	83.3	75.6	87.0	77.0	85.3	81.6	80.2
29	QMH-1025	83.3	82.7	75.3	84.6	81.5	74.5	82.3	80.8	72.5	75.7	77.2	81.6	80.0	82.5	75.8	81.6	80.3	83.1	76.6	81.1	77.9	86.4	81.0	79.9
30	OMH 14-27	82.8	80.8	76.7	87.2	81.9	77.0	83.5	84.3	74.5	75.3	78.9	64.8	81.3	81.2	79.7	81.9	77.8	83.1	77.9	85.0	77.7	85.7	81.9	80.0
31	QMH-1232	83.8	83.3	74.7	82.2	81.0	77.5	81.0	81.2	73.0	76.8	77.9	76.6	76.6	80.8	74.0	78.6	77.3	83.0	78.4	78.9	76.6	83.5	80.1	79.0

Table No. 1 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %																							
						NWPZ						NEPZ						PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	84.8	81.6	74.3	86.9	81.9	73.5	84.1	82.5	78.0	76.8	79.0	81.7	83.4	82.8	74.7	83.0	81.1	83.1	75.8	85.2	77.2	82.8	80.8	80.6
33	DKC9163	84.5	80.9	75.7	89.2	82.6	70.5	83.4	80.4	76.5	79.7	78.1	80.0	81.5	79.9	76.3	83.3	80.2	83.1	77.1	87.0	76.8	80.7	80.9	80.3
34	JKMH 4444	83.1	80.9	74.7	84.9	80.9	84.5	81.3	82.8	74.5	74.8	79.6	84.6	82.6	80.3	80.3	82.5	82.1	83.1	75.2	83.9	78.7	83.7	80.9	80.9
35	IIMRNH 2015-10	83.7	79.6	76.3	85.0	81.2	80.0	81.3	79.0	76.5	74.7	78.3	78.3	79.5	82.3	75.2	80.9	79.2	83.1	74.4	83.8	67.6	80.4	77.8	79.0
36	QMH-1231	81.2	81.6	76.7	81.2	80.2	79.0	81.8	80.5	75.0	75.0	78.3	78.3	80.3	77.6	77.9	79.4	78.7	83.2	77.4	85.3	79.0	81.9	81.3	79.6
37	EH-2371	79.8	79.1	74.7	85.2	79.7	77.5	-	76.3	73.0	69.3	74.0	76.6	80.9	80.6	71.5	80.8	78.0	83.0	73.8	80.8	76.8	83.1	79.5	77.9
38	CCH 4039	83.6	81.5	75.7	81.6	80.6	81.5	83.2	82.5	75.5	74.6	79.4	75.6	83.1	80.2	76.8	82.8	79.7	83.4	77.0	83.4	79.2	85.6	81.7	80.3
39	IMH1524	83.5	83.9	73.0	83.1	80.9	79.0	80.9	76.8	76.0	70.1	76.5	80.0	77.1	80.4	75.5	82.6	79.1	82.8	74.0	81.1	76.2	87.1	80.2	79.1
40	PM15102L	86.1	82.0	73.3	86.5	82.0	73.0	84.0	78.8	75.5	78.3	77.9	76.4	78.3	78.3	73.5	80.9	77.5	82.9	78.1	81.1	76.6	85.3	80.8	79.4
41	KH-440	83.3	83.4	74.0	82.1	80.7	77.0	84.4	76.7	71.5	74.6	76.8	83.1	80.0	82.3	74.7	80.0	80.0	82.8	76.2	79.5	76.9	82.6	79.6	79.2
42	MAH-K14-2	79.0	82.3	76.3	83.3	80.2	68.5	82.3	80.4	71.5	75.7	75.7	81.1	78.9	78.8	74.6	81.8	79.0	82.9	71.1	84.2	74.6	82.4	79.0	78.4
43	VNR-31565	85.5	83.5	75.0	89.2	83.3	81.5	87.2	82.5	73.5	77.1	80.3	81.6	82.8	80.8	77.3	82.0	80.9	82.8	73.4	88.2	77.8	86.1	81.6	81.4
44	IIMRNH 2015-9	84.4	83.8	74.3	84.0	81.6	75.5	81.6	82.0	76.0	71.3	77.3	83.8	81.9	82.8	72.4	83.0	80.8	82.8	69.3	80.3	74.6	77.4	76.9	79.0
45	PM15106L	87.1	83.8	72.0	84.7	81.9	78.5	82.9	80.2	77.5	77.4	79.3	77.5	82.1	84.1	73.5	83.8	80.2	82.7	73.6	82.0	79.9	87.2	81.1	80.5
46	SMH-3902	85.1	81.6	76.0	84.1	81.7	74.5	81.1	84.0	71.0	79.3	78.0	77.6	84.1	80.6	78.1	83.5	80.8	82.4	78.0	86.6	76.2	80.2	80.7	80.2
47	CMH12-688	81.3	80.6	75.0	82.2	79.8	70.0	83.1	79.8	75.0	78.1	77.2	78.8	80.9	79.6	76.8	79.1	79.0	83.2	79.5	85.0	76.1	80.0	80.7	79.2
48	DAS-MH-110	84.1	82.4	73.0	86.9	81.6	70.5	82.4	80.7	73.0	74.4	76.2	82.6	79.5	79.8	76.0	81.8	79.9	83.1	68.1	84.1	76.8	82.0	78.8	79.0
49	PM15104L	76.9	82.9	77.0	82.9	79.9	74.0	85.1	80.5	71.5	75.5	77.3	76.7	80.0	81.8	72.6	79.6	78.1	82.7	79.5	79.3	75.3	82.5	79.8	78.7
50	GH-1113	84.4	82.0	70.0	87.9	81.1	79.0	80.8	77.7	79.5	76.0	78.6	78.6	80.3	80.9	76.8	83.4	80.0	82.5	71.8	78.8	78.1	75.1	77.3	79.1
51	KNMH-4503	85.0	82.5	78.0	81.3	81.7	70.5	83.6	78.6	75.0	78.7	77.3	81.7	77.6	81.1	76.1	80.3	79.3	83.0	74.9	82.8	75.7	84.6	80.2	79.5
	CHECKS																								
52	PMH-1	85.1	80.4	76.7	85.9	82.0	77.5	83.0	78.1	73.0	77.0	77.7	79.4	80.4	80.8	74.0	80.1	78.9	83.2	78.3	79.4	76.9	82.2	80.0	79.5
53	PMH-3	84.3	83.3	74.7	86.7	82.2	77.5	83.7	81.4	72.5	75.1	78.0	82.5	82.0	81.0	75.9	79.1	80.1	83.1	78.1	88.6	80.8	84.7	83.0	80.8
54	Seedtech-2324	86.6	82.2	75.7	85.4	82.5	78.0	83.4	80.7	76.5	82.0	80.1	78.8	80.8	79.0	75.1	83.7	79.5	82.8	76.7	82.5	75.3	88.2	81.1	80.7
55	BIO-9681	88.0	84.0	73.0	83.5	82.1	81.5	81.9	80.5	75.5	69.8	77.8	85.2	81.8	81.8	76.1	83.3	81.6	83.0	75.4	86.4	78.5	87.3	82.1	80.9
	Loc. Mean	**83.7**	**82.0**	**74.9**	**84.9**	**81.4**	**75.5**	**82.8**	**80.2**	**74.7**	**75.3**	**77.7**	**80.5**	**80.7**	**80.9**	**76.0**	**81.4**	**79.9**	**82.8**	**75.3**	**82.8**	**77.3**	**83.3**	**80.3**	**79.7**
	C.D. (5%)	1.71	0.30	1.77	2.73	2.82	7.43	1.29	-	3.48	1.83	3.48	2.95	1.67	1.01	2.44	0.86	2.62	0.71	3.57	5.29	3.93	2.10	3.26	1.54
	C.V. (%)	1.26	0.22	1.46	1.99	2.49	6.08	0.96	-	2.32	1.50	3.59	2.26	1.28	0.77	1.98	0.65	2.63	0.53	2.93	3.95	3.14	1.56	3.25	3.04
	F (Prob)	0.00	0.00	0.00	0.00	0.29	0.00	0.00	-	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00

Table No. 1 (Continued)

		MOISTURE % AT HARVEST																							
						NWPZ						NEPZ							PZ					PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	GODH	Mean	Mean
1	IIMRNH 2015-8	32.6	25.5	14.3	18.8	22.8	18.1	27.9	18.2	30.9	25.0	24.0	21.8	23.5	13.7	18.5	14.4	20.3	18.7	22.2	17.4	19.1	15.3	18.5	20.9
2	TMMH 840	33.0	21.8	15.0	18.2	22.0	16.7	26.9	20.1	31.2	25.0	24.0	20.6	22.3	15.0	16.3	15.4	21.8	18.5	22.2	17.6	14.8	14.7	17.3	20.4
3	BRM 12-1	33.0	24.5	15.7	16.3	22.3	16.8	27.0	19.1	27.7	24.2	23.0	18.8	18.1	15.1	16.8	14.7	20.7	17.3	22.7	18.0	16.7	15.3	18.2	20.0
4	SRIKAR 3555	29.0	21.2	15.7	18.4	21.1	12.9	27.9	18.7	28.8	24.0	22.4	18.5	22.5	14.6	17.3	15.1	20.9	18.1	22.5	17.6	14.6	16.6	17.8	19.8
5	BH 413053	28.6	21.7	15.7	16.8	20.7	16.0	26.2	18.6	26.4	22.2	21.9	18.2	18.6	10.6	16.5	15.2	22.0	16.8	22.3	16.9	13.1	16.4	17.1	19.0
6	CP.802	33.0	23.1	16.7	18.4	22.8	19.5	27.9	19.6	34.9	25.8	25.5	21.2	23.5	11.6	18.5	15.2	25.3	19.2	22.5	17.8	17.2	14.6	18.0	21.4
7	JH 13339	30.6	22.0	14.7	18.0	21.3	14.9	27.4	19.3	27.2	24.1	22.6	18.4	16.6	18.1	17.9	14.6	19.7	17.5	22.7	17.7	17.8	15.7	18.5	19.8
8	CP.804	27.2	22.4	13.3	18.7	20.4	17.2	26.5	18.9	30.7	24.1	23.5	19.2	23.7	13.0	17.8	15.3	23.2	18.7	22.5	17.7	17.4	16.5	18.5	20.3
9	JKMH 4153	30.2	22.0	15.0	19.0	21.5	17.3	29.0	20.0	34.4	23.9	24.9	18.0	18.8	14.0	17.3	15.1	24.5	17.9	22.3	17.5	18.6	15.1	18.4	20.6
10	Super-6030	31.4	24.2	12.7	17.9	21.5	18.3	26.5	19.1	28.6	22.9	23.1	22.0	21.0	11.8	18.1	15.8	20.3	18.1	22.4	17.1	18.8	14.5	18.2	20.2
11	GK3141	26.7	24.3	14.0	18.2	20.8	16.4	26.7	19.6	29.8	25.0	23.5	20.4	21.0	11.8	18.2	15.0	23.2	18.3	22.5	17.6	15.9	16.0	18.0	20.1
12	DAS-MH-111	31.9	21.3	16.0	20.7	22.5	16.2	26.8	19.0	31.1	24.0	23.4	20.0	22.0	16.0	18.1	14.7	25.2	19.3	22.4	17.2	17.8	15.7	18.2	20.8
13	IMHW1541	28.1	24.3	16.3	16.7	21.3	17.7	27.4	19.3	29.3	25.0	23.7	18.0	14.7	12.8	16.4	15.2	21.0	16.3	22.4	17.9	16.6	15.5	18.1	19.7
14	PM15101L	29.2	22.3	16.3	18.7	21.6	18.2	27.9	19.7	33.1	25.1	24.8	21.6	20.6	13.0	18.3	15.5	22.6	18.6	23.0	18.1	15.5	14.7	17.8	20.7
15	IMH1533	25.0	22.5	16.3	18.4	20.5	15.8	27.7	19.6	27.1	22.9	22.6	17.8	16.3	14.1	17.1	14.8	23.1	17.2	22.9	16.9	13.5	13.6	16.7	19.2
16	HT 515387	29.1	22.0	14.0	18.7	20.9	17.6	26.8	18.4	33.7	24.0	24.1	20.5	23.9	15.1	18.3	16.2	23.3	19.5	22.6	17.9	17.1	15.8	18.3	20.8
17	JH 13341	30.8	22.9	14.3	17.3	21.3	18.8	28.2	19.0	30.5	25.8	24.4	19.2	20.6	13.4	16.3	14.9	22.8	17.8	22.6	18.2	18.0	16.6	18.8	20.5
18	MFH-6-15	28.9	22.2	14.3	19.8	21.3	16.5	26.3	19.3	31.3	24.7	23.6	20.0	19.9	15.2	17.5	15.0	22.0	18.3	22.7	17.4	15.3	16.6	18.0	20.2
19	HM15310	26.7	22.0	14.3	18.5	20.4	17.3	27.5	19.5	29.0	24.2	23.5	20.4	24.8	13.2	18.1	15.6	23.4	19.2	22.7	17.8	16.0	17.5	18.5	20.4
20	CMH12-661	27.9	22.2	16.3	19.0	21.3	13.2	26.9	18.5	30.6	26.8	23.2	19.8	23.5	13.7	17.7	15.4	22.2	18.7	22.6	17.6	18.6	15.3	18.5	20.4
21	MAH-K14-4	23.8	22.7	15.0	16.5	19.5	16.7	27.3	19.6	23.4	24.7	22.3	16.4	13.1	12.8	16.1	15.4	22.8	16.1	22.7	17.1	17.1	17.1	18.5	18.9
22	IMH1530	30.8	21.9	16.3	16.8	21.5	15.6	26.5	19.4	28.5	23.2	22.6	18.7	16.5	14.2	16.0	16.0	19.8	16.8	22.5	17.5	14.0	14.0	17.0	19.4
23	DMRH1417	27.1	23.6	14.0	16.4	20.3	17.5	27.7	18.7	30.7	23.9	23.7	18.7	20.7	16.1	15.9	15.8	20.5	17.9	22.4	17.7	15.3	15.4	17.7	19.9
24	ANJAN	23.7	22.5	14.3	18.0	19.6	15.5	27.3	18.3	27.1	24.2	22.5	16.3	18.6	14.4	17.5	15.6	21.1	17.2	22.7	17.1	13.7	17.0	17.6	19.2
25	PM15105L	33.0	23.7	14.3	17.7	22.2	17.2	28.0	19.5	32.7	24.9	24.5	18.6	22.5	16.1	16.7	15.5	22.3	18.6	22.3	17.4	14.7	15.5	17.4	20.7
26	IMH1528	24.9	21.8	14.3	18.0	19.7	16.4	25.7	19.4	30.2	22.9	22.9	21.0	21.9	14.6	16.9	14.1	22.8	18.5	21.9	17.6	13.9	16.5	17.5	19.7
27	CMH12-678	30.7	22.2	16.3	17.5	21.7	16.4	28.1	18.5	29.1	26.0	23.6	18.5	19.5	18.1	17.5	14.1	23.9	18.6	22.4	17.2	16.1	15.8	17.9	20.4
28	NMH-3662	32.4	24.1	14.0	18.7	22.3	17.9	27.7	19.2	32.8	23.8	24.3	17.1	20.4	14.6	17.8	15.1	21.5	17.7	22.2	17.5	16.5	15.7	17.9	20.5
29	QMH-1025	26.4	23.8	14.3	17.5	20.5	16.4	28.1	19.6	26.4	24.9	23.1	19.2	19.1	14.1	17.5	15.4	20.4	17.6	22.3	16.9	16.5	16.1	17.9	19.7
30	OMH 14-27	25.5	23.9	14.3	19.3	20.7	13.3	27.6	18.1	29.8	24.7	22.7	18.9	23.7	14.6	16.6	14.8	21.1	18.3	22.5	18.0	18.2	15.7	18.6	20.0
31	QMH-1232	25.7	23.5	14.3	17.5	20.2	15.7	28.5	18.6	28.4	24.8	23.2	19.0	20.1	15.9	17.1	15.1	19.6	17.8	22.8	17.7	18.3	16.3	18.8	19.9
32	IMH1527	27.8	22.8	15.7	18.8	21.3	16.7	26.9	19.5	32.4	24.8	24.1	21.6	23.1	12.6	17.7	15.8	23.1	19.0	23.0	17.2	16.1	16.5	18.2	20.6
33	DKC9163	31.6	21.8	16.7	19.8	22.4	14.8	26.9	18.3	33.1	27.7	24.1	21.5	23.7	15.9	18.6	15.1	25.0	19.9	22.3	18.0	18.7	16.7	18.9	21.3

Table No. 1 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST																							
						NWPZ						NEPZ							PZ					PZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	GODH	Mean	Mean
34	JKMH 4444	27.3	23.1	16.7	17.7	21.2	16.0	27.5	19.3	32.5	23.0	23.6	20.9	22.3	14.7	17.7	14.9	21.7	18.7	22.5	17.6	13.4	16.9	17.6	20.3
35	IIMRNH 2015-10	30.7	22.6	14.3	17.7	21.3	16.2	27.8	19.4	33.2	25.0	24.3	21.6	22.4	12.3	18.0	15.4	23.2	18.8	22.4	17.3	17.6	15.3	18.1	20.6
36	QMH-1231	25.9	22.8	15.0	16.7	20.1	16.1	26.5	17.2	30.2	23.9	22.7	17.5	15.9	12.6	16.1	14.3	21.1	16.2	22.6	18.1	17.2	15.6	18.3	19.2
37	EH-2371	28.1	22.8	15.7	18.8	21.4	17.8	-	19.4	28.0	22.9	22.0	19.7	18.8	13.4	17.5	14.3	21.0	17.4	22.5	17.5	18.0	15.0	18.2	19.5
38	CCH 4039	29.4	23.0	17.0	18.5	22.0	17.7	27.7	19.9	32.0	23.0	24.0	21.1	21.5	15.3	17.7	13.6	21.4	18.4	22.5	17.5	14.6	14.8	17.3	20.4
39	IMH1524	25.5	21.0	17.0	18.7	20.6	16.4	27.8	19.3	32.4	23.0	23.8	20.4	23.0	17.2	17.5	15.1	21.3	19.1	22.2	17.5	15.8	14.0	17.3	20.2
40	PM15102L	30.8	25.0	15.7	17.9	22.3	16.7	28.0	19.9	32.3	23.1	24.0	21.8	26.0	14.2	17.5	15.5	24.3	19.9	22.5	17.4	18.5	16.1	18.6	21.2
41	KH-440	30.6	21.8	17.7	18.3	22.1	18.5	27.4	19.3	32.3	24.9	24.5	21.0	21.0	13.9	17.9	14.3	24.1	18.7	22.5	17.1	17.8	14.1	17.9	20.7
42	MAH-K14-2	30.5	22.7	15.0	17.4	21.4	17.3	28.0	18.3	29.2	24.9	23.5	20.4	14.6	13.3	17.4	13.5	21.9	16.8	22.7	17.2	18.0	16.2	18.5	19.9
43	VNR-31565	28.1	24.3	15.7	19.3	21.8	18.9	26.9	19.0	30.9	23.1	23.8	20.1	21.8	13.7	18.0	15.0	22.1	18.4	22.8	17.5	19.2	15.6	18.8	20.6
44	IIMRNH 2015-9	23.6	22.2	16.7	16.2	19.7	17.1	26.8	17.8	27.0	23.1	22.3	15.1	16.9	12.5	16.0	14.4	17.3	15.3	22.8	17.1	14.9	15.1	17.5	18.5
45	PM15106L	26.3	22.6	16.7	18.4	21.0	16.3	27.8	18.6	32.7	23.9	23.9	20.2	16.1	13.7	16.7	14.2	22.2	17.2	22.8	17.5	14.7	15.9	17.7	19.8
46	SMH-3902	33.0	21.6	18.3	17.3	22.6	16.7	27.0	19.8	31.8	27.0	24.4	18.2	19.2	12.8	16.9	14.3	22.8	17.3	22.6	17.9	16.4	15.6	18.1	20.5
47	CMH12-688	28.6	23.3	16.7	18.8	21.8	15.7	26.9	18.9	31.0	24.9	23.5	22.5	21.3	12.7	17.6	16.2	21.9	18.7	22.5	17.8	19.0	16.3	18.9	20.6
48	DAS-MH-110	29.3	21.7	16.7	18.8	21.6	17.8	27.9	19.4	33.3	23.1	24.3	17.9	23.4	14.6	18.9	14.2	23.1	18.7	22.8	16.8	19.6	16.0	18.8	20.8
49	PM15104L	27.7	22.4	18.7	19.2	22.0	17.2	28.4	19.1	32.4	24.9	24.4	17.9	18.9	13.7	18.2	15.2	24.0	18.0	22.8	17.9	14.3	14.4	17.3	20.4
50	GH-1113	24.8	22.9	16.0	16.4	20.0	16.1	26.4	18.4	27.2	23.1	22.2	16.9	14.2	11.5	16.5	14.8	19.1	15.5	23.0	17.1	14.7	16.0	17.7	18.7
51	KNMH-4503	26.7	22.9	17.3	17.9	21.2	16.5	28.2	19.3	31.6	25.1	24.1	20.4	20.4	12.0	17.4	13.7	21.0	17.5	22.3	17.7	16.6	15.5	18.0	20.1
	CHECKS																								
52	PMH-1	27.4	23.3	15.0	18.0	20.9	13.4	28.5	19.4	30.6	24.9	23.3	20.3	21.3	12.5	17.3	13.9	22.3	17.9	22.5	18.3	18.4	15.6	18.7	20.1
53	PMH-3	27.9	21.8	15.7	17.9	20.8	17.6	28.3	19.6	29.8	26.0	24.2	21.2	23.3	14.7	18.5	15.2	23.0	19.3	22.8	17.4	17.3	16.0	18.4	20.7
54	Seedtech-2324	28.7	25.1	16.0	18.9	22.2	14.4	27.7	18.7	28.6	25.1	22.9	21.1	18.8	13.4	18.1	15.7	22.8	18.3	22.3	17.9	18.2	13.3	17.9	20.2
55	BIO-9681	26.3	22.1	17.0	17.2	20.6	15.1	26.9	19.6	29.2	23.3	22.8	19.6	17.8	16.0	16.0	14.9	18.5	17.1	22.4	17.8	13.4	15.8	17.4	19.4
	Loc. Mean	**28.6**	**22.8**	**15.6**	**18.1**	**21.3**	**16.5**	**27.4**	**19.1**	**30.3**	**24.4**	**23.5**	**19.5**	**20.3**	**14.0**	**17.4**	**14.9**	**22.0**	**18.0**	**22.5**	**17.5**	**16.5**	**15.6**	**18.0**	**20.1**
	C.D. (5%)	2.31	0.32	1.45	1.24	2.25	2.04	1.11	0.00	3.80	0.71	1.65	1.39	1.97	2.63	0.57	1.05	0.78	1.73	0.53	0.53	2.56	0.62	1.42	0.90
	C.V. (%)	5.00	0.87	5.78	4.23	7.60	7.62	2.47	0.00	6.25	1.81	5.64	4.39	5.99	11.62	2.01	4.35	2.20	8.45	1.44	1.87	9.58	2.44	5.66	7.00
	F (Prob)	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.40	0.00

Table No. 1 (Continued)

		STAND AT HARVEST ('000/ha)																								
						NWPZ						NEPZ							PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	73.6	58.9	79.2	55.0	66.7	60.6	63.7	62.5	62.5	65.3	62.9	56.1	49.4	56.9	63.7	56.3	66.7	58.2	63.9	59.0	63.9	72.2	77.8	67.4	63.4
2	TMMH 840	80.6	59.4	77.1	56.7	68.4	72.2	63.1	63.2	68.8	67.4	66.9	59.4	57.8	70.1	65.5	57.6	66.7	62.9	63.2	59.7	61.7	76.1	79.2	68.0	66.3
3	BRM 12-1	84.0	61.1	76.4	56.7	69.5	59.4	58.9	61.8	65.6	79.2	65.0	57.8	61.1	63.9	67.3	47.2	66.0	60.5	63.9	57.6	63.3	66.7	75.0	65.3	64.6
4	SRIKAR 3555	86.8	58.9	80.6	56.7	70.7	59.4	60.7	61.1	66.7	71.5	63.9	54.4	63.3	62.5	60.1	59.0	66.7	61.0	63.2	65.3	58.3	84.4	81.9	70.6	66.1
5	BH 413053	79.2	60.0	76.4	56.7	68.1	66.1	59.5	62.5	65.6	77.1	66.2	56.1	58.3	72.2	60.7	50.0	65.3	60.4	63.2	61.8	55.6	60.6	79.2	64.1	64.3
6	CP.802	81.9	59.4	71.5	54.4	66.8	69.4	67.3	58.3	69.8	64.6	65.9	60.6	61.1	74.3	63.7	58.3	66.7	64.1	63.2	56.3	57.8	77.2	81.9	67.3	65.9
7	JH 13339	84.7	58.9	75.0	56.7	68.8	61.7	63.7	58.3	61.5	63.9	61.8	60.6	62.8	73.6	65.5	45.1	65.3	62.1	63.2	59.0	60.0	64.4	79.2	65.2	64.1
8	CP.804	85.4	57.8	79.2	56.7	69.8	69.4	63.7	62.5	63.5	66.7	65.2	57.2	64.4	77.1	66.1	55.6	65.3	64.3	63.2	61.8	57.2	75.6	81.9	67.9	66.5
9	JKMH 4153	79.9	61.7	75.0	56.7	68.3	60.0	60.1	62.5	62.5	63.2	61.7	47.8	56.1	69.4	60.7	47.9	66.0	58.0	63.9	58.3	55.0	66.7	80.6	64.9	62.7
10	Super-6030	67.4	60.0	75.7	55.0	64.5	63.9	57.7	55.6	54.2	63.9	59.0	55.0	47.2	68.8	64.3	41.7	66.0	57.1	63.9	61.1	47.2	56.7	72.2	60.2	59.9
11	GK3141	72.9	58.9	77.8	54.4	66.0	63.9	61.9	61.8	64.6	67.4	63.9	63.3	64.4	66.7	68.5	56.9	66.7	64.4	63.2	55.6	66.1	67.8	81.9	66.9	65.2
12	DAS-MH-111	80.6	61.1	79.9	56.7	69.5	67.2	69.6	56.3	71.9	68.1	66.6	61.1	63.3	81.3	69.0	62.5	66.7	67.3	63.9	62.5	63.3	77.2	75.0	68.4	67.9
13	IMHW1541	80.6	57.8	80.6	56.7	68.9	62.2	67.3	60.4	65.6	72.2	65.5	58.3	62.8	74.3	67.9	55.6	66.0	64.1	63.2	61.8	59.4	58.3	77.8	64.1	65.4
14	PM15101L	79.2	59.4	79.9	56.7	68.8	55.6	53.0	62.5	61.5	68.1	60.1	57.2	48.3	59.0	64.3	40.3	66.7	56.0	63.2	62.5	41.1	71.7	61.1	59.9	60.6
15	IMH1533	75.0	57.8	79.2	56.1	67.0	62.2	60.1	61.8	70.8	68.1	64.6	61.1	61.1	68.1	62.5	54.2	66.7	62.3	63.2	59.7	55.0	62.8	75.0	63.1	64.0
16	HT 515387	82.6	60.6	78.5	56.7	69.6	66.7	58.3	59.0	69.8	72.2	65.2	58.9	63.9	62.5	66.7	58.3	66.7	62.8	61.8	61.8	61.1	75.6	81.9	68.4	66.2
17	JH 13341	80.6	57.2	70.8	57.8	66.6	61.7	63.1	60.4	59.4	70.8	63.1	57.8	63.3	63.9	64.3	54.9	66.7	61.8	63.9	57.6	55.6	73.3	77.8	65.6	64.0
18	MFH-6-15	83.3	60.0	72.2	56.7	68.1	72.8	56.0	60.4	59.4	66.7	63.0	50.6	48.3	63.2	61.3	56.3	66.0	57.6	63.2	52.8	50.6	57.2	81.9	61.1	61.9
19	HM15310	79.9	60.6	72.2	56.7	67.3	67.8	60.7	62.5	63.5	71.5	65.2	65.6	62.2	79.9	67.9	58.3	66.0	66.6	63.9	63.2	64.4	77.2	77.8	69.3	67.1
20	CMH12-661	83.3	59.4	77.8	56.7	69.3	63.9	63.7	62.5	71.9	72.9	67.0	55.6	65.6	64.6	66.7	55.6	66.0	62.3	63.2	60.4	50.6	70.0	79.2	64.7	65.5
21	MAH-K14-4	85.4	57.8	79.9	56.7	69.9	70.6	63.1	57.6	64.6	69.4	65.1	53.3	63.3	68.1	66.7	61.1	66.0	63.1	63.2	61.8	57.8	66.1	79.2	65.6	65.6
22	IMH1530	81.3	60.0	80.6	56.7	69.6	65.0	61.3	59.7	64.6	70.8	64.3	61.1	59.4	64.6	62.5	55.6	66.7	61.6	63.2	63.2	51.7	61.1	81.9	64.2	64.5
23	DMRH1417	81.9	60.0	80.6	56.7	69.8	67.2	61.9	62.5	71.9	62.5	65.2	61.7	60.0	72.2	66.1	59.7	66.0	64.3	63.9	54.2	55.0	62.8	63.9	59.9	64.5
24	ANJAN	79.9	59.4	78.5	55.6	68.3	62.2	62.5	61.8	66.7	74.3	65.5	60.6	65.0	68.1	68.5	58.3	65.3	64.3	61.8	63.2	58.9	77.8	76.4	67.6	66.2
25	PM15105L	75.7	60.0	74.3	56.7	66.7	54.4	56.0	63.2	58.3	70.1	60.4	52.2	48.3	67.4	57.1	33.3	66.0	54.1	62.5	59.0	63.3	73.3	81.9	68.0	61.7
26	IMH1528	74.3	60.6	72.2	54.4	65.4	62.8	65.5	61.8	64.6	68.1	64.5	59.4	60.6	77.1	60.7	48.6	66.7	62.2	63.2	63.2	62.8	70.6	81.9	68.3	64.9
27	CMH12-678	86.1	59.4	72.2	56.7	68.6	56.7	61.3	57.6	68.8	72.2	63.3	57.2	56.7	70.8	62.5	58.3	65.3	61.8	61.8	61.8	57.8	61.7	81.9	65.0	64.3
28	NMH-3662	77.1	60.0	70.8	56.7	66.1	64.4	61.3	61.8	64.6	68.8	64.2	55.6	61.7	73.6	59.5	51.4	66.7	61.4	63.2	59.7	55.6	87.2	62.5	65.6	64.1
29	QMH-1025	83.3	60.0	76.4	56.7	69.1	63.3	62.5	59.0	64.6	68.8	63.6	61.1	62.8	56.3	66.1	55.6	65.3	61.2	63.9	56.9	60.6	76.1	66.7	64.8	64.3
30	OMH 14-27	84.0	57.8	77.8	56.7	69.1	65.0	57.7	63.9	68.8	68.1	64.7	62.8	62.8	66.0	57.7	58.3	65.3	62.1	63.2	59.7	65.0	83.3	81.9	70.6	66.3
31	QMH-1232	80.6	58.9	79.2	53.3	68.0	60.6	61.3	60.4	68.8	67.4	63.7	62.8	63.3	78.5	63.1	51.4	65.3	64.1	63.2	61.1	60.6	67.2	83.3	67.1	65.5
32	IMH1527	83.3	58.3	81.3	56.7	69.9	64.4	64.3	60.4	69.8	66.7	65.1	59.4	63.3	72.9	63.7	54.9	66.0	63.4	63.2	56.9	61.7	68.9	81.9	66.5	65.9

Table No. 1 (Continued)

		STAND AT HARVEST ('000/ha)																								
						NWPZ						NEPZ							PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
33	DKC9163	86.1	58.9	79.9	56.7	70.4	65.0	61.9	61.1	62.5	66.7	63.4	53.9	65.0	76.4	66.1	62.5	66.0	65.0	63.2	60.4	52.8	67.8	75.0	63.8	65.4
34	JKMH 4444	81.3	59.4	77.1	56.7	68.6	65.0	66.1	61.1	69.8	69.4	66.3	55.0	62.8	78.5	62.5	59.0	66.0	64.0	63.2	61.1	64.4	72.8	80.6	68.4	66.6
35	IIMRNH 2015-10	81.3	60.0	75.7	56.7	68.4	58.3	58.9	56.9	60.4	64.6	59.8	56.1	58.9	72.9	66.1	54.2	66.0	62.4	63.2	60.4	56.7	68.3	73.6	64.4	63.5
36	QMH-1231	86.1	58.9	73.6	56.7	68.8	60.0	64.3	59.7	69.8	75.7	65.9	59.4	65.0	70.8	66.7	52.1	66.0	63.3	63.9	60.4	58.3	72.8	65.3	64.1	65.3
37	EH-2371	36.1	56.1	77.1	52.2	55.4	40.6	30.4	58.3	42.7	63.2	47.0	12.8	11.1	29.2	45.8	23.6	66.7	31.5	63.9	59.0	18.3	80.6	73.6	59.1	47.1
38	CCH 4039	77.8	56.7	77.1	56.7	67.0	58.3	61.3	56.9	71.9	67.4	63.2	56.7	65.0	77.8	62.5	51.4	66.7	63.3	63.2	58.3	56.1	65.0	80.6	64.6	64.4
39	IMH1524	80.6	60.0	77.1	56.7	68.6	63.9	63.1	61.1	70.8	70.1	65.8	58.9	67.2	70.1	63.1	50.0	66.0	62.6	63.2	59.0	56.7	66.7	70.8	63.3	64.8
40	PM15102L	66.7	60.6	79.9	55.6	65.7	47.8	55.4	57.6	42.7	60.4	52.8	55.6	46.7	53.5	46.4	33.3	66.7	50.4	63.2	57.6	43.9	67.2	83.3	63.1	57.2
41	KH-440	81.9	58.3	80.6	56.7	69.4	65.6	58.9	61.8	59.4	66.7	62.5	58.9	60.6	70.1	66.7	54.9	66.7	63.0	63.2	57.6	53.3	78.9	81.9	67.0	65.1
42	MAH-K14-2	66.7	58.3	73.6	56.7	63.8	65.0	54.8	63.9	58.3	72.9	63.0	49.4	42.8	58.3	66.1	59.7	66.7	57.2	63.9	57.6	48.9	70.0	81.9	64.5	61.8
43	VNR-31565	81.9	58.3	77.1	56.7	68.5	66.7	64.3	61.1	61.5	73.6	65.4	53.9	57.8	75.0	51.8	51.4	66.0	59.3	63.9	61.1	59.4	71.1	55.6	62.2	63.4
44	IIMRNH 2015-9	76.4	60.0	77.1	56.7	67.5	57.2	67.3	62.5	69.8	66.7	64.7	54.4	63.9	64.6	67.3	45.1	65.3	60.1	63.2	56.3	61.7	57.2	65.3	60.7	62.9
45	PM15106L	66.0	58.9	73.6	56.7	63.8	47.2	39.3	61.8	50.0	66.0	52.9	24.4	28.3	43.8	43.5	34.0	66.7	40.1	63.2	72.9	27.2	55.6	76.4	59.1	52.8
46	SMH-3902	76.4	58.3	75.0	56.7	66.6	65.0	58.9	60.4	68.8	64.6	63.5	48.9	62.8	71.5	61.9	56.9	66.0	61.3	61.8	60.4	47.2	58.9	81.9	62.1	63.1
47	CMH12-688	70.8	60.0	75.0	56.7	65.6	58.3	60.1	58.3	64.6	72.9	62.9	51.7	60.0	68.1	61.3	61.1	66.0	61.4	63.9	63.9	52.8	64.4	81.9	65.4	63.6
48	DAS-MH-110	86.1	61.1	74.3	56.7	69.5	62.2	61.9	61.1	70.8	75.7	66.4	57.2	63.9	81.3	64.3	59.7	66.0	65.4	63.2	56.9	58.9	79.4	69.4	65.6	66.5
49	PM15104L	68.1	57.8	74.3	56.7	64.2	58.3	53.0	56.3	62.5	74.3	60.9	53.3	45.0	55.6	62.5	52.8	64.6	55.6	63.9	59.7	48.9	73.9	81.9	65.7	61.2
50	GH-1113	76.4	60.6	75.0	56.7	67.2	55.0	59.5	58.3	55.2	68.1	59.2	54.4	52.2	59.0	54.8	44.4	66.0	55.1	63.2	59.0	52.8	61.1	80.6	63.3	60.6
51	KNMH-4503	84.7	60.0	73.6	56.7	68.8	68.3	65.5	63.9	63.5	70.1	66.3	57.2	64.4	72.2	66.7	52.1	66.7	63.2	63.2	63.2	57.2	65.0	80.6	65.8	65.7
	CHECKS																									
52	PMH-1	80.6	58.3	73.6	56.7	67.3	61.7	63.7	61.1	68.8	59.7	63.0	51.7	62.8	69.4	66.7	52.8	67.4	61.8	63.2	67.4	64.4	63.3	80.6	67.8	64.7
53	PMH-3	63.9	58.3	77.1	55.0	63.6	57.8	64.9	58.3	58.3	66.7	61.2	49.4	57.8	62.5	63.1	49.3	65.3	57.9	63.2	60.4	55.6	75.6	76.4	66.2	61.9
54	Seedtech-2324	77.8	61.7	77.1	56.7	68.3	65.0	64.3	58.3	68.8	68.8	65.0	63.3	62.8	59.0	61.9	56.9	66.0	61.7	64.6	63.9	62.8	63.9	66.7	64.4	64.5
55	BIO-9681	79.2	60.6	77.1	56.7	68.4	60.0	65.5	63.2	64.6	65.3	63.7	60.6	62.8	86.8	63.1	58.3	66.0	66.3	63.9	59.7	64.4	71.1	76.4	67.1	66.3
	Loc. Mean	**78.3**	**59.3**	**76.5**	**56.3**	**67.6**	**62.1**	**60.6**	**60.5**	**64.2**	**68.7**	**63.2**	**55.6**	**58.2**	**67.9**	**62.7**	**52.6**	**66.1**	**60.5**	**63.3**	**60.3**	**56.0**	**69.4**	**76.8**	**65.2**	**63.8**
	C.D. (5%)	9.52	3.55	5.59	2.44	5.89	8.67	7.29	6.01	8.67	6.80	5.26	7.76	4.91	18.04	6.02	7.38	1.54	6.06	1.90	7.19	8.04	10.84	7.23	7.55	3.24
	C.V. (%)	7.52	3.69	4.52	2.67	6.24	8.62	7.43	6.13	6.73	6.12	6.67	8.62	5.21	16.42	5.93	8.66	1.44	8.81	1.85	7.37	8.87	9.65	5.82	9.29	8.18
	F (Prob)	0.00	0.61	0.00	0.19	0.09	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.93	0.02	0.00	0.00	0.00	0.40	0.00

Table No. 1 (Continued)

		DAYS TO 50% POLLEN SHED																								
						NWPZ						NEPZ							PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	52.3	53.0	53.7	57.7	54.2	55.3	59.0	56.0	56.5	56.3	56.6	55.3	55.0	58.7	53.7	48.3	54.7	54.3	54.3	52.0	60.7	56.0	54.0	55.4	55.1
2	TMMH 840	52.0	53.7	50.7	54.0	52.6	57.3	58.3	55.3	57.5	57.7	57.2	58.7	56.7	61.0	53.3	51.7	56.0	56.2	54.0	52.3	60.0	52.7	54.0	54.6	55.3
3	BRM 12-1	52.3	57.3	51.0	57.0	54.4	56.7	60.0	57.0	58.0	55.7	57.5	58.0	55.0	59.7	55.3	52.0	55.3	55.9	54.3	51.7	61.7	53.3	52.3	54.7	55.7
4	SRIKAR 3555	51.7	54.7	52.0	53.0	52.8	56.3	56.3	56.0	57.5	54.7	56.2	57.3	54.0	57.3	53.3	48.7	57.0	54.6	54.3	52.0	60.7	52.7	54.0	54.7	54.7
5	BH 413053	51.3	53.7	54.7	55.3	53.8	57.0	56.7	54.0	53.5	53.3	54.9	55.0	53.7	60.3	51.7	47.3	54.0	53.7	52.3	53.0	60.3	52.0	53.3	54.2	54.1
6	CP.802	54.0	55.3	52.3	57.7	54.8	58.3	60.3	57.0	61.0	65.3	60.4	59.0	58.7	61.3	54.0	52.0	57.3	57.1	53.3	53.0	62.3	56.0	53.7	55.7	57.1
7	JH 13339	52.3	54.0	50.7	56.7	53.4	55.7	61.0	54.0	56.0	57.7	56.9	58.7	56.7	62.0	54.0	52.0	55.0	56.4	59.3	53.7	62.0	55.3	55.0	57.1	56.1
8	CP.804	51.7	55.3	50.0	57.3	53.6	58.3	58.7	54.0	58.0	63.7	58.5	60.3	56.3	57.0	53.0	52.0	55.0	55.6	57.0	53.7	61.7	52.0	53.0	55.5	55.9
9	JKMH 4153	55.0	53.0	54.3	57.7	55.0	59.3	60.7	55.7	59.0	60.7	59.1	60.7	56.7	59.7	56.0	51.3	55.7	56.7	58.3	54.3	62.3	55.0	54.3	56.9	57.0
10	Super-6030	51.0	55.7	52.0	57.3	54.0	57.7	59.3	54.0	56.5	57.7	57.0	58.0	55.7	59.3	52.7	52.3	52.0	55.0	61.7	53.0	62.3	54.7	55.3	57.4	55.9
11	GK3141	51.3	52.7	53.3	53.3	52.7	55.3	58.0	57.0	53.0	51.7	55.0	55.3	54.0	60.7	52.7	50.3	53.3	54.4	53.0	52.0	60.7	51.0	55.3	54.4	54.2
12	DAS-MH-111	52.3	54.3	54.7	57.0	54.6	55.0	59.3	56.0	56.0	59.7	57.2	55.7	56.3	59.3	53.0	49.0	57.7	55.2	55.0	52.0	61.7	52.7	55.0	55.3	55.6
13	IMHW1541	55.3	53.3	50.3	55.0	53.5	57.7	60.3	54.0	58.0	56.3	57.3	58.7	55.3	61.3	54.7	50.3	54.0	55.7	55.0	53.7	62.3	57.0	54.7	56.5	55.9
14	PM15101L	55.0	56.3	53.7	58.0	55.8	59.7	60.0	55.0	59.0	49.3	56.6	60.3	55.3	59.7	53.0	51.3	56.0	55.9	53.3	53.7	61.3	53.3	54.0	55.1	55.9
15	IMH1533	51.7	53.3	51.0	56.3	53.1	55.0	54.0	54.0	53.5	56.7	54.6	56.7	53.0	59.0	49.3	47.7	54.3	53.3	53.3	53.7	59.3	50.0	54.3	54.1	53.8
16	HT 515387	50.3	54.3	52.3	55.0	53.0	57.7	57.3	55.0	57.5	56.3	56.8	58.0	54.7	59.7	51.7	48.0	57.7	54.9	54.3	53.7	61.0	53.7	53.3	55.2	55.1
17	JH 13341	49.0	55.3	55.0	56.0	53.8	57.0	58.3	55.7	58.0	63.3	58.5	58.7	56.3	61.3	54.0	52.0	53.0	55.9	53.3	52.0	61.3	57.0	54.7	55.7	56.1
18	MFH-6-15	55.0	55.7	55.7	56.7	55.8	58.7	62.0	57.7	59.0	64.7	60.4	60.0	58.3	60.7	55.0	51.3	53.0	56.4	58.7	52.3	64.0	53.7	55.0	56.7	57.4
19	HM15310	51.0	53.3	51.7	58.0	53.5	56.3	58.7	56.0	55.5	56.7	56.6	57.0	56.3	62.3	53.7	48.7	56.0	55.7	54.3	53.0	60.0	57.0	53.7	55.6	55.5
20	CMH12-661	54.0	54.0	52.0	57.0	54.3	57.3	59.7	53.7	59.0	56.7	57.3	59.3	55.7	60.0	55.3	51.7	54.7	56.1	59.3	52.3	61.0	54.7	55.3	56.5	56.1
21	MAH-K14-4	49.7	54.0	54.3	54.3	53.1	55.0	57.7	56.0	56.5	56.7	56.4	58.7	55.3	61.3	53.3	49.7	54.7	55.5	54.3	52.3	60.7	57.7	53.3	55.7	55.3
22	IMH1530	48.3	49.3	53.7	51.3	50.7	53.3	53.7	52.7	51.0	50.7	52.3	53.3	53.0	59.7	48.0	45.0	52.0	51.8	51.3	51.3	60.0	50.0	54.0	53.3	52.1
23	DMRH1417	52.0	53.0	51.7	56.7	53.3	56.7	58.0	53.0	56.5	56.7	56.2	54.7	55.0	62.3	50.7	48.0	50.7	53.6	51.7	52.0	60.7	51.7	54.3	54.1	54.3
24	ANJAN	51.7	52.0	54.7	56.3	53.7	56.7	56.0	54.0	53.0	53.3	54.6	56.0	54.0	58.7	53.0	48.3	55.3	54.2	51.7	51.7	61.0	52.0	54.3	54.1	54.2
25	PM15105L	54.3	53.0	55.7	54.7	54.4	57.3	56.3	55.0	55.5	59.7	56.8	58.0	55.3	61.3	52.0	48.7	56.7	55.3	54.7	54.0	60.0	53.7	53.3	55.1	55.5
26	IMH1528	52.7	53.0	50.3	55.7	52.9	54.7	56.0	56.0	54.0	58.7	55.9	56.0	53.7	59.0	50.0	51.3	51.3	53.6	51.3	53.7	59.7	51.7	53.7	54.0	54.1
27	CMH12-678	52.0	52.7	53.7	54.7	53.3	55.7	56.0	55.0	57.0	52.7	55.3	55.3	54.7	60.3	51.0	48.7	56.0	54.3	54.3	53.0	60.3	52.7	54.3	54.9	54.5
28	NMH-3662	52.7	57.0	54.3	56.7	55.2	59.7	60.7	55.0	58.0	66.7	60.0	59.0	56.7	61.3	55.0	52.0	56.0	56.7	51.7	53.0	62.3	55.7	53.3	55.2	56.8
29	QMH-1025	51.3	55.0	50.3	52.7	52.3	56.0	56.3	52.0	55.5	54.3	54.8	55.3	55.0	62.3	52.0	48.0	53.7	54.4	53.3	52.7	60.7	50.3	54.0	54.2	54.0
30	OMH 14-27	51.3	54.3	51.7	55.3	53.2	55.3	56.7	53.0	57.5	56.3	55.8	55.3	55.0	62.3	54.0	48.0	54.0	54.8	51.3	51.7	60.0	52.7	55.0	54.1	54.5
31	QMH-1232	48.3	49.7	53.7	53.3	51.3	53.3	57.0	51.7	56.5	53.7	54.4	53.7	55.0	61.3	50.3	48.3	54.0	53.8	51.3	51.7	60.3	52.0	54.7	54.0	53.5

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED																								
		NWPZ					NEPZ													PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	52.3	51.3	50.7	55.3	52.4	54.7	56.7	53.3	57.0	56.0	55.5	57.3	53.7	60.7	51.0	48.3	54.7	54.3	52.7	53.0	61.3	52.0	54.3	54.7	54.3
33	DKC9163	51.7	53.7	54.3	57.0	54.2	57.3	60.7	57.7	54.5	64.7	59.0	56.3	57.3	62.0	55.0	52.0	55.7	56.4	57.3	52.0	63.0	54.3	53.3	56.0	56.5
34	JKMH 4444	55.0	55.3	48.3	56.3	53.8	59.0	57.7	54.0	58.0	57.3	57.2	57.3	56.3	65.3	53.7	51.7	57.0	56.9	54.0	54.0	59.0	54.7	53.7	55.1	55.9
35	IIMRNH 2015-10	52.3	53.0	53.0	55.3	53.4	55.0	58.3	56.3	56.0	55.7	56.3	58.3	57.0	61.3	55.3	51.3	52.7	56.0	52.0	51.7	63.0	54.0	54.0	54.9	55.3
36	QMH-1231	51.3	53.0	55.0	51.3	52.7	54.7	54.7	51.7	53.5	61.3	55.2	54.0	52.0	58.0	51.3	46.7	52.0	52.3	52.0	51.7	61.0	51.0	54.0	53.9	53.5
37	EH-2371	52.3	49.7	51.7	58.0	52.9	56.3	58.0	53.0	59.0	54.3	56.1	58.0	53.0	59.7	51.7	50.3	55.3	54.7	54.3	53.7	59.7	54.0	54.7	55.3	54.8
38	CCH 4039	52.0	56.0	54.3	55.0	54.3	57.0	59.0	53.0	59.0	63.3	58.3	58.0	55.0	62.3	51.7	49.0	56.0	55.3	52.0	52.7	60.7	53.0	55.0	54.7	55.7
39	IMH1524	51.7	52.0	51.7	56.0	52.8	56.0	56.7	54.0	54.0	55.7	55.3	56.3	54.0	60.3	51.3	48.7	54.3	54.2	54.3	52.7	61.0	52.0	53.3	54.7	54.3
40	PM15102L	54.0	54.3	53.0	56.0	54.3	57.0	58.3	53.7	56.5	50.7	55.2	57.3	56.0	61.0	54.3	51.3	56.3	56.1	58.3	53.3	61.3	52.7	53.3	55.8	55.4
41	KH-440	55.3	54.7	53.3	56.7	55.0	58.0	56.7	53.7	58.0	55.3	56.3	58.3	57.7	62.3	53.3	48.7	57.0	56.2	53.0	54.7	61.7	53.0	55.0	55.5	55.8
42	MAH-K14-2	52.0	55.3	55.0	55.3	54.4	56.3	60.3	53.0	57.0	58.7	57.1	58.3	55.0	62.3	54.0	49.0	55.3	55.7	53.0	54.7	60.3	54.7	54.3	55.4	55.7
43	VNR-31565	53.7	54.3	51.7	57.3	54.3	56.0	57.7	52.0	58.5	63.3	57.5	58.3	54.7	59.3	54.7	50.0	56.7	55.6	52.0	53.7	61.7	53.0	53.7	54.8	55.6
44	IIMRNH 2015-9	49.7	51.7	54.3	52.0	51.9	53.3	54.7	53.0	52.5	51.7	53.0	53.3	53.0	62.0	51.7	48.0	54.0	53.7	53.3	54.0	60.7	50.7	54.0	54.5	53.4
45	PM15106L	51.0	54.0	48.7	55.3	52.3	56.7	57.7	54.0	55.5	65.3	57.8	58.0	54.0	60.7	53.0	51.7	55.0	55.4	52.3	50.7	60.3	53.3	52.3	53.8	55.0
46	SMH-3902	54.3	55.3	56.3	56.7	55.7	58.0	62.3	57.7	58.5	61.7	59.6	58.7	56.7	60.0	53.7	49.0	55.7	55.6	56.0	53.0	61.7	55.0	53.3	55.8	56.7
47	CMH12-688	52.7	54.7	54.3	55.7	54.3	55.7	59.0	57.0	57.5	54.7	56.8	56.7	54.7	60.3	53.7	49.0	56.3	55.1	53.3	52.0	61.7	56.0	54.7	55.5	55.5
48	DAS-MH-110	54.3	54.7	52.3	63.0	56.1	56.3	60.7	54.0	59.0	56.3	57.3	58.7	55.0	59.7	54.3	52.0	56.3	56.0	59.7	51.3	61.3	56.7	53.0	56.4	56.4
49	PM15104L	53.0	54.0	50.3	55.0	53.1	55.7	58.7	51.7	61.0	56.3	56.7	58.7	54.3	61.7	53.3	51.0	57.7	56.1	54.0	53.3	61.7	54.7	56.0	55.9	55.6
50	GH-1113	52.7	52.0	53.3	54.7	53.2	55.3	55.3	55.0	53.0	54.7	54.7	54.0	53.7	59.7	49.7	47.7	50.7	52.6	51.7	53.3	60.0	50.7	53.0	53.7	53.5
51	KNMH-4503	50.0	52.7	54.7	55.3	53.2	54.7	56.3	53.0	55.5	52.7	54.4	56.7	53.0	58.7	50.7	47.7	51.3	53.0	54.3	52.7	60.3	51.3	53.0	54.3	53.7
	CHECKS																									
52	PMH-1	51.7	50.0	55.0	54.3	52.8	56.7	59.0	52.0	58.0	53.7	55.9	58.3	54.7	59.7	52.0	50.7	56.7	55.3	53.3	53.0	60.0	53.0	56.0	55.1	54.9
53	PMH-3	55.0	54.0	51.7	56.3	54.3	57.0	59.3	57.0	57.0	56.7	57.4	58.3	57.0	60.7	52.7	50.7	56.0	55.9	56.0	51.3	61.7	52.7	54.0	55.1	55.8
54	Seedtech-2324	52.3	54.3	54.3	55.7	54.2	55.3	57.7	55.0	56.5	56.7	56.2	57.3	55.3	59.0	52.3	50.0	54.3	54.7	54.3	52.0	60.3	50.3	54.3	54.3	54.9
55	BIO-9681	49.3	48.7	51.7	54.7	51.1	55.0	54.0	54.0	53.0	55.7	54.3	53.3	52.7	59.3	48.3	45.3	50.0	51.5	51.3	51.7	60.0	49.7	54.0	53.3	52.6
	Loc. Mean	**52.2**	**53.6**	**52.8**	**55.7**	**53.6**	**56.4**	**58.0**	**54.5**	**56.6**	**57.2**	**56.5**	**57.2**	**55.1**	**60.5**	**52.8**	**49.7**	**54.8**	**55.0**	**54.2**	**52.7**	**61.0**	**53.3**	**54.1**	**55.1**	**55.1**
	C.D. (5%)	1.37	1.04	1.29	2.23	2.33	2.52	1.61	1.55	2.42	1.88	2.54	1.71	1.82	3.80	2.26	1.26	0.86	1.47	0.71	2.84	1.57	1.18	1.89	1.79	1.01
	C.V. (%)	1.62	1.20	1.51	2.47	3.12	2.76	1.72	1.75	2.14	2.03	3.61	1.85	2.04	3.88	2.64	1.57	0.97	2.35	0.81	3.33	1.59	1.37	2.16	2.61	2.95
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.05	0.00	0.00

Table No. 1 (Continued)

		DAYS TO 50% SILKING																							
						NWPZ						NEPZ							PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	53.3	55.0	56.7	60.3	56.3	58.3	62.3	59.0	67.0	58.3	61.0	57.3	57.7	60.7	55.3	51.7	56.7	56.6	55.3	55.0	61.7	59.3	55.7	57.4	57.8
2	TMMH 840	52.7	55.7	53.7	56.7	54.7	61.3	62.3	58.3	62.5	59.7	60.8	60.7	58.3	61.0	55.0	54.7	58.0	57.9	55.3	55.3	61.0	56.7	55.7	56.8	57.7
3	BRM 12-1	54.0	59.3	54.7	59.7	56.9	60.3	64.0	60.0	63.5	57.7	61.1	60.0	57.0	61.3	56.3	54.7	57.3	57.8	55.7	54.7	62.7	56.7	53.7	56.7	58.2
4	SRIKAR 3555	52.7	57.7	56.0	56.0	55.6	59.7	60.7	59.0	62.0	56.7	59.6	58.7	56.0	59.0	54.7	51.3	59.0	56.4	55.3	54.0	61.7	55.7	55.0	56.3	57.0
5	BH 413053	52.0	56.3	57.7	58.3	56.1	60.0	60.7	57.0	60.0	55.3	58.6	57.7	56.3	62.0	54.0	50.3	56.0	56.1	53.3	56.0	61.3	55.3	54.3	56.1	56.7
6	CP.802	55.0	57.3	55.3	60.7	57.1	62.0	64.3	60.0	66.5	67.3	64.0	60.3	61.0	62.3	57.0	54.7	59.3	59.1	54.3	56.0	63.0	59.0	54.7	57.4	59.5
7	JH 13339	53.0	56.0	55.7	60.0	56.2	59.7	64.3	57.0	61.5	59.7	60.4	60.0	58.7	62.7	56.7	55.0	57.0	58.3	60.7	56.7	63.0	58.0	56.7	59.0	58.6
8	CP.804	52.3	57.3	54.0	60.0	55.9	61.0	62.3	57.0	63.5	65.7	61.9	61.7	59.0	59.3	54.7	54.3	57.0	57.7	58.3	55.7	62.7	55.7	54.7	57.4	58.3
9	JKMH 4153	55.7	55.0	57.7	60.7	57.3	63.0	63.7	58.7	65.0	62.7	62.6	63.0	59.3	61.3	55.7	55.0	57.7	58.7	60.3	56.3	63.3	58.0	56.3	58.9	59.4
10	Super-6030	52.0	57.7	55.7	60.3	56.4	61.0	62.7	57.0	61.5	59.7	60.4	59.3	57.3	61.3	55.0	55.3	54.3	57.1	63.3	56.0	63.3	57.7	56.3	59.3	58.3
11	GK3141	52.0	55.3	57.0	56.0	55.1	59.0	61.7	60.0	60.0	53.7	58.9	57.0	56.7	61.7	54.7	53.3	56.0	56.6	54.3	54.0	61.7	54.7	57.0	56.3	56.8
12	DAS-MH-111	53.0	56.3	57.3	60.3	56.8	58.0	63.0	58.7	61.5	61.7	60.6	57.3	58.3	60.7	55.0	51.7	59.7	57.1	56.0	55.0	62.7	56.3	56.3	57.3	57.9
13	IMHW1541	57.0	55.3	53.7	58.0	56.0	61.0	63.7	57.0	62.0	58.3	60.4	60.7	57.3	61.7	57.0	53.3	56.0	57.7	56.3	55.7	63.3	60.0	55.7	58.2	58.2
14	PM15101L	55.7	59.3	56.7	61.0	58.2	63.3	62.7	58.0	63.5	51.3	59.8	61.7	57.7	59.7	54.3	54.3	58.0	57.6	54.3	56.7	62.3	57.3	55.7	57.3	58.2
15	IMH1533	53.0	56.0	55.0	59.3	55.8	58.7	58.3	57.0	62.5	58.7	59.0	58.0	55.3	60.0	52.3	51.0	56.3	55.5	54.3	56.7	60.3	53.3	56.0	56.1	56.6
16	HT 515387	52.3	56.3	55.7	57.7	55.5	60.3	61.0	58.0	61.5	58.3	59.8	59.0	56.3	61.7	54.0	51.0	59.7	56.9	55.3	56.7	62.0	57.0	54.7	57.1	57.4
17	JH 13341	50.3	58.3	58.0	58.7	56.3	60.3	62.0	58.7	63.0	65.3	61.9	60.7	58.3	62.7	55.7	55.0	55.0	57.9	54.7	55.0	62.3	59.7	56.7	57.7	58.5
18	MFH-6-15	55.7	58.7	59.0	59.7	58.3	62.0	66.3	60.7	65.5	66.7	64.2	61.3	60.0	61.3	57.3	54.3	55.0	58.2	60.3	55.7	64.3	57.0	56.3	58.7	59.9
19	HM15310	51.3	55.3	54.7	60.3	55.4	60.3	62.7	59.0	60.5	58.7	60.2	59.0	58.7	62.7	55.0	51.7	58.0	57.5	55.3	56.0	61.0	60.0	55.3	57.5	57.8
20	CMH12-661	55.0	56.0	55.7	60.0	56.7	61.0	63.0	56.7	64.0	58.7	60.7	61.7	58.0	60.3	57.0	54.7	56.7	58.1	60.3	55.3	62.0	59.3	56.7	58.7	58.6
21	MAH-K14-4	51.0	56.0	58.0	57.3	55.6	58.7	61.3	59.0	62.5	58.7	60.0	60.7	57.3	62.0	55.3	52.3	56.7	57.4	55.3	55.3	61.7	60.3	54.7	57.5	57.7
22	IMH1530	49.3	51.3	58.0	53.7	53.1	57.3	58.0	55.3	59.0	52.7	56.5	55.7	54.0	60.7	50.7	48.3	54.0	53.9	52.3	54.3	61.0	54.0	55.0	55.3	54.7
23	DMRH1417	53.3	55.7	55.0	59.3	55.8	60.0	62.0	56.0	63.5	58.7	60.0	56.3	57.7	63.3	54.7	51.0	52.7	55.9	53.3	54.7	61.7	55.7	55.7	56.2	57.0
24	ANJAN	52.3	54.3	58.3	58.7	55.9	59.7	60.7	57.3	58.0	55.3	58.2	58.0	56.0	61.3	54.7	51.3	57.3	56.4	53.3	53.7	62.0	55.7	56.3	56.2	56.7
25	PM15105L	55.0	55.0	59.0	57.7	56.7	60.7	60.0	57.7	62.0	61.7	60.4	59.7	57.3	62.7	54.3	51.7	58.7	57.4	55.7	57.0	61.0	57.3	55.0	57.2	58.0
26	IMH1528	53.3	55.0	54.0	58.7	55.3	58.3	60.0	59.3	62.0	60.7	60.1	57.3	55.7	60.3	54.0	54.3	53.3	55.8	52.3	54.7	60.7	54.7	54.7	55.4	56.7
27	CMH12-678	52.7	54.7	56.7	57.7	55.4	59.3	60.0	58.0	61.0	54.7	58.6	56.7	57.7	60.7	53.7	52.0	58.0	56.4	55.3	56.0	61.3	56.7	55.3	56.9	56.9
28	NMH-3662	53.7	59.7	57.3	59.3	57.5	60.3	64.0	58.3	62.5	68.7	62.8	60.7	59.0	62.0	56.7	54.7	58.0	58.5	53.3	55.0	63.3	59.0	54.7	57.1	59.0
29	QMH-1025	52.3	57.0	54.0	55.7	54.8	60.0	60.7	55.0	59.0	56.3	58.2	57.3	57.0	63.0	54.0	51.0	55.7	56.3	54.3	55.7	61.7	53.0	55.0	55.9	56.4
30	OMH 14-27	52.0	56.3	55.0	58.3	55.4	59.3	60.7	56.0	61.5	58.3	59.2	56.3	57.0	63.7	54.7	51.0	56.0	56.4	52.3	54.7	61.0	56.3	56.3	56.1	56.8
31	QMH-1232	49.0	52.7	56.7	55.7	53.5	56.3	60.7	54.7	61.5	55.7	57.8	55.0	57.0	62.0	53.0	51.3	56.0	55.7	53.3	54.7	61.3	55.3	57.0	56.3	55.9

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING																								
		NWPZ					NEPZ													PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	53.0	54.3	54.7	58.3	55.1	58.7	60.7	57.0	63.5	58.0	59.6	59.0	56.3	61.3	53.3	51.3	56.7	56.3	54.3	56.0	62.3	55.7	55.7	56.8	57.0
33	DKC9163	52.3	56.3	58.3	59.7	56.7	60.3	64.0	60.3	60.5	66.7	62.4	57.7	60.0	62.3	56.7	55.0	57.7	58.2	59.3	65.0	64.0	57.7	54.7	60.1	59.4
34	JKMH 4444	55.7	57.3	51.3	59.0	55.8	62.3	61.3	57.0	62.0	59.3	60.4	59.0	58.0	66.0	54.7	54.0	59.0	58.4	55.3	57.0	60.0	58.0	55.0	57.1	58.1
35	IIMRNH 2015-10	53.0	55.0	56.7	58.0	55.7	58.7	62.3	59.3	62.0	57.7	60.0	60.3	59.3	63.7	58.3	54.0	55.0	58.4	53.7	54.7	63.7	57.3	55.3	56.9	57.9
36	QMH-1231	52.3	55.0	58.3	54.3	55.0	57.7	58.7	55.0	63.5	63.3	59.6	56.0	54.0	59.3	54.0	50.0	54.3	54.6	53.3	54.7	62.0	54.3	56.0	56.1	56.3
37	EH-2371	53.0	52.0	55.0	61.0	55.3	58.3	61.7	56.0	63.5	56.3	59.2	59.3	54.3	59.7	53.3	53.3	57.7	56.3	56.3	56.7	60.7	57.3	56.0	57.4	57.1
38	CCH 4039	52.7	58.3	57.7	57.7	56.6	60.3	62.0	56.0	61.5	65.3	61.0	60.0	57.3	62.7	54.3	52.0	58.0	57.4	53.3	55.7	61.7	56.3	56.3	56.7	58.0
39	IMH1524	52.3	54.7	55.3	59.3	55.4	59.0	61.3	57.0	65.0	57.7	60.0	58.0	57.0	61.7	54.7	51.7	57.0	56.7	56.3	54.7	62.0	55.3	55.0	56.7	57.3
40	PM15102L	55.3	56.3	57.0	58.7	56.8	60.0	61.7	56.7	61.5	52.7	58.5	58.7	58.0	62.0	55.3	54.3	58.3	57.8	60.3	56.3	62.3	56.3	54.7	58.0	57.8
41	KH-440	56.0	56.7	56.7	59.3	57.2	61.0	60.7	56.7	64.5	57.3	60.0	59.7	59.7	63.0	57.3	52.0	59.0	58.4	54.3	56.7	62.7	56.7	57.3	57.5	58.4
42	MAH-K14-2	53.0	57.7	58.3	57.7	56.7	60.0	63.7	55.7	62.0	60.7	60.4	60.3	57.7	62.7	55.3	52.3	57.3	57.6	54.3	57.7	61.3	58.3	56.3	57.6	58.1
43	VNR-31565	54.7	56.3	55.0	60.0	56.5	59.7	62.0	55.0	62.5	65.3	60.9	60.3	57.0	59.7	57.7	52.7	58.7	57.7	53.3	56.7	62.7	56.3	55.3	56.9	58.0
44	IIMRNH 2015-9	51.0	53.7	57.7	54.7	54.3	57.3	58.3	56.0	59.0	53.7	56.9	55.3	55.0	62.3	54.0	51.0	56.0	55.6	54.3	57.0	61.7	54.7	56.0	56.7	55.9
45	PM15106L	52.3	56.0	52.0	58.0	54.6	59.7	61.0	56.7	62.0	67.3	61.3	60.0	55.0	61.7	54.3	54.3	57.3	57.1	53.7	53.7	61.3	56.3	53.7	55.7	57.3
46	SMH-3902	55.3	57.3	59.7	59.0	57.8	61.3	66.0	60.7	65.0	63.7	63.3	60.7	58.7	60.7	55.0	52.0	58.0	57.5	57.3	56.0	62.7	58.7	54.7	57.9	59.1
47	CMH12-688	53.7	56.7	57.3	58.7	56.6	59.3	63.0	60.0	62.5	56.7	60.3	58.7	56.7	62.0	54.7	52.0	59.0	57.2	55.3	55.0	62.7	59.3	56.3	57.7	58.0
48	DAS-MH-110	55.3	57.3	55.7	66.0	58.6	60.0	63.7	57.0	64.0	58.3	60.6	60.7	57.0	61.0	55.7	55.0	58.3	57.9	61.3	53.7	62.3	60.0	64.0	60.3	59.3
49	PM15104L	53.7	56.0	53.7	58.0	55.3	59.7	62.3	54.7	65.0	58.3	60.0	60.0	55.7	62.7	54.3	54.0	59.7	57.7	55.3	55.3	62.7	58.3	57.3	57.8	57.8
50	GH-1113	53.7	55.0	56.0	57.7	55.6	59.3	59.7	58.0	59.0	56.7	58.5	55.3	56.7	60.7	53.0	50.3	52.7	54.8	53.3	56.3	61.0	54.7	55.0	56.1	56.2
51	KNMH-4503	51.3	54.7	58.7	58.3	55.8	58.7	60.0	56.0	63.5	54.7	58.6	58.7	55.0	61.0	54.7	50.7	53.3	55.6	55.3	55.7	61.3	55.3	54.0	56.3	56.5
	CHECKS																									
52	PMH-1	53.0	52.3	58.3	57.0	55.2	60.3	61.0	55.0	63.5	55.7	59.1	60.3	57.0	60.0	54.0	53.7	59.0	57.3	54.3	56.0	61.0	56.7	57.3	57.1	57.3
53	PMH-3	55.7	56.0	55.0	59.7	56.6	60.3	62.7	59.7	62.5	58.7	60.8	59.7	58.7	62.0	56.0	53.7	58.0	58.0	57.3	54.3	62.7	56.0	55.0	57.1	58.2
54	Seedtech-2324	53.0	56.3	57.7	58.7	56.4	59.3	60.3	58.0	62.0	58.7	59.7	59.3	57.3	59.7	54.3	53.0	56.3	56.7	55.3	55.0	61.0	54.3	56.0	56.3	57.3
55	BIO-9681	50.0	50.7	55.3	57.7	53.4	58.3	58.0	57.0	58.5	57.7	57.9	54.7	54.7	63.0	52.7	48.0	52.7	54.3	52.3	54.7	61.0	53.3	56.0	55.5	55.3
	Loc. Mean	**53.2**	**55.9**	**56.2**	**58.6**	**56.0**	**59.8**	**61.7**	**57.5**	**62.3**	**59.2**	**60.1**	**58.9**	**57.3**	**61.6**	**54.9**	**52.7**	**56.9**	**57.0**	**55.5**	**55.7**	**62.0**	**56.8**	**55.7**	**57.1**	**57.6**
	C.D. (5%)	1.33	1.04	1.29	2.29	2.35	2.52	1.60	1.64	2.94	1.88	2.52	2.13	2.16	3.27	1.86	1.35	0.83	1.50	0.32	4.98	1.56	1.34	4.38	1.94	1.02
	C.V. (%)	1.55	1.15	1.42	2.41	3.00	2.60	1.60	1.76	2.36	1.96	3.36	2.23	2.33	3.29	2.09	1.59	0.91	2.31	0.36	5.53	1.56	1.46	4.85	2.72	2.87
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.00	0.71	0.00	0.00

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																					
					NWPZ						NEPZ						PZ					PZ	OV'L
		LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	92.3	87.0	97.3	92.2	86.7	99.0	96.3	93.0	88.7	92.7	99.7	97.7	91.0	94.3	99.7	96.5	86.3	85.3	90.7	90.3	86.7	87.9	92.3
2	TMMH 840	94.0	83.7	94.3	90.7	87.7	96.3	97.0	92.0	92.7	93.1	102.7	98.3	97.7	97.3	104.7	100.1	85.7	85.7	93.0	93.7	86.7	88.9	93.5
3	BRM 12-1	91.7	87.3	92.7	90.6	88.3	99.0	95.0	91.5	89.3	92.6	101.3	97.0	97.3	97.3	98.0	98.2	86.7	84.0	92.7	90.0	86.0	87.9	92.5
4	SRIKAR 3555	92.7	87.0	91.7	90.4	86.3	96.0	95.0	92.5	89.7	91.9	100.3	96.0	95.7	94.0	101.3	97.5	87.3	84.0	90.0	88.0	86.0	87.1	91.9
5	BH 413053	92.7	88.3	95.0	92.0	87.3	95.7	96.7	93.5	92.3	93.1	100.3	96.3	91.7	93.7	98.0	96.0	84.7	85.3	89.0	91.0	87.0	87.4	92.1
6	CP.802	92.3	88.7	95.7	92.2	87.0	96.7	97.3	96.0	95.3	94.5	102.7	101.0	97.3	97.3	105.0	100.7	85.7	83.7	92.3	95.0	87.0	88.7	94.2
7	JH 13339	93.0	84.3	91.7	89.7	83.7	99.3	96.0	90.0	95.7	92.9	102.0	98.7	95.0	98.0	98.0	98.3	91.7	86.7	94.7	92.0	88.7	90.7	93.3
8	CP.804	92.3	89.3	92.7	91.4	87.0	97.7	97.0	93.5	89.7	93.0	103.3	99.0	95.7	98.3	97.7	98.8	89.3	85.3	93.0	90.7	86.0	88.9	93.2
9	JKMH 4153	97.3	89.0	92.3	92.9	91.7	98.7	97.3	96.0	91.7	95.1	106.7	99.3	99.3	98.0	103.7	101.4	89.7	86.3	96.3	92.3	89.0	90.7	95.3
10	Super-6030	96.0	88.7	95.0	93.2	87.7	97.0	95.0	93.5	92.7	93.2	102.0	97.3	98.0	97.3	94.3	97.8	95.7	84.3	93.7	93.7	87.7	91.0	93.9
11	GK3141	86.3	81.3	96.3	88.0	84.7	97.0	97.0	91.0	88.3	91.6	99.7	96.7	91.0	94.3	99.7	96.3	86.3	84.3	91.3	90.0	88.7	88.1	91.3
12	DAS-MH-111	91.7	89.0	91.0	90.6	84.7	98.0	96.3	92.0	89.3	92.1	100.7	98.3	92.0	93.3	103.3	97.5	87.7	85.3	89.7	90.7	87.3	88.1	92.2
13	IMHW1541	94.3	88.0	96.3	92.9	87.3	98.7	95.7	93.0	92.7	93.5	102.7	97.3	101.3	95.3	98.0	98.9	88.7	85.3	95.3	93.7	87.0	90.0	93.9
14	PM15101L	96.0	88.7	94.3	93.0	94.0	98.0	96.0	96.0	93.7	95.5	103.7	97.7	94.7	96.7	105.0	99.5	87.3	86.0	95.7	94.3	87.0	90.1	94.7
15	IMH1533	86.7	90.7	95.7	91.0	85.7	93.0	97.0	91.5	92.3	91.9	100.7	95.3	91.0	94.3	97.7	95.8	86.7	86.7	89.0	90.7	87.7	88.1	91.8
16	HT 515387	95.0	89.0	90.3	91.4	85.7	96.3	98.0	94.5	90.3	93.0	102.0	96.3	101.0	93.7	108.0	100.2	87.7	84.7	94.0	90.3	86.3	88.6	93.5
17	JH 13341	90.0	90.7	92.7	91.1	85.0	97.3	95.0	91.5	95.3	92.8	102.7	98.3	90.0	98.7	95.0	96.9	87.7	84.3	90.7	87.7	88.0	87.7	92.3
18	MFH-6-15	94.0	88.7	95.3	92.7	87.3	99.7	97.0	94.0	92.7	94.1	105.0	100.0	97.3	97.3	95.0	98.9	92.7	85.0	95.0	92.0	87.3	90.4	94.2
19	HM15310	93.0	84.3	94.7	90.7	84.7	97.7	94.0	94.5	93.7	92.9	101.3	98.7	98.0	93.0	99.7	98.1	87.7	84.3	92.7	92.7	87.0	88.9	92.9
20	CMH12-661	92.3	86.0	95.7	91.3	86.7	98.0	94.3	94.5	96.7	94.0	104.3	98.0	96.3	97.7	100.0	99.3	92.7	85.7	93.0	93.7	87.7	90.5	94.1
21	MAH-K14-4	86.0	86.3	92.7	88.3	85.3	96.3	96.0	89.0	93.3	92.0	103.0	97.3	91.0	95.3	98.0	96.9	87.7	85.3	89.7	91.3	85.7	87.9	91.6
22	IMH1530	89.7	83.0	96.3	89.7	85.7	94.3	95.0	91.5	92.3	91.8	98.7	94.0	90.3	90.7	96.0	93.9	85.3	84.0	90.3	90.7	86.3	87.3	90.8
23	DMRH1417	91.7	87.0	95.3	91.3	86.0	96.3	96.0	95.0	88.3	92.3	98.7	97.7	93.3	93.3	94.7	95.5	85.3	85.3	92.3	90.7	87.0	88.1	91.9
24	ANJAN	88.7	85.7	93.3	89.2	87.0	95.0	98.0	92.0	92.3	92.9	99.7	96.0	99.7	94.0	99.3	97.7	85.7	83.3	93.3	90.3	87.3	88.0	92.3
25	PM15105L	93.0	89.0	90.7	90.9	88.7	95.0	97.0	96.0	93.3	94.0	101.7	97.3	98.3	95.3	104.0	99.3	87.7	85.3	91.0	91.3	86.0	88.3	93.4
26	IMH1528	94.0	89.7	92.3	92.0	85.7	95.0	96.7	93.5	90.3	92.2	100.0	95.7	96.7	97.0	95.0	96.9	85.3	84.3	89.3	91.0	85.7	87.1	92.1
27	CMH12-678	91.0	83.7	97.3	90.7	86.0	95.0	96.0	90.0	89.3	91.3	99.7	97.7	94.0	95.3	99.3	97.2	87.7	85.3	89.3	90.3	86.7	87.9	91.9
28	NMH-3662	94.7	89.7	95.7	93.3	91.3	99.3	95.7	92.5	91.7	94.1	103.3	99.0	96.0	97.3	98.0	98.7	85.0	85.3	93.3	94.3	85.7	88.7	93.8
29	QMH-1025	88.0	85.3	95.0	89.4	86.7	95.7	95.7	89.0	93.7	92.1	100.3	97.0	94.0	93.3	97.0	96.3	87.7	83.7	89.0	90.3	86.7	87.5	91.6
30	OMH 14-27	90.7	91.0	93.3	91.7	85.0	96.0	95.3	91.5	94.3	92.4	98.7	97.0	96.7	93.7	98.0	96.8	85.3	84.3	90.0	90.7	87.0	87.5	92.1
31	QMH-1232	90.3	82.3	94.3	89.0	83.7	95.7	97.0	89.0	89.3	90.9	97.3	97.0	90.7	93.3	97.3	95.1	86.7	85.3	92.3	90.7	88.3	88.7	91.1

Table No. 1 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK																						
		NWPZ				NEPZ						PZ						PZ						OV'L
		LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	86.0	83.7	96.7	88.8	84.3	95.3	97.0	93.0	89.3	91.8	101.7	96.3	95.7	94.0	100.0	97.5	87.3	85.7	88.3	93.3	87.3	88.4	91.9
33	DKC9163	93.3	89.0	95.7	92.7	87.7	99.3	97.3	93.5	96.3	94.8	99.3	100.0	96.7	98.0	99.7	98.7	91.7	84.3	96.0	92.3	86.3	90.1	94.3
34	JKMH 4444	93.0	89.7	90.0	90.9	88.7	96.3	96.0	94.0	93.3	93.7	100.7	98.0	93.0	95.7	104.7	98.4	87.7	85.0	88.7	92.0	85.7	87.8	92.9
35	IIMRNH 2015-10	91.0	86.0	92.7	89.9	85.3	97.3	97.0	92.0	94.7	93.3	101.3	99.3	98.3	96.7	96.7	98.5	85.7	85.7	95.0	92.7	87.0	89.2	93.0
36	QMH-1231	88.3	90.0	92.0	90.1	85.0	93.7	94.0	95.5	90.3	91.7	98.0	94.0	92.7	92.7	95.0	94.5	85.3	84.7	90.7	86.7	87.7	87.0	90.9
37	EH-2371	90.7	82.3	90.7	87.9	85.0	96.7	96.0	91.5	88.3	91.5	102.3	94.3	96.3	97.0	98.0	97.6	88.7	85.7	92.0	92.7	87.0	89.2	92.0
38	CCH 4039	90.3	89.3	87.7	89.1	87.7	97.3	94.3	92.5	84.7	91.3	101.3	97.3	96.7	94.3	97.7	97.5	85.3	84.7	90.0	90.7	88.3	87.8	91.7
39	IMH1524	86.0	83.7	88.0	85.9	86.0	96.3	96.7	94.5	87.3	92.2	99.7	97.0	93.3	93.3	98.0	96.3	87.3	84.0	89.3	94.3	86.0	88.2	91.2
40	PM15102L	94.7	89.0	89.7	91.1	87.7	96.7	97.0	95.0	90.3	93.3	100.0	98.0	99.3	95.3	102.0	98.9	90.3	85.3	94.3	89.3	86.3	89.1	93.4
41	KH-440	94.3	87.3	91.3	91.0	87.3	96.0	94.0	95.0	90.7	92.6	102.3	99.7	98.3	94.3	104.7	99.9	87.3	85.0	93.3	92.7	89.0	89.5	93.5
42	MAH-K14-2	95.7	88.0	92.0	91.9	86.3	98.3	96.7	94.5	93.7	93.9	101.7	97.7	92.0	95.0	99.7	97.2	86.7	87.0	90.0	95.0	88.7	89.5	93.3
43	VNR-31565	96.3	91.0	90.7	92.7	85.3	97.0	96.0	94.5	92.7	93.1	102.7	97.0	99.7	94.7	105.0	99.8	84.7	85.7	94.7	91.7	86.7	88.7	93.7
44	IIMRNH 2015-9	92.0	88.0	87.7	89.2	84.7	93.3	96.7	93.5	92.7	92.2	98.0	95.0	95.7	94.3	98.0	96.2	86.7	87.7	91.7	92.3	87.0	89.1	91.9
45	PM15106L	91.7	91.3	89.7	90.9	87.7	96.3	97.7	93.5	91.3	93.3	102.3	95.0	98.7	97.0	97.7	98.1	86.3	84.0	92.7	92.0	85.3	88.1	92.8
46	SMH-3902	95.0	86.7	94.3	92.0	91.0	102.0	97.0	94.0	92.3	95.3	103.0	98.7	98.0	93.7	100.0	98.7	88.7	84.3	93.0	94.7	86.0	89.3	94.0
47	CMH12-688	91.7	83.0	92.3	89.0	86.3	98.3	95.0	91.0	90.3	92.2	100.3	96.7	95.7	94.3	104.0	98.2	87.3	84.3	90.3	90.3	87.3	87.9	92.1
48	DAS-MH-110	93.3	88.0	93.3	91.6	87.7	98.0	97.7	92.0	91.3	93.3	102.3	97.0	98.7	97.0	104.7	99.9	90.7	84.3	95.3	90.7	85.7	89.3	93.8
49	PM15104L	92.3	83.7	92.0	89.3	85.0	97.7	95.0	94.5	91.3	92.7	102.0	95.7	98.7	96.7	104.7	99.5	86.7	85.7	93.0	91.0	89.0	89.1	93.0
50	GH-1113	87.7	84.0	93.0	88.2	84.3	94.0	96.0	91.5	90.3	91.2	98.0	96.7	91.0	93.0	93.7	94.5	85.7	86.7	92.0	90.3	87.0	88.3	90.8
51	KNMH-4503	96.3	85.0	95.3	92.2	84.7	95.0	95.7	94.5	92.7	92.5	100.0	95.0	97.7	93.0	94.3	96.0	87.3	86.0	92.7	93.0	86.3	89.1	92.5
	CHECKS																							
52	PMH-1	91.3	85.3	92.0	89.6	87.3	97.3	95.0	91.5	88.7	92.0	102.3	97.0	97.7	96.7	102.0	99.1	86.3	86.0	90.7	92.7	89.0	88.9	92.7
53	PMH-3	92.3	86.7	90.7	89.9	86.7	97.7	98.0	92.5	95.7	94.1	102.0	98.7	95.7	96.0	102.0	98.9	87.7	84.7	94.7	90.0	86.3	88.7	93.2
54	Seedtech-2324	93.3	86.0	87.7	89.0	83.7	96.0	95.7	91.0	93.3	91.9	101.7	97.3	90.7	95.7	99.0	96.9	86.7	84.7	90.3	88.7	87.0	87.5	91.6
55	BIO-9681	87.7	90.0	88.0	88.6	85.0	92.7	95.0	90.0	87.7	90.1	97.0	94.7	90.3	89.7	94.0	93.1	85.3	83.7	89.3	90.0	87.7	87.2	89.9
	Loc. Mean	**91.9**	**87.1**	**92.9**	**90.6**	**86.6**	**96.8**	**96.1**	**92.9**	**91.6**	**92.8**	**101.2**	**97.3**	**95.5**	**95.2**	**99.5**	**97.7**	**87.5**	**85.1**	**92.0**	**91.5**	**87.0**	**88.6**	**92.6**
	C.D. (5%)	3.71	1.01	2.27	4.31	3.08	2.27	2.37	2.65	2.44	2.16	2.34	2.16	4.21	1.91	1.08	2.59	0.93	2.88	2.12	4.50	2.53	1.95	1.28
	C.V. (%)	2.50	0.72	1.51	2.94	2.20	1.45	1.52	1.43	1.64	1.87	1.43	1.37	2.72	1.24	0.67	2.12	0.66	2.10	1.42	3.04	1.80	1.77	2.12
	F (Prob)	0.00	0.00	0.00	0.34	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00	0.12	0.22	0.00	0.00

Table No. 1 (Continued)

		PLANT HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						PZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	241.7	208.3	188.3	260.3	224.7	169.3	216.2	199.7	182.5	225.8	198.7	229.0	197.0	217.7	249.7	169.2	208.8	211.9	148.3	210.0	193.3	256.7	157.7	193.2	206.5
2	TMMH 840	218.3	211.7	195.7	269.7	223.8	152.3	190.2	184.7	150.0	224.3	180.3	204.3	188.3	217.0	245.0	157.0	211.5	203.9	170.0	206.7	178.3	276.6	161.0	198.5	200.6
3	BRM 12-1	238.3	183.3	201.7	270.3	223.4	156.3	207.8	197.7	170.0	229.7	192.3	216.0	194.3	217.3	235.3	151.0	197.3	201.9	153.3	220.0	186.7	263.5	164.3	197.6	202.7
4	SRIKAR 3555	246.7	200.0	187.0	270.7	226.1	169.0	204.8	205.7	152.5	219.7	190.3	226.7	192.3	225.0	248.3	165.9	202.7	210.2	168.3	210.0	198.3	267.3	138.3	196.5	205.0
5	BH 413053	226.7	181.7	186.7	257.3	213.1	154.7	191.5	209.0	162.5	222.2	188.0	220.0	157.7	219.0	231.0	160.4	197.1	197.5	160.0	218.3	166.7	276.3	137.7	191.8	196.8
6	CP.802	220.0	201.7	193.3	269.3	221.1	154.3	200.5	186.3	160.0	222.3	184.7	226.7	190.7	225.3	248.7	170.6	212.5	212.4	170.0	208.3	191.7	254.3	154.3	195.7	203.0
7	JH 13339	243.3	211.7	199.7	282.0	234.2	200.7	227.5	203.3	182.5	225.8	208.0	254.7	202.7	231.3	259.0	189.3	217.7	225.8	200.0	231.7	216.7	247.2	167.7	212.6	219.7
8	CP.804	211.7	171.7	180.0	256.0	204.8	147.7	175.6	189.7	155.0	222.2	178.0	203.7	177.3	217.3	226.3	147.1	217.1	198.1	163.3	201.7	181.7	267.6	152.7	193.4	193.3
9	JKMH 4153	250.0	241.7	197.0	298.7	246.8	170.7	223.3	202.7	165.0	226.1	197.6	226.0	189.3	229.7	248.0	152.1	218.2	210.5	165.0	213.3	201.7	290.2	145.0	203.0	212.7
10	Super-6030	236.7	205.0	180.0	242.3	216.0	154.0	189.7	194.3	160.0	213.0	182.2	206.0	180.0	215.7	243.0	161.3	186.4	198.7	161.7	191.7	183.3	243.3	149.0	185.8	194.8
11	GK3141	215.0	191.7	177.3	258.7	210.7	155.0	194.5	187.3	157.5	222.4	183.3	217.7	189.7	222.7	243.3	142.0	196.8	202.0	160.0	208.3	175.0	252.5	152.0	189.6	196.0
12	DAS-MH-111	226.7	210.0	201.7	256.0	223.6	180.7	204.8	199.7	177.5	222.9	197.1	232.0	203.3	220.0	247.3	151.9	198.0	208.8	156.7	213.3	201.7	283.0	147.7	200.5	206.7
13	IMHW1541	228.3	201.7	198.0	260.0	222.0	149.0	193.9	190.0	150.0	218.3	180.2	216.3	184.7	216.3	232.7	150.3	180.0	196.7	166.7	201.7	178.3	270.6	159.3	195.3	197.3
14	PM15101L	243.3	190.0	177.3	280.3	222.8	170.0	197.5	196.3	170.0	230.1	192.8	218.3	177.3	216.7	241.3	152.0	220.6	204.4	188.3	200.0	203.3	244.7	154.3	198.1	203.6
15	IMH1533	221.7	183.3	191.7	259.7	214.1	145.7	178.1	190.3	157.5	206.3	175.6	201.0	161.7	216.3	232.0	141.8	178.3	188.5	156.7	193.3	161.7	218.6	144.7	175.0	187.0
16	HT 515387	240.0	206.7	199.7	279.0	231.3	166.3	191.5	205.3	175.0	235.1	194.7	224.7	202.7	224.0	237.3	162.1	209.4	210.0	160.0	186.7	176.7	262.3	159.3	189.0	205.2
17	JH 13341	245.0	201.7	185.7	291.3	230.9	200.3	217.8	210.0	180.0	227.9	207.2	244.0	205.0	217.7	243.0	180.4	207.1	216.2	180.0	206.7	196.7	269.1	147.0	199.9	212.8
18	MFH-6-15	220.0	203.3	200.7	266.0	222.5	146.7	201.8	176.0	147.5	227.2	179.8	208.3	186.0	217.7	235.7	156.5	184.1	198.0	161.7	198.3	200.0	235.2	152.0	189.4	196.2
19	HM15310	225.0	216.7	190.7	227.3	214.9	160.7	207.6	199.0	160.0	222.4	189.9	234.3	180.0	220.7	234.3	160.9	213.4	207.3	173.3	210.0	183.3	249.6	140.0	191.3	200.5
20	CMH12-661	258.3	215.0	183.7	276.0	233.3	179.0	196.9	198.0	177.5	229.8	196.2	244.3	209.0	221.7	252.7	178.8	220.6	221.2	190.0	208.3	210.0	270.5	149.3	205.6	213.5
21	MAH-K14-4	205.0	200.0	199.7	250.7	213.8	131.7	177.3	194.7	135.0	193.5	166.4	195.7	158.7	226.0	236.0	139.5	196.7	192.1	160.0	186.7	178.3	258.9	168.3	190.5	189.6
22	IMH1530	216.7	185.0	180.0	261.3	210.8	149.0	189.3	194.3	155.0	211.3	179.8	206.7	186.3	229.7	242.3	176.0	200.2	206.9	181.7	188.3	181.7	253.9	152.0	191.5	197.0
23	DMRH1417	226.7	188.3	197.0	245.7	214.4	166.3	183.9	195.0	152.5	215.9	182.7	212.0	192.3	217.0	234.3	159.0	186.4	200.2	163.3	211.7	181.7	245.1	150.3	190.4	196.2
24	ANJAN	218.3	215.0	188.3	258.7	220.1	149.0	205.3	201.3	160.0	223.8	187.9	212.7	181.7	213.0	238.0	156.8	208.8	201.8	180.0	220.0	180.0	277.6	167.7	205.1	202.8
25	PM15105L	210.0	200.0	195.7	274.0	219.9	163.0	212.9	186.7	160.0	158.8	176.3	228.3	182.3	221.7	242.7	160.6	196.8	205.4	178.3	201.7	181.7	252.5	147.7	192.4	197.8
26	IMH1528	223.3	168.3	201.7	243.3	209.2	150.7	179.9	184.0	142.5	210.9	173.6	199.3	159.0	208.7	215.0	140.9	168.7	181.9	163.3	218.3	151.7	267.5	149.3	190.0	187.3
27	CMH12-678	245.0	208.3	187.0	274.0	228.6	184.0	205.0	203.0	177.5	226.8	199.2	233.0	193.0	224.7	252.7	165.6	201.6	211.8	158.3	236.7	198.3	259.1	165.0	203.5	209.9
28	NMH-3662	235.0	191.7	186.7	265.7	219.8	169.0	214.4	197.0	187.5	230.7	199.7	231.7	194.3	213.0	243.3	167.8	231.3	213.6	175.0	221.7	201.7	281.5	146.7	205.3	209.3
29	QMH-1025	245.0	226.7	203.3	288.0	240.8	175.0	203.5	200.3	182.5	161.7	184.6	243.3	207.7	218.0	246.7	160.8	214.6	215.2	200.0	221.0	203.3	262.9	174.3	212.3	211.9
30	OMH 14-27	241.7	208.3	199.0	239.7	222.2	189.7	217.5	200.7	180.0	228.6	203.3	263.7	198.3	230.7	241.3	178.8	212.4	220.9	181.7	225.0	191.7	267.3	147.0	202.5	212.1
31	QMH-1232	251.7	176.7	205.0	268.0	225.3	187.3	227.1	231.0	180.0	229.7	211.0	244.7	213.0	221.0	247.7	174.3	206.3	217.8	200.0	211.7	191.7	282.2	148.7	206.8	214.9

Table No. 1 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)																								
		NWPZ					NEPZ													PZ						PZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	240.0	200.0	198.3	265.0	225.8	177.3	196.7	199.7	177.5	225.3	195.3	225.3	203.7	214.7	236.7	160.9	207.0	208.0	181.7	220.0	178.3	260.1	157.7	199.6	206.3
33	DKC9163	238.3	198.3	192.3	273.0	225.5	176.0	205.0	188.3	177.5	224.2	194.2	243.0	181.7	218.0	247.7	176.4	243.9	218.4	180.0	225.0	193.3	269.6	153.3	204.3	210.2
34	JKMH 4444	233.3	228.3	198.3	278.3	234.6	161.7	214.5	206.3	160.0	227.6	194.0	227.7	171.0	219.3	243.7	172.3	201.2	205.9	183.3	201.7	183.3	273.9	167.0	201.8	207.6
35	IIMRNH 2015-10	246.7	201.7	195.0	275.3	229.7	170.7	216.8	200.0	160.0	225.4	194.6	233.7	186.0	227.0	252.3	148.7	183.1	205.1	183.3	201.7	193.3	252.7	139.3	194.1	204.6
36	QMH-1231	218.3	201.7	202.0	283.7	226.4	176.7	215.9	200.0	182.5	228.3	200.7	243.7	204.0	220.7	245.3	157.5	207.3	213.1	181.7	230.0	180.0	276.6	147.7	203.2	210.2
37	EH-2371	243.3	221.7	197.7	254.0	229.2	173.0	205.9	212.3	177.5	232.8	200.3	228.7	206.3	225.7	254.3	179.1	222.3	219.4	181.7	230.0	205.0	256.2	135.3	201.6	212.1
38	CCH 4039	198.3	161.7	193.7	255.3	202.3	150.7	177.5	193.3	147.5	210.2	175.9	201.7	173.3	211.3	224.7	139.6	182.5	188.8	163.3	210.0	168.3	240.9	159.3	188.4	188.2
39	IMH1524	228.3	215.0	202.0	254.3	224.9	148.0	191.3	201.7	152.5	210.5	180.8	214.0	185.7	216.3	234.7	144.6	201.5	199.5	160.0	191.7	183.3	261.1	151.7	189.5	197.4
40	PM15102L	241.7	226.7	201.3	271.7	235.3	179.7	220.4	211.7	170.0	222.7	200.9	258.7	203.3	225.0	252.0	184.0	213.9	222.8	180.0	233.3	206.7	237.9	162.7	204.1	215.2
41	KH-440	230.0	205.0	196.7	271.0	225.7	156.3	203.9	203.7	150.0	217.2	186.2	197.7	149.3	219.0	236.7	143.8	195.9	190.4	173.3	220.0	200.0	241.1	136.7	194.2	197.4
42	MAH-K14-2	213.3	175.0	198.7	251.7	209.7	148.0	191.3	187.3	160.0	221.5	181.6	219.0	179.7	218.0	239.3	162.2	199.1	202.9	160.0	196.7	171.7	257.4	154.3	188.0	195.2
43	VNR-31565	245.0	210.0	197.7	270.7	230.8	176.3	219.7	206.7	177.5	224.7	201.0	227.0	198.3	216.7	235.0	145.2	204.7	204.5	150.0	228.3	208.3	274.0	153.0	202.7	208.4
44	IIMRNH 2015-9	200.0	176.7	199.3	263.3	209.8	161.7	202.6	201.7	160.0	218.1	188.8	224.0	177.7	221.0	239.0	150.2	191.7	200.6	163.3	208.3	183.3	276.2	137.0	193.6	197.8
45	PM15106L	238.3	201.7	193.0	274.3	226.8	171.7	211.5	220.7	160.0	222.3	197.2	235.7	182.3	223.3	242.3	153.7	206.3	207.3	178.3	205.0	193.3	269.9	145.0	198.3	206.4
46	SMH-3902	226.7	191.7	188.7	267.0	218.5	161.7	180.4	212.0	157.5	231.5	188.6	216.7	196.3	213.0	230.3	137.1	211.3	200.8	185.0	199.3	181.7	216.7	151.7	186.9	197.8
47	CMH12-688	236.7	203.3	187.3	264.0	222.8	159.0	214.6	193.0	175.0	216.8	191.7	233.0	204.7	220.3	245.7	163.9	202.8	211.7	173.3	223.3	191.7	260.1	155.3	200.8	206.2
48	DAS-MH-110	228.3	176.7	185.7	218.3	202.3	144.3	181.6	196.0	152.5	210.1	176.9	202.0	174.0	220.7	232.7	142.5	206.4	196.4	151.7	198.3	181.7	255.7	158.3	189.1	190.9
49	PM15104L	258.3	223.3	195.7	282.0	239.8	181.3	219.5	201.0	170.0	230.5	200.5	220.3	193.3	219.7	251.7	157.8	212.7	209.3	168.3	216.7	198.3	270.5	167.0	204.2	211.9
50	GH-1113	211.7	198.3	188.3	222.7	205.3	142.3	175.8	189.7	162.5	213.4	176.7	209.0	147.3	222.3	231.0	147.9	170.9	188.1	156.7	158.3	183.3	229.9	163.7	178.4	186.3
51	KNMH-4503	236.7	201.7	181.3	280.3	225.0	164.0	209.4	197.0	170.0	223.8	192.8	223.7	182.3	216.7	236.3	152.9	188.6	200.1	175.0	201.7	185.0	265.0	146.7	194.7	201.9
	CHECKS																									
52	PMH-1	260.0	248.3	198.3	289.7	249.1	185.7	225.3	203.7	187.5	224.2	205.3	239.3	205.3	221.7	256.0	159.6	202.6	214.1	180.0	230.0	211.7	263.6	151.7	207.4	217.2
53	PMH-3	248.3	226.7	190.0	291.0	239.0	190.3	213.1	184.3	175.0	224.5	197.5	237.3	205.3	225.0	254.7	163.0	200.7	214.3	170.0	206.7	201.7	264.6	163.7	201.3	211.8
54	Seedtech-2324	215.0	170.0	198.3	257.3	210.2	152.7	189.3	184.3	162.5	219.3	181.6	209.7	167.7	213.0	229.0	139.7	191.9	191.8	161.7	185.0	183.3	242.3	138.3	182.1	190.5
55	BIO-9681	211.7	211.7	190.3	280.7	223.6	157.3	197.5	205.3	167.5	223.5	190.2	228.3	179.7	217.7	234.3	153.5	175.4	198.2	161.7	220.0	180.0	254.5	146.7	192.6	199.9
	Loc. Mean	**231.3**	**201.5**	**193.3**	**265.4**	**222.9**	**164.8**	**202.0**	**198.4**	**165.4**	**219.9**	**190.1**	**224.1**	**187.2**	**220.0**	**241.1**	**158.5**	**202.3**	**205.5**	**170.9**	**209.5**	**188.6**	**259.6**	**152.6**	**196.2**	**202.8**
	C.D. (5%)	25.66	6.52	5.86	26.35	16.93	16.59	18.42	8.34	16.01	39.05	12.27	11.25	10.66	14.94	17.03	12.26	7.38	10.35	8.47	34.48	16.28	33.42	27.71	14.89	6.67
	C.V. (%)	6.85	2.00	1.87	6.14	5.44	6.22	5.64	2.60	4.83	10.97	5.18	3.10	3.52	4.20	4.36	4.78	2.25	4.43	3.06	10.17	5.33	7.95	11.22	6.08	5.30
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.01	0.65	0.00	0.00

Table No. 1 (Continued)

		EAR HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRNH 2015-8	131.7	103.3	65.0	114.0	103.5	73.3	87.7	86.3	75.0	111.4	86.7	85.0	85.3	108.7	133.3	79.9	113.3	100.9	55.0	98.3	91.7	110.8	73.7	85.9	94.1
2	TMMH 840	108.3	126.7	77.7	130.0	110.7	70.3	86.5	76.3	82.5	105.4	84.2	80.3	87.3	109.7	123.3	79.8	106.1	97.8	70.0	95.0	81.7	113.7	82.7	88.6	94.7
3	BRM 12-1	110.0	96.7	64.7	127.3	99.7	72.0	95.9	87.7	77.5	120.7	90.7	91.3	96.0	109.7	131.7	79.5	109.7	103.0	63.3	101.7	100.0	106.3	79.3	90.1	96.0
4	SRIKAR 3555	150.0	110.0	73.7	121.7	113.8	72.7	90.1	88.7	72.5	103.8	85.6	84.7	86.3	114.3	130.3	83.7	116.2	102.6	61.7	88.3	88.3	107.3	72.0	83.5	95.8
5	BH 413053	115.0	86.7	62.7	114.7	94.8	66.7	86.2	85.3	70.0	82.6	78.2	78.3	59.3	110.3	121.7	74.3	103.7	91.3	55.0	93.3	71.7	116.1	69.3	81.1	86.1
6	CP.802	116.7	100.0	72.3	131.7	105.2	75.0	77.3	81.7	77.5	119.8	86.3	92.3	89.0	105.3	143.3	83.3	117.3	105.1	70.0	98.3	93.3	109.4	75.3	89.3	96.4
7	JH 13339	131.7	110.0	82.3	138.7	115.7	99.0	106.2	99.3	97.5	109.6	102.3	107.7	102.3	115.0	149.0	95.5	121.1	115.1	95.0	115.0	110.0	112.7	79.3	102.4	108.9
8	CP.804	111.7	95.0	92.7	118.0	104.3	70.7	73.6	85.3	75.0	111.0	83.1	83.3	85.3	102.7	115.7	79.7	120.9	97.9	63.3	96.0	86.7	103.1	72.0	84.2	92.1
9	JKMH 4153	125.0	131.7	91.7	136.3	121.2	69.3	102.3	98.3	77.5	107.0	90.9	84.7	84.7	107.0	133.7	72.0	125.5	101.3	60.0	98.3	88.3	124.9	73.7	89.0	99.6
10	Super-6030	128.3	90.0	100.0	106.7	106.3	73.3	81.3	89.3	80.0	98.7	84.5	78.0	81.0	111.7	124.7	71.9	105.5	95.5	61.7	85.0	70.0	95.3	73.3	77.1	90.3
11	GK3141	108.3	116.7	86.7	128.0	109.9	78.3	91.6	85.3	90.0	116.2	92.3	94.0	92.7	111.0	134.7	84.9	111.7	104.8	70.0	105.0	88.3	110.8	72.7	89.4	98.8
12	DAS-MH-111	113.3	100.0	100.3	110.0	105.9	81.3	91.1	83.3	90.0	103.1	89.8	91.0	85.7	106.7	134.7	80.6	115.0	102.3	65.0	95.0	91.7	121.4	73.7	89.3	96.6
13	IMHW1541	115.0	95.0	102.0	115.0	106.8	62.7	78.5	80.0	70.0	93.1	76.9	80.3	72.3	111.0	124.0	71.6	96.7	92.7	80.0	85.0	70.0	109.3	82.7	85.4	89.7
14	PM15101L	123.3	98.3	98.0	122.0	110.4	78.3	80.8	87.7	82.5	113.4	88.5	81.7	86.0	114.3	126.7	72.5	121.6	100.5	83.3	93.3	88.3	105.7	75.3	89.2	96.7
15	IMH1533	115.0	105.0	92.7	121.0	108.4	71.0	75.1	86.3	75.0	94.3	80.4	72.7	72.7	98.0	117.3	67.8	99.0	87.9	68.3	90.0	73.3	99.7	75.3	81.3	88.5
16	HT 515387	118.3	108.3	98.7	125.3	112.7	72.0	80.5	101.0	87.5	107.4	89.7	87.3	93.0	114.7	116.7	74.9	109.7	99.4	63.3	110.0	86.7	103.8	83.7	89.5	97.1
17	JH 13341	121.7	98.3	87.3	142.7	112.5	96.0	83.1	107.3	92.5	112.3	98.3	107.0	101.0	108.3	125.0	82.5	111.1	105.8	85.0	105.0	93.3	121.3	71.0	95.1	102.6
18	MFH-6-15	101.7	98.3	97.0	120.7	104.4	65.7	85.9	81.7	75.0	105.8	82.8	76.3	83.0	112.0	124.7	71.9	96.5	94.1	58.3	86.7	90.0	96.7	61.0	78.5	89.4
19	HM15310	110.0	106.7	102.3	105.3	106.1	67.3	90.3	92.7	77.5	108.5	87.3	88.7	77.7	109.0	122.3	79.2	118.3	99.2	80.0	105.0	78.3	100.5	66.0	86.0	94.3
20	CMH12-661	138.3	120.0	98.7	134.3	122.8	86.7	87.1	93.3	92.5	118.5	95.6	108.7	106.3	109.3	157.7	86.8	122.0	115.1	88.3	98.3	95.0	113.5	72.7	93.6	106.4
21	MAH-K14-4	98.3	85.0	99.0	120.0	100.6	56.3	84.8	90.7	62.5	100.3	78.9	76.7	69.3	111.0	122.3	64.7	117.2	93.5	71.7	83.3	83.3	102.8	82.0	84.6	89.1
22	IMH1530	111.7	90.0	92.7	114.7	102.3	68.0	79.9	90.7	77.5	99.1	83.0	75.3	82.0	111.0	115.3	79.5	107.5	95.1	85.0	93.3	76.7	98.3	76.7	86.0	91.2
23	DMRH1417	120.0	103.3	91.7	122.7	109.4	89.0	85.4	103.0	85.0	105.9	93.7	94.7	107.0	107.3	132.3	88.3	117.9	107.9	78.3	106.7	91.7	103.9	73.7	90.8	100.4
24	ANJAN	98.3	113.3	65.0	103.7	95.1	59.3	85.3	94.3	72.5	104.4	83.2	63.0	64.0	109.7	130.7	65.0	99.5	88.6	63.3	98.0	78.3	102.4	74.3	83.3	87.2
25	PM15105L	113.3	118.3	77.7	127.3	109.2	75.7	83.9	90.0	77.5	111.1	87.6	90.3	85.0	112.3	132.7	68.6	118.3	101.2	88.3	95.0	86.7	104.9	72.0	89.4	96.5
26	IMH1528	116.7	98.3	64.7	122.0	100.4	72.3	88.0	78.0	67.5	104.7	82.1	83.3	74.3	106.3	115.0	69.5	97.8	91.0	80.0	99.3	73.3	111.8	70.3	87.0	89.7
27	CMH12-678	136.7	118.3	73.7	138.3	116.8	81.3	95.2	89.0	100.0	113.5	95.8	98.0	97.3	113.0	148.7	87.9	115.9	110.1	70.0	111.7	91.7	106.3	70.3	90.0	102.8
28	NMH-3662	123.3	106.7	87.0	122.3	109.8	83.3	89.2	95.0	105.0	118.4	98.2	103.7	88.0	118.7	141.3	86.0	132.0	111.6	85.0	106.7	90.0	114.9	84.3	96.2	104.0
29	QMH-1025	121.7	105.0	85.3	133.7	111.4	74.0	81.9	88.0	90.0	103.7	87.5	101.7	98.3	109.7	127.7	82.0	107.4	104.5	85.0	101.7	96.7	103.6	82.7	93.9	99.0
30	OMH 14-27	123.3	103.3	78.3	100.7	101.4	88.7	83.1	85.3	87.5	105.7	90.1	108.7	91.7	116.3	125.7	88.8	117.1	108.0	86.7	111.7	78.3	107.7	69.3	90.7	97.9
31	QMH-1232	136.7	91.7	88.0	131.0	111.8	86.0	91.2	113.0	97.5	116.1	100.8	101.3	101.3	109.3	128.7	85.9	108.9	105.9	75.0	108.3	85.0	116.9	72.7	91.6	102.2

Table No. 1 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
32	IMH1527	130.0	103.3	91.0	116.3	110.2	80.0	78.1	94.0	92.5	99.8	88.9	85.0	88.7	105.7	122.7	75.7	117.9	99.3	80.0	103.3	81.7	97.2	82.7	89.0	96.3
33	DKC9163	118.3	120.0	94.3	135.7	117.1	85.8	96.1	80.7	85.0	114.8	92.5	103.3	81.7	110.0	142.7	92.2	133.2	110.5	85.0	106.7	80.0	121.7	81.0	94.9	103.4
34	JKMH 4444	108.3	133.3	98.0	133.3	118.3	76.7	89.4	97.0	82.5	110.0	91.1	89.7	77.3	109.3	125.3	81.8	101.1	97.4	86.7	106.7	86.7	116.5	82.7	95.8	99.6
35	IIMRNH 2015-10	128.3	91.7	98.0	134.7	113.2	76.7	92.3	94.0	72.5	94.8	86.1	90.0	88.0	111.7	152.0	71.2	96.2	101.5	85.0	90.0	95.0	105.5	73.7	89.8	97.1
36	QMH-1231	116.7	108.3	95.7	139.3	115.0	82.3	91.4	102.3	87.5	118.7	96.5	96.0	99.3	109.0	131.0	81.1	110.8	104.5	78.3	110.0	78.3	125.8	70.0	92.5	101.6
37	EH-2371	125.0	115.0	97.0	120.3	114.3	79.0	81.5	105.7	77.5	109.8	90.7	88.7	92.0	106.0	144.3	81.7	120.2	105.5	85.0	101.7	93.3	108.5	68.0	91.3	100.0
38	CCH 4039	111.7	80.0	97.0	126.0	103.7	79.3	78.7	92.3	82.5	101.1	86.8	85.3	91.3	108.7	120.7	75.6	111.7	98.9	81.7	89.0	88.3	97.2	78.7	87.0	93.8
39	IMH1524	126.7	111.7	99.0	122.0	114.8	75.3	76.8	98.7	75.0	106.9	86.5	86.3	91.0	108.3	123.3	84.4	103.9	99.6	83.3	85.0	78.3	107.6	71.0	85.1	95.7
40	PM15102L	116.7	111.7	99.7	116.0	111.0	74.7	91.5	94.7	75.0	102.8	87.7	91.0	87.7	116.0	146.3	91.0	121.3	108.9	73.3	95.0	85.0	96.8	79.3	85.9	98.3
41	KH-440	113.3	95.0	94.0	120.0	105.6	62.3	83.5	88.7	77.5	96.3	81.7	69.0	62.7	113.3	117.7	69.3	95.5	87.9	63.3	100.0	76.7	88.3	66.0	78.9	87.6
42	MAH-K14-2	103.3	80.0	93.0	111.3	96.9	71.3	80.5	79.7	75.0	107.9	82.9	85.3	70.7	107.7	129.7	77.9	116.1	97.9	73.3	80.0	71.7	116.5	72.0	82.7	90.2
43	VNR-31565	125.0	110.0	94.7	126.7	114.1	83.7	86.9	97.0	82.5	103.3	90.7	90.7	91.0	113.0	122.7	71.0	107.9	99.4	66.7	102.7	83.3	114.8	76.7	88.8	97.5
44	IIMRNH 2015-9	78.3	98.3	91.3	111.7	94.9	67.3	84.3	86.3	75.0	87.4	80.1	74.7	68.3	112.0	115.3	68.5	98.4	89.5	63.3	95.0	61.7	106.1	74.3	80.1	85.9
45	PM15106L	121.7	111.7	85.0	126.0	111.1	91.3	81.4	112.7	72.5	108.9	93.4	97.7	92.7	116.3	137.7	77.7	117.3	106.6	85.0	95.0	78.3	112.1	74.3	88.9	99.8
46	SMH-3902	106.7	106.7	80.7	119.0	103.3	75.7	78.7	96.3	70.0	115.7	87.3	75.7	75.7	106.3	122.7	64.9	113.7	93.2	86.7	95.0	83.3	77.3	69.3	82.3	91.0
47	CMH12-688	116.7	100.0	86.0	119.3	105.5	72.3	96.3	91.0	85.0	101.4	89.2	91.3	94.0	114.0	131.7	82.2	116.0	104.9	68.3	103.3	96.7	103.5	79.3	90.2	97.4
48	DAS-MH-110	111.7	73.3	84.3	93.3	90.7	64.0	80.1	79.7	72.5	102.3	79.7	73.3	75.7	103.7	115.7	65.4	100.7	89.1	63.3	88.3	75.0	100.1	73.7	80.1	84.8
49	PM15104L	118.3	115.0	78.7	119.0	107.8	73.7	92.5	87.7	72.5	103.8	86.0	77.3	70.7	118.3	127.7	68.8	98.5	93.5	73.3	101.7	78.3	96.9	85.0	87.0	92.9
50	GH-1113	105.0	103.3	92.3	99.0	99.9	75.3	81.5	83.3	80.0	107.6	85.6	80.7	62.0	115.3	112.7	72.7	96.1	89.9	60.0	75.0	76.7	86.2	76.0	74.8	87.0
51	KNMH-4503	125.0	116.7	91.0	136.3	117.3	72.7	96.7	96.7	80.0	109.3	91.1	81.0	85.7	122.0	125.3	79.1	110.1	100.5	73.3	93.3	93.3	114.1	73.0	89.4	98.7
	CHECKS																									
52	PMH-1	138.3	148.3	89.7	147.3	130.9	86.7	98.5	100.3	107.5	119.3	102.5	101.0	100.7	114.0	155.7	80.2	112.5	110.7	80.0	101.7	101.7	105.6	69.7	91.7	107.9
53	PMH-3	116.7	125.0	88.0	143.0	118.2	93.0	102.2	82.7	97.5	116.4	98.4	97.7	107.7	114.0	152.0	81.9	119.9	112.2	85.0	106.7	100.0	103.2	77.0	94.4	105.5
54	Seedtech-2324	120.0	85.0	98.7	132.3	109.0	80.0	93.1	84.3	90.0	110.0	91.5	93.0	89.3	99.7	121.7	74.6	112.6	98.5	63.3	85.0	90.0	103.8	69.7	82.4	94.8
55	BIO-9681	96.7	101.7	96.3	123.3	104.5	66.7	86.1	91.3	67.5	98.2	82.0	87.3	73.0	110.7	111.3	66.9	83.9	88.9	70.0	106.7	75.0	104.5	67.0	84.6	89.2
	Loc. Mean	**117.7**	**105.0**	**88.4**	**123.1**	**108.5**	**76.0**	**86.9**	**91.1**	**81.4**	**106.8**	**88.4**	**88.0**	**85.5**	**110.5**	**129.4**	**77.7**	**110.8**	**100.3**	**74.2**	**97.7**	**85.0**	**106.6**	**74.6**	**87.6**	**95.8**
	C.D. (5%)	21.64	4.72	6.89	17.61	15.40	15.26	10.60	6.60	16.79	15.20	8.37	7.54	9.01	13.10	17.68	6.52	6.03	7.94	7.93	20.82	13.01	20.92	16.86	9.80	4.98
	C.V. (%)	11.36	2.78	4.81	8.84	10.16	12.41	7.54	4.47	10.29	8.79	7.59	5.29	6.52	7.32	8.44	5.19	3.36	6.97	6.61	13.16	9.46	12.12	13.96	8.97	8.37
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.02	0.84	0.00	0.00

TABLE No. 2 **PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, VARANSI, BHUBANESHWAR, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN NIVT TRIAL No. TR61B (NIVT-L) DURING KHARIF (2015)**

	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
Sl									NWPZ												NEPZ							
No	PEDIGREE	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R	HYDE	R	KARI	R	DHAR	R
1	ADV 7139	9865	30	11926	37	9628	37	9188	46	10152	42	2363	44	4931	47	5333	20	6049	7	6944	27	5736	37	8489	3	7040	17	9285	12
2	ADV 7022	12889	3	13926	15	9229	42	9868	44	11478	20	1914	53	9493	1	5984	7	4391	36	7954	10	7810	2	8050	9	7109	14	9126	14
3	MAH-K14-1	10137	27	14053	14	9839	35	10483	38	11128	26	2564	38	6830	21	4606	35	3475	48	6867	30	6101	28	6834	20	6730	24	7228	44
4	PM15108L	10873	20	10063	47	8886	45	13172	7	10749	35	2139	48	4652	53	4917	29	3318	51	8136	4	5902	32	5951	35	5058	50	7136	47
5	AH7000	8480	46	11026	42	10565	27	7641	51	9428	49	3423	7	5962	36	5008	25	3399	50	4785	51	5251	43	5019	50	6006	37	7355	41
6	KMH-1311	12091	8	10426	45	11555	12	12436	13	11627	16	2829	32	7880	8	5372	18	5177	13	7129	23	6794	10	6084	32	6610	27	8682	21
7	Aadi	9217	37	13285	21	11045	20	11174	28	11180	25	2671	36	6913	15	5000	27	3604	46	7942	11	6618	17	5166	49	6802	23	9341	10
8	IMH1534	8252	48	12829	25	11603	11	10481	39	10791	34	2903	28	5535	41	4446	42	4724	26	5682	41	5221	45	6046	34	5429	46	6617	52
9	EH-2588	8901	40	8544	51	11897	9	10950	31	10073	44	2481	40	4871	50	5033	24	4933	20	5690	40	5198	46	5355	46	5922	39	6479	53
10	DKC8166	11861	13	10459	44	11937	8	11895	19	11538	17	2402	42	6369	33	5420	15	5131	16	7064	25	6284	22	6600	26	6949	19	9534	7
11	JH 13336	9921	29	10948	43	11206	18	9747	45	10456	40	3558	5	6623	26	4805	31	5010	19	5916	36	5781	36	8454	4	4140	52	7506	39
12	RMH-726	8075	49	13373	20	10512	29	10997	30	10739	36	3227	14	4720	51	4258	47	5165	15	5639	42	4872	49	8586	2	5282	47	8752	20
13	ZASL-986	11328	16	11673	38	13130	1	13427	5	12390	5	2336	45	4943	46	5110	23	4236	38	7886	12	5980	30	6830	21	7191	13	7738	35
14	IMH1526	12188	5	12190	34	11152	19	12248	14	11945	11	3219	15	6527	29	6111	3	4180	39	6636	33	6425	20	5769	38	7349	7	9477	9
15	CMH12-686	12164	7	10009	49	10642	26	11314	25	11032	30	2804	34	7435	9	5825	10	6506	3	11120	1	8127	1	6798	22	7389	5	9927	4
16	BL 103	13859	1	16901	3	11636	10	14276	2	14168	1	2956	27	6824	22	4762	32	6317	4	7068	24	6218	24	7499	13	6140	34	8682	22
17	DH-296	9719	31	12429	30	10726	24	12509	12	11346	21	2388	43	6875	17	6035	6	4334	37	5636	43	6182	26	4649	52	5268	48	7181	45
18	GK3144	12091	9	12836	24	11011	21	12134	17	12018	9	3324	10	8207	5	4539	38	4636	28	7761	14	6836	9	6863	19	5876	40	10534	2
19	OMH 14-19	9239	36	15004	10	11272	17	12867	8	12096	8	1658	54	6861	19	4551	36	4653	27	3772	54	5061	48	6464	28	6597	28	8040	33
20	DKC9164	13699	2	12292	33	10533	28	12732	10	12314	6	2566	37	6470	31	6516	1	4746	23	7843	13	6943	5	8410	5	7066	16	8384	26
21	SAFAL X-2	9411	35	12977	22	11443	15	10376	40	11052	28	3008	26	6543	28	4442	43	4556	32	8964	3	6649	14	6276	30	5758	44	9503	8
22	RMH-748	10688	23	13511	18	11316	16	11030	29	11636	14	3234	13	6749	23	4106	48	5173	14	6885	29	5913	31	6046	33	7386	6	8874	16
23	HM15313	9675	32	5486	54	13048	2	10874	32	9771	45	2312	46	5724	40	4550	37	6256	5	7374	19	5883	35	7203	15	6516	31	8294	28
24	VNR-34229	10733	22	12361	31	11494	13	10148	42	11184	24	3053	24	4696	52	3971	49	5044	17	5226	47	4631	54	4819	51	6912	20	7693	37
25	BH 413055	6923	52	11383	40	10024	33	7466	52	8949	53	1977	51	5136	45	3848	52	4728	25	5328	45	4771	52	5817	37	3527	54	8102	32
26	HKH 425	8728	42	12708	27	10409	31	7208	53	9763	47	2136	49	5368	44	3740	53	3010	53	7400	18	5503	41	5517	44	5985	38	8430	25
27	BL 108	9529	33	12645	28	9860	34	12738	9	11193	23	2847	29	6369	32	4298	45	4770	22	8090	7	6252	23	5209	48	6175	33	8954	15
28	SYN516753	11029	18	13416	19	10947	22	12567	11	11990	10	3388	8	8861	2	4372	44	4068	40	6749	31	6661	13	7716	11	5810	43	9261	13
29	BRM 12-6	8660	43	15074	9	11982	6	8528	50	11061	27	2790	35	6188	35	3698	54	4556	31	4534	52	4806	51	5664	40	6520	29	7722	36
30	PM15103L	10139	26	15262	7	11468	14	13489	4	12589	3	4121	2	7908	7	5540	13	4563	30	7236	21	6895	8	8194	6	6667	25	7311	42
31	MAH-K14-3	8990	38	12961	23	12246	4	11769	21	11491	18	3663	4	6315	34	4958	28	3148	52	7180	22	6151	27	5570	42	7568	2	8818	19
32	DH-295	10232	25	14278	11	10787	23	12059	18	11839	12	3388	9	6969	14	5390	16	4409	35	7755	15	6705	12	8612	1	7464	4	8304	27
33	DKC8144	12505	4	15341	6	10216	32	10833	33	12224	7	3165	18	7947	6	6110	4	4453	34	6989	26	7015	4	6318	29	6395	32	7598	38
34	KNMH-4506	5242	54	7894	52	9644	36	8935	49	7929	54	2057	50	4599	54	4720	33	1513	54	4938	50	4752	53	5520	43	4007	53	5400	54
35	VNR-32971	8637	44	12153	35	9519	38	10690	35	10250	41	3771	3	5910	37	4511	39	6068	6	8135	5	6185	25	8092	7	7289	8	7155	46

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		NWPZ																		NEPZ							
		LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R	HYDE	R	KARI	R	DHAR	R
36	IIMRNH 2015-7	8286	47	12577	29	12351	3	9172	47	10597	38	3158	19	4894	49	4449	41	3464	49	5220	48	4854	50	5304	47	7039	18	7114	48
37	JH 13208	12027	11	8797	50	10427	30	11390	23	10660	37	3175	17	6891	16	5313	21	6813	1	8109	6	6771	11	6666	24	7197	12	8546	23
38	KMH-2852	11896	12	16765	4	11962	7	14638	1	13815	2	3102	20	6834	20	5703	11	5728	11	7349	20	6629	16	3295	54	7497	3	8857	17
39	DKC9167	12082	10	14197	12	10690	25	13246	6	12554	4	2844	30	8807	3	5447	14	5914	9	6547	34	6934	6	8088	8	7081	15	10339	3
40	BH 413027	7546	50	10402	46	12044	5	9007	48	9750	48	2838	31	7238	10	5919	9	4780	21	5843	39	6334	21	6909	17	5093	49	7101	49
41	IIMRNH 2015-6	9494	34	10045	48	8315	47	11223	27	9769	46	2453	41	5396	43	4474	40	4591	29	5871	37	5247	44	6710	23	6663	26	6810	51
42	Googul	8974	39	12014	36	9257	41	11798	20	10511	39	3013	25	5857	38	3921	50	5950	8	6737	32	5505	40	5718	39	7250	10	7895	34
43	JH 13346	11415	15	11656	39	9486	39	11377	24	10984	32	3079	22	6974	13	5376	17	4742	24	4491	53	5614	39	6644	25	6519	30	8830	18
44	BH 413036	10904	19	17030	2	8594	46	10688	36	11804	13	2537	39	5425	42	4711	34	3642	45	7538	17	5891	33	7515	12	5815	42	8491	24
45	DKC9168	11564	14	5980	53	7654	53	12203	16	9350	50	2810	33	6492	30	4262	46	5036	18	6908	28	5887	34	6881	18	6869	22	6852	50
46	CCH 1040	8831	41	12304	32	9271	40	10070	43	10119	43	3089	21	6741	24	5607	12	3748	44	5953	35	6100	29	5634	41	6131	35	8259	29
47	IMH1536	6983	51	11061	41	8929	44	10216	41	9297	51	3313	11	5736	39	5347	19	3915	42	5844	38	5643	38	5509	45	5859	41	7471	40
48	DKC8161	10813	21	13579	17	7688	52	11244	26	10831	33	3242	12	7087	11	6096	5	5819	10	9970	2	7718	3	7855	10	6905	21	9302	11
49	MFH-5-15	5902	53	16646	5	6740	54	6996	54	9071	52	2141	47	4910	48	5005	26	3851	43	5342	44	5086	47	4514	53	4904	51	7273	43
50	HT 515169	11152	17	13898	16	7948	49	13529	3	11632	15	1971	52	6604	27	6141	2	4486	33	8022	8	6923	7	7195	16	6063	36	8233	30
	CHECKS																												
51	PMH-1	12173	6	12766	26	7825	51	11396	22	11040	29	3061	23	8755	4	5932	8	6555	2	5244	46	6644	15	7446	14	7970	1	9628	6
52	PMH-3	10521	24	14174	13	9043	43	12225	15	11491	19	4605	1	7013	12	4838	30	5671	12	7650	16	6501	19	6567	27	7289	9	8187	31
53	Seedtech-2324	10017	28	15261	8	8164	48	10590	37	11008	31	3209	16	6637	25	5156	22	3925	41	8014	9	6602	18	6220	31	7218	11	10558	1
54	BIO-9681	8552	45	17864	1	7890	50	10795	34	11275	22	3519	6	6869	18	3856	51	3501	47	5196	49	5307	42	5881	36	5738	45	9836	5
	Location Mean	**10095**		**12568**		**10309**		**11112**		**11021**		**2885**		**6470**		**4990**		**4675**		**6780**		**6080**		**6501**		**6389**		**8296**	
	C.D. (5%)	2250		553		922		1557		1320		1415		1522		570		2231		912		1001		842		649		2279	
	C.V. (%)	13.77		2.72		5.52		8.65		**-**		**30.3**		14.53		7.06		**29.48**		8.31		**-**		8		6.28		16.96	
	F (Prob)	0		0		0		0				0.114		0		0		0.008		0				0		0		0.003	
	Plot Size	4.8		6		4.8		6		-		6		5.6		4.8		4.8		4.8		-		6		6		4.8	
	AGRONOMY DATA																												
	Sowing Date	29-06		29-06		8-08		24-06		-		3-07		21-07		25-06		26-06		2-07		-		27-06		26-06		3-08	
	Harvest Date	7-10		10-10		11-30		20-10		-		27-10		5-11		17-10		2-10		7-10		-		31-10		25-10		17-12	
	Irrigation Nos	7		6		3		1		-		2		-		-		1		-		-		4		10		3	
	Ferilizer Applied N	50		150		120		120		-		120		120		120		120		120		-		200		200		150	
	Ferilizer Applied P	24		60		60		60		-		60		60		60		60		60		-		60		60		75	
	Ferilizer Applied K	12		60		50		40		-		40		40		60		40		60		-		50		50		37.5	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2

Sl No	PEDIGREE	MAND	R	VAGA	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ MEAN	R	OV'L MEAN	R
1	ADV 7139	9147	17	5999	17	13444	2	8901	3	5884	23	5640	33	7331	22	8788	5	4902	17	6509	15	7987	22
2	ADV 7022	10430	2	7096	6	12620	11	9072	1	5496	29	6739	17	6177	41	8353	10	3237	52	6001	27	8543	5
3	MAH-K14-1	8298	30	5885	19	9498	40	7412	35	4277	44	3272	54	7591	16	7633	18	6218	3	5798	34	7571	33
4	PM15108L	8975	19	2611	54	9254	44	6498	49	5007	35	5076	47	5379	49	4783	50	4323	39	4914	53	6903	47
5	AH7000	5009	53	3801	46	8729	50	5987	51	5680	25	5198	46	5350	50	3774	52	4749	23	4950	52	6341	51
6	KMH-1311	9906	6	7012	7	12951	8	8541	7	5024	34	5483	38	6936	30	8705	8	4398	35	6109	23	8260	13
7	Aadi	9252	13	5742	22	13001	7	8217	11	4049	45	5408	39	8935	4	7368	24	4647	26	6081	24	8016	19
8	IMH1534	7278	41	5733	24	10040	33	6857	45	4678	37	5545	35	6241	40	7052	26	5348	7	5773	35	7158	43
9	EH-2588	7967	33	3815	45	9036	47	6429	50	7801	2	5348	42	6159	42	5776	43	4413	33	5900	29	6887	49
10	DKC8166	7805	35	6206	15	11832	15	8154	17	4310	43	8144	4	8952	3	5563	46	6269	2	6648	12	8176	15
11	JH 13336	9938	5	4503	40	10808	27	7558	32	6853	8	6934	12	7863	14	6755	33	4239	43	6529	14	7620	31
12	RMH-726	8153	32	4477	41	13006	6	8043	18	7444	5	6716	18	6551	32	6360	38	4283	42	6271	18	7621	30
13	ZASL-986	10361	3	4836	36	12141	14	8183	13	7389	6	5988	24	6726	31	7825	15	4396	36	6465	16	8273	12
14	IMH1526	8393	26	4205	44	11594	19	7798	26	3655	50	5896	27	8303	10	6501	37	5770	5	6025	25	7998	21
15	CMH12-686	8967	20	6550	10	11713	17	8557	6	6500	11	8079	5	8632	6	6613	35	7397	1	7444	3	8726	3
16	BL 103	9535	10	7268	2	9946	36	8178	14	3888	49	6910	14	7097	26	6780	32	4357	37	5806	32	8524	6
17	DH-296	6987	46	7119	4	9355	42	6760	46	3921	48	6909	15	6087	43	6556	36	4747	24	5644	39	7373	37
18	GK3144	7748	36	5536	27	13210	4	8294	10	3213	53	8991	2	8905	5	7992	12	4401	34	6700	10	8436	9
19	OMH 14-19	7045	45	4791	37	8987	48	6987	41	6160	17	5864	28	7289	24	3765	53	4529	29	5521	41	7394	36
20	DKC9164	11026	1	6421	12	12465	12	8962	2	6424	14	8231	3	8322	9	10558	1	4638	27	7635	1	9002	1
21	SAFAL X-2	7194	43	4588	38	13256	3	7763	29	4019	46	6923	13	5580	46	6672	34	4325	38	5504	42	7681	28
22	RMH-748	8539	24	7439	1	13541	1	8638	5	4502	39	7914	6	9892	1	8891	3	4601	28	7160	6	8440	8
23	HM15313	10206	4	6712	8	11213	22	8358	8	7488	4	7557	7	7064	27	7079	25	4692	25	6776	7	7820	24
24	VNR-34229	8566	23	4544	39	10881	25	7236	38	4695	36	5335	43	7460	19	7445	22	4838	21	5954	28	7323	39
25	BH 413055	6838	48	3001	53	7014	52	5717	52	6255	16	4529	52	5011	51	5499	47	4502	30	5159	50	6123	52
26	HKH 425	7686	37	4357	43	9257	43	6872	44	4367	41	5974	25	6350	38	5177	49	5585	6	5491	43	6903	48
27	BL 108	9502	11	5686	25	10120	31	7608	31	3585	52	5736	31	7056	28	6787	31	5306	8	5694	38	7647	29
28	SYN516753	9178	15	5863	20	9384	41	7868	21	8287	1	7309	9	7463	18	9054	2	5282	10	7479	2	8475	7
29	BRM 12-6	9838	7	5586	26	9989	35	7553	33	6085	19	5332	44	4898	53	5832	41	4834	22	5396	47	7276	40
30	PM15103L	9152	16	5833	21	12851	10	8335	9	6671	9	6451	21	8056	12	7779	16	4142	46	6620	13	8564	4
31	MAH-K14-3	9110	18	5148	31	10858	26	7845	22	3929	47	5397	40	5546	48	7531	19	5278	11	5536	40	7732	25
32	DH-295	9661	9	5020	33	9102	46	8027	19	4559	38	5856	29	7155	25	7674	17	3905	50	5830	30	8044	18
33	DKC8144	8347	27	6514	11	11817	16	7832	24	3591	51	5200	45	6534	33	7943	13	4032	49	5460	45	8013	20
34	KNMH-4506	5568	51	3515	51	6390	53	5067	54	5056	33	4951	50	6073	44	3501	54	5250	13	4966	51	5622	54
35	VNR-32971	9263	12	3585	50	11332	20	7786	27	4333	42	5543	36	6450	35	7834	14	4879	19	5807	31	7517	34

Sl No	PEDIGREE	PZ MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ MEAN	R	OV'L MEAN	R
36	IIMRNH 2015-7	4309	54	6389	13	9655	39	6635	47	6131	18	5786	30	7358	21	5802	42	5840	4	6184	20	7093	45
37	JH 13208	7600	38	6584	9	10474	29	7844	23	6906	7	7125	11	7794	15	8793	4	5261	12	7176	5	8105	16
38	KMH-2852	9233	14	7192	3	12938	9	8169	15	1848	54	4018	53	7318	23	8723	7	4426	32	5266	48	8361	10
39	DKC9167	8732	21	7110	5	11132	23	8747	4	7625	3	7442	8	7586	17	8726	6	4988	16	7274	4	8881	2
40	BH 413027	7815	34	4399	42	10217	30	6922	42	5558	27	5484	37	6454	34	5278	48	3472	51	5249	49	6988	46
41	IIMRNH 2015-6	8303	29	5020	34	9154	45	7110	40	6365	15	6600	20	7383	20	5677	44	4868	20	6179	21	7132	44
42	Googul	6722	50	4850	35	11260	21	7282	37	5545	28	5934	26	7022	29	6210	39	5302	9	6003	26	7348	38
43	JH 13346	9719	8	6256	14	8742	49	7785	28	6490	12	5556	34	8107	11	5853	40	2986	53	5799	33	7582	32
44	BH 413036	8708	22	5735	23	10606	28	7812	25	5630	26	6141	23	5556	47	5674	45	4301	40	5460	44	7726	26
45	DKC9168	8195	31	6183	16	10944	24	7654	30	6432	13	6786	16	8547	7	6798	30	5026	15	6718	9	7477	35
46	CCH 1040	7398	40	5365	29	10089	32	7146	39	4405	40	6235	22	6287	39	6832	28	4889	18	5730	37	7239	41
47	IMH1536	7127	44	5530	28	10005	34	6917	43	5179	32	5012	48	5007	52	6802	29	5089	14	5418	46	6817	50
48	DKC8161	8509	25	5036	32	11618	18	8204	12	6503	10	5366	41	9803	2	7451	21	2419	54	6308	17	8180	14
49	MFH-5-15	5109	52	3670	48	5840	54	5218	53	6026	20	4879	51	4545	54	4563	51	4155	44	4834	54	5946	53
50	HT 515169	8333	28	5997	18	13142	5	8161	16	5423	31	9535	1	6358	37	8443	9	4089	48	6770	8	8339	11
	CHECKS																						
51	PMH-1	7494	39	5360	30	9708	38	7934	20	5841	24	7306	10	7944	13	8056	11	4142	47	6658	11	8055	17
52	PMH-3	7196	42	3337	52	12441	13	7503	34	5492	30	4986	49	8513	8	7501	20	4498	31	6198	19	7860	23
53	Seedtech-2324	6737	49	3778	47	9785	37	7383	36	5933	22	6698	19	6377	36	7387	23	4284	41	6136	22	7712	27
54	BIO-9681	6855	47	3631	49	7767	51	6618	48	5989	21	5695	32	6006	45	7008	27	4155	45	5771	36	7199	42
	Location Mean	**8240**		**5341**		**10669**		**7573**		**5452**		**6166**		**7026**		**6922**		**4683**		**6050**		**7667**	
	C.D. (5%)	959		1373		887		1165		637		1105		2358		1488		1229		1363		1227	
	C.V. (%)	7.19		15.88		5.13		-		7.22		11.07		**20.73**		13.28		16.21		-		-	
	F (Prob)	0		0		0				0		0		0		0		0					
	Plot Size	5.6		4.8		4.8		-		4.8		4.8		6		6		2.4		-		-	
	AGRONOMY DATA																						
	Sowing Date	18-07		8-07		9-07		-		25-06		24-06		9-07		18-07		16-07		-		-	
	Harvest Date	11-12		5-11		27-10		-		5-10		18-10		8-11		-		28-10		-		-	
	Irrigation Nos	7		12		9		-		3		-		-		-		-		-		-	
	Ferilizer Applied N	150		150		150		-		120		150		120		120		100		-		-	
	Ferilizer Applied P	75		75		75		-		90		80		60		60		50		-		-	
	Ferilizer Applied K	40		75		75		-		-		-		40		40		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1																									
		NWPZ					NEPZ									PZ										CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	ADV 7139	-	-	23	-	-	-	-	-	-	32.4	-	14	-	-	22.1	11.9	38.5	12.2	0.7	-	-	9.1	18.4	-	-
2	ADV 7022	5.9	9.1	17.9	-	4	-	8.4	0.9	-	51.7	17.6	8.1	-	-	39.2	32.4	30	14.3	-	-	-	3.7	-	-	6.1
3	MAH-K14-1	-	10.1	25.7	-	0.8	-	-	-	-	31	-	-	-	-	10.7	9.8	-	-	-	-	-	-	50.1	-	-
4	PM15108L	-	-	13.6	15.6	-	-	-	-	-	55.2	-	-	-	-	19.8	-	-	-	-	-	-	-	4.4	-	-
5	AH7000	-	-	35	-	-	11.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.7	-	-
6	KMH-1311	-	-	47.7	9.1	5.3	-	-	-	-	36	2.3	-	-	-	32.2	30.8	33.4	7.6	-	-	-	8.1	6.2	-	2.5
7	Aadi	-	4.1	41.1	-	1.3	-	-	-	-	51.5	-	-	-	-	23.5	7.1	33.9	3.6	-	-	12.5	-	12.2	-	-
8	IMH1534	-	0.5	48.3	-	-	-	-	-	-	8.4	-	-	-	-	-	7	3.4	-	-	-	-	-	29.1	-	-
9	EH-2588	-	-	52	-	-	-	-	-	-	8.5	-	-	-	-	6.3	-	-	-	33.6	-	-	-	6.6	-	-
10	DKC8166	-	-	52.5	4.4	4.5	-	-	-	-	34.7	-	-	-	-	4.2	15.8	21.9	2.8	-	11.5	12.7	-	51.4	-	1.5
11	JH 13336	-	-	43.2	-	-	16.2	-	-	-	12.8	-	13.5	-	-	32.6	-	11.3	-	17.3	-	-	-	2.3	-	-
12	RMH-726	-	4.8	34.3	-	-	5.4	-	-	-	7.5	-	15.3	-	-	8.8	-	34	1.4	27.4	-	-	-	3.4	-	-
13	ZASL-986	-	-	67.8	17.8	12.2	-	-	-	-	50.4	-	-	-	-	38.3	-	25.1	3.1	26.5	-	-	-	6.1	-	2.7
14	IMH1526	0.1	-	42.5	7.5	8.2	5.2	-	3	-	26.6	-	-	-	-	12	-	19.4	-	-	-	4.5	-	39.3	-	-
15	CMH12-686	-	-	36	-	-	-	-	-	-	112.1	22.3	-	-	3.1	19.7	22.2	20.7	7.8	11.3	10.6	8.7	-	78.6	11.8	8.3
16	BL 103	13.9	32.4	48.7	25.3	28.3	-	-	-	-	34.8	-	0.7	-	-	27.2	35.6	2.5	3.1	-	-	-	-	5.2	-	5.8
17	DH-296	-	-	37.1	9.8	2.8	-	-	1.7	-	7.5	-	-	-	-	-	32.8	-	-	-	-	-	-	14.6	-	-
18	GK3144	-	0.5	40.7	6.5	8.9	8.6	-	-	-	48	2.9	-	-	9.4	3.4	3.3	36.1	4.5	-	23.1	12.1	-	6.3	0.6	4.7
19	OMH 14-19	-	17.5	44.1	12.9	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	-	9.3	-	-
20	DKC9164	12.5	-	34.6	11.7	11.5	-	-	9.8	-	49.6	4.5	12.9	-	-	47.1	19.8	28.4	13	10	12.7	4.8	31.1	12	14.7	11.8
21	SAFAL X-2	-	1.7	46.2	-	0.1	-	-	-	-	70.9	0.1	-	-	-	-	-	36.6	-	-	-	-	-	4.4	-	-
22	RMH-748	-	5.8	44.6	-	5.4	5.7	-	-	-	31.3	-	-	-	-	14	38.8	39.5	8.9	-	8.3	24.5	10.4	11.1	7.5	4.8
23	HM15313	-	-	66.7	-	-	-	-	-	-	40.6	-	-	-	-	36.2	25.2	15.5	5.3	28.2	3.4	-	-	13.3	1.8	-
24	VNR-34229	-	-	46.9	-	1.3	-	-	-	-	-	-	-	-	-	14.3	-	12.1	-	-	-	-	-	16.8	-	-
25	BH 413055	-	-	28.1	-	-	-	-	-	-	1.6	-	-	-	-	-	-	-	-	7.1	-	-	-	8.7	-	-
26	HKH 425	-	-	33	-	-	-	-	-	-	41.1	-	-	-	-	2.6	-	-	-	-	-	-	-	34.9	-	-
27	BL 108	-	-	26	11.8	1.4	-	-	-	-	54.3	-	-	-	-	26.8	6.1	4.2	-	-	-	-	-	28.1	-	-
28	SYN516753	-	5.1	39.9	10.3	8.6	10.7	1.2	-	-	28.7	0.3	3.6	-	-	22.5	9.4	-	-	41.9	0.1	-	12.4	27.5	12.3	5.2
29	BRM 12-6	-	18.1	53.1	-	0.2	-	-	-	-	-	-	-	-	-	31.3	4.2	2.9	-	4.2	-	-	-	16.7	-	-
30	PM15103L	-	19.6	46.5	18.4	14	34.6	-	-	-	38	3.8	10	-	-	22.1	8.8	32.4	5	14.2	-	1.4	-	0	-	6.3
31	MAH-K14-3	-	1.5	56.5	3.3	4.1	19.7	-	-	-	36.9	-	-	-	-	21.6	-	11.8	-	-	-	-	-	27.4	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1																								
		NWPZ											NEPZ						PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	DH-295	-	11.9	37.8	5.8	7.2	10.7	-	-	-	47.9	0.9	15.7	-	-	28.9	-	-	1.2	-	-	-	-	-	-	-
33	DKC8144	2.7	20.2	30.6	-	10.7	3.4	-	3	-	33.3	5.6	-	-	-	11.4	21.5	21.7	-	-	-	-	-	-	-	-
34	KNMH-4506	-	-	23.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26.8	-	-
35	VNR-32971	-	-	21.6	-	-	23.2	-	-	-	55.1	-	8.7	-	-	23.6	-	16.7	-	-	-	-	-	17.8	-	-
36	IIMRNH 2015-7	-	-	57.8	-	-	3.2	-	-	-	-	-	-	-	-	-	19.2	-	-	5	-	-	-	41	-	-
37	JH 13208	-	-	33.2	-	-	3.7	-	-	3.9	54.6	1.9	-	-	-	1.4	22.8	7.9	-	18.2	-	-	9.1	27	7.8	0.6
38	KMH-2852	-	31.3	52.9	28.4	25.1	1.3	-	-	-	40.2	-	-	-	-	23.2	34.2	33.3	3	-	-	-	8.3	6.9	-	3.8
39	DKC9167	-	11.2	36.6	16.2	13.7	-	0.6	-	-	24.9	4.4	8.6	-	7.4	16.5	32.6	14.7	10.2	30.5	1.9	-	8.3	20.4	9.2	10.3
40	BH 413027	-	-	53.9	-	-	-	-	-	-	11.4	-	-	-	-	4.3	-	5.2	-	-	-	-	-	-	-	-
41	IIMRNH 2015-6	-	-	6.3	-	-	-	-	-	-	12	-	-	-	-	10.8	-	-	-	9	-	-	-	17.5	-	-
42	Googul	-	-	18.3	3.5	-	-	-	-	-	28.5	-	-	-	-	-	-	16	-	-	-	-	-	28	-	-
43	JH 13346	-	-	21.2	-	-	0.6	-	-	-	-	-	-	-	-	29.7	16.7	-	-	11.1	-	2.1	-	-	-	-
44	BH 413036	-	33.4	9.8	-	6.9	-	-	-	-	43.8	-	0.9	-	-	16.2	7	9.3	-	-	-	-	-	3.8	-	-
45	DKC9168	-	-	-	7.1	-	-	-	-	-	31.7	-	-	-	-	9.4	15.4	12.7	-	10.1	-	7.6	-	21.4	0.9	-
46	CCH 1040	-	-	18.5	-	-	0.9	-	-	-	13.5	-	-	-	-	-	0.1	3.9	-	-	-	-	-	18	-	-
47	IMH1536	-	-	14.1	-	-	8.2	-	-	-	11.5	-	-	-	-	-	3.2	3.1	-	-	-	-	-	22.9	-	-
48	DKC8161	-	6.4	-	-	-	5.9	-	2.8	-	90.1	16.2	5.5	-	-	13.6	-	19.7	3.4	11.3	-	23.4	-	-	-	1.6
49	MFH-5-15	-	30.4	-	-	-	-	-	-	-	1.9	-	-	-	-	-	-	-	-	3.2	-	-	-	0.3	-	-
50	HT 515169	-	8.9	1.6	18.7	5.4	-	-	3.5	-	53	4.2	-	-	-	11.2	11.9	35.4	2.9	-	30.5	-	4.8	-	1.7	3.5
	CHECKS																									
51	PMH-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
52	PMH-3	-	11	15.6	7.3	4.1	50.4	-	-	-	45.9	-	-	-	-	-	-	28.2	-	-	-	7.2	-	8.6	-	-
53	Seedtech-2324	-	19.5	4.3	-	-	4.8	-	-	-	52.8	-	-	-	9.7	-	-	0.8	-	1.6	-	-	-	3.4	-	-
54	BIO-9681	-	39.9	0.8	-	2.1	15	-	-	-	-	-	-	-	2.2	-	-	-	-	2.5	-	-	-	0.3	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3																									
		NWPZ											NEPZ							PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	ADV 7139	-	-	6.5	-	-	-	-	10.2	6.7	-	-	29.3	-	13.4	27.1	79.8	8.1	18.6	7.1	13.1	-	17.2	9	5	1.6
2	ADV 7022	22.5	-	2.1	-	-	-	35.4	23.7	-	4	20.2	22.6	-	11.5	44.9	112.7	1.4	20.9	0.1	35.2	-	11.4	-	-	8.7
3	MAH-K14-1	-	-	8.8	-	-	-	-	-	-	-	-	4.1	-	-	15.3	76.4	-	-	-	-	-	1.8	38.2	-	-
4	PM15108L	3.3	-	-	7.7	-	-	-	1.6	-	6.4	-	-	-	-	24.7	-	-	-	-	1.8	-	-	-	-	-
5	AH7000	-	-	16.8	-	-	-	-	3.5	-	-	-	-	-	-	-	13.9	-	-	3.4	4.3	-	-	5.6	-	-
6	KMH-1311	14.9	-	27.8	1.7	1.2	-	12.4	11	-	-	4.5	-	-	6.1	37.6	110.1	4.1	13.8	-	10	-	16.1	-	-	5.1
7	Aadi	-	-	22.1	-	-	-	-	3.3	-	3.8	1.8	-	-	14.1	28.6	72.1	4.5	9.5	-	8.5	5	-	3.3	-	2
8	IMH1534	-	-	28.3	-	-	-	-	-	-	-	-	-	-	-	1.1	71.8	-	-	-	11.2	-	-	18.9	-	-
9	EH-2588	-	-	31.6	-	-	-	-	4	-	-	-	-	-	-	10.7	14.3	-	-	42	7.3	-	-	-	-	-
10	DKC8166	12.7	-	32	-	0.4	-	-	12	-	-	-	0.5	-	16.5	8.5	86	-	8.7	-	63.3	5.2	-	39.4	7.3	4
11	JH 13336	-	-	23.9	-	-	-	-	-	-	-	-	28.7	-	-	38.1	34.9	-	0.7	24.8	39.1	-	-	-	5.3	-
12	RMH-726	-	-	16.2	-	-	-	-	-	-	-	-	30.8	-	6.9	13.3	34.2	4.5	7.2	35.5	34.7	-	-	-	1.2	-
13	ZASL-986	7.7	-	45.2	9.8	7.8	-	-	5.6	-	3.1	-	4	-	-	44	44.9	-	9.1	34.5	20.1	-	4.3	-	4.3	5.3
14	IMH1526	15.8	-	23.3	0.2	3.9	-	-	26.3	-	-	-	-	0.8	15.8	16.6	26	-	3.9	-	18.2	-	-	28.3	-	1.8
15	CMH12-686	15.6	-	17.7	-	-	-	6	20.4	14.7	45.4	25	3.5	1.4	21.3	24.6	96.3	-	14.1	18.4	62	1.4	-	64.4	20.1	11
16	BL 103	31.7	19.2	28.7	16.8	23.3	-	-	-	11.4	-	-	14.2	-	6	32.5	117.8	-	9	-	38.6	-	-	-	-	8.5
17	DH-296	-	-	18.6	2.3	-	-	-	24.7	-	-	-	-	-	-	-	113.3	-	-	-	38.6	-	-	5.5	-	-
18	GK3144	14.9	-	21.8	-	4.6	-	17	-	-	1.4	5.2	4.5	-	28.7	7.7	65.9	6.2	10.5	-	80.3	4.6	6.5	-	8.1	7.3
19	OMH 14-19	-	5.9	24.6	5.3	5.3	-	-	-	-	-	-	-	-	-	-	43.6	-	-	12.2	17.6	-	-	0.7	-	-
20	DKC9164	30.2	-	16.5	4.1	7.2	-	-	34.7	-	2.5	6.8	28.1	-	2.4	53.2	92.4	0.2	19.5	17	65.1	-	40.8	3.1	23.2	14.5
21	SAFAL X-2	-	-	26.5	-	-	-	-	-	-	17.2	2.3	-	-	16.1	-	37.5	6.6	3.5	-	38.8	-	-	-	-	-
22	RMH-748	1.6	-	25.1	-	1.3	-	-	-	-	-	-	-	1.3	8.4	18.7	123	8.8	15.1	-	58.7	16.2	18.5	2.3	15.5	7.4
23	HM15313	-	-	44.3	-	-	-	-	-	10.3	-	-	9.7	-	1.3	41.8	101.2	-	11.4	36.3	51.6	-	-	4.3	9.3	-
24	VNR-34229	2	-	27.1	-	-	-	-	-	-	-	-	-	-	-	19	36.2	-	-	-	7	-	-	7.5	-	-
25	BH 413055	-	-	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13.9	-	-	-	0.1	-	-
26	HKH 425	-	-	15.1	-	-	-	-	-	-	-	-	-	-	3	6.8	30.6	-	-	-	19.8	-	-	24.2	-	-
27	BL 108	-	-	9	4.2	-	-	-	-	-	5.7	-	-	-	9.4	32	70.4	-	1.4	-	15	-	-	17.9	-	-
28	SYN516753	4.8	-	21.1	2.8	4.3	-	26.3	-	-	-	2.5	17.5	-	13.1	27.5	75.7	-	4.9	50.9	46.6	-	20.7	17.4	20.7	7.8
29	BRM 12-6	-	6.3	32.5	-	-	-	-	-	-	-	-	-	-	-	36.7	67.4	-	0.7	10.8	6.9	-	-	7.5	-	-
30	PM15103L	-	7.7	26.8	10.3	9.6	-	12.8	14.5	-	-	6.1	24.8	-	-	27.2	74.8	3.3	11.1	21.5	29.4	-	3.7	-	6.8	9
31	MAH-K14-3	-	-	35.4	-	0	-	-	2.5	-	-	-	-	3.8	7.7	26.6	54.3	-	4.6	-	8.2	-	0.4	17.3	-	-

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3																								
		NWPZ											NEPZ						PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	DH-295	-	0.7	19.3	-	3	-	-	11.4	-	1.4	3.1	31.2	2.4	1.4	34.3	50.4	-	7	-	17.4	-	2.3	-	-	2.3
33	DKC8144	18.9	8.2	13	-	6.4	-	13.3	26.3	-	-	7.9	-	-	-	16	95.2	-	4.4	-	4.3	-	5.9	-	-	1.9
34	KNMH-4506	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-	5.4	-	-	-	-	-	-	16.7	-	-
35	VNR-32971	-	-	5.3	-	-	-	-	-	7	6.3	-	23.2	0	-	28.7	7.4	-	3.8	-	11.2	-	4.4	8.4	-	-
36	IIMRNH 2015-7	-	-	36.6	-	-	-	-	-	-	-	-	-	-	-	-	91.5	-	-	11.6	16	-	-	29.8	-	-
37	JH 13208	14.3	-	15.3	-	-	-	-	9.8	20.1	6	4.2	1.5	-	4.4	5.6	97.3	-	4.6	25.8	42.9	-	17.2	17	15.8	3.1
38	KMH-2852	13.1	18.3	32.3	19.7	20.2	-	-	17.9	1	-	2	-	2.8	8.2	28.3	115.5	4	8.9	-	-	-	16.3	-	-	6.4
39	DKC9167	14.8	0.2	18.2	8.4	9.3	-	25.6	12.6	4.3	-	6.7	23.2	-	26.3	21.3	113.1	-	16.6	38.8	49.3	-	16.3	10.9	17.4	13
40	BH 413027	-	-	33.2	-	-	-	3.2	22.3	-	-	-	5.2	-	-	8.6	31.8	-	-	1.2	10	-	-	-	-	-
41	IIMRNH 2015-6	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	15.4	50.4	-	-	15.9	32.4	-	-	8.2	-	-
42	Googul	-	-	2.4	-	-	-	-	-	4.9	-	-	-	-	-	-	45.4	-	-	1	19	-	-	17.9	-	-
43	JH 13346	8.5	-	4.9	-	-	-	-	11.1	-	-	-	1.2	-	7.9	35.1	87.5	-	3.8	18.2	11.4	-	-	-	-	-
44	BH 413036	3.6	20.1	-	-	2.7	-	-	-	-	-	-	14.4	-	3.7	21	71.9	-	4.1	2.5	23.2	-	-	-	-	-
45	DKC9168	9.9	-	-	-	-	-	-	-	-	-	-	4.8	-	-	13.9	85.3	-	2	17.1	36.1	0.4	-	11.7	8.4	-
46	CCH 1040	-	-	2.5	-	-	-	-	15.9	-	-	-	-	-	0.9	2.8	60.8	-	-	-	25.1	-	-	8.7	-	-
47	IMH1536	-	-	-	-	-	-	-	10.5	-	-	-	-	-	-	-	65.7	-	-	-	0.5	-	-	13.1	-	-
48	DKC8161	2.8	-	-	-	-	-	1	26	2.6	30.3	18.7	19.6	-	13.6	18.2	50.9	-	9.4	18.4	7.6	15.1	-	-	1.8	4.1
49	MFH-5-15	-	17.4	-	-	-	-	-	3.4	-	-	-	-	-	-	-	10	-	-	9.7	-	-	-	-	-	-
50	HT 515169	6	-	-	10.7	1.2	-	-	26.9	-	4.9	6.5	9.6	-	0.6	15.8	79.7	5.6	8.8	-	91.2	-	12.6	-	9.2	6.1
	CHECKS																									
51	PMH-1	15.7	-	-	-	-	-	24.8	22.6	15.6	-	2.2	13.4	9.3	17.6	4.1	60.6	-	5.8	6.4	46.5	-	7.4	-	7.4	2.5
52	PMH-3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	Seedtech-2324	-	7.7	-	-	-	-	-	6.6	-	4.8	1.6	-	-	29	-	13.2	-	-	8	34.3	-	-	-	-	-
54	BIO-9681	-	26	-	-	-	-	-	-	-	-	-	-	-	20.1	-	8.8	-	-	9.1	14.2	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324																									
		NWPZ					NEPZ													PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	ADV 7139	-	-	17.9	-	-	-	-	3.4	54.1	-	-	36.5	-	-	35.8	58.8	37.4	20.6	-	-	15	19	14.4	6.1	3.6
2	ADV 7022	28.7	-	13	-	4.3	-	43	16.1	11.9	-	18.3	29.4	-	-	54.8	87.8	29	22.9	-	0.6	-	13.1	-	-	10.8
3	MAH-K14-1	1.2	-	20.5	-	1.1	-	2.9	-	-	-	-	9.9	-	-	23.2	55.8	-	0.4	-	-	19	3.3	45.1	-	-
4	PM15108L	8.5	-	8.8	24.4	-	-	-	-	-	1.5	-	-	-	-	33.2	-	-	-	-	-	-	-	0.9	-	-
5	AH7000	-	-	29.4	-	-	6.7	-	-	-	-	-	-	-	-	-	0.6	-	-	-	-	-	-	10.8	-	-
6	KMH-1311	20.7	-	41.5	17.4	5.6	-	18.7	4.2	31.9	-	2.9	-	-	-	47	85.6	32.4	15.7	-	-	8.8	17.9	2.6	-	7.1
7	Aadi	-	-	35.3	5.5	1.6	-	4.2	-	-	-	0.2	-	-	-	37.3	52	32.9	11.3	-	-	40.1	-	8.5	-	3.9
8	IMH1534	-	-	42.1	-	-	-	-	-	20.4	-	-	-	-	-	8	51.8	2.6	-	-	-	-	-	24.8	-	-
9	EH-2588	-	-	45.7	3.4	-	-	-	-	25.7	-	-	-	-	-	18.3	1	-	-	31.5	-	-	-	3	-	-
10	DKC8166	18.4	-	46.2	12.3	4.8	-	-	5.1	30.7	-	-	6.1	-	-	15.8	64.3	20.9	10.5	-	21.6	40.4	-	46.3	8.3	6
11	JH 13336	-	-	37.3	-	-	10.9	-	-	27.6	-	-	35.9	-	-	47.5	19.2	10.5	2.4	15.5	3.5	23.3	-	-	6.4	-
12	RMH-726	-	-	28.8	3.8	-	0.6	-	-	31.6	-	-	38	-	-	21	18.5	32.9	8.9	25.5	0.3	2.7	-	-	2.2	-
13	ZASL-986	13.1	-	60.8	26.8	12.6	-	-	-	7.9	-	-	9.8	-	-	53.8	28	24.1	10.8	24.5	-	5.5	5.9	2.6	5.4	7.3
14	IMH1526	21.7	-	36.6	15.7	8.5	0.3	-	18.5	6.5	-	-	-	1.8	-	24.6	11.3	18.5	5.6	-	-	30.2	-	34.7	-	3.7
15	CMH12-686	21.4	-	30.3	6.8	0.2	-	12	13	65.8	38.8	23.1	9.3	2.4	-	33.1	73.4	19.7	15.9	9.5	20.6	35.4	-	72.7	21.3	13.2
16	BL 103	38.4	10.7	42.5	34.8	28.7	-	2.8	-	60.9	-	-	20.6	-	-	41.5	92.4	1.6	10.8	-	3.2	11.3	-	1.7	-	10.5
17	DH-296	-	-	31.4	18.1	3.1	-	3.6	17.1	10.4	-	-	-	-	-	3.7	88.4	-	-	-	3.1	-	-	10.8	-	-
18	GK3144	20.7	-	34.9	14.6	9.2	3.6	23.7	-	18.1	-	3.5	10.3	-	-	15	46.5	35	12.3	-	34.2	39.6	8.2	2.7	9.2	9.4
19	OMH 14-19	-	-	38.1	21.5	9.9	-	3.4	-	18.5	-	-	3.9	-	-	4.6	26.8	-	-	3.8	-	14.3	-	5.7	-	-
20	DKC9164	36.8	-	29	20.2	11.9	-	-	26.4	20.9	-	5.2	35.2	-	-	63.7	70	27.4	21.4	8.3	22.9	30.5	42.9	8.3	24.4	16.7
21	SAFAL X-2	-	-	40.2	-	0.4	-	-	-	16.1	11.9	0.7	0.9	-	-	6.8	21.4	35.5	5.1	-	3.3	-	-	1	-	-
22	RMH-748	6.7	-	38.6	4.2	5.7	0.8	1.7	-	31.8	-	-	-	2.3	-	26.8	96.9	38.4	17	-	18.2	55.1	20.4	7.4	16.7	9.4
23	HM15313	-	-	59.8	2.7	-	-	-	-	59.4	-	-	15.8	-	-	51.5	77.7	14.6	13.2	26.2	12.8	10.8	-	9.5	10.4	1.4
24	VNR-34229	7.2	-	40.8	-	1.6	-	-	-	28.5	-	-	-	-	-	27.2	20.3	11.2	-	-	-	17	0.8	12.9	-	-
25	BH 413055	-	-	22.8	-	-	-	-	-	20.5	-	-	-	-	-	1.5	-	-	-	5.4	-	-	-	5.1	-	-
26	HKH 425	-	-	27.5	-	-	-	-	-	-	-	-	-	-	-	14.1	15.3	-	-	-	-	-	-	30.4	-	-
27	BL 108	-	-	20.8	20.3	1.7	-	-	-	21.5	0.9	-	-	-	-	41	50.5	3.4	3	-	-	10.6	-	23.8	-	-
28	SYN516753	10.1	-	34.1	18.7	8.9	5.6	33.5	-	3.6	-	0.9	24	-	-	36.2	55.2	-	6.6	39.7	9.1	17	22.6	23.3	21.9	9.9
29	BRM 12-6	-	-	46.8	-	0.5	-	-	-	16.1	-	-	-	-	-	46	47.8	2.1	2.3	2.5	-	-	-	12.8	-	-
30	PM15103L	1.2	0	40.5	27.4	14.4	28.4	19.1	7.5	16.2	-	4.4	31.7	-	-	35.8	54.4	31.3	12.9	12.4	-	26.3	5.3	-	7.9	11
31	MAH-K14-3	-	-	50	11.1	4.4	14.1	-	-	-	-	-	-	4.8	-	35.2	36.3	11	6.3	-	-	-	2	23.2	-	0.3

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324																								
		NWPZ					NEPZ											PZ							CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	DH-295	2.1	-	32.1	13.9	7.6	5.6	5	4.5	12.3	-	1.6	38.5	3.4	-	43.4	32.9	-	8.7	-	-	12.2	3.9	-	-	4.3
33	DKC8144	24.8	0.5	25.1	2.3	11	-	19.7	18.5	13.4	-	6.3	1.6	-	-	23.9	72.4	20.8	6.1	-	-	2.5	7.5	-	-	3.9
34	KNMH-4506	-	-	18.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22.5	-	-
35	VNR-32971	-	-	16.6	1	-	17.5	-	-	54.6	1.5	-	30.1	1	-	37.5	-	15.8	5.5	-	-	1.1	6.1	13.9	-	-
36	IIMRNH 2015-7	-	-	51.3	-	-	-	-	-	-	-	-	-	-	-	-	69.1	-	-	3.3	-	15.4	-	36.3	0.8	-
37	JH 13208	20.1	-	27.7	7.6	-	-	3.8	3.1	73.6	1.2	2.6	7.2	-	-	12.8	74.3	7	6.3	16.4	6.4	22.2	19	22.8	16.9	5.1
38	KMH-2852	18.8	9.9	46.5	38.2	25.5	-	3	10.6	45.9	-	0.4	-	3.9	-	37.1	90.4	32.2	10.6	-	-	14.7	18.1	3.3	-	8.4
39	DKC9167	20.6	-	30.9	25.1	14	-	32.7	5.7	50.7	-	5	30	-	-	29.6	88.2	13.8	18.5	28.5	11.1	19	18.1	16.4	18.5	15.2
40	BH 413027	-	-	47.5	-	-	-	9.1	14.8	21.8	-	-	11.1	-	-	16	16.4	4.4	-	-	-	1.2	-	-	-	-
41	IIMRNH 2015-6	-	-	1.8	6	-	-	-	-	17	-	-	7.9	-	-	23.2	32.9	-	-	7.3	-	15.8	-	13.6	0.7	-
42	Googul	-	-	13.4	11.4	-	-	-	-	51.6	-	-	-	0.4	-	-	28.4	15.1	-	-	-	10.1	-	23.7	-	-
43	JH 13346	14	-	16.2	7.4	-	-	5.1	4.3	20.8	-	-	6.8	-	-	44.3	65.6	-	5.4	9.4	-	27.1	-	-	-	-
44	BH 413036	8.9	11.6	5.3	0.9	7.2	-	-	-	-	-	-	20.8	-	-	29.3	51.8	8.4	5.8	-	-	-	-	0.4	-	0.2
45	DKC9168	15.4	-	-	15.2	-	-	-	-	28.3	-	-	10.6	-	-	21.6	63.7	11.9	3.7	8.4	1.3	34	-	17.3	9.5	-
46	CCH 1040	-	-	13.6	-	-	-	1.6	8.8	-	-	-	-	-	-	9.8	42	3.1	-	-	-	-	-	14.1	-	-
47	IMH1536	-	-	9.4	-	-	3.2	-	3.7	-	-	-	-	-	-	5.8	46.4	2.3	-	-	-	-	-	18.8	-	-
48	DKC8161	7.9	-	-	6.2	-	1	6.8	18.2	48.2	24.4	16.9	26.3	-	-	26.3	33.3	18.7	11.1	9.6	-	53.7	0.9	-	2.8	6.1
49	MFH-5-15	-	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-	-	-	-
50	HT 515169	11.3	-	-	27.8	5.7	-	-	19.1	14.3	0.1	4.9	15.7	-	-	23.7	58.7	34.3	10.5	-	42.3	-	14.3	-	10.3	8.1
	CHECKS																									
51	PMH-1	21.5	-	-	7.6	0.3	-	31.9	15.1	67	-	0.6	19.7	10.4	-	11.2	41.9	-	7.5	-	9.1	24.6	9.1	-	8.5	4.4
52	PMH-3	5	-	10.8	15.4	4.4	43.5	5.7	-	44.5	-	-	5.6	1	-	6.8	-	27.1	1.6	-	-	33.5	1.5	5	1	1.9
53	Seedtech-2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	BIO-9681	-	17.1	-	1.9	2.4	9.7	3.5	-	-	-	-	-	-	-	1.7	-	-	-	0.9	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681																									
		NWPZ											NEPZ							PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	ADV 7139	15.3	-	22	-	-	-	-	38.3	72.8	33.6	8.1	44.3	22.7	-	33.4	65.2	73.1	34.5	-	-	22.1	25.4	18	12.8	10.9
2	ADV 7022	50.7	-	17	-	1.8	-	38.2	55.2	25.4	53.1	47.2	36.9	23.9	-	52.2	95.4	62.5	37.1	-	18.3	2.9	19.2	-	4	18.7
3	MAH-K14-1	18.5	-	24.7	-	-	-	-	19.4	-	32.2	15	16.2	17.3	-	21.1	62.1	22.3	12	-	-	26.4	8.9	49.7	0.5	5.2
4	PM15108L	27.1	-	12.6	22	-	-	-	27.5	-	56.6	11.2	1.2	-	-	30.9	-	19.1	-	-	-	-	-	4.1	-	-
5	AH7000	-	-	33.9	-	-	-	-	29.9	-	-	-	-	4.7	-	-	4.7	12.4	-	-	-	-	-	14.3	-	-
6	KMH-1311	41.4	-	46.5	15.2	3.1	-	14.7	39.3	47.9	37.2	28	3.4	15.2	-	44.5	93.1	66.7	29	-	-	15.5	24.2	5.8	5.9	14.7
7	Aadi	7.8	-	40	3.5	-	-	0.6	29.7	2.9	52.8	24.7	-	18.5	-	35	58.1	67.4	24.2	-	-	48.8	5.1	11.9	5.4	11.3
8	IMH1534	-	-	47.1	-	-	-	-	15.3	35	9.4	-	2.8	-	-	6.2	57.9	29.3	3.6	-	-	3.9	0.6	28.7	0	-
9	EH-2588	4.1	-	50.8	1.4	-	-	-	30.5	40.9	9.5	-	-	3.2	-	16.2	5.1	16.3	-	30.3	-	2.6	-	6.2	2.2	-
10	DKC8166	38.7	-	51.3	10.2	2.3	-	-	40.6	46.6	36	18.4	12.2	21.1	-	13.9	70.9	52.3	23.2	-	43	49.1	-	50.9	15.2	13.6
11	JH 13336	16	-	42	-	-	1.1	-	24.6	43.1	13.9	8.9	43.7	-	-	45	24	39.1	14.2	14.4	21.7	30.9	-	2	13.1	5.8
12	RMH-726	-	-	33.2	1.9	-	-	-	10.4	47.5	8.5	-	46	-	-	18.9	23.3	67.4	21.5	24.3	17.9	9.1	-	3.1	8.7	5.9
13	ZASL-986	32.5	-	66.4	24.4	9.9	-	-	32.5	21	51.8	12.7	16.1	25.3	-	51.2	33.2	56.3	23.6	23.4	5.1	12	11.7	5.8	12	14.9
14	IMH1526	42.5	-	41.3	13.5	5.9	-	-	58.5	19.4	27.7	21.1	-	28.1	-	22.4	15.8	49.3	17.8	-	3.5	38.2	-	38.9	4.4	11.1
15	CMH12-686	42.2	-	34.9	4.8	-	-	8.3	51.1	85.8	114	53.1	15.6	28.8	0.9	30.8	80.4	50.8	29.3	8.5	41.9	43.7	-	78	29	21.2
16	BL 103	62.1	-	47.5	32.2	25.7	-	-	23.5	80.4	36	17.2	27.5	7	-	39.1	100.2	28	23.6	-	21.3	18.2	-	4.9	0.6	18.4
17	DH-296	13.6	-	35.9	15.9	0.6	-	0.1	56.5	23.8	8.5	16.5	-	-	-	1.9	96	20.4	2.1	-	21.3	1.3	-	14.3	-	2.4
18	GK3144	41.4	-	39.6	12.4	6.6	-	19.5	17.7	32.4	49.4	28.8	16.7	2.4	7.1	13	52.4	70.1	25.3	-	57.9	48.3	14	5.9	16.1	17.2
19	OMH 14-19	8	-	42.9	19.2	7.3	-	-	18	32.9	-	-	9.9	15	-	2.8	31.9	15.7	5.6	2.8	3	21.4	-	9	-	2.7
20	DKC9164	60.2	-	33.5	17.9	9.2	-	-	69	35.6	50.9	30.8	43	23.1	-	60.8	76.8	60.5	35.4	7.3	44.5	38.6	50.7	11.6	32.3	25
21	SAFAL X-2	10	-	45	-	-	-	-	15.2	30.1	72.5	25.3	6.7	0.3	-	5	26.4	70.7	17.3	-	21.6	-	-	4.1	-	6.7
22	RMH-748	25	-	43.4	2.2	3.2	-	-	6.5	47.7	32.5	11.4	2.8	28.7	-	24.6	104.9	74.3	30.5	-	39	64.7	26.9	10.7	24.1	17.2
23	HM15313	13.1	-	65.4	0.7	-	-	-	18	78.7	41.9	10.8	22.5	13.6	-	48.9	84.9	44.4	26.3	25	32.7	17.6	1	12.9	17.4	8.6
24	VNR-34229	25.5	-	45.7	-	-	-	-	3	44.1	0.6	-	-	20.4	-	25	25.1	40.1	9.3	-	-	24.2	6.2	16.4	3.2	1.7
25	BH 413055	-	-	27	-	-	-	-	-	35.1	2.5	-	-	-	-	-	-	-	-	4.4	-	-	-	8.4	-	-
26	HKH 425	2.1	-	31.9	-	-	-	-	-	-	42.4	3.7	-	4.3	-	12.1	20	19.2	3.8	-	4.9	5.7	-	34.4	-	-
27	BL 108	11.4	-	25	18	-	-	-	11.5	36.3	55.7	17.8	-	7.6	-	38.6	56.6	30.3	15	-	0.7	17.5	-	27.7	-	6.2
28	SYN516753	29	-	38.7	16.4	6.3	-	29	13.4	16.2	29.9	25.5	31.2	1.3	-	33.9	61.5	20.8	18.9	38.4	28.3	24.3	29.2	27.1	29.6	17.7
29	BRM 12-6	1.3	-	51.9	-	-	-	-	-	30.1	-	-	-	13.6	-	43.5	53.8	28.6	14.1	1.6	-	-	-	16.4	-	1.1
30	PM15103L	18.6	-	45.3	24.9	11.7	17.1	15.1	43.7	30.3	39.3	29.9	39.3	16.2	-	33.5	60.6	65.4	25.9	11.4	13.3	34.1	11	-	14.7	19
31	MAH-K14-3	5.1	-	55.2	9	1.9	4.1	-	28.6	-	38.2	15.9	-	31.9	-	32.9	41.8	39.8	18.5	-	-	-	7.5	27	-	7.4

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681																								
		NWPZ										NEPZ							PZ						CWZ	OV'L
		LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
32	DH-295	19.6	-	36.7	11.7	5	-	1.5	39.8	25.9	49.2	26.3	46.4	30.1	-	40.9	38.2	17.2	21.3	-	2.8	19.1	9.5	-	1	11.7
33	DKC8144	46.2	-	29.5	0.3	8.4	-	15.7	58.4	27.2	34.5	32.2	7.4	11.4	-	21.8	79.4	52.1	18.3	-	-	8.8	13.3	-	-	11.3
34	KNMH-4506	-	-	22.2	-	-	-	-	22.4	-	-	-	-	-	-	-	-	-	-	-	-	1.1	-	26.4	-	-
35	VNR-32971	1	-	20.7	-	-	7.2	-	17	73.3	56.6	16.6	37.6	27	-	35.1	-	45.9	17.6	-	-	7.4	11.8	17.4	0.6	4.4
36	IIMRNH 2015-7	-	-	56.5	-	-	-	-	15.4	-	0.5	-	-	22.7	-	-	76	24.3	0.3	2.4	1.6	22.5	-	40.6	7.2	-
37	JH 13208	40.6	-	32.2	5.5	-	-	0.3	37.8	94.6	56.1	27.6	13.3	25.4	-	10.9	81.3	34.8	18.5	15.3	25.1	29.8	25.5	26.6	24.4	12.6
38	KMH-2852	39.1	-	51.6	35.6	22.5	-	-	47.9	63.6	41.4	24.9	-	30.6	-	34.7	98.1	66.6	23.4	-	-	21.8	24.5	6.5	-	16.1
39	DKC9167	41.3	-	35.5	22.7	11.3	-	28.2	41.3	68.9	26	30.7	37.5	23.4	5.1	27.4	95.8	43.3	32.2	27.3	30.7	26.3	24.5	20.1	26	23.4
40	BH 413027	-	-	52.7	-	-	-	5.4	53.5	36.5	12.5	19.3	17.5	-	-	14	21.1	31.5	4.6	-	-	7.5	-	-	-	-
41	IIMRNH 2015-6	11	-	5.4	4	-	-	-	16	31.1	13	-	14.1	16.1	-	21.1	38.2	17.9	7.4	6.3	15.9	22.9	-	17.2	7.1	-
42	Googul	4.9	-	17.3	9.3	-	-	-	1.7	70	29.6	3.7	-	26.3	-	-	33.6	45	10	-	4.2	16.9	-	27.6	4	2.1
43	JH 13346	33.5	-	20.2	5.4	-	-	1.5	39.4	35.4	-	5.8	13	13.6	-	41.8	72.3	12.5	17.6	8.4	-	35	-	-	0.5	5.3
44	BH 413036	27.5	-	8.9	-	4.7	-	-	22.2	4	45.1	11	27.8	1.3	-	27	57.9	36.5	18	-	7.8	-	-	3.5	-	7.3
45	DKC9168	35.2	-	-	13	-	-	-	10.5	43.8	32.9	10.9	17	19.7	-	19.6	70.3	40.9	15.7	7.4	19.1	42.3	-	21	16.4	3.9
46	CCH 1040	3.3	-	17.5	-	-	-	-	45.4	7.1	14.6	14.9	-	6.8	-	7.9	47.7	29.9	8	-	9.5	4.7	-	17.7	-	0.6
47	IMH1536	-	-	13.2	-	-	-	-	38.7	11.8	12.5	6.3	-	2.1	-	4	52.3	28.8	4.5	-	-	-	-	22.5	-	-
48	DKC8161	26.4	-	-	4.2	-	-	3.2	58.1	66.2	91.9	45.4	33.6	20.3	-	24.1	38.7	49.6	24	8.6	-	63.2	6.3	-	9.3	13.6
49	MFH-5-15	-	-	-	-	-	-	-	29.8	10	2.8	-	-	-	-	-	1.1	-	-	0.6	-	-	-	0	-	-
50	HT 515169	30.4	-	0.7	25.3	3.2	-	-	59.3	28.1	54.4	30.4	22.3	5.7	-	21.6	65.2	69.2	23.3	-	67.4	5.9	20.5	-	17.3	15.8
	CHECKS																									
51	PMH-1	42.3	-	-	5.6	-	-	27.5	53.8	87.2	0.9	25.2	26.6	38.9	-	9.3	47.6	25	19.9	-	28.3	32.3	15	-	15.4	11.9
52	PMH-3	23	-	14.6	13.2	1.9	30.9	2.1	25.5	62	47.2	22.5	11.7	27	-	5	-	60.2	13.4	-	-	41.7	7	8.3	7.4	9.2
53	Seedtech-2324	17.1	-	3.5	-	-	-	-	33.7	12.1	54.2	24.4	5.8	25.8	7.3	-	4	26	11.6	-	17.6	6.2	5.4	3.1	6.3	7.1
54	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 30.3 %: VARA 29.5 %

TABLE No. 2 (Cont...)

		GRAIN SHELLING %																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	86.9	81.0	70.0	87.8	81.4	74.0	81.7	79.2	83.5	74.8	78.6	86.8	80.3	93.1	80.3	79.7	83.7	84.0	79.8	72.3	86.7	80.3	78.3	79.5	81.0
2	ADV 7022	85.5	82.8	72.0	82.3	80.6	87.0	85.8	81.9	75.5	77.6	81.6	81.4	80.8	88.0	80.6	77.6	82.7	81.8	80.5	75.4	85.0	81.5	79.3	80.3	81.1
3	MAH-K14-1	84.9	82.1	71.0	84.1	80.5	75.0	83.3	76.6	73.0	74.4	76.4	80.9	78.8	85.3	82.1	77.2	81.1	80.9	79.7	68.4	86.5	78.4	83.8	79.3	79.3
4	PM15108L	87.1	82.7	72.0	83.5	81.3	76.0	84.6	76.6	74.0	77.7	77.8	85.5	80.8	86.0	82.4	77.3	82.7	82.4	79.8	71.6	84.8	82.7	87.1	81.2	80.7
5	AH7000	81.4	82.9	74.0	77.7	79.0	71.5	81.7	77.1	71.5	69.6	74.3	74.3	81.8	84.7	79.1	72.9	77.3	78.3	79.8	73.0	84.5	74.8	88.6	80.1	77.9
6	KMH-1311	87.4	82.6	75.0	86.9	83.0	76.5	85.3	77.2	76.0	77.6	78.5	80.2	83.2	85.9	81.5	77.3	83.6	81.9	80.8	74.4	85.0	81.5	87.5	81.8	81.3
7	Aadi	84.6	81.6	73.0	86.3	81.4	76.0	83.5	78.6	71.5	73.8	76.7	82.0	82.3	86.0	84.0	79.7	81.7	82.6	77.8	72.6	87.6	79.7	80.8	79.7	80.1
8	IMH1534	84.1	82.7	71.3	84.0	80.5	78.5	83.5	77.5	72.0	77.8	77.9	81.1	78.7	83.5	81.1	76.6	83.9	80.8	80.9	73.5	87.0	80.3	79.1	80.2	79.8
9	EH-2588	81.0	82.1	72.0	82.7	79.5	80.0	81.3	77.0	73.0	77.1	77.7	77.3	80.1	84.6	82.1	76.7	80.1	80.1	81.8	75.7	88.3	78.4	83.1	81.5	79.7
10	DKC8166	83.6	83.5	71.0	84.9	80.7	78.5	84.3	80.7	76.5	78.8	79.7	81.8	82.8	87.6	81.1	76.7	80.6	81.8	80.6	77.3	84.4	76.2	83.7	80.4	80.7
11	JH 13336	80.1	80.9	72.0	82.5	78.9	82.0	82.7	77.1	73.5	69.6	77.0	76.5	76.8	81.9	80.3	73.1	79.7	78.0	80.8	76.3	77.0	75.2	83.0	78.5	78.0
12	RMH-726	85.6	80.8	74.0	85.6	81.5	75.5	83.5	76.5	78.0	76.5	78.0	82.1	81.4	86.5	77.5	75.7	81.6	80.8	81.0	74.3	86.3	79.7	87.2	81.7	80.4
13	ZASL-986	81.6	82.1	75.0	86.2	81.2	66.0	81.0	77.8	71.0	77.6	74.7	79.9	82.9	86.3	80.6	77.1	82.9	81.6	81.1	71.5	82.8	80.5	79.2	79.0	79.2
14	IMH1526	79.4	80.6	73.0	81.0	78.5	71.0	80.6	80.5	74.0	71.6	75.6	82.8	81.9	87.2	80.2	73.3	80.6	81.0	79.6	71.5	84.0	76.3	83.6	79.0	78.6
15	CMH12-686	81.7	83.6	72.0	82.5	79.9	75.0	84.3	81.1	74.0	82.0	79.3	77.0	82.7	85.0	81.8	77.0	80.3	80.6	80.5	78.0	87.9	76.3	80.6	80.7	80.2
16	BL 103	88.3	81.8	71.0	89.3	82.6	79.0	86.3	76.4	78.0	78.0	79.5	86.8	82.6	88.8	81.8	76.2	79.7	82.6	77.8	76.1	87.8	82.4	78.8	80.6	81.3
17	DH-296	83.1	83.2	70.0	82.6	79.7	77.0	80.1	77.0	71.5	72.5	75.6	81.8	82.1	85.0	84.0	77.8	80.9	81.9	79.6	76.7	81.1	79.8	85.5	80.5	79.6
18	GK3144	86.9	83.1	72.0	87.9	82.5	84.5	87.7	78.4	76.5	78.1	81.1	86.6	82.9	89.1	74.0	76.2	82.7	81.9	78.3	77.6	80.8	81.0	82.3	80.0	81.3
19	OMH 14-19	83.1	78.1	74.0	87.4	80.6	74.5	82.5	78.9	78.0	74.6	77.7	83.3	80.9	87.3	81.6	77.3	83.8	82.3	80.6	73.6	89.6	77.0	84.9	81.1	80.5
20	DKC9164	81.5	81.7	70.0	84.1	79.3	75.0	85.5	80.0	73.5	74.9	77.8	78.5	78.8	82.8	81.8	78.1	80.8	80.1	80.8	76.5	87.3	77.8	81.1	80.7	79.5
21	SAFAL X-2	85.6	83.9	75.0	85.0	82.4	81.5	82.4	80.2	77.5	80.0	80.3	87.3	81.2	89.1	80.9	78.2	83.7	83.4	78.4	75.6	87.2	82.3	79.1	80.5	81.7
22	RMH-748	86.8	81.0	76.0	85.3	82.3	75.5	84.5	76.6	76.0	77.6	78.1	82.2	82.0	86.0	81.4	79.0	83.1	82.3	80.8	76.1	90.3	82.9	73.5	80.7	80.8
23	HM15313	86.8	81.7	78.0	85.2	82.9	75.5	82.5	79.5	75.5	73.9	77.4	87.5	83.2	88.3	82.0	80.5	83.0	84.0	80.8	78.1	83.0	79.3	75.9	79.4	81.0
24	VNR-34229	83.9	82.9	76.0	85.4	82.0	76.0	84.6	82.5	77.0	76.9	79.4	84.1	80.9	85.4	77.3	76.4	83.1	81.2	80.0	73.2	84.0	80.2	81.9	79.9	80.6
25	BH 413055	83.0	82.7	71.0	80.3	79.2	74.5	80.7	78.1	71.5	69.8	74.9	80.1	82.5	86.3	82.5	75.8	83.7	81.8	80.5	68.6	81.1	74.4	83.9	77.7	78.5
26	HKH 425	85.0	82.9	74.0	84.7	81.6	73.0	82.4	78.5	76.0	75.1	77.0	80.5	80.8	88.0	80.7	73.1	80.8	80.6	79.7	73.1	87.8	75.7	85.8	80.4	79.9
27	BL 108	85.0	82.9	75.0	84.7	81.9	75.5	83.0	76.6	76.5	75.9	77.5	84.0	82.6	84.9	80.9	79.1	82.8	82.4	79.8	73.8	82.8	79.8	84.4	80.1	80.5
28	SYN516753	85.6	80.3	73.0	84.7	80.9	84.5	84.8	80.0	75.5	76.6	80.3	78.6	80.1	88.0	80.7	76.3	81.0	80.8	81.5	75.8	83.3	78.9	85.8	81.0	80.7
29	BRM 12-6	78.9	83.8	77.0	78.5	79.5	79.5	79.8	77.8	75.0	70.4	76.5	77.4	76.8	82.1	81.0	75.3	78.8	78.5	80.5	70.3	80.1	73.9	82.0	77.3	77.9
30	PM15103L	81.6	81.5	72.0	82.1	79.3	76.0	84.8	80.1	75.0	78.6	78.9	80.4	78.9	86.0	81.0	79.8	82.1	81.4	79.8	74.4	77.4	79.1	84.3	79.0	79.7
31	MAH-K14-3	82.5	83.6	74.0	85.5	81.4	82.0	84.7	80.4	71.0	75.6	78.7	80.3	80.8	84.4	82.9	74.1	78.6	80.2	80.3	71.1	82.5	80.7	84.5	79.8	80.0
32	DH-295	83.0	81.5	70.0	84.9	79.8	77.5	83.3	78.8	77.0	74.0	78.1	78.5	79.9	86.7	81.1	75.2	81.8	80.5	80.8	75.4	83.0	77.0	84.5	80.1	79.7
33	DKC8144	85.4	82.4	78.0	87.5	83.3	82.0	81.2	81.1	74.0	78.0	79.3	79.2	79.8	83.8	80.6	77.8	81.9	80.5	79.8	72.1	80.8	78.9	78.3	78.0	80.1

TABLE No. 2 (Cont...)

		GRAIN SHELLING %																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	77.4	83.1	75.0	82.3	79.5	82.0	82.8	83.7	73.0	75.0	79.3	80.3	78.9	85.4	81.9	75.3	81.8	80.6	78.5	72.1	80.6	75.9	83.4	78.1	79.4
35	VNR-32971	87.0	79.1	78.0	85.7	82.4	84.0	83.6	80.5	76.5	76.9	80.3	82.3	82.4	88.4	82.5	72.6	83.9	82.0	80.7	75.3	86.2	80.1	84.0	81.3	81.5
36	IIMRNH 2015-7	81.4	81.6	76.0	84.3	80.8	75.5	80.4	79.1	70.5	74.5	76.0	79.5	81.0	83.7	78.8	76.1	81.4	80.0	80.5	71.6	88.7	76.2	83.8	80.2	79.2
37	JH 13208	85.2	82.7	74.0	89.1	82.7	79.0	82.7	79.2	78.0	79.1	79.6	83.9	82.2	83.3	80.8	78.0	83.0	81.8	81.0	76.8	87.3	81.2	86.7	82.6	81.6
38	KMH-2852	84.3	83.1	79.0	86.4	83.2	80.0	84.0	80.7	73.0	73.7	78.3	82.6	80.2	84.4	81.3	78.4	81.1	81.3	78.3	68.9	83.1	78.8	88.4	79.5	80.5
39	DKC9167	82.6	79.3	73.7	86.2	80.4	75.0	85.4	80.6	71.5	75.6	77.6	78.5	81.1	87.4	81.1	77.7	77.7	80.6	81.2	76.5	82.1	81.0	82.6	80.7	79.8
40	BH 413027	85.6	79.2	74.0	84.7	80.9	82.5	84.9	77.4	75.5	76.1	79.3	81.5	78.6	86.8	81.9	75.7	82.7	81.2	80.3	71.4	88.8	78.9	85.6	81.0	80.6
41	IIMRNH 2015-6	78.1	79.3	70.0	82.3	77.4	65.5	80.6	80.0	70.5	73.8	74.1	77.9	78.3	81.9	80.6	74.0	79.1	78.6	80.3	78.8	83.2	78.5	82.5	80.7	77.7
42	Googul	85.8	80.4	78.0	88.3	83.1	82.0	86.0	79.3	76.5	78.3	80.4	85.9	83.2	86.6	80.6	74.5	83.1	82.3	80.7	73.6	83.6	81.1	73.7	78.5	81.1
43	JH 13346	82.4	81.2	75.0	84.1	80.7	74.5	82.0	78.7	73.0	70.5	75.7	81.3	77.8	86.2	80.0	78.1	80.1	80.6	79.6	73.6	82.0	77.6	83.1	79.2	79.0
44	BH 413036	83.0	81.9	78.0	84.7	81.9	67.5	84.2	79.1	75.0	74.3	76.0	80.6	79.4	85.4	80.8	77.6	82.8	81.1	80.2	74.6	81.7	77.3	86.7	80.1	79.7
45	DKC9168	84.1	83.0	76.0	83.5	81.6	82.0	84.3	77.5	75.0	76.2	79.0	81.8	82.2	87.5	80.6	77.8	82.4	82.0	80.8	74.4	87.2	80.0	85.6	81.6	81.1
46	CCH 1040	82.4	81.4	74.0	84.3	80.5	83.5	80.3	77.6	70.5	78.1	78.0	83.5	82.1	81.3	82.8	76.9	82.7	81.5	79.1	73.0	87.9	79.4	87.3	81.3	80.4
47	IMH1536	84.8	81.0	79.0	88.3	83.3	79.0	84.2	81.0	77.5	75.4	79.4	82.0	81.6	85.1	81.0	76.1	82.8	81.4	81.0	71.4	84.7	81.1	83.6	80.4	81.0
48	DKC8161	81.3	82.6	73.7	80.3	79.5	73.0	81.4	80.6	71.5	80.3	77.4	78.2	79.1	83.8	81.1	73.5	79.9	79.2	81.0	73.6	82.6	77.4	79.3	78.8	78.7
49	MFH-5-15	86.1	82.3	73.7	80.9	80.7	76.0	80.0	80.3	79.0	78.0	78.7	84.1	81.0	87.5	82.8	72.3	83.0	81.8	80.7	71.5	87.4	79.1	88.4	81.4	80.7
50	HT 515169	85.0	82.3	74.0	91.2	83.1	77.0	84.6	80.3	74.5	77.2	78.7	81.5	80.8	87.3	79.9	79.3	83.7	82.1	80.5	76.4	82.5	79.1	83.0	80.3	81.0
	CHECKS																									
51	PMH-1	80.7	82.2	70.0	86.3	79.8	81.5	84.5	81.9	71.5	76.1	79.1	78.4	81.4	85.6	82.9	75.7	79.8	80.6	80.5	76.6	81.5	77.5	77.3	78.7	79.6
52	PMH-3	85.6	83.8	78.0	85.6	83.3	82.5	84.8	79.3	74.5	78.5	79.9	82.5	82.3	86.0	81.0	72.8	83.9	81.4	80.8	72.8	83.0	80.5	83.8	80.2	81.1
53	Seedtech-2324	85.5	79.3	75.0	84.7	81.1	80.0	81.6	78.1	72.0	77.0	77.7	79.9	81.0	88.6	81.4	75.3	83.1	81.5	81.2	73.4	80.6	81.1	86.1	80.5	80.2
54	BIO-9681	80.2	80.4	78.0	83.7	80.6	81.5	82.2	77.2	75.5	76.0	78.5	81.1	81.4	87.6	82.6	74.6	83.0	81.7	81.7	72.5	82.3	79.9	85.1	80.3	80.3
	Loc. Mean	**83.7**	**81.9**	**74.0**	**84.6**	**81.0**	**77.6**	**83.2**	**79.0**	**74.6**	**75.9**	**78.0**	**81.4**	**80.9**	**86.0**	**81.0**	**76.4**	**81.8**	**81.2**	**80.2**	**73.9**	**84.3**	**79.0**	**83.0**	**80.1**	**80.1**
	C.D. (5%)	2.50	0.30	0.71	2.80	3.02	7.68	1.08	-	2.41	1.34	3.26	1.68	1.25	2.49	2.33	2.85	0.76	2.06	0.56	2.91	5.54	3.38	2.21	3.28	1.45
	C.V. (%)	1.84	0.22	0.59	2.04	2.67	6.11	0.80	-	2.00	1.09	3.35	1.28	0.96	1.79	1.78	2.30	0.58	2.23	0.43	2.44	4.06	2.64	1.64	3.28	2.91
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.00

TABLE No. 2 (Cont...)

		MOISTURE % AT HARVEST																							
						NWPZ						NEPZ							PZ					CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	GODH	Mean	Mean
1	ADV 7139	34.1	23.1	13.7	19.1	22.5	20.4	27.0	18.4	32.7	26.2	24.9	22.1	18.6	13.0	17.9	15.5	22.2	18.2	16.9	17.4	13.7	15.3	15.8	20.4
2	ADV 7022	27.8	22.1	13.3	19.4	20.7	25.2	28.5	18.7	34.7	27.1	26.8	23.4	20.9	18.1	17.5	14.9	24.4	19.8	16.9	18.0	16.7	15.0	16.6	21.2
3	MAH-K14-1	29.0	21.7	14.3	17.6	20.7	17.0	29.0	20.0	25.9	25.7	23.5	19.8	19.7	10.9	16.6	15.1	22.8	17.5	17.4	16.1	14.2	16.7	16.1	19.4
4	PM15108L	27.9	21.4	13.7	16.8	19.9	20.2	28.7	19.0	27.6	25.0	24.1	18.3	19.1	15.3	15.9	15.5	22.3	17.7	20.9	17.5	13.9	15.8	17.0	19.7
5	AH7000	28.3	23.8	14.3	16.9	20.8	21.8	28.6	19.7	29.3	24.3	24.7	21.1	18.0	15.5	17.0	15.4	21.9	18.1	19.4	17.7	14.0	15.8	16.7	20.1
6	KMH-1311	33.9	21.5	14.7	20.0	22.5	18.4	28.7	20.4	31.7	24.5	24.7	20.9	20.0	15.3	16.9	14.9	24.0	18.6	16.9	17.5	15.1	16.0	16.4	20.6
7	Aadi	27.2	21.9	14.7	17.7	20.3	24.9	28.2	18.9	29.2	25.2	25.3	19.7	17.4	15.7	18.4	15.1	22.0	18.0	17.8	17.4	16.2	14.3	16.4	20.1
8	IMH1534	25.4	22.7	16.0	16.9	20.3	24.6	28.4	20.2	28.7	25.6	25.5	20.8	18.2	15.0	16.2	14.3	19.0	17.2	18.2	17.5	15.1	17.0	16.9	20.0
9	EH-2588	25.9	24.3	14.7	16.9	20.4	15.3	29.4	20.0	28.0	24.7	23.5	19.6	16.1	14.8	17.1	15.1	19.4	17.0	16.1	17.2	15.2	16.5	16.2	19.3
10	DKC8166	30.5	23.2	16.0	19.0	22.2	16.2	28.1	19.4	29.8	26.9	24.1	21.9	21.9	17.9	17.2	14.8	24.0	19.6	17.7	17.7	16.7	16.8	17.2	20.8
11	JH 13336	28.8	22.3	15.3	17.9	21.1	16.7	28.6	19.7	29.3	26.7	24.2	19.8	18.5	13.4	17.8	15.9	19.0	17.4	17.3	17.6	17.6	16.6	17.3	19.9
12	RMH-726	28.7	23.4	16.0	17.8	21.5	19.7	27.9	18.9	31.9	24.2	24.5	19.6	20.9	14.1	17.0	14.6	20.8	17.8	17.0	17.2	15.9	17.0	16.8	20.1
13	ZASL-986	28.6	22.8	15.0	17.8	21.0	22.1	30.3	19.6	31.8	26.0	25.9	20.7	20.3	16.9	17.0	13.9	20.8	18.3	17.1	17.0	14.1	16.0	16.0	20.4
14	IMH1526	27.4	22.2	13.0	17.3	20.0	23.8	28.2	18.5	25.7	24.4	24.1	16.1	17.8	14.7	16.5	14.7	22.9	17.1	20.3	17.8	15.3	15.2	17.1	19.6
15	CMH12-686	28.2	23.3	14.7	17.4	20.9	25.7	28.1	20.8	31.9	27.2	26.7	22.3	19.8	13.9	18.0	15.4	21.4	18.5	19.7	18.1	16.2	14.5	17.1	20.9
16	BL 103	26.5	22.6	16.0	18.1	20.8	20.4	29.3	19.7	31.1	24.0	24.9	16.9	18.9	16.9	18.4	15.2	20.7	17.8	18.5	17.8	13.6	17.1	16.7	20.1
17	DH-296	25.9	22.4	16.3	16.5	20.3	22.2	28.0	18.7	25.5	25.1	23.9	17.2	16.7	17.5	17.1	13.7	20.0	17.0	17.4	17.3	15.5	15.9	16.5	19.4
18	GK3144	27.6	22.2	15.7	17.1	20.7	16.8	28.5	17.6	30.1	26.0	23.8	17.6	19.2	12.9	17.7	15.0	20.7	17.1	17.7	17.1	15.5	14.8	16.3	19.4
19	OMH 14-19	28.7	21.8	16.0	17.8	21.1	26.1	28.1	17.9	30.5	23.6	25.2	22.5	20.3	17.1	17.3	13.9	19.9	18.5	16.1	17.2	13.4	18.5	16.3	20.3
20	DKC9164	30.7	22.6	17.0	17.8	22.0	15.8	28.1	19.6	27.5	26.4	23.5	21.9	21.0	14.4	16.7	14.6	23.9	18.7	16.9	17.5	15.5	17.0	16.7	20.2
21	SAFAL X-2	27.3	22.2	17.0	16.6	20.8	20.6	29.4	19.3	27.8	27.0	24.8	16.0	14.7	13.6	17.0	14.3	19.9	15.9	16.9	17.8	14.0	16.6	16.3	19.3
22	RMH-748	26.6	21.5	16.0	18.9	20.7	17.1	28.8	19.0	31.7	24.7	24.2	20.8	20.3	15.1	16.7	13.8	21.1	18.0	19.7	17.9	16.6	16.0	17.5	20.1
23	HM15313	31.8	22.1	14.0	16.9	21.2	20.2	27.7	20.4	29.0	26.9	24.8	18.2	17.2	12.8	16.9	14.2	21.2	16.7	19.8	17.8	15.3	16.9	17.4	19.9
24	VNR-34229	25.4	21.6	14.0	18.1	19.8	17.0	28.0	19.3	29.1	23.7	23.4	16.5	19.3	15.2	17.2	15.0	23.9	17.8	17.4	17.5	16.2	16.3	16.8	19.5
25	BH 413055	27.6	22.6	17.3	19.2	21.7	20.4	27.3	19.6	30.6	27.0	25.0	21.2	15.5	14.5	16.6	13.3	29.0	18.3	17.7	16.8	13.7	14.2	15.6	20.2
26	HKH 425	28.7	21.4	16.0	18.1	21.0	14.1	28.4	19.0	27.4	24.2	22.6	17.4	16.6	14.2	17.1	14.1	20.9	16.7	16.2	17.6	15.4	15.8	16.2	19.1
27	BL 108	24.6	23.5	13.0	18.1	19.8	20.8	28.3	19.2	29.2	24.6	24.4	16.7	20.0	13.9	16.5	14.2	21.8	17.2	16.1	17.8	14.0	16.3	16.0	19.4
28	SYN516753	26.7	22.3	13.0	17.6	19.9	19.9	28.9	19.4	29.7	25.0	24.6	20.9	21.1	15.4	17.6	14.5	22.7	18.7	15.9	17.4	15.9	17.0	16.5	20.0
29	BRM 12-6	27.1	21.5	15.3	17.3	20.3	22.4	28.1	19.2	31.2	25.0	25.2	18.8	20.7	15.5	16.2	15.3	21.2	17.9	16.7	17.1	15.5	15.7	16.2	20.0
30	PM15103L	31.6	23.4	16.7	18.7	22.6	22.2	28.0	18.6	33.3	27.3	25.9	23.2	20.4	12.7	18.1	15.6	24.3	19.0	18.2	17.0	15.5	14.7	16.3	21.0
31	MAH-K14-3	32.6	22.0	19.0	18.1	22.9	16.7	28.1	19.7	29.4	25.0	23.8	20.2	17.8	16.6	16.6	14.8	22.8	18.1	20.1	17.2	14.4	16.7	17.1	20.4
32	DH-295	33.0	24.2	15.0	18.3	22.6	16.5	29.8	19.5	31.3	25.8	24.6	21.2	21.2	16.9	15.4	15.4	20.0	18.3	16.8	17.7	15.8	16.7	16.7	20.5
33	DKC8144	27.2	21.3	16.0	18.6	20.8	15.7	29.0	18.4	27.5	25.9	23.3	20.2	20.4	14.3	17.8	15.1	21.3	18.2	21.5	17.6	13.6	15.8	17.1	19.8

TABLE No. 2 (Cont...)

S.No.	PEDIGREE	MOISTURE % AT HARVEST																							
						NWPZ						NEPZ							PZ					CWZ	OV'L
		LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	GODH	Mean	Mean
34	KNMH-4506	26.0	21.6	14.0	16.3	19.5	18.9	27.9	18.8	29.6	23.9	23.8	14.5	15.5	14.0	15.6	13.9	20.5	15.6	15.7	17.3	15.7	15.7	16.1	18.7
35	VNR-32971	31.4	22.4	14.7	19.5	22.0	20.2	28.4	19.3	35.6	26.8	26.0	20.9	20.5	14.6	18.1	14.9	25.0	19.0	15.2	17.5	15.6	16.0	16.0	20.8
36	IIMRNH 2015-7	24.5	22.0	15.0	16.4	19.5	16.3	27.6	19.0	25.6	24.6	22.6	18.3	17.7	14.2	16.8	14.4	19.0	16.7	17.5	17.8	15.0	14.8	16.3	18.7
37	JH 13208	32.9	22.2	16.7	19.3	22.8	27.0	27.9	19.5	31.9	27.1	26.7	20.5	21.5	11.6	17.1	14.2	24.0	18.1	17.5	17.8	17.1	15.8	17.0	21.1
38	KMH-2852	31.7	21.4	13.0	19.7	21.4	21.1	29.6	18.4	32.1	26.9	25.6	17.5	22.5	14.5	18.5	14.5	23.8	18.6	19.8	17.0	14.7	15.8	16.8	20.6
39	DKC9167	31.1	20.3	17.0	18.1	21.6	20.7	28.9	18.9	31.7	26.9	25.4	23.2	20.2	14.0	17.3	15.1	22.7	18.7	22.3	17.1	17.8	15.3	18.1	21.0
40	BH 413027	30.4	23.1	18.3	17.4	22.3	13.1	28.4	18.6	29.4	24.8	22.8	15.8	15.0	16.7	16.4	14.3	19.2	16.2	17.8	17.1	12.5	14.5	15.5	19.1
41	IIMRNH 2015-6	25.7	22.6	15.0	17.8	20.2	15.3	29.7	20.4	32.7	23.3	24.3	19.6	18.4	15.2	17.4	14.5	19.9	17.5	21.8	17.9	13.8	16.0	17.3	19.8
42	Googul	25.1	21.8	16.0	15.9	19.7	15.4	28.0	19.3	23.3	24.3	22.0	15.9	17.9	13.9	16.8	14.8	18.8	16.3	19.9	17.7	15.1	15.4	17.0	18.7
43	JH 13346	29.0	21.1	14.0	19.2	20.8	15.1	28.5	19.6	29.0	25.0	23.4	20.4	21.2	15.5	16.6	14.6	23.1	18.5	16.9	17.0	14.1	16.2	16.0	19.8
44	BH 413036	27.4	22.0	14.7	20.4	21.1	15.6	29.3	19.0	30.0	26.9	24.1	19.8	19.5	16.0	17.7	13.4	21.8	18.0	17.4	16.8	15.4	15.0	16.1	19.9
45	DKC9168	27.4	22.6	15.0	19.3	21.1	24.1	29.0	18.9	32.1	26.0	26.0	21.0	20.0	15.7	16.5	15.1	23.3	18.6	17.8	17.7	14.1	15.1	16.2	20.5
46	CCH 1040	27.4	23.2	16.7	17.9	21.3	15.6	29.5	19.6	28.5	24.9	23.6	21.3	18.2	13.6	17.2	15.8	20.0	17.7	15.9	17.6	14.2	16.2	16.0	19.6
47	IMH1536	32.4	24.8	13.0	18.4	22.1	19.7	27.9	20.0	31.1	24.0	24.5	23.3	21.8	12.0	16.7	15.1	22.9	18.6	21.8	16.8	15.8	14.5	17.2	20.6
48	DKC8161	27.5	24.7	17.0	17.8	21.7	13.0	29.0	20.2	30.3	26.9	23.9	19.9	20.4	13.0	15.4	14.2	21.7	17.4	20.8	17.7	15.1	14.3	17.0	19.9
49	MFH-5-15	23.6	22.2	17.0	16.8	19.9	20.9	28.2	19.7	26.6	23.1	23.7	13.6	17.5	12.3	15.2	13.0	19.0	15.1	20.9	17.4	13.4	16.2	17.0	18.8
50	HT 515169	27.7	22.6	18.3	21.2	22.5	27.2	28.1	19.3	32.5	26.1	26.6	21.9	22.0	14.0	18.2	14.5	24.8	19.2	19.6	17.7	16.3	14.9	17.1	21.4
	CHECKS																								
51	PMH-1	31.7	21.5	15.0	18.6	21.7	20.3	29.6	19.4	29.0	25.9	24.8	20.6	20.9	12.7	17.2	15.1	21.8	18.0	18.2	17.9	17.2	15.7	17.2	20.4
52	PMH-3	31.4	21.9	16.0	17.9	21.8	22.6	28.4	19.7	30.9	25.9	25.5	20.9	21.3	14.2	18.1	15.6	19.8	18.3	19.7	17.7	13.0	14.7	16.3	20.5
53	Seedtech-2324	28.2	23.2	14.0	16.5	20.5	15.6	27.9	20.0	31.7	26.4	24.3	20.6	19.7	12.5	17.9	14.7	23.0	18.0	20.1	17.7	15.4	15.9	17.3	20.0
54	BIO-9681	30.4	20.6	14.7	16.4	20.5	16.4	28.1	20.6	26.3	23.2	22.9	17.4	15.6	13.2	16.0	14.9	18.1	15.8	19.9	17.3	13.4	17.0	16.9	18.9
	Loc. Mean	**28.6**	**22.4**	**15.3**	**18.0**	**21.1**	**19.4**	**28.5**	**19.3**	**29.8**	**25.4**	**24.5**	**19.6**	**19.2**	**14.6**	**17.0**	**14.7**	**21.7**	**17.8**	**18.2**	**17.4**	**15.1**	**15.8**	**16.6**	**20.0**
	C.D. (5%)	1.74	0.32	1.87	1.44	2.21	4.89	1.03	-	2.60	0.95	2.48	1.89	1.44	2.68	0.75	1.06	0.68	1.71	0.47	0.51	2.39	0.68	1.72	1.03
	C.V. (%)	3.76	0.89	7.52	4.96	7.51	15.55	2.23	-	5.40	2.31	8.12	5.97	4.66	11.37	2.72	4.45	1.94	8.45	1.60	1.80	9.80	2.65	7.40	8.09
	F (Prob)	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00

TABLE No. 2 (Cont...)

		STAND AT HARVEST ('000/ha)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	76.4	61.7	78.5	56.7	68.3	50.6	53.6	59.0	63.2	64.6	58.2	54.4	58.3	66.0	57.7	54.2	66.0	59.4	54.9	57.6	59.4	75.0	79.2	65.2	62.3
2	ADV 7022	77.8	60.0	79.2	56.7	68.4	45.0	70.8	59.7	61.8	72.2	61.9	56.7	61.7	79.9	64.9	55.6	66.7	64.2	52.8	51.4	63.9	72.8	83.3	64.8	64.6
3	MAH-K14-1	81.9	58.3	80.6	56.7	69.4	44.4	63.1	60.4	60.4	68.1	59.3	61.1	63.3	61.1	64.9	61.8	64.6	62.8	58.3	49.3	59.4	71.1	80.6	63.8	63.5
4	PM15108L	52.8	61.1	81.9	52.2	62.0	41.7	45.8	54.9	37.5	62.5	48.5	42.2	42.8	52.1	57.7	22.2	65.3	47.1	58.3	56.9	28.3	54.4	75.0	54.6	52.3
5	AH7000	86.1	58.9	77.8	56.7	69.9	52.8	59.5	59.0	56.3	61.8	57.9	57.2	60.0	75.7	57.7	45.8	66.0	60.4	50.0	54.9	55.0	50.6	83.3	58.8	61.3
6	KMH-1311	84.0	62.2	76.4	56.7	69.8	43.3	68.5	59.7	63.9	75.0	62.1	55.6	62.2	77.8	65.5	56.3	65.3	63.8	61.1	59.7	61.1	76.1	81.9	68.0	65.6
7	Aadi	83.3	55.6	73.6	56.7	67.3	55.0	57.1	56.3	60.4	72.2	60.2	55.0	60.6	81.9	59.5	54.9	65.3	62.9	56.3	50.7	52.8	68.9	81.9	62.1	62.9
8	IMH1534	81.9	58.3	78.5	56.7	68.9	47.8	58.3	58.3	62.5	59.7	57.3	57.8	62.8	70.1	61.9	48.6	66.7	61.3	56.3	56.9	61.1	67.8	83.3	65.1	62.8
9	EH-2588	77.8	60.0	77.1	56.7	67.9	51.7	55.4	56.9	59.0	77.1	60.0	44.4	53.9	60.4	58.9	45.8	66.0	54.9	60.4	50.0	52.2	59.4	83.3	61.1	60.3
10	DKC8166	81.3	59.4	73.6	56.7	67.7	47.2	54.2	59.0	64.6	64.6	57.9	53.9	61.7	84.7	60.1	52.8	65.3	63.1	54.9	56.3	65.0	60.6	83.3	64.0	63.0
11	JH 13336	77.1	60.6	75.0	54.4	66.8	43.9	63.7	61.8	54.9	70.8	59.0	62.8	55.0	61.8	58.3	51.4	66.7	59.3	58.3	59.0	58.9	66.1	79.2	64.3	62.0
12	RMH-726	84.0	59.4	78.5	56.7	69.7	48.9	53.6	58.3	55.6	63.2	55.9	62.8	61.7	87.5	64.3	51.4	66.7	65.7	60.4	63.9	62.8	63.9	83.3	66.9	64.3
13	ZASL-986	81.9	62.2	76.4	56.7	69.3	52.8	53.6	58.3	58.3	70.1	58.6	49.4	53.9	75.0	64.9	47.9	66.0	59.5	54.9	54.2	58.9	73.3	81.9	64.6	62.5
14	IMH1526	83.3	59.4	78.5	54.4	68.9	53.9	47.6	56.3	63.9	66.7	57.7	57.8	63.9	81.3	60.1	45.8	66.0	62.5	51.4	59.0	58.3	66.1	73.6	61.7	62.4
15	CMH12-686	84.0	62.2	77.1	56.7	70.0	46.7	58.3	60.4	63.2	63.9	58.5	45.6	47.2	76.4	60.7	55.6	65.3	58.5	54.9	57.6	57.8	65.0	76.4	62.3	61.7
16	BL 103	82.6	59.4	77.8	56.7	69.1	46.7	68.5	58.3	64.6	72.9	62.2	57.8	48.9	73.6	63.1	55.6	66.7	60.9	51.4	54.2	62.8	64.4	81.9	62.9	63.4
17	DH-296	84.7	60.0	75.7	56.7	69.3	54.4	69.6	60.4	63.9	68.8	63.4	53.9	56.1	61.8	61.9	55.6	66.7	59.3	61.8	57.6	64.4	63.3	83.3	66.1	64.0
18	GK3144	84.0	61.1	73.6	56.7	68.9	52.8	57.7	56.3	63.2	63.2	58.6	60.0	53.9	69.4	58.3	50.7	65.3	59.6	53.5	54.9	56.7	72.8	66.7	60.9	61.5
19	OMH 14-19	85.4	58.3	72.9	56.7	68.3	45.6	63.1	56.3	64.6	60.4	58.0	58.3	57.2	66.0	60.7	52.8	64.6	59.9	56.9	58.3	63.3	51.7	81.9	62.4	61.8
20	DKC9164	85.4	58.9	74.3	56.7	68.8	53.3	67.9	60.4	66.7	70.8	63.8	61.1	65.0	71.5	61.3	54.2	66.7	63.3	57.6	63.2	58.3	84.4	83.3	69.4	66.1
21	SAFAL X-2	86.1	59.4	75.7	56.7	69.5	47.8	62.5	62.5	62.5	67.4	60.5	56.7	62.2	79.2	61.9	53.5	66.7	63.3	55.6	61.1	57.2	64.4	79.2	63.5	63.9
22	RMH-748	81.3	60.6	75.0	56.7	68.4	50.0	60.1	54.9	54.2	65.3	56.9	54.4	62.2	72.9	60.1	61.1	66.0	62.8	57.6	53.5	60.0	81.1	80.6	66.6	63.4
23	HM15313	81.3	59.4	77.1	56.7	68.6	42.8	55.4	54.2	63.9	67.4	56.7	52.2	62.8	66.7	66.1	55.6	66.0	61.5	54.9	61.8	54.4	70.0	76.4	63.5	62.2
24	VNR-34229	84.0	60.0	77.8	55.6	69.3	52.8	53.0	60.4	65.3	74.3	61.2	56.1	62.2	73.6	61.9	48.6	66.7	61.5	54.2	51.4	63.9	69.4	70.8	61.9	63.1
25	BH 413055	76.4	58.3	72.2	56.7	65.9	47.8	55.4	54.2	59.7	72.2	57.8	58.9	52.2	65.3	61.3	41.0	66.7	57.6	63.2	55.6	56.1	56.7	80.6	62.4	60.5
26	HKH 425	84.0	60.0	75.7	56.7	69.1	48.9	63.7	56.3	67.4	61.1	59.5	53.9	63.3	68.8	59.5	46.5	66.7	59.8	59.0	54.9	59.4	55.6	81.9	62.2	62.2
27	BL 108	79.9	58.9	75.7	56.7	67.8	49.4	64.3	62.5	59.7	65.3	60.2	54.4	63.3	66.7	61.9	57.6	66.7	61.8	51.4	52.1	61.7	65.0	79.2	61.9	62.6
28	SYN516753	81.9	58.9	77.1	54.4	68.1	48.9	63.1	59.7	64.6	63.9	60.0	63.9	56.1	74.3	77.4	52.8	66.0	65.1	58.3	54.9	60.6	79.4	80.6	66.7	64.8
29	BRM 12-6	77.8	57.8	75.7	52.8	66.0	47.8	58.3	59.0	52.1	70.8	57.6	56.7	63.9	74.3	63.1	54.2	66.7	63.1	53.5	54.2	57.8	59.4	80.6	61.1	61.8
30	PM15103L	77.1	61.7	74.3	55.6	67.2	60.0	61.3	62.5	59.0	66.7	61.9	51.1	63.3	56.9	61.9	50.0	65.3	58.1	52.8	63.2	64.4	76.1	80.6	67.4	63.2
31	MAH-K14-3	75.7	58.3	75.7	55.6	66.3	51.1	53.6	62.5	63.9	68.1	59.8	59.4	62.2	87.5	59.5	51.4	66.7	64.5	54.9	61.1	65.0	75.0	83.3	67.9	64.5
32	DH-295	83.3	58.9	75.0	56.7	68.5	47.8	53.6	58.3	54.2	64.6	55.7	56.7	58.3	76.4	62.5	55.6	64.6	62.3	60.4	52.8	61.1	72.2	80.6	65.4	62.7
33	DKC8144	79.2	58.3	73.6	55.6	66.7	50.6	62.5	61.8	47.9	63.2	57.2	60.6	53.9	65.3	61.3	60.4	66.7	61.4	58.3	59.0	59.4	71.1	79.2	65.4	62.4

TABLE No. 2 (Cont...)

		STAND AT HARVEST ('000/ha)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	83.3	58.3	77.8	54.4	68.5	48.9	53.0	54.9	61.1	66.0	56.8	52.2	57.2	56.3	63.1	47.2	65.3	56.9	60.4	56.3	60.0	48.9	69.4	59.0	59.7
35	VNR-32971	81.3	57.8	77.8	52.8	67.4	46.7	58.9	56.9	56.9	69.4	57.8	51.7	61.7	55.6	61.9	37.5	66.0	55.7	61.1	53.5	51.1	72.2	76.4	62.9	60.4
36	IIMRNH 2015-7	78.5	60.6	75.0	56.7	67.7	55.6	56.5	59.7	62.5	63.9	59.6	55.6	64.4	65.3	56.0	47.9	66.0	59.2	59.7	59.7	59.4	58.3	81.9	63.8	62.2
37	JH 13208	84.7	60.0	77.8	55.6	69.5	44.4	64.9	59.7	65.3	71.5	61.2	52.2	63.3	72.2	56.5	58.3	65.3	61.3	52.1	63.2	55.6	76.7	80.6	65.6	64.0
38	KMH-2852	86.1	59.4	75.0	56.7	69.3	50.0	57.1	59.0	62.5	64.6	58.7	52.2	63.3	72.9	63.7	59.0	66.7	63.0	49.3	42.4	62.2	76.7	83.3	62.8	63.1
39	DKC9167	85.4	59.4	78.5	55.6	69.7	53.9	60.7	56.9	67.4	66.7	61.1	58.9	65.6	75.7	62.5	60.4	66.7	65.0	59.0	60.4	63.9	77.2	80.6	68.2	65.8
40	BH 413027	81.3	58.9	77.1	55.6	68.2	48.9	61.9	61.1	66.7	61.8	60.1	55.0	57.8	70.8	59.5	48.6	66.7	59.7	52.1	59.0	60.0	60.0	81.9	62.6	62.2
41	IIMRNH 2015-6	81.3	56.7	75.0	56.7	67.4	49.4	54.8	56.9	60.4	67.4	57.8	57.8	56.7	72.9	63.1	52.1	66.7	61.5	58.3	58.3	62.2	61.7	77.8	63.7	62.3
42	Googul	79.2	58.9	73.6	56.7	67.1	48.3	55.4	58.3	51.4	72.2	57.1	58.3	59.4	52.8	65.5	53.5	66.7	59.4	54.9	51.4	55.0	62.2	77.8	60.3	60.6
43	JH 13346	81.9	58.3	77.8	55.6	68.4	47.2	59.5	61.8	66.7	66.7	60.4	57.2	52.8	71.5	65.5	52.8	66.0	61.0	52.8	52.1	63.9	59.4	70.8	59.8	62.0
44	BH 413036	82.6	60.0	77.8	56.7	69.3	47.2	54.2	60.4	54.2	62.5	55.7	51.7	49.4	80.6	61.3	53.5	66.7	60.5	54.2	57.6	44.4	58.3	81.9	59.3	60.8
45	DKC9168	75.0	58.9	75.0	54.4	65.8	46.1	50.6	56.9	67.4	69.4	58.1	51.1	55.6	48.6	58.3	52.8	65.3	55.3	55.6	57.6	60.0	65.6	73.6	62.5	59.9
46	CCH 1040	79.2	60.0	77.8	56.7	68.4	51.1	60.1	62.5	59.0	63.2	59.2	55.6	57.2	88.9	64.9	50.0	66.7	63.9	45.8	63.9	65.6	67.2	75.0	63.5	63.5
47	IMH1536	83.3	58.9	75.0	56.7	68.5	46.1	60.7	62.5	61.8	63.2	58.9	56.1	61.1	65.3	63.7	56.3	65.3	61.3	52.8	58.3	58.3	67.8	79.2	63.3	62.6
48	DKC8161	82.6	57.8	78.5	56.7	68.9	51.7	61.3	61.8	58.3	70.8	60.8	57.8	62.8	76.4	57.7	50.7	65.3	61.8	54.9	50.7	61.7	72.2	83.3	64.6	63.6
49	MFH-5-15	71.5	59.4	78.5	56.7	66.5	47.2	57.7	59.7	61.1	64.6	58.1	53.9	61.1	71.5	58.9	42.4	65.3	58.8	57.6	52.1	63.3	52.8	76.4	60.4	60.6
50	HT 515169	81.3	60.6	77.1	56.7	68.9	47.2	61.3	58.3	52.1	66.7	57.1	52.8	48.3	59.0	61.9	51.4	66.7	56.7	60.4	57.6	55.6	73.3	62.5	61.9	60.5
	CHECKS																									
51	PMH-1	79.2	58.3	75.0	56.7	67.3	51.7	55.4	61.1	66.7	68.8	60.7	55.0	61.7	65.3	58.3	55.6	66.7	60.4	49.3	55.6	57.2	74.4	79.2	63.1	62.5
52	PMH-3	72.9	58.3	73.6	56.7	65.4	60.6	60.1	60.4	57.6	68.1	61.4	53.3	63.9	71.5	62.5	42.4	66.7	60.0	54.2	59.7	58.9	71.7	79.2	64.7	62.6
53	Seedtech-2324	81.9	61.1	77.8	56.7	69.4	51.1	58.3	59.0	61.1	72.9	60.5	60.6	62.2	87.5	60.1	46.5	66.7	63.9	56.9	55.6	61.7	71.1	75.0	64.1	64.2
54	BIO-9681	86.1	56.7	77.8	56.7	69.3	50.6	61.9	54.9	68.8	66.0	60.4	62.8	52.8	80.6	60.1	49.3	66.0	61.9	61.8	50.0	62.2	64.4	83.3	64.4	63.6
	Loc. Mean	**80.8**	**59.4**	**76.4**	**56.1**	**68.2**	**49.4**	**58.9**	**58.9**	**60.6**	**67.1**	**59.0**	**55.6**	**58.8**	**70.8**	**61.6**	**51.4**	**66.1**	**60.7**	**56.0**	**56.2**	**59.0**	**67.0**	**79.1**	**63.4**	**62.5**
	C.D. (5%)	7.49	3.62	4.35	3.07	4.10	12.45	9.46	5.84	11.23	5.73	5.17	7.98	4.30	20.47	7.36	7.12	1.33	5.83	6.00	10.58	8.30	9.48	9.82	6.79	2.83
	C.V. (%)	5.73	3.77	3.51	3.39	4.30	15.57	9.93	6.12	11.46	5.27	7.03	8.86	4.52	17.86	7.38	8.56	1.25	8.45	6.62	11.62	8.70	8.74	7.67	8.59	7.30
	F (Prob)	0.00	0.26	0.01	0.45	0.55	0.86	0.00	0.10	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.01	0.15	0.00

TABLE No. 2 (Cont...)

		DAYS TO 50% POLLEN SHED																								
						NWPZ						NEPZ						PZ							CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	53.3	52.3	51.3	58.3	53.8	56.3	68.0	53.0	52.7	59.3	57.9	58.3	55.7	57.7	52.0	53.7	56.0	55.6	58.3	52.0	61.3	50.7	53.3	55.1	55.7
2	ADV 7022	52.7	57.3	50.3	62.3	55.7	57.3	72.0	55.0	59.3	63.3	61.4	59.3	60.0	60.7	53.0	53.3	58.0	57.4	61.3	55.3	61.3	51.0	52.7	56.3	57.8
3	MAH-K14-1	54.7	52.0	47.3	56.3	52.6	54.7	69.0	54.0	54.3	50.7	56.5	56.3	55.7	60.3	54.3	52.7	55.0	55.7	59.7	50.3	60.3	50.3	54.3	55.0	55.1
4	PM15108L	51.0	51.3	50.3	56.0	52.2	55.0	62.3	51.3	53.7	56.7	55.8	54.3	55.7	60.3	51.3	52.0	49.7	53.9	55.3	50.0	58.3	49.3	53.7	53.3	53.9
5	AH7000	53.3	55.3	56.3	58.7	55.9	54.7	68.7	52.7	56.0	58.0	58.0	57.3	56.7	59.7	52.7	52.7	57.7	56.1	58.7	50.7	59.7	50.3	53.0	54.5	56.1
6	KMH-1311	55.3	57.7	54.7	58.0	56.4	56.0	70.7	52.0	60.3	64.3	60.7	59.7	57.7	59.0	53.3	53.7	57.7	56.8	59.7	62.0	61.0	51.0	53.3	57.4	57.9
7	Aadi	53.7	54.7	48.7	57.0	53.5	55.7	71.0	55.7	54.7	54.7	58.3	58.3	57.3	60.3	51.7	53.3	56.3	56.2	58.0	53.0	59.3	49.0	53.7	54.6	55.8
8	IMH1534	52.0	54.3	56.3	55.0	54.4	57.0	69.3	57.0	53.7	54.3	58.3	56.7	56.3	61.3	52.3	53.7	53.0	55.6	56.3	51.7	59.7	50.3	52.7	54.1	55.7
9	EH-2588	51.3	56.7	54.3	54.0	54.1	56.7	72.7	56.0	50.3	61.3	59.4	57.3	55.0	59.7	51.0	52.7	55.3	55.2	54.0	48.7	59.0	49.0	54.0	52.9	55.5
10	DKC8166	51.7	54.7	55.3	54.7	54.1	55.3	68.7	51.0	54.0	58.3	57.5	56.0	58.0	61.3	53.0	53.3	58.0	56.6	57.7	48.0	59.3	51.0	53.0	53.8	55.6
11	JH 13336	52.3	55.7	52.7	57.7	54.6	56.3	70.3	53.0	58.3	61.3	59.9	59.0	60.0	59.7	54.7	54.0	56.0	57.2	59.7	52.0	61.0	52.0	55.0	55.9	57.0
12	RMH-726	52.3	55.0	48.7	57.0	53.3	55.0	68.7	53.0	54.0	56.3	57.4	55.3	57.7	62.3	51.0	53.0	52.0	55.2	57.0	49.3	58.7	47.0	52.3	52.9	54.8
13	ZASL-986	52.0	53.3	50.7	58.0	53.5	56.7	66.7	56.0	54.3	56.3	58.0	57.3	56.7	58.7	52.0	54.0	51.3	55.0	60.0	51.0	60.3	48.0	54.7	54.8	55.4
14	IMH1526	48.0	52.3	52.3	54.7	51.8	55.7	73.7	53.0	54.3	57.3	58.8	57.3	57.0	60.3	53.3	53.3	58.0	56.6	57.7	54.0	59.0	50.3	53.0	54.8	55.7
15	CMH12-686	51.7	55.0	54.7	55.3	54.2	54.3	66.0	55.7	57.7	58.7	58.5	58.0	55.7	61.0	51.7	53.7	52.7	55.4	56.7	49.3	59.0	50.0	53.3	53.7	55.5
16	BL 103	52.7	56.0	48.7	57.0	53.6	49.0	67.7	55.3	55.7	59.3	57.4	58.0	57.3	60.7	53.0	53.3	55.0	56.2	59.7	53.0	60.3	50.0	55.0	55.6	55.8
17	DH-296	52.0	57.3	56.3	57.3	55.8	55.0	66.7	54.0	55.0	56.3	57.4	55.7	57.3	58.0	51.7	53.0	52.7	54.7	58.0	47.7	59.3	49.0	54.3	53.7	55.3
18	GK3144	52.0	55.0	54.3	54.3	53.9	55.0	66.3	57.3	54.3	55.3	57.7	55.0	57.3	59.7	51.3	52.7	57.7	55.6	56.0	46.0	59.0	51.0	55.0	53.4	55.2
19	OMH 14-19	55.3	55.7	52.3	58.0	55.3	55.7	65.3	57.3	57.7	62.7	59.7	58.3	56.3	58.3	52.0	53.0	55.0	55.5	57.3	52.7	60.3	50.3	55.0	55.1	56.4
20	DKC9164	53.0	55.0	50.3	53.7	53.0	55.3	67.7	55.0	55.7	54.3	57.6	57.0	57.0	60.7	53.3	52.7	58.0	56.4	56.7	49.3	58.7	53.0	53.7	54.3	55.5
21	SAFAL X-2	52.3	55.7	53.3	52.7	53.5	56.7	66.7	56.7	54.3	58.7	58.6	57.7	58.3	58.7	51.7	51.7	58.0	56.0	58.3	49.3	60.3	47.0	53.0	53.6	55.6
22	RMH-748	54.0	56.7	54.7	58.0	55.8	56.0	69.0	56.0	57.0	56.7	58.9	58.3	58.7	58.7	52.0	53.0	53.3	55.7	58.3	47.3	59.0	51.0	54.3	54.0	56.1
23	HM15313	52.0	54.3	55.3	55.7	54.3	59.0	72.0	53.0	58.7	58.7	60.3	59.3	57.3	58.0	54.0	53.0	56.0	56.3	59.0	49.3	60.7	51.0	53.7	54.7	56.5
24	VNR-34229	52.7	56.0	48.7	56.0	53.3	56.7	68.3	54.0	55.3	64.7	59.8	57.7	57.3	61.3	52.3	53.3	55.0	56.2	59.3	53.0	59.0	51.0	55.7	55.6	56.4
25	BH 413055	52.0	56.0	52.0	56.0	54.0	58.0	66.7	56.3	55.7	55.7	58.5	57.3	57.3	60.0	51.3	53.0	52.0	55.2	57.7	51.7	58.7	50.3	54.3	54.5	55.6
26	HKH 425	52.3	56.7	50.7	59.0	54.7	56.3	70.3	56.0	57.0	60.7	60.1	57.3	56.3	60.0	52.0	52.7	55.7	55.7	56.7	51.0	60.3	52.3	54.3	54.9	56.4
27	BL 108	50.7	51.7	48.7	53.3	51.1	55.0	69.0	53.0	50.3	53.3	56.1	54.0	55.0	59.0	51.7	53.7	52.3	54.3	57.3	51.0	58.7	46.0	52.7	53.1	53.8
28	SYN516753	54.0	57.3	53.3	59.3	56.0	49.3	69.0	56.0	58.0	61.0	58.7	58.7	57.7	58.0	53.7	52.7	58.0	56.4	59.7	56.3	59.7	50.0	55.0	56.1	56.8
29	BRM 12-6	53.0	53.7	55.7	58.3	55.2	56.3	71.0	56.0	55.3	64.7	60.7	57.7	58.0	59.7	52.7	53.7	55.0	56.1	59.7	51.3	60.7	53.3	53.3	55.7	57.0
30	PM15103L	53.3	60.3	54.3	55.0	55.8	55.7	63.7	53.3	57.0	59.3	57.8	58.0	58.0	60.3	53.0	54.3	55.3	56.5	57.3	52.3	60.0	50.0	53.7	54.7	56.2
31	MAH-K14-3	54.0	56.3	48.7	55.3	53.6	56.7	66.3	53.3	58.3	58.7	58.7	58.0	56.7	58.3	53.7	53.3	55.3	55.9	58.3	50.3	60.3	52.3	54.7	55.2	56.0
32	DH-295	54.7	54.3	50.3	56.3	53.9	56.0	67.0	54.0	54.0	62.7	58.7	56.0	56.7	60.0	49.7	53.0	55.7	55.2	59.0	50.3	60.0	50.0	53.0	54.5	55.6
33	DKC8144	51.7	56.3	54.0	55.0	54.3	56.0	72.0	54.0	56.7	56.3	59.0	56.7	57.3	59.3	53.3	52.3	56.0	55.8	57.3	52.0	60.7	52.3	54.7	55.4	56.2

TABLE No. 2 (Cont...)

		DAYS TO 50% POLLEN SHED																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	53.3	60.3	55.3	59.3	57.1	60.3	71.7	53.0	55.7	63.7	60.9	60.0	58.0	62.3	52.0	53.3	55.3	56.8	60.3	55.0	63.3	51.0	53.0	56.5	57.8
35	VNR-32971	55.3	58.3	51.0	55.3	55.0	58.3	71.0	53.7	59.0	64.7	61.3	60.0	58.0	56.3	55.7	53.7	52.0	55.9	61.3	52.7	61.0	53.3	54.7	56.6	57.3
36	IIMRNH 2015-7	50.7	53.0	53.3	56.0	53.3	55.7	73.0	55.0	53.0	53.7	58.1	55.3	55.7	61.3	52.3	53.0	56.0	55.6	57.3	51.7	58.7	49.3	55.7	54.5	55.5
37	JH 13208	52.7	53.3	55.0	54.7	53.9	58.0	70.7	53.0	54.0	56.7	58.5	57.3	56.0	59.7	53.0	54.7	56.0	56.1	57.7	51.3	59.7	50.0	53.7	54.5	55.9
38	KMH-2852	52.7	55.0	55.0	55.3	54.5	56.3	68.7	54.0	54.7	62.7	59.3	58.7	56.3	59.0	51.7	53.0	56.3	55.8	57.3	51.3	60.7	49.0	53.7	54.4	56.1
39	DKC9167	55.0	55.3	54.0	57.0	55.3	57.7	68.0	53.3	54.0	58.7	58.3	58.3	55.7	59.3	52.3	53.7	58.0	56.2	59.7	53.0	60.7	50.0	53.3	55.3	56.4
40	BH 413027	54.7	55.7	50.0	58.0	54.6	53.7	69.0	53.0	51.7	53.7	56.2	55.0	57.0	59.3	50.0	51.7	56.0	54.8	57.3	51.0	59.7	47.3	54.3	53.9	54.9
41	IIMRNH 2015-6	51.7	54.7	49.7	59.0	53.8	55.0	70.0	53.7	57.7	62.7	59.8	58.3	57.0	59.0	53.0	53.3	52.3	55.5	59.0	53.7	58.7	51.3	53.0	55.1	56.1
42	Googul	51.7	50.0	51.7	54.7	52.0	55.7	66.3	53.3	53.0	52.7	56.2	55.0	55.3	62.0	53.0	52.7	56.0	55.7	55.0	52.7	58.3	51.3	54.0	54.3	54.7
43	JH 13346	52.7	55.0	54.0	55.7	54.3	58.7	67.0	53.7	58.7	54.7	58.5	57.0	56.7	59.3	51.0	52.3	52.0	54.7	57.7	51.0	59.0	50.0	55.3	54.6	55.6
44	BH 413036	52.3	59.0	51.0	56.0	54.6	58.3	68.7	58.7	56.3	58.3	60.1	58.3	59.0	61.7	50.7	52.7	53.3	55.9	57.3	51.0	60.3	50.0	54.0	54.5	56.4
45	DKC9168	54.3	55.0	48.7	58.3	54.1	56.0	70.7	56.7	56.7	58.7	59.7	58.0	55.7	59.7	54.0	53.0	57.0	56.2	59.7	53.7	59.7	51.0	55.0	55.8	56.6
46	CCH 1040	54.0	54.0	53.3	56.3	54.4	55.3	66.7	52.3	53.7	55.3	56.7	56.7	55.7	59.7	52.0	53.0	55.0	55.3	60.3	51.3	58.3	50.3	55.3	55.1	55.4
47	IMH1536	54.0	56.3	55.0	57.7	55.8	54.7	69.7	54.0	54.0	64.7	59.4	57.7	57.7	60.7	51.7	52.3	55.0	55.8	57.0	50.3	59.7	49.0	55.0	54.2	56.3
48	DKC8161	52.7	54.0	53.0	57.7	54.3	56.3	70.3	54.0	55.7	59.7	59.2	58.0	56.3	59.0	53.0	52.7	51.3	55.1	56.0	52.0	60.0	52.0	54.0	54.8	55.9
49	MFH-5-15	52.3	52.7	51.3	56.7	53.3	55.0	67.0	54.0	53.3	53.3	56.5	56.3	56.3	60.7	51.0	53.3	53.0	55.1	57.7	53.0	60.0	49.0	56.0	55.1	55.1
50	HT 515169	52.3	58.0	52.3	57.7	55.1	56.7	67.0	54.7	54.7	65.3	59.7	56.3	56.7	59.3	52.0	52.7	57.3	55.7	58.3	52.3	61.0	51.3	53.0	55.2	56.5
	CHECKS																									
51	PMH-1	52.0	55.7	54.0	55.3	54.3	55.0	66.3	53.3	54.0	63.3	58.4	57.7	54.3	59.3	51.0	52.3	55.3	55.0	58.3	50.7	59.7	48.3	55.3	54.5	55.6
52	PMH-3	53.0	56.7	55.3	55.7	55.2	50.0	68.7	56.3	54.0	57.0	57.2	57.3	56.3	60.0	52.3	53.7	53.3	55.5	58.7	53.3	60.0	49.3	53.0	54.9	55.7
53	Seedtech-2324	52.7	52.3	50.7	57.7	53.3	55.7	68.7	54.0	59.0	55.3	58.5	57.0	57.7	57.7	52.0	53.3	56.3	55.7	58.0	49.3	59.0	51.0	54.3	54.3	55.6
54	BIO-9681	48.0	49.7	51.0	55.3	51.0	46.3	66.3	52.3	49.0	52.7	53.3	54.7	54.3	62.3	49.3	52.0	55.0	54.6	56.0	52.0	58.7	46.0	54.3	53.4	53.3
	Loc. Mean	**52.7**	**55.1**	**52.4**	**56.5**	**54.2**	**55.6**	**68.7**	**54.4**	**55.3**	**58.5**	**58.5**	**57.3**	**56.9**	**59.8**	**52.3**	**53.1**	**55.1**	**55.7**	**58.1**	**51.5**	**59.8**	**50.2**	**54.0**	**54.7**	**55.9**
	C.D. (5%)	1.21	1.01	2.63	2.93	2.59	5.39	1.91	1.52	1.63	2.53	2.95	1.90	2.10	3.36	2.16	1.10	0.96	1.49	1.19	4.20	1.52	0.93	2.40	1.80	1.10
	C.V. (%)	1.41	1.14	3.10	3.20	3.42	5.99	1.72	1.73	1.82	2.67	4.05	2.04	2.28	3.47	2.56	1.28	1.08	2.35	1.27	5.04	1.57	1.15	2.74	2.64	3.16
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00

TABLE No. 2 (Cont...)

		DAYS TO 50% SILKING																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	54.7	54.3	55.7	61.3	56.5	59.3	73.0	56.0	55.7	61.3	61.1	60.3	57.3	60.3	54.3	57.3	58.0	57.9	60.0	55.0	62.3	54.0	54.3	57.1	58.2
2	ADV 7022	54.0	59.3	54.0	65.3	58.2	58.7	75.7	58.0	63.3	65.3	64.2	61.7	63.0	61.3	55.3	56.7	60.0	59.7	62.3	58.3	62.3	54.0	54.7	58.3	60.2
3	MAH-K14-1	56.3	54.0	51.3	59.7	55.3	60.3	73.3	57.0	59.3	52.7	60.5	59.0	58.0	60.0	56.0	56.3	57.0	57.7	61.3	53.3	61.3	53.3	56.0	57.1	57.8
4	PM15108L	52.0	53.3	53.3	58.7	54.3	59.3	67.0	54.3	58.0	58.7	59.5	56.0	57.3	61.0	53.0	55.7	52.7	55.9	57.3	53.0	59.3	52.3	55.3	55.5	56.4
5	AH7000	54.3	57.3	60.3	61.7	58.4	59.3	73.3	56.0	62.3	60.0	62.2	59.3	59.0	61.7	55.0	56.3	60.0	58.6	60.3	53.7	60.7	53.3	54.3	56.5	58.9
6	KMH-1311	56.3	59.7	57.7	61.0	58.7	58.7	75.0	55.0	65.0	66.7	64.1	61.7	59.3	60.3	54.7	57.0	59.7	58.8	61.3	55.0	62.0	54.7	56.0	57.8	59.8
7	Aadi	55.0	56.7	53.0	60.0	56.2	60.0	75.3	58.3	58.3	56.7	61.7	60.0	59.3	61.3	53.7	56.7	58.3	58.2	60.7	56.0	60.3	52.0	55.7	56.9	58.4
8	IMH1534	53.3	56.3	59.0	58.0	56.7	60.0	73.3	60.0	60.0	56.3	61.9	58.7	58.7	61.0	54.3	56.7	55.0	57.4	58.3	54.7	60.7	53.3	54.0	56.2	58.1
9	EH-2588	53.0	58.7	57.3	57.0	56.5	59.7	76.7	59.0	56.0	63.3	62.9	59.3	56.7	59.7	53.3	56.0	57.3	57.1	56.3	51.7	60.0	52.3	55.3	55.1	57.9
10	DKC8166	53.0	56.7	59.3	57.7	56.7	59.3	73.7	54.0	57.3	60.3	60.9	58.3	60.0	62.0	55.3	56.3	60.0	58.7	59.3	51.0	60.3	54.3	54.0	55.8	58.1
11	JH 13336	54.0	57.7	55.7	60.3	56.9	59.7	74.7	56.0	62.7	63.3	63.3	60.7	61.3	61.0	56.0	57.3	58.0	59.1	61.3	55.0	62.0	55.0	56.3	57.9	59.4
12	RMH-726	53.7	57.0	51.7	60.3	55.7	58.3	73.0	55.7	59.7	58.3	61.0	58.0	59.7	63.7	53.7	56.0	54.3	57.6	59.3	52.7	59.7	50.0	53.7	55.1	57.4
13	ZASL-986	53.3	55.3	53.7	61.0	55.8	60.0	71.3	59.0	58.7	58.3	61.5	59.7	58.7	59.7	54.3	57.0	53.7	57.2	61.3	54.0	61.3	51.0	56.3	56.8	57.9
14	IMH1526	49.3	54.3	55.3	57.3	54.1	59.0	77.7	56.0	59.3	59.3	62.3	59.3	58.7	61.0	54.7	56.3	60.0	58.3	59.3	57.0	60.0	53.3	54.7	56.9	58.1
15	CMH12-686	52.7	57.0	57.7	60.0	56.8	58.3	70.3	59.0	60.7	60.7	61.8	60.0	58.3	61.3	53.3	57.3	54.7	57.5	59.3	52.3	60.0	53.7	54.7	56.0	58.1
16	BL 103	54.0	58.0	52.0	60.0	56.0	59.7	72.3	58.3	61.0	61.3	62.5	59.7	59.7	62.0	54.7	56.0	57.0	58.2	61.7	56.0	61.7	53.3	56.7	57.9	58.8
17	DH-296	53.7	59.3	59.7	60.0	58.2	59.0	71.7	57.0	60.7	57.7	61.2	57.7	59.3	59.3	53.7	56.0	55.0	56.8	60.3	50.7	60.3	52.0	55.7	55.8	57.9
18	GK3144	53.3	57.0	57.3	57.7	56.3	59.7	71.0	60.3	59.7	57.3	61.6	56.7	59.0	60.7	53.7	55.7	59.7	57.6	57.7	49.0	60.0	54.3	56.7	55.5	57.8
19	OMH 14-19	57.0	57.7	55.7	60.3	57.7	59.7	69.3	60.3	63.0	64.7	63.4	60.3	58.7	60.3	54.3	56.3	57.0	57.8	59.3	56.3	61.3	54.0	56.3	57.5	59.1
20	DKC9164	54.3	57.0	53.7	56.7	55.4	59.7	72.3	58.0	59.7	56.3	61.2	58.7	59.3	61.7	54.7	55.3	60.0	58.3	59.0	52.3	59.7	55.7	55.0	56.3	58.0
21	SAFAL X-2	53.7	57.7	56.0	55.7	55.8	60.0	71.0	59.7	60.7	60.7	62.4	59.7	59.3	59.7	54.0	54.7	60.0	57.9	60.3	52.3	61.3	49.7	54.3	55.6	58.0
22	RMH-748	54.7	58.7	58.7	60.0	58.0	59.7	73.3	58.3	62.0	58.7	62.4	60.3	60.7	59.7	53.7	56.0	55.7	57.7	60.3	50.3	60.0	54.0	55.7	56.1	58.5
23	HM15313	53.7	56.3	58.3	58.7	56.8	61.3	76.0	57.0	63.3	60.7	63.7	61.3	59.3	59.0	56.3	56.0	58.0	58.3	60.3	52.3	61.7	54.0	55.7	56.8	59.0
24	VNR-34229	54.3	58.0	53.7	58.7	56.2	60.3	73.0	57.0	60.3	66.7	63.5	59.7	59.3	62.3	54.0	56.7	57.0	58.2	60.7	56.0	60.0	53.7	57.3	57.5	58.9
25	BH 413055	53.0	58.0	55.3	59.0	56.3	60.3	71.3	59.0	60.0	57.7	61.7	59.0	59.3	61.0	53.7	55.7	54.0	57.1	59.0	54.7	59.7	53.7	55.7	56.5	58.0
26	HKH 425	54.0	58.7	53.7	61.7	57.0	61.3	74.7	59.0	63.0	62.7	64.1	59.3	58.7	60.3	53.7	56.3	57.7	57.7	58.7	54.0	61.3	55.3	56.3	57.1	59.0
27	BL 108	51.3	53.7	51.7	56.0	53.2	58.7	73.7	56.0	54.7	55.3	59.7	55.7	56.7	61.3	54.0	56.7	55.0	56.6	58.7	54.0	59.7	49.0	54.3	55.1	56.3
28	SYN516753	55.7	59.3	55.3	62.0	58.1	59.3	73.0	58.7	62.7	63.0	63.3	60.7	59.7	60.0	55.7	55.7	60.0	58.6	61.3	59.3	60.7	53.3	56.7	58.3	59.6
29	BRM 12-6	54.3	55.7	58.7	61.3	57.5	59.3	75.3	58.7	62.7	66.7	64.5	59.7	59.7	60.7	55.0	57.7	58.0	58.4	60.7	54.7	61.7	56.0	55.0	57.6	59.6
30	PM15103L	54.7	62.3	58.0	57.3	58.1	59.3	67.7	56.7	59.7	61.3	60.9	60.0	59.3	61.0	54.3	57.3	58.0	58.3	59.3	55.3	61.0	53.0	55.0	56.7	58.5
31	MAH-K14-3	55.7	58.3	52.3	58.3	56.2	59.3	70.7	56.3	61.7	60.7	61.7	60.0	58.7	60.3	54.7	56.7	58.0	58.1	59.7	53.3	61.3	55.7	56.3	57.3	58.4
32	DH-295	56.7	56.3	53.7	59.3	56.5	59.0	71.3	57.3	59.7	64.7	62.4	58.0	59.0	61.0	53.7	56.0	58.0	57.6	60.7	53.3	61.0	53.0	54.7	56.5	58.3
33	DKC8144	53.0	58.3	57.7	58.0	56.8	59.7	76.0	57.0	61.0	58.3	62.4	59.0	59.7	59.7	54.7	55.0	58.0	57.7	59.3	55.0	61.7	55.3	56.0	57.5	58.6

TABLE No. 2 (Cont...)

		DAYS TO 50% SILKING																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	54.7	62.3	58.3	62.0	59.3	61.7	76.0	55.7	63.0	65.7	64.4	62.0	60.0	62.7	55.3	57.0	57.7	59.1	62.3	58.0	64.3	54.3	55.0	58.8	60.4
35	VNR-32971	57.0	60.3	55.3	58.3	57.8	57.0	76.0	56.0	62.7	66.7	63.7	62.0	59.7	59.0	57.3	56.3	55.0	58.2	62.3	55.7	62.0	55.7	56.3	58.4	59.5
36	IIMRNH 2015-7	52.0	55.0	56.3	59.0	55.6	60.7	78.0	58.3	58.0	55.7	62.1	56.7	57.0	61.3	54.0	56.0	58.0	57.2	58.3	54.7	59.7	52.7	57.3	56.5	57.9
37	JH 13208	54.3	55.3	57.7	57.3	56.2	58.0	74.3	56.3	59.3	58.7	61.3	59.7	58.3	62.0	54.3	58.0	58.0	58.4	59.7	54.3	60.7	53.0	55.0	56.5	58.2
38	KMH-2852	54.0	57.0	59.0	58.3	57.1	60.0	73.7	57.0	62.7	64.7	63.6	61.0	59.0	60.3	53.7	56.0	58.7	58.1	58.7	54.3	61.7	52.0	55.0	56.3	58.8
39	DKC9167	56.0	57.3	57.3	59.7	57.6	62.3	73.0	56.3	59.0	60.7	62.3	60.3	58.3	59.7	54.3	56.7	60.3	58.3	61.0	56.0	61.7	53.0	55.0	57.3	58.9
40	BH 413027	55.7	57.7	53.0	60.3	56.7	57.3	74.0	56.0	57.7	55.7	60.1	57.0	59.0	61.3	53.0	54.7	58.0	57.2	59.3	54.0	60.7	50.3	56.0	56.1	57.5
41	IIMRNH 2015-6	53.0	56.7	52.7	62.0	56.1	59.7	74.3	57.0	62.3	64.3	63.5	60.7	59.3	59.7	55.0	57.0	55.3	57.8	60.0	56.7	59.7	54.7	54.3	57.1	58.7
42	Googul	53.0	52.3	54.7	57.3	54.3	59.7	70.3	56.3	57.7	54.7	59.7	57.0	57.3	62.3	54.7	55.7	58.3	57.6	56.7	55.7	59.0	55.0	55.3	56.3	57.2
43	JH 13346	54.0	57.0	57.0	58.7	56.7	61.3	72.0	57.0	60.7	56.7	61.5	59.0	58.7	60.7	53.0	55.0	54.3	56.8	58.7	54.0	60.0	53.0	57.0	56.5	57.9
44	BH 413036	54.0	61.0	54.3	58.3	56.9	60.0	73.0	61.7	62.7	60.3	63.5	60.3	61.0	62.0	53.3	55.7	56.0	58.1	59.7	54.7	61.3	53.3	55.7	56.9	58.9
45	DKC9168	55.3	57.0	52.0	61.3	56.4	59.0	74.3	59.7	60.0	60.7	62.7	60.0	57.7	59.7	55.3	56.0	59.0	57.9	61.3	56.7	60.7	54.0	57.0	57.9	58.8
46	CCH 1040	55.3	56.0	56.7	59.3	56.8	59.0	71.7	55.0	56.3	57.3	59.9	58.7	58.3	60.7	54.0	56.0	57.0	57.4	61.7	54.3	59.3	53.7	57.7	57.3	57.9
47	IMH1536	55.7	58.3	58.0	60.7	58.2	58.3	73.7	57.0	60.3	66.7	63.2	60.3	59.7	62.3	54.3	55.3	57.3	58.2	59.3	53.3	60.7	52.0	57.0	56.5	59.0
48	DKC8161	54.0	56.0	56.3	60.7	56.8	60.7	74.3	57.0	60.3	61.7	62.8	60.0	58.0	59.3	54.3	56.0	53.7	56.9	57.7	55.0	61.0	55.0	55.3	56.8	58.3
49	MFH-5-15	53.7	54.7	54.3	59.3	55.5	59.0	71.3	57.0	61.3	55.3	60.8	59.0	58.7	61.0	54.7	56.7	55.3	57.6	59.7	56.0	61.0	52.0	57.7	57.3	57.9
50	HT 515169	53.7	60.0	55.3	60.7	57.4	59.7	71.7	57.0	59.7	67.3	63.1	58.7	58.3	61.0	54.7	55.7	59.3	57.9	59.7	55.3	62.0	54.3	54.3	57.1	58.9
	CHECKS																									
51	PMH-1	53.3	57.7	57.7	58.3	56.8	58.3	71.0	56.7	57.3	65.3	61.7	59.7	56.7	59.0	53.3	55.0	57.3	56.8	60.3	53.7	60.7	51.7	57.0	56.7	58.0
52	PMH-3	54.7	58.7	58.7	58.7	57.7	60.0	73.0	58.7	59.3	59.0	62.0	59.3	58.7	60.7	55.0	56.7	55.7	57.7	60.3	56.3	61.0	52.3	54.7	56.9	58.6
53	Seedtech-2324	54.0	54.3	55.0	60.3	55.9	59.7	73.0	56.7	63.7	57.3	62.1	59.0	59.0	59.0	53.7	56.3	58.3	57.6	59.7	52.3	60.0	54.0	55.3	56.3	58.0
54	BIO-9681	50.0	52.0	55.0	58.3	53.8	58.3	70.3	55.0	54.7	54.0	58.5	56.7	56.0	62.7	52.0	55.0	57.0	56.6	57.7	55.0	59.7	49.0	56.3	55.5	56.2
	Loc. Mean	**54.1**	**57.1**	**55.8**	**59.4**	**56.6**	**59.5**	**73.1**	**57.3**	**60.2**	**60.4**	**62.1**	**59.3**	**58.9**	**60.8**	**54.3**	**56.2**	**57.3**	**57.8**	**59.8**	**54.4**	**60.8**	**53.3**	**55.6**	**56.8**	**58.4**
	C.D. (5%)	1.31	1.01	2.60	2.82	2.55	2.84	1.91	1.64	2.29	2.48	2.77	1.88	2.04	3.24	1.74	1.29	0.74	1.36	1.12	2.17	1.50	1.12	2.72	1.63	1.02
	C.V. (%)	1.50	1.10	2.88	2.93	3.22	2.94	1.62	1.76	2.35	2.54	3.58	1.96	2.15	3.30	1.98	1.42	0.79	2.08	1.16	2.47	1.52	1.30	3.02	2.30	2.82
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	0.00	0.00

TABLE No. 2 (Cont...)

		DAYS TO 75% DRY HUSK																						
					NWPZ						NEPZ						PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	95.0	88.0	96.0	93.0	86.0	108.3	93.0	88.3	92.3	93.6	101.0	97.3	99.3	96.3	102.0	99.2	95.0	85.0	90.0	106.0	85.3	92.3	94.7
2	ADV 7022	94.7	87.7	96.0	92.8	91.0	111.0	94.0	95.0	94.7	97.1	104.3	103.0	94.0	97.7	100.0	99.8	96.0	87.3	94.3	105.7	85.7	93.8	96.2
3	MAH-K14-1	91.0	86.0	95.3	90.8	86.0	107.3	94.0	95.3	91.3	94.8	100.3	98.0	95.3	98.0	97.7	97.9	90.7	83.0	92.3	102.0	87.7	91.1	94.0
4	PM15108L	96.7	85.3	96.7	92.9	85.3	101.7	94.0	90.7	88.7	92.1	97.3	97.3	99.3	97.0	94.3	97.1	91.0	82.3	91.0	103.0	87.0	90.9	93.3
5	AH7000	92.0	88.0	97.7	92.6	87.3	108.3	94.7	92.0	93.7	95.2	101.7	99.0	100.0	98.0	104.7	100.7	94.0	75.0	89.3	104.7	86.0	89.8	94.8
6	KMH-1311	95.0	87.0	99.3	93.8	84.3	110.7	93.0	95.7	90.3	94.8	103.7	99.3	95.3	97.3	104.3	100.0	93.3	84.0	90.3	103.7	87.0	91.7	95.2
7	Aadi	92.7	90.7	98.3	93.9	86.0	110.0	94.0	92.7	93.3	95.2	103.0	99.3	96.0	97.0	100.0	99.1	87.3	85.7	94.3	100.3	87.0	90.9	94.9
8	IMH1534	90.3	89.0	97.0	92.1	87.5	109.3	96.0	92.0	90.3	95.0	101.0	98.7	95.3	96.3	96.3	97.5	91.3	84.0	89.3	102.7	85.0	90.5	94.0
9	EH-2588	90.0	85.0	98.3	91.1	86.7	113.0	94.7	85.3	89.3	93.8	102.0	96.7	94.0	97.0	97.7	97.5	94.0	82.7	90.7	103.3	86.7	91.5	93.7
10	DKC8166	94.0	87.0	99.3	93.4	86.0	108.7	93.0	88.0	91.7	93.5	101.3	100.0	97.3	97.0	105.0	100.1	92.7	81.3	93.7	104.3	85.3	91.5	94.8
11	JH 13336	91.3	87.0	98.3	92.2	86.3	110.3	94.0	90.0	92.3	94.6	102.0	101.3	95.3	97.7	98.7	99.0	92.7	83.7	95.3	101.3	87.3	92.1	94.7
12	RMH-726	92.3	90.3	97.0	93.2	87.3	108.0	95.0	89.0	93.3	94.5	99.7	99.7	98.7	96.3	96.0	98.1	91.7	82.7	89.7	101.7	85.7	90.3	94.1
13	ZASL-986	93.0	88.3	95.3	92.2	86.0	108.3	96.3	90.7	94.3	95.1	102.3	98.7	97.3	97.7	95.3	98.3	97.7	84.3	90.3	101.7	87.3	92.3	94.7
14	IMH1526	92.0	87.7	92.0	90.6	88.5	111.0	97.7	89.7	89.7	95.3	100.3	98.7	98.7	97.3	104.7	99.9	88.0	86.7	94.0	108.0	86.0	92.5	95.0
15	CMH12-686	90.7	87.0	91.0	89.6	83.0	105.3	95.0	91.3	96.3	94.2	101.3	98.3	95.3	98.7	96.3	98.0	94.3	81.7	92.0	98.7	86.0	90.5	93.5
16	BL 103	91.3	89.7	89.7	90.2	86.0	108.7	96.0	91.0	91.7	94.7	101.7	99.7	97.3	97.0	97.0	98.5	91.0	84.3	91.7	95.0	87.0	89.8	93.6
17	DH-296	91.7	88.0	94.3	91.3	87.7	105.7	96.0	93.0	89.3	94.3	99.3	99.3	94.0	97.3	97.3	97.5	89.3	77.7	89.3	99.3	87.3	88.6	93.1
18	GK3144	94.0	89.0	92.3	91.8	85.5	105.7	96.0	88.3	89.7	93.0	99.7	99.0	98.7	96.3	100.0	98.7	86.3	81.0	93.3	101.0	88.3	90.0	93.6
19	OMH 14-19	93.7	90.3	93.3	92.4	85.0	108.0	97.0	94.0	94.7	95.7	101.7	98.7	97.3	97.0	98.3	98.6	94.3	85.7	88.7	104.7	88.7	92.4	95.1
20	DKC9164	93.7	86.3	92.0	90.7	85.0	106.7	97.0	90.7	89.3	93.7	101.0	99.3	100.7	95.3	105.0	100.3	93.7	83.7	94.7	106.7	86.3	93.0	94.8
21	SAFAL X-2	94.3	89.0	93.0	92.1	86.7	105.7	97.0	90.0	91.7	94.2	102.0	99.3	98.7	96.7	100.0	99.3	87.0	82.7	92.3	93.0	86.0	88.2	93.6
22	RMH-748	93.3	89.0	95.3	92.6	85.7	108.7	94.3	94.3	92.3	95.1	101.7	100.7	96.0	95.3	96.3	98.0	89.7	80.7	92.0	100.7	87.0	90.0	94.1
23	HM15313	92.3	89.7	94.0	92.0	88.0	111.0	94.3	93.0	94.3	96.1	102.7	99.3	96.7	96.3	98.0	98.6	96.0	82.7	92.3	102.0	87.0	92.0	95.0
24	VNR-34229	93.0	88.3	95.0	92.1	88.0	109.0	96.0	91.0	89.3	94.7	101.3	99.3	94.7	96.7	98.0	98.0	89.7	85.7	92.3	99.0	88.7	91.1	94.2
25	BH 413055	92.3	90.7	96.3	93.1	87.0	106.0	94.0	92.0	90.3	93.9	100.3	99.3	93.0	95.3	94.3	96.5	93.7	85.3	89.0	98.0	87.0	90.6	93.6
26	HKH 425	93.7	90.0	90.7	91.4	85.5	110.0	97.7	95.0	94.7	96.6	101.3	98.7	96.7	96.7	97.7	98.2	90.3	83.7	92.7	105.7	88.0	92.1	94.9
27	BL 108	92.3	90.7	94.3	92.4	86.0	107.3	97.3	87.7	90.7	93.8	98.0	96.7	99.3	97.3	96.3	97.5	88.3	84.0	94.7	103.7	85.7	91.3	93.9
28	SYN516753	94.0	90.7	93.3	92.7	85.0	109.0	96.3	92.7	94.7	95.5	102.3	99.7	100.7	96.3	102.0	100.2	98.3	88.7	93.7	103.0	89.0	94.5	96.1
29	BRM 12-6	91.7	85.0	94.7	90.4	84.0	110.3	95.0	90.3	92.3	94.4	101.0	99.7	95.3	98.3	100.0	98.9	94.7	84.0	89.3	101.0	86.3	91.1	94.1
30	PM15103L	94.3	91.0	97.7	94.3	87.7	104.0	94.7	92.7	92.3	94.3	101.3	99.3	96.7	98.0	100.0	99.1	93.7	85.0	91.7	100.3	86.3	91.4	94.8
31	MAH-K14-3	92.3	88.0	96.0	92.1	85.0	108.3	94.3	89.3	90.3	93.5	103.3	98.7	93.3	95.3	100.0	98.1	91.7	84.7	90.3	99.0	88.3	90.8	93.8
32	DH-295	93.7	86.0	96.7	92.1	86.3	106.7	95.0	91.0	89.3	93.7	101.0	99.0	96.7	96.3	99.7	98.5	91.0	83.7	90.0	100.0	86.0	90.1	93.8
33	DKC8144	93.0	91.3	97.3	93.9	87.3	110.7	97.0	90.7	86.0	94.3	100.3	99.7	96.7	95.3	98.3	98.1	91.3	84.7	91.0	98.0	87.7	90.5	94.2

TABLE No. 2 (Cont...)

		DAYS TO 75% DRY HUSK																						
					NWPZ						NEPZ						PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	93.0	93.0	98.0	94.7	90.0	111.3	96.3	94.3	95.3	97.5	103.3	100.0	94.0	97.7	98.0	98.6	96.0	86.7	91.3	101.3	86.0	92.3	95.9
35	VNR-32971	95.3	90.3	99.7	95.1	88.3	111.0	96.0	97.0	92.7	97.0	103.3	99.7	100.7	96.7	96.0	99.3	90.7	84.7	96.0	109.7	87.7	93.7	96.4
36	IIMRNH 2015-7	86.3	85.7	97.0	89.7	86.0	113.3	93.7	92.0	93.3	95.7	100.0	97.0	94.0	96.7	100.0	97.5	90.7	85.7	92.7	95.0	89.3	90.7	93.8
37	JH 13208	94.0	91.3	98.3	94.6	88.0	109.0	96.0	91.0	92.3	95.3	101.7	98.3	98.0	99.3	102.0	99.9	97.3	84.7	95.0	107.0	86.0	94.0	96.1
38	KMH-2852	91.3	85.7	98.0	91.7	87.0	108.7	97.0	92.7	92.7	95.6	103.3	99.0	98.0	97.0	101.3	99.7	86.3	84.0	89.0	104.0	85.7	89.8	94.5
39	DKC9167	94.3	91.0	99.7	95.0	87.3	108.0	93.0	89.3	92.3	94.0	103.0	98.3	96.7	98.0	104.7	100.1	96.0	82.7	95.0	102.3	86.3	92.5	95.4
40	BH 413027	92.3	89.3	97.0	92.9	83.7	109.0	95.0	89.3	89.3	93.3	99.7	99.0	96.7	96.0	100.0	98.3	95.3	84.3	89.3	97.0	87.3	90.7	93.9
41	IIMRNH 2015-6	92.3	88.3	96.7	92.4	87.0	109.7	94.3	94.0	91.7	95.3	104.3	99.3	95.3	97.0	96.0	98.4	94.7	84.3	93.3	103.0	85.3	92.1	94.8
42	Googul	88.7	85.3	93.0	89.0	88.0	106.0	94.0	88.3	89.3	93.1	99.7	97.3	95.3	97.0	102.0	98.3	90.7	85.3	91.0	103.7	86.3	91.4	93.4
43	JH 13346	92.0	85.0	91.0	89.3	86.3	108.3	95.0	90.3	89.7	93.9	101.0	98.7	93.0	95.0	96.0	96.7	94.7	84.7	89.0	96.0	88.7	90.6	93.0
44	BH 413036	92.0	88.7	90.3	90.3	91.0	109.0	95.0	96.7	92.7	96.9	102.0	101.0	94.0	97.3	98.0	98.5	92.7	85.3	89.0	95.0	87.3	89.9	94.3
45	DKC9168	95.0	90.7	89.7	91.8	87.0	109.7	97.0	91.7	92.7	95.6	101.3	97.7	99.3	97.3	102.0	99.5	95.7	86.3	93.7	106.0	88.3	94.0	95.6
46	CCH 1040	92.7	89.3	91.3	91.1	88.0	106.3	94.3	86.0	90.3	93.0	100.7	98.3	97.3	95.7	97.7	97.9	92.7	85.0	89.3	101.3	89.3	91.5	93.6
47	IMH1536	91.0	89.7	95.0	91.9	87.7	108.7	95.0	91.0	92.7	95.0	102.7	99.7	94.0	96.0	98.0	98.1	93.7	73.0	88.7	102.0	88.7	89.2	93.7
48	DKC8161	94.0	91.7	91.7	92.4	86.7	109.3	96.0	92.7	91.7	95.3	102.3	98.0	99.3	96.7	95.7	98.4	94.7	85.0	95.7	103.0	87.0	93.1	95.1
49	MFH-5-15	88.7	85.0	93.7	89.1	83.3	107.3	96.0	90.0	91.7	93.7	100.3	98.7	92.7	96.7	96.7	97.0	91.3	85.3	90.0	103.7	89.3	91.9	93.4
50	HT 515169	94.3	91.0	91.7	92.3	87.5	109.3	96.0	93.0	92.7	95.7	100.7	98.3	97.3	96.7	100.0	98.6	89.3	83.7	95.0	102.3	85.0	91.1	94.7
	CHECKS																							
51	PMH-1	92.7	85.7	94.7	91.0	84.3	105.3	95.0	88.3	88.7	92.3	101.0	96.7	92.7	95.7	97.3	96.7	94.0	83.3	90.3	94.3	89.3	90.3	92.7
52	PMH-3	92.3	90.0	94.3	92.2	88.0	109.0	96.3	88.7	94.3	95.3	103.0	98.7	94.7	98.7	98.0	98.6	94.0	86.0	95.3	103.7	85.7	92.9	95.0
53	Seedtech-2324	93.7	86.7	95.0	91.8	89.0	108.0	95.0	93.0	92.7	95.5	101.7	99.0	98.7	96.7	100.0	99.2	93.3	82.7	89.3	99.3	86.7	90.3	94.5
54	BIO-9681	88.0	87.3	95.7	90.3	84.3	105.3	93.0	85.0	89.3	91.4	100.7	96.0	93.3	94.7	97.7	96.5	94.3	85.0	89.7	100.3	88.0	91.5	92.6
	Loc. Mean	**92.6**	**88.5**	**95.1**	**92.0**	**86.6**	**108.4**	**95.2**	**91.2**	**91.7**	**94.6**	**101.4**	**98.9**	**96.5**	**96.8**	**99.0**	**98.5**	**92.5**	**83.8**	**91.7**	**101.6**	**87.0**	**91.3**	**94.4**
	C.D. (5%)	2.73	1.14	3.01	3.48	3.16	2.54	1.86	2.93	2.21	2.25	2.25	2.04	3.08	2.17	0.80	2.18	1.87	5.96	2.34	5.02	3.23	3.14	1.37
	C.V. (%)	1.82	0.80	1.95	2.33	2.25	1.45	1.21	1.99	1.49	1.91	1.37	1.28	1.97	1.38	0.50	1.78	1.24	4.39	1.58	3.05	2.29	2.75	2.22
	F (Prob)	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.00	0.27	0.03	0.00

TABLE No. 2 (Cont...)

		PLANT HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	200.0	180.0	198.3	246.0	206.1	166.0	179.3	186.0	165.0	222.0	183.7	218.0	180.0	223.7	245.0	123.5	194.4	197.4	136.7	196.7	180.0	281.9	177.0	194.5	195.0
2	ADV 7022	215.0	171.7	203.0	222.7	203.1	189.3	193.2	170.0	176.7	218.6	189.6	223.7	160.7	231.7	249.3	145.1	238.2	208.1	148.3	208.3	203.3	289.3	168.7	203.6	201.3
3	MAH-K14-1	218.3	178.3	199.7	263.3	214.9	163.3	168.4	184.3	163.3	223.1	180.5	221.3	180.0	226.7	255.0	131.3	196.8	201.8	193.3	173.3	183.3	296.0	159.7	201.1	198.9
4	PM15108L	230.0	211.7	188.7	263.3	223.4	161.7	202.3	179.7	176.7	226.6	189.4	225.7	185.7	218.0	247.3	134.8	212.3	204.0	175.0	205.3	185.0	294.5	174.3	206.8	204.9
5	AH7000	221.7	185.0	198.3	217.0	205.5	151.3	179.8	179.3	165.0	222.4	179.6	212.0	178.7	226.0	240.0	137.5	199.7	199.0	171.7	185.0	175.0	284.3	161.0	195.4	194.5
6	KMH-1311	236.7	236.7	210.0	295.7	244.8	165.0	187.2	187.7	196.7	224.6	192.2	229.0	189.3	228.3	254.7	144.2	232.8	213.1	195.0	201.7	211.7	298.7	172.7	215.9	214.9
7	Aadi	226.7	198.3	196.7	277.7	224.8	158.0	186.9	154.7	171.7	230.6	180.4	238.0	193.3	220.0	252.3	146.3	226.3	212.7	151.7	213.3	211.7	310.3	162.0	209.8	206.3
8	IMH1534	208.3	200.0	200.0	264.7	218.3	162.0	198.9	168.7	175.0	218.1	184.5	218.3	180.0	226.0	248.3	142.7	218.5	205.6	170.0	203.3	176.7	289.5	158.7	199.6	201.4
9	EH-2588	201.7	178.3	198.3	248.7	206.8	155.7	183.0	160.0	175.0	229.8	180.7	229.7	178.3	221.0	253.7	120.4	218.5	203.6	183.3	183.3	183.3	292.7	156.0	199.7	197.5
10	DKC8166	233.3	186.7	201.0	266.0	221.8	169.7	189.1	183.3	171.7	224.9	187.7	216.7	189.0	224.3	224.0	142.3	215.5	202.0	195.0	196.7	196.7	271.5	180.3	208.0	203.9
11	JH 13336	241.7	203.3	188.7	257.3	222.8	158.7	222.1	189.7	191.7	230.4	198.5	260.3	192.0	224.3	258.7	181.5	244.0	226.8	205.0	200.0	225.0	331.4	165.3	225.3	218.6
12	RMH-726	193.3	186.7	196.0	234.7	202.7	148.3	176.3	171.3	163.3	224.5	176.8	223.7	174.0	221.0	248.3	120.7	205.6	198.9	181.7	206.7	173.3	282.3	160.3	200.9	194.6
13	ZASL-986	193.3	193.3	196.3	285.7	217.2	171.0	188.5	167.0	181.7	219.7	185.6	232.3	203.3	228.3	258.7	144.6	210.9	213.0	200.0	203.3	201.7	310.6	174.7	218.1	208.2
14	IMH1526	228.3	205.0	191.7	273.3	224.6	176.7	181.2	197.0	178.3	189.2	184.5	224.7	193.7	230.0	241.7	137.5	196.9	204.1	165.0	211.7	201.7	288.9	167.7	207.0	204.0
15	CMH12-686	223.3	201.7	173.7	261.7	215.1	165.0	201.6	174.7	183.3	226.5	190.2	219.0	189.3	221.3	252.0	141.9	228.8	208.7	185.0	215.0	208.3	289.6	166.0	212.8	206.4
16	BL 103	246.7	201.7	192.3	266.3	226.8	175.7	203.6	187.0	180.0	226.7	194.6	259.0	203.0	219.3	258.3	163.8	242.8	224.4	201.7	213.3	205.0	310.4	170.3	220.1	216.4
17	DH-296	198.3	166.7	181.7	239.0	196.4	180.3	197.5	168.3	160.0	225.1	186.2	220.7	154.0	225.7	251.0	161.5	209.2	203.7	168.3	181.7	173.3	275.6	169.3	193.7	195.4
18	GK3144	231.7	185.0	192.7	267.7	219.3	175.3	190.9	188.7	185.0	225.9	193.2	228.0	175.0	225.3	262.3	143.0	219.0	208.8	191.7	201.7	191.7	283.7	162.0	206.1	206.3
19	OMH 14-19	201.7	200.0	182.3	256.7	210.2	170.7	192.7	172.7	165.0	218.8	184.0	226.0	168.7	228.7	248.7	155.7	229.5	209.5	190.0	218.3	180.0	281.5	168.3	207.6	202.8
20	DKC9164	211.7	190.0	182.7	231.0	203.8	184.7	170.6	185.7	168.3	219.9	185.8	232.7	173.7	230.0	247.3	146.9	206.9	206.3	185.0	200.0	181.7	302.9	188.0	211.5	202.0
21	SAFAL X-2	210.0	188.3	200.3	263.3	215.5	177.0	204.9	177.3	170.0	225.5	191.0	225.0	160.7	230.0	253.3	128.9	217.5	202.6	185.0	203.3	195.0	300.5	152.7	207.3	203.4
22	RMH-748	210.0	201.7	198.3	246.0	214.0	159.0	177.4	164.0	163.3	227.5	178.3	237.0	147.7	227.3	251.7	138.5	212.7	202.5	201.7	218.3	195.0	288.9	151.0	211.0	200.9
23	HM15313	243.3	185.0	195.0	276.0	224.8	175.0	197.8	178.3	200.0	230.1	196.2	248.7	204.0	221.0	260.3	167.8	242.6	224.1	216.7	235.0	208.3	313.3	172.7	229.2	218.5
24	VNR-34229	235.0	221.7	193.0	273.3	230.8	155.7	185.4	174.3	193.3	228.7	187.5	237.0	196.0	229.0	267.0	161.2	244.3	222.4	195.0	230.0	211.7	322.5	155.0	222.8	215.5
25	BH 413055	195.0	185.0	185.3	223.3	197.2	171.7	173.9	182.3	163.3	216.8	181.6	212.0	153.7	225.7	236.3	107.4	207.3	190.4	173.3	191.7	176.7	290.9	168.7	200.2	192.0
26	HKH 425	196.7	191.7	200.3	242.7	207.8	158.3	186.5	182.7	166.7	219.9	182.8	215.3	182.0	215.0	250.0	137.1	211.0	201.7	185.0	213.3	183.3	308.9	146.3	207.4	199.6
27	BL 108	215.0	200.0	189.3	264.0	217.1	170.3	193.9	177.0	171.7	218.6	186.3	225.7	192.3	230.3	252.0	135.3	220.9	209.4	165.0	213.3	201.7	280.1	183.3	208.7	205.0
28	SYN516753	190.0	186.7	192.0	254.0	205.7	158.0	175.7	193.3	155.0	223.2	181.0	221.7	148.3	225.7	231.0	145.0	234.8	201.1	191.7	206.7	195.0	295.0	162.7	210.2	199.3
29	BRM 12-6	205.0	201.7	186.3	262.3	213.8	166.3	190.2	171.7	187.3	222.7	187.6	227.0	168.0	226.3	253.0	139.0	225.6	206.5	185.0	226.7	180.0	311.9	169.3	214.6	205.3
30	PM15103L	236.7	180.0	185.0	276.3	219.5	150.0	191.1	180.7	190.0	224.6	187.3	244.7	192.3	224.0	247.7	146.0	217.7	212.1	153.3	216.7	210.0	281.6	170.3	206.4	205.9
31	MAH-K14-3	220.0	183.3	184.3	248.7	209.1	159.0	169.3	176.7	171.7	223.6	180.1	221.7	178.3	223.0	255.7	143.3	207.9	205.0	190.0	200.0	183.3	301.7	173.3	209.7	200.7
32	DH-295	208.3	188.3	188.3	280.3	216.3	173.0	187.7	190.0	156.7	228.7	187.2	222.7	185.0	222.0	248.0	144.8	198.8	203.5	175.0	203.3	176.7	277.8	157.7	198.1	200.7
33	DKC8144	216.7	201.7	181.3	265.7	216.3	166.7	190.2	187.3	178.3	226.5	189.8	236.0	193.7	222.0	259.0	146.0	223.2	213.3	213.3	216.7	210.0	322.5	168.0	226.1	211.2

TABLE No. 2 (Cont...)

		PLANT HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	205.0	175.0	190.7	236.7	201.8	161.3	175.8	177.3	166.7	218.1	179.8	217.3	180.3	226.7	243.3	141.5	198.3	201.2	175.0	196.7	188.3	279.6	167.0	201.3	196.0
35	VNR-32971	210.0	211.7	186.3	277.7	221.4	161.3	198.5	175.7	181.7	226.6	188.8	241.0	193.3	218.7	258.3	148.7	230.5	215.1	185.0	225.0	220.0	300.9	166.0	219.4	210.8
36	IIMRNH 2015-7	225.0	211.7	186.7	271.3	223.7	166.7	187.4	177.3	178.3	224.2	186.8	233.0	201.3	227.7	249.7	128.4	220.4	210.1	191.7	213.3	190.0	288.0	162.0	209.0	206.7
37	JH 13208	225.0	216.7	188.7	276.7	226.8	178.3	198.4	178.7	178.3	226.8	192.1	232.0	201.3	229.3	248.0	132.3	220.5	210.6	175.0	226.7	206.7	318.1	182.7	221.8	212.0
38	KMH-2852	230.0	198.3	187.3	276.3	223.0	171.3	195.2	177.0	178.3	228.5	190.1	246.0	208.7	220.3	263.0	141.5	229.0	218.1	195.0	170.0	213.3	303.6	163.7	209.1	209.8
39	DKC9167	221.7	206.7	185.7	258.0	218.0	189.0	179.4	178.3	175.0	227.6	189.9	224.3	195.7	222.0	252.7	146.6	227.8	211.5	180.0	221.7	201.7	303.7	157.0	212.8	207.7
40	BH 413027	211.7	171.7	184.7	226.0	198.5	157.3	174.3	176.7	181.7	221.2	182.2	217.7	161.7	226.0	253.3	128.1	200.4	197.9	176.7	208.3	175.0	293.3	148.7	200.4	194.7
41	IIMRNH 2015-6	228.3	211.7	198.3	259.3	224.4	155.7	204.4	179.7	185.0	229.3	190.8	240.3	188.0	227.0	260.7	149.7	230.5	216.0	215.0	210.0	200.0	296.0	158.3	215.9	211.4
42	Googul	215.0	203.3	189.0	256.7	216.0	180.0	172.5	176.0	161.7	226.4	183.3	220.0	195.7	227.0	244.7	122.7	202.9	202.2	171.7	198.3	175.0	303.3	158.0	201.3	200.0
43	JH 13346	240.0	215.0	199.7	277.7	233.1	174.7	194.4	174.3	195.0	228.2	193.3	244.0	190.0	218.3	256.3	152.5	236.5	216.3	205.0	226.7	211.7	318.1	170.0	226.3	216.4
44	BH 413036	233.3	218.3	197.7	271.0	230.1	176.7	212.7	183.3	183.3	219.6	195.1	248.7	193.7	229.7	258.7	145.2	238.9	219.1	213.3	238.3	201.7	303.7	167.7	224.9	216.8
45	DKC9168	231.7	185.0	202.3	269.0	222.0	159.7	182.7	184.0	191.7	228.1	189.2	227.0	189.3	220.7	241.3	119.8	223.3	203.6	185.0	211.7	210.0	283.9	168.0	211.7	205.7
46	CCH 1040	211.7	196.7	182.3	243.7	208.6	163.0	167.9	184.3	160.0	217.1	178.5	193.7	178.0	223.3	244.7	126.7	205.0	195.2	161.7	168.3	175.0	273.7	182.7	192.3	193.0
47	IMH1536	211.7	181.7	187.7	250.3	207.8	167.3	179.2	184.3	183.3	224.0	187.6	210.7	156.3	222.3	255.0	127.6	210.9	197.1	208.3	205.0	176.7	290.7	176.3	211.4	200.5
48	DKC8161	215.0	208.3	185.7	281.0	222.5	160.3	191.3	181.3	186.7	221.5	188.2	233.3	187.7	226.3	246.3	119.9	207.5	203.5	200.0	221.7	215.0	286.5	146.3	213.9	206.1
49	MFH-5-15	201.7	191.7	177.7	238.0	202.3	168.3	196.1	177.3	155.0	223.2	184.0	216.7	184.7	215.0	242.0	115.3	206.4	196.7	175.0	206.7	163.3	285.3	161.0	198.3	195.0
50	HT 515169	218.3	176.7	199.7	269.7	216.1	147.7	177.4	183.7	165.0	227.1	180.2	235.3	183.0	226.7	247.3	145.3	230.9	211.4	195.0	216.7	205.0	297.9	173.3	217.6	206.1
	CHECKS																									
51	PMH-1	241.7	198.3	200.0	283.3	230.8	144.7	198.1	187.0	198.3	227.0	191.0	244.0	216.0	222.3	258.3	158.9	228.3	221.3	205.0	191.7	203.3	303.2	153.3	211.3	213.1
52	PMH-3	231.7	205.0	194.0	293.3	231.0	162.7	192.0	176.0	183.3	222.5	187.3	234.0	203.3	225.0	242.7	126.3	235.1	211.1	198.3	228.3	213.3	312.9	173.3	225.3	212.7
53	Seedtech-2324	216.7	211.7	199.0	227.3	213.7	158.3	170.2	169.0	168.3	223.3	177.8	206.7	188.0	217.0	246.0	131.1	185.9	195.8	178.3	205.0	181.7	272.7	165.0	200.5	196.1
54	BIO-9681	213.3	196.7	185.3	259.7	213.8	170.3	195.0	183.0	170.0	224.3	188.5	226.0	188.0	222.3	255.3	140.1	207.8	206.6	196.7	203.3	180.0	285.9	159.3	205.1	203.1
	Loc. Mean	**218.2**	**195.7**	**191.8**	**259.6**	**216.3**	**166.0**	**188.2**	**178.8**	**175.7**	**223.7**	**186.5**	**228.2**	**183.8**	**224.3**	**250.5**	**139.9**	**218.3**	**207.5**	**185.4**	**207.2**	**194.1**	**295.6**	**165.8**	**209.6**	**204.5**
	C.D. (5%)	27.68	7.06	9.03	29.24	16.36	27.32	20.66	5.76	18.14	17.60	11.60	14.84	11.69	9.47	17.18	17.47	7.97	11.25	14.90	26.79	17.18	25.29	28.36	15.56	6.73
	C.V. (%)	7.84	2.23	2.91	6.96	5.42	10.17	6.78	1.99	6.38	4.86	4.99	4.02	3.93	2.61	4.24	7.72	2.26	4.77	4.97	7.99	5.47	5.29	10.57	5.95	5.30
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.00	0.61	0.02	0.00	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00

TABLE No. 2 (Cont...)

		EAR HEIGHT(cm)																								
						NWPZ						NEPZ						PZ							CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	ADV 7139	105.0	95.0	103.7	117.3	105.3	83.3	84.7	79.0	93.3	109.9	90.1	78.0	85.0	111.7	130.0	63.4	109.5	96.3	46.7	97.7	83.3	107.7	94.3	85.9	93.9
2	ADV 7022	113.3	91.7	98.3	90.0	98.3	86.3	92.3	70.7	95.0	112.2	91.3	86.0	74.0	113.0	135.7	69.9	130.9	101.6	71.7	105.0	95.0	110.4	81.0	92.6	96.1
3	MAH-K14-1	110.0	95.0	96.3	129.7	107.8	78.3	79.4	77.0	83.3	117.1	87.0	84.0	79.3	112.3	137.7	63.1	112.8	98.2	75.0	95.0	91.7	115.7	73.7	90.2	95.3
4	PM15108L	105.0	111.7	92.0	116.3	106.3	72.0	85.6	74.0	80.0	111.6	84.6	93.3	79.0	112.0	121.7	73.4	114.0	98.9	74.3	88.3	88.3	111.3	89.3	90.3	94.7
5	AH7000	118.3	115.0	102.3	95.0	107.7	69.3	83.7	76.0	88.3	124.2	88.3	89.0	90.7	110.3	130.7	70.7	121.4	102.1	85.0	87.3	78.3	107.7	78.3	87.3	96.1
6	KMH-1311	115.0	118.3	108.7	134.0	119.0	69.7	88.9	81.3	96.7	121.1	91.5	94.3	80.0	124.0	141.7	69.2	118.9	104.7	90.0	95.0	100.0	118.7	88.7	98.5	102.7
7	Aadi	103.3	80.0	97.3	121.0	100.4	76.7	76.5	60.3	79.0	127.0	83.9	77.7	81.7	115.7	127.7	65.2	110.9	96.5	65.0	93.3	91.7	109.8	70.0	86.0	91.5
8	IMH1534	118.3	125.0	99.7	142.3	121.3	74.3	103.2	72.3	100.0	118.4	93.6	86.7	89.0	117.7	136.7	73.7	119.0	103.8	80.0	90.0	83.3	122.3	71.0	89.3	101.1
9	EH-2588	111.7	98.3	89.0	107.3	101.6	67.3	83.1	66.3	91.7	115.9	84.9	86.0	81.0	112.7	134.3	61.2	115.6	98.5	78.0	91.7	88.3	117.0	69.3	88.9	93.3
10	DKC8166	118.3	98.3	99.7	127.3	110.9	73.7	87.9	84.7	95.0	121.3	92.5	87.7	92.7	116.0	125.0	72.9	107.7	100.3	105.0	88.3	91.7	115.2	89.3	97.9	99.9
11	JH 13336	126.7	120.0	91.3	109.7	111.9	70.7	114.5	79.0	98.3	109.6	94.4	109.7	92.7	126.0	140.7	85.2	138.2	115.4	101.7	95.0	118.3	147.2	77.0	107.8	107.6
12	RMH-726	93.3	80.0	95.0	98.0	91.6	66.0	73.7	73.0	81.7	110.3	80.9	91.0	66.7	119.3	127.0	55.3	106.5	94.3	70.0	91.3	80.0	100.1	75.0	83.3	87.7
13	ZASL-986	116.7	96.7	88.7	126.7	107.2	79.0	91.7	68.7	93.3	117.2	90.0	92.7	95.7	115.3	135.0	65.9	116.9	103.6	80.0	91.3	81.7	118.1	79.3	90.1	97.5
14	IMH1526	115.0	108.3	101.0	126.3	112.7	79.0	81.2	78.7	86.7	115.0	88.1	87.7	84.0	117.0	132.3	62.5	113.1	99.4	98.3	100.0	90.0	102.1	89.3	95.9	98.4
15	CMH12-686	108.3	101.7	88.3	125.0	105.8	77.3	96.0	74.0	96.7	125.5	93.9	87.0	88.3	114.3	136.3	76.5	123.9	104.4	83.3	101.7	100.0	124.7	80.3	98.0	100.5
16	BL 103	120.0	116.7	98.0	118.7	113.3	77.0	102.7	86.3	88.3	122.3	95.3	104.7	97.3	115.0	143.0	79.1	130.9	111.7	90.0	101.7	103.3	122.1	77.7	98.9	104.7
17	DH-296	91.7	80.0	89.0	102.7	90.8	81.7	89.1	72.0	76.7	109.0	85.7	81.7	65.3	116.3	125.3	75.1	106.1	95.0	75.0	101.3	71.7	100.8	80.3	85.8	89.5
18	GK3144	110.0	98.3	97.0	121.7	106.8	90.0	87.8	85.7	96.7	114.8	95.0	91.7	78.3	120.7	133.3	70.4	117.7	102.0	81.7	98.3	90.0	107.5	82.7	92.0	98.7
19	OMH 14-19	100.0	90.0	87.3	113.3	97.7	77.3	86.0	71.7	83.3	120.0	87.7	90.3	73.3	131.0	120.7	70.2	120.2	101.0	75.0	101.7	83.3	103.2	79.3	88.5	93.9
20	DKC9164	101.7	90.0	98.3	103.0	98.3	84.7	85.4	83.3	81.7	114.4	89.9	101.3	80.7	115.7	132.0	71.6	110.4	101.9	81.7	88.3	95.0	126.2	90.0	96.2	96.8
21	SAFAL X-2	90.0	78.3	89.7	105.7	90.9	79.7	91.3	75.7	88.3	121.1	91.2	82.3	66.7	116.3	126.7	55.8	111.0	93.1	76.7	100.0	81.7	102.7	67.7	85.7	90.4
22	RMH-748	103.3	111.7	98.0	106.7	104.9	66.0	82.2	71.7	81.7	111.6	82.6	90.0	64.0	117.0	131.3	69.7	123.6	99.3	95.0	95.0	90.0	115.3	72.0	93.5	94.8
23	HM15313	115.0	85.0	88.0	130.3	104.6	86.7	92.5	77.0	100.0	119.5	95.1	101.0	90.7	117.0	142.7	74.1	134.6	110.0	100.0	110.0	100.0	121.5	81.0	102.5	103.3
24	VNR-34229	120.0	131.7	87.7	124.7	116.0	64.0	93.1	72.3	98.3	120.8	89.7	97.7	94.0	115.7	147.7	74.5	135.1	110.8	95.0	101.7	108.3	136.6	68.7	102.1	104.4
25	BH 413055	93.3	83.3	98.3	99.7	93.7	81.7	78.4	80.3	81.7	121.5	88.7	83.7	70.3	117.7	123.3	58.6	117.4	95.2	85.0	87.7	85.0	128.8	82.7	93.8	92.9
26	HKH 425	100.0	106.7	92.3	104.0	100.8	78.3	85.7	83.7	83.3	114.4	89.1	90.3	84.3	118.3	133.0	65.9	117.9	101.6	88.3	104.0	75.0	121.7	72.0	92.2	96.0
27	BL 108	118.3	110.0	91.7	131.0	112.8	88.7	93.0	75.0	96.7	122.6	95.2	91.7	99.0	124.0	133.7	70.7	122.5	106.9	80.0	95.3	96.7	108.5	90.3	94.2	102.0
28	SYN516753	95.0	88.3	97.7	117.7	99.7	74.0	83.3	71.0	80.0	112.8	84.2	85.3	66.0	112.3	133.0	64.4	128.9	98.3	96.7	93.3	91.7	117.8	80.3	96.0	94.5
29	BRM 12-6	95.0	111.7	96.7	117.3	105.2	83.7	96.9	77.7	98.3	110.0	93.3	95.3	81.0	110.7	145.7	65.7	125.3	103.9	93.3	106.7	90.0	132.3	83.0	101.1	100.8
30	PM15103L	108.3	80.0	98.3	123.0	102.4	69.0	84.9	73.0	85.0	124.9	87.4	101.7	81.3	123.7	122.3	63.6	118.3	101.8	66.7	95.0	96.7	102.5	77.0	87.6	94.8
31	MAH-K14-3	103.3	93.3	89.7	109.3	98.9	71.0	85.5	73.3	85.0	117.3	86.4	90.7	86.3	112.7	139.0	62.4	113.3	100.7	100.0	90.0	93.3	135.9	80.0	99.8	96.6
32	DH-295	103.3	90.0	100.3	120.3	103.5	80.7	89.9	83.7	73.3	111.2	87.8	87.3	83.3	114.3	126.3	67.7	110.9	98.3	75.0	92.0	73.3	93.5	68.3	80.4	92.2
33	DKC8144	131.7	90.0	104.7	122.3	112.2	75.0	92.7	79.0	90.0	120.3	91.4	97.3	89.0	114.7	142.0	73.9	127.7	107.4	95.0	95.7	86.7	139.3	69.7	97.3	101.8

TABLE No. 2 (Cont...)

		EAR HEIGHT(cm)																								
						NWPZ						NEPZ							PZ						CWZ	OV'L
S.No.	PEDIGREE	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
34	KNMH-4506	120.0	140.0	78.3	111.0	112.3	72.0	84.7	78.7	91.7	123.6	90.1	87.0	91.3	114.7	132.7	71.1	116.3	102.2	86.7	93.3	91.7	131.7	81.7	97.0	99.9
35	VNR-32971	103.3	121.7	88.0	134.3	111.8	79.7	99.8	80.7	95.0	126.3	96.3	103.7	102.7	111.3	145.0	75.8	133.2	111.9	85.0	110.0	111.7	138.1	71.0	103.2	105.8
36	IIMRNH 2015-7	95.0	106.7	98.0	117.3	104.3	73.3	87.5	76.0	90.0	110.7	87.5	90.0	84.7	116.7	129.0	65.3	121.5	101.2	83.3	95.0	95.0	112.1	73.0	91.7	96.0
37	JH 13208	118.3	101.7	87.0	141.0	112.0	80.7	96.3	73.7	96.7	117.9	93.1	98.3	92.3	114.7	134.3	66.7	118.1	104.1	63.3	108.3	96.7	135.6	92.7	99.3	101.7
38	KMH-2852	100.0	98.3	96.3	116.7	102.8	78.3	83.9	75.3	86.7	124.5	89.8	93.7	90.3	112.0	140.3	69.3	128.4	105.7	78.3	81.0	93.3	120.9	75.3	89.8	97.2
39	DKC9167	113.3	113.3	97.3	119.7	110.9	85.3	80.3	76.3	93.3	124.3	91.9	81.7	91.0	116.0	131.0	68.3	126.4	102.4	91.7	106.7	98.3	128.1	73.3	99.6	100.8
40	BH 413027	116.7	91.7	94.3	107.0	102.4	78.0	84.4	76.0	96.7	119.2	90.8	95.3	86.0	108.3	138.3	77.3	120.8	104.4	86.7	110.0	88.3	129.8	65.3	96.0	98.5
41	IIMRNH 2015-6	115.0	115.0	97.7	116.7	111.1	76.7	98.1	79.0	95.0	114.3	92.6	96.0	93.7	118.0	143.7	69.9	122.4	107.3	105.0	101.7	96.7	129.2	72.0	100.9	102.8
42	Googul	101.7	103.3	88.7	118.7	103.1	82.3	80.1	73.0	85.0	126.3	89.3	86.0	80.0	110.7	123.0	63.9	111.9	95.9	75.0	90.0	71.7	118.9	70.3	85.2	93.0
43	JH 13346	121.7	115.0	93.0	141.7	117.8	83.0	98.4	74.7	110.0	123.6	97.9	110.7	96.7	115.7	142.0	76.1	131.2	112.0	105.0	105.0	100.0	138.1	82.7	106.1	108.2
44	BH 413036	108.3	118.3	93.3	120.3	110.1	84.7	101.8	75.7	100.0	121.9	96.8	106.0	97.0	115.0	133.0	76.9	130.7	109.8	105.0	105.0	96.7	119.7	83.7	102.0	104.6
45	DKC9168	98.3	86.7	97.7	125.0	101.9	76.7	77.5	80.7	98.3	121.6	91.0	91.3	85.3	110.7	124.7	63.2	119.0	99.0	83.3	105.0	93.3	124.9	80.3	97.4	97.2
46	CCH 1040	106.7	95.0	91.3	117.7	102.7	74.7	84.9	81.3	93.3	122.8	91.4	85.3	86.0	111.0	134.0	70.8	122.4	101.6	83.3	96.7	95.0	120.2	91.3	97.3	98.2
47	IMH1536	113.3	95.0	94.3	116.0	104.7	78.7	84.7	84.3	98.3	120.4	93.3	83.7	70.7	112.3	132.7	62.2	116.9	96.4	110.0	101.7	86.7	121.0	80.3	99.9	98.2
48	DKC8161	101.7	108.3	91.0	130.7	107.9	73.3	90.5	79.3	91.7	118.7	90.7	88.0	85.3	114.0	133.0	58.7	104.9	97.3	85.0	106.7	101.7	117.9	62.0	94.7	97.1
49	MFH-5-15	96.7	90.0	94.7	98.7	95.0	76.3	94.4	75.0	71.7	116.3	86.7	85.0	79.3	122.3	128.0	62.7	109.1	97.8	75.0	93.3	71.7	106.3	79.3	85.1	91.3
50	HT 515169	103.3	93.3	91.7	130.0	104.6	68.7	77.3	80.0	81.7	112.8	84.1	86.3	73.0	119.3	129.7	64.3	123.9	99.4	75.0	103.3	103.3	121.3	81.3	96.9	96.0
	CHECKS																									
51	PMH-1	105.0	118.3	95.7	144.0	115.8	64.0	99.9	87.7	106.7	126.9	97.0	108.7	105.7	113.0	140.3	87.5	127.3	113.7	96.7	93.3	108.3	128.5	67.7	98.9	106.3
52	PMH-3	118.3	120.0	91.0	152.3	120.4	75.3	96.9	71.7	106.7	125.4	95.2	101.3	100.3	112.0	130.7	61.7	130.3	106.1	86.7	116.7	103.3	137.0	72.7	103.3	105.5
53	Seedtech-2324	101.7	131.7	88.3	104.0	106.4	74.3	78.4	75.3	100.0	115.1	88.6	91.7	88.7	116.3	122.7	67.4	114.5	100.2	98.3	111.7	93.3	113.9	79.7	99.4	98.3
54	BIO-9681	106.7	95.0	95.3	107.7	101.2	82.0	91.0	81.7	81.7	113.1	89.9	89.0	77.0	111.3	142.7	65.3	103.7	98.2	90.0	99.0	70.0	101.5	73.7	86.8	93.9
	Loc. Mean	**108.2**	**102.4**	**94.4**	**118.7**	**105.9**	**76.9**	**88.8**	**76.7**	**90.7**	**118.3**	**90.3**	**91.7**	**84.6**	**115.7**	**133.4**	**68.6**	**119.7**	**102.3**	**85.2**	**98.2**	**91.5**	**119.2**	**78.1**	**94.4**	**98.0**
	C.D. (5%)	20.00	4.82	4.48	22.11	14.24	17.37	14.37	4.43	15.85	13.59	7.79	7.31	8.74	10.77	16.56	10.46	4.48	6.81	7.40	16.21	12.96	14.76	20.16	11.26	4.86
	C.V. (%)	11.42	2.91	2.93	11.51	9.63	13.96	10.00	3.57	10.79	7.10	6.92	4.93	6.39	5.75	7.67	9.41	2.31	5.85	5.37	10.20	8.75	7.65	15.94	9.56	7.99
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.13	0.08	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.30	0.00	0.00

TABLE No. 3 **PERFORMANCE OF MEDIUM MATURITY EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, BARAPANI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, BHUBANESHWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN NIVT TRIAL No. TR62A(NIVT-M) DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
Sl										NHZ										NWPZ										NEPZ	
No	PEDIGREE	BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
1	KNMH-4501	7621	23	8940	1	6275	17	1983	27	7612	7	10130	24	10594	31	8353	13	10187	18	9816	23	2249	37	6260	4	4743	33	5093	26	5365	23
2	JH 13347	8735	4	6740	21	7777	4	2698	8	7751	5	12807	4	10490	33	7426	33	10561	16	10321	14	2610	28	5651	14	8428	2	6217	13	6765	5
3	KMH 13-5	8003	14	6490	27	10588	1	1097	42	8361	2	7213	37	9601	42	8774	12	6635	42	8056	40	2002	43	5116	28	4864	29	4490	34	4823	35
4	KNMH-4505	7690	22	6716	23	5798	22	1701	35	6735	23	9296	30	11219	22	6844	38	9910	21	9317	32	3319	7	5045	32	5881	21	5127	25	5351	24
5	HM15207	10632	1	8092	5	7336	5	2598	12	8687	1	15099	1	11734	9	5132	44	12341	1	11076	3	2550	30	5614	15	7351	6	6371	9	6445	10
6	EH-2480	3159	44	5977	42	2315	44	1639	37	3817	44	6665	40	10463	35	5896	43	7313	40	7584	42	2990	15	4796	39	2598	44	4101	37	3832	44
7	JH 13348	7280	29	7035	15	4627	32	2203	19	6314	31	13203	2	10942	25	6186	42	11124	8	10364	13	2620	27	5713	12	5593	24	6807	7	6038	14
8	AH7007	6421	37	6864	19	4144	39	916	44	5810	38	6138	42	11487	16	6387	40	5944	44	7489	43	2940	16	4735	41	3954	40	4253	36	4314	42
9	SRIKAR 2079	8009	13	7062	14	4786	30	2151	20	6619	27	11694	11	11510	14	8133	17	9559	24	10224	15	3336	6	4399	44	6218	18	5210	23	5276	28
10	IMH1526	8532	7	6164	38	7288	6	2993	4	7328	10	12618	6	10465	34	9657	4	11756	2	11124	2	2737	23	5392	21	5454	25	6327	11	5724	17
11	PMSW4	6515	35	6303	35	5311	25	1888	28	6043	34	6833	38	11368	19	6852	37	8758	30	8453	37	2696	24	5355	23	4667	36	4573	33	4865	33
12	EH-2233	8200	9	6457	28	8544	2	1806	32	7734	6	9000	31	13365	3	9371	8	8949	29	10172	16	2356	36	4408	43	4799	31	5335	20	4847	34
13	BIO 509	7620	24	5590	44	7812	3	2955	5	7007	16	11277	17	13440	2	8837	9	11213	6	11192	1	2797	19	6271	3	5658	23	6227	12	6052	13
14	KNMH-4507	7833	17	6309	34	4516	35	2021	25	6219	32	11444	14	10346	38	6731	39	10665	12	9796	24	3147	12	5096	29	7182	8	6123	15	6134	12
15	IMH1530	8568	6	6082	39	6615	13	1195	40	7088	13	10154	23	11714	10	9520	5	10264	17	10413	12	2576	29	5430	20	5978	19	6142	14	5850	16
16	AMH-3435	8124	12	8422	3	4610	33	2050	23	7052	14	10414	21	10644	30	9818	1	11449	5	10581	9	2871	18	5453	17	5931	20	3768	42	5051	31
17	MMH-4-15	4725	42	5881	43	4582	34	955	43	5063	41	6820	39	10414	36	8824	10	7096	41	8289	39	3424	4	5079	30	5365	26	3754	43	4733	38
18	UDMH-127	4704	43	6192	37	4015	40	1191	41	4971	43	6241	41	5515	44	8807	11	8404	37	7242	44	2196	40	4818	38	3576	42	3978	40	4124	43
19	NMH 109	4902	41	7255	9	3993	41	1472	38	5383	40	5175	44	12024	6	8029	20	8102	38	8332	38	3044	14	4641	42	3529	43	5320	21	4496	41
20	PMSY3	7233	30	6393	30	4323	38	1793	33	5983	35	8141	35	11296	21	7015	35	7641	39	8523	36	2475	33	5785	9	3996	39	4987	28	4923	32
21	CMH11-620	7772	20	6383	31	4922	29	2516	13	6359	30	11850	8	11907	7	7799	23	10636	14	10548	10	3260	9	4870	36	6720	15	4449	35	5347	25
22	LMH 915	8132	11	6918	17	4690	31	1697	36	6580	28	8945	32	10410	37	8113	18	8606	34	9018	35	2542	31	4937	35	4216	38	6348	10	5167	29
23	JKMH 4103	8316	8	6902	18	5294	26	2018	26	6837	20	11783	9	12094	5	7181	34	8722	31	9945	22	2423	35	5801	8	9108	1	5505	19	6805	3
24	RCRMH1	7290	28	7186	12	5534	23	2674	10	6670	25	10791	19	10880	26	6941	36	11649	3	10065	18	2690	25	5452	18	7667	3	7247	3	6788	4
25	LMH 615	8144	10	7008	16	7216	7	2095	21	7456	8	9840	27	10804	27	7686	27	10062	19	9598	28	3614	2	4839	37	6817	13	5071	27	5575	19
26	JKMH 4333	8973	3	7831	7	6977	8	1844	29	7927	4	9907	25	11463	17	7584	30	11213	7	10042	19	2780	21	5158	27	7347	7	6026	17	6177	11
27	LMH 815	7541	26	7183	13	5474	24	2331	17	6733	24	11233	18	13036	4	8330	14	9064	28	10416	11	2757	22	5737	11	4803	30	6029	16	5523	20
28	OMH 14-64	7009	32	8452	2	6283	16	2661	11	7248	12	9619	29	11689	11	7737	25	9582	23	9656	26	3372	5	5380	22	4975	28	3581	44	4646	40

SI No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
		NHZ									NWPZ																NEPZ		
		BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
29	Mahabeej-1302	6351	38	8012	6	6122	20	2751	6	6828	21	10292	22	11172	24	8135	15	10805	10	10101	17	3262	8	6216	6	7498	4	7025	5	6913	2
30	IIMRNH 2015-1	5067	40	6234	36	3636	42	2082	22	4979	42	5950	43	10085	41	7826	21	6607	43	7617	41	3122	13	4759	40	3644	41	5920	18	4774	36
31	CMH12-699	6461	36	6325	33	6924	9	3426	2	6570	29	12779	5	11511	13	7428	31	11631	4	10837	6	2534	32	5784	10	7136	9	6970	6	6630	6
32	IIMRNH 2015-2	6786	34	6382	32	5168	27	2710	7	6112	33	11400	15	10168	40	7671	28	10665	13	9976	21	2125	41	5287	25	6896	12	3833	41	5338	26
33	IMH1525	7567	25	6397	29	6622	11	1444	39	6862	19	7754	36	10739	29	9503	6	9370	26	9342	29	2210	39	4965	34	6958	11	4612	32	5512	21
34	BRM 12-3	7794	18	7670	8	4493	36	2236	18	6652	26	9750	28	10230	39	7737	26	10793	11	9628	27	2650	26	6546	1	4511	37	4836	31	5298	27
35	MMH-3-15	6815	33	7201	11	3589	43	2024	24	5868	36	9858	26	9394	43	8135	16	9938	20	9331	30	3250	10	5291	24	4772	32	4007	39	4690	39
36	DAS-MH-309	9928	2	8310	4	5867	21	3238	3	8035	3	10428	20	10523	32	7826	22	8521	35	9324	31	3243	11	5274	26	4740	34	9367	1	6460	9
37	NMH-3746	8673	5	6846	20	6556	15	4653	1	7359	9	12473	7	11508	15	7428	32	11071	9	10620	8	2909	17	6241	5	7006	10	7978	2	7075	1
38	PROLINE-511	7505	27	6619	25	6621	12	2350	16	6915	17	8620	34	11417	18	7671	29	8674	33	9096	34	2047	42	4966	33	5060	27	5145	24	5057	30
39	BL 106	6168	39	6031	40	4977	28	1817	31	5725	39	13045	3	11216	23	9503	7	9328	27	10773	7	2449	34	5440	19	7408	5	7035	4	6628	7
40	IIMRNH 2015-3	7739	21	6562	26	6130	18	1788	34	6810	22	11399	16	13930	1	9743	3	8691	32	10941	5	3987	1	6094	7	6693	16	4879	30	5889	15
41	HM15206	7852	16	6731	22	6123	19	2689	9	6902	18	11732	10	11814	8	9818	2	10578	15	10986	4	2795	20	6404	2	6460	17	6724	8	6530	8
	CHECKS																														
42	HM-9	7190	31	5983	41	4336	37	1844	30	5837	37	8892	33	11573	12	7799	24	8436	36	9175	33	1542	44	5533	16	4708	35	4020	38	4754	37
43	BIO-9637	7891	15	7225	10	6732	10	2433	14	7283	11	11504	13	10773	28	8113	19	9692	22	10021	20	2217	38	5661	13	5880	22	4975	29	5505	22
44	PMH-4	7781	19	6709	24	6582	14	2421	15	7024	15	11573	12	11342	20	6387	41	9412	25	9678	25	3428	3	5058	31	6760	14	5218	22	5679	18
	Location Mean	**7392**		**6865**		**5730**		**2160**		**6662**		**10040**		**11098**		**7925**		**9582**		**9661**		**2776**		**5381**		**5762**		**5477**		**5540**	
	C.D. (5%)	661		545		1075		1334		760		1709		501		996		1334		1135		1387		661		1461		1278		1134	
	C.V. (%)	5.51		4.89		11.56		**38.04**		**-**		10.48		2.78		7.74		8.57		**-**		**30.77**		7.56		15.62		14.38		**-**	
	F (Prob)	0		0		0		0.001				0		0		0		0				0.508		0		0		0			
	Plot Size	3.6		4.8		2.64		4.8		-		4.8		6		4.8		6		-		6		4.8		4.8		4.8		-	
	AGRONOMY DATA																														
	Sowing Date	27-06		14-07		24-06		7-02		-		29-06		29-06		8-08		24-06		-		3-07		24-06		27-06		3-07		-	
	Harvest Date	23-10		10-20		5-10		8-11		-		7-10		7-10		12-01		23-10		-		30-10		14-10		1-10		6-10		-	
	Irrigation Nos	3		-		-		-		-		7		5		3		1		-		1		-		1		-		-	
	Ferilizer Applied N	120		120		120		80		-		50		150		120		120		-		120		120		120		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		60		60		-		60		60		60		60		-	
	Ferilizer Applied K	40		40		40		40		-		12		60		50		40		-		40		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 **(CONT…)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
														PZ														CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	KNMH-4501	7535	26	7716	3	12363	20	9546	14	5275	33	10568	16	8834	15	6234	20	7065	13	9349	11	8613	15	3930	20	4436	14	6605	11	7765	14
2	JH 13347	8340	16	6975	12	12394	19	8113	32	5667	27	9409	27	8483	23	5909	25	6734	18	9782	7	8331	21	3778	25	5766	2	6717	9	8001	11
3	KMH 13-5	6422	38	5236	29	9700	36	7611	36	5545	31	9593	24	7351	35	4974	31	6103	31	5941	41	7332	32	3093	38	3113	35	5093	37	6656	36
4	KNMH-4505	8719	12	6490	16	10951	30	8303	30	4430	42	9651	23	8091	30	4935	32	5065	39	7770	23	8055	23	4805	7	3239	32	5645	32	7088	30
5	HM15207	7456	27	6285	18	12710	14	11206	4	7298	6	12411	3	9561	7	3415	44	5729	35	10273	3	10069	4	5665	2	3998	20	6525	14	8464	2
6	EH-2480	8332	17	4187	37	9845	34	-	-	2155	44	11678	7	7239	36	7711	1	8147	1	6803	34	4455	43	4501	11	2471	42	5681	31	5858	41
7	JH 13348	9398	6	7923	2	12435	17	9966	11	6259	16	11882	5	9644	6	6476	14	7370	9	10821	2	10290	3	3564	29	6581	1	7517	1	8249	5
8	AH7007	5172	43	2565	43	6667	43	6634	41	4791	38	6225	44	5342	44	4147	39	3534	44	4894	44	4833	42	4060	18	3169	33	4106	44	5319	44
9	SRIKAR 2079	8754	11	6094	20	12770	13	10076	10	6219	18	12501	2	9402	11	6219	21	7658	4	8687	15	7619	29	3969	19	2601	40	6126	21	7716	16
10	IMH1526	8458	14	4352	36	12581	16	9587	13	5583	30	11305	12	8644	18	4567	35	7472	7	8389	20	8445	18	4346	14	3831	22	6175	20	7844	13
11	PMSW4	6032	39	2606	42	9411	38	8355	29	5036	35	8825	40	6711	40	3677	42	4775	41	7489	27	7724	27	3816	23	1821	44	4883	39	6186	39
12	EH-2233	6031	40	5480	26	11183	28	8833	22	5748	26	10207	20	7914	32	5886	27	4869	40	6260	38	5390	40	4582	10	2650	39	4940	38	7070	31
13	BIO 509	9375	7	6281	19	15279	3	11308	2	7029	7	11908	4	10197	4	6370	16	5809	33	9425	10	9889	5	3489	34	4509	12	6582	12	8392	4
14	KNMH-4507	7948	21	5622	25	10885	31	8430	27	6376	13	9134	37	8066	31	5982	24	6065	32	7506	26	6997	34	3566	28	4469	13	5764	30	7238	29
15	IMH1530	6852	35	6074	21	11573	23	7692	35	7306	5	9377	28	8146	29	6159	22	7275	11	7101	31	8433	19	5929	1	3640	25	6423	17	7631	20
16	AMH-3435	4443	44	1718	44	15958	1	11297	3	6343	14	9176	36	8156	28	4332	38	6716	19	8713	14	11893	1	2787	43	4200	18	6440	15	7555	24
17	MMH-4-15	5937	41	3553	40	7342	41	6781	39	4236	43	10496	17	6391	41	3789	40	5800	34	6017	39	5778	39	3212	37	2752	37	4558	41	5829	40
18	UDMH-127	5177	42	3908	39	6562	44	5230	43	4457	41	8602	42	5656	43	5104	29	7548	5	5724	42	3776	44	3560	30	3260	31	4829	40	5416	43
19	NMH 109	9592	4	4794	33	11908	22	8300	31	6003	21	8641	41	8206	27	6803	8	6252	27	8100	21	7165	33	2836	42	3741	24	5816	27	6687	35
20	PMSY3	6653	37	3474	41	9168	39	7756	34	4910	37	9513	26	6912	39	4699	33	6688	20	6447	36	6776	36	3662	26	3403	28	5279	36	6362	37
21	CMH11-620	9142	9	4903	32	12414	18	8852	21	5972	22	9947	22	8538	21	6634	9	6637	21	8514	18	9222	10	4732	8	5226	3	6827	6	7705	17
22	LMH 915	7607	24	6853	13	9428	37	7430	37	5210	34	9211	35	7623	34	5506	28	7084	12	8389	19	8446	17	3569	27	2943	36	5989	25	6954	32
23	JKMH 4103	8719	13	4501	35	11391	26	9369	17	6421	12	10918	14	8553	20	6282	17	6226	28	8554	17	8336	20	4100	17	3913	21	6235	19	7702	18
24	RCRMH1	11506	1	7495	5	14471	7	11399	1	5879	23	11220	13	10328	1	7192	3	7531	6	10244	4	9560	8	3531	33	5058	6	7186	3	8442	3
25	LMH 615	7008	34	7183	8	12710	15	8572	24	6052	20	9355	32	8480	24	6551	13	7946	2	9197	12	9001	11	3850	22	5028	8	6929	5	7725	15
26	JKMH 4333	10839	2	7180	9	13598	10	10895	6	7837	4	11594	9	10324	2	6249	18	6470	23	7638	24	8737	13	2272	44	3265	30	5772	29	8139	8
27	LMH 815	9310	8	5940	23	10440	33	7886	33	6066	19	10212	19	8309	26	6632	10	6626	22	9525	8	7523	30	3910	21	4956	9	6529	13	7612	21
28	OMH 14-64	7880	22	7354	6	11265	27	9368	18	6710	8	10628	15	8867	14	6019	23	6127	29	6893	33	9495	9	4964	6	5137	5	6439	16	7552	25

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
														PZ												CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
29	Mahabeej-1302	7230	31	5019	30	15206	4	10338	9	7988	2	11490	10	9545	9	3762	41	7034	14	6451	35	7667	28	4979	5	3781	23	5612	33	7844	12
30	IIMRNH 2015-1	7041	33	5243	28	6766	42	6608	42	5418	32	6733	43	6301	42	4401	37	4586	43	5100	43	4944	41	3286	36	2436	43	4126	43	5559	42
31	CMH12-699	8224	18	4997	31	14139	9	10580	7	6539	10	9282	34	8960	13	7048	6	7851	3	10896	1	8001	24	3058	39	5057	7	6985	4	8119	9
32	IIMRNH 2015-2	8759	10	6817	14	12793	12	8566	25	5839	24	9376	29	8692	17	7280	2	6317	25	8667	16	9889	6	3541	32	4857	10	6759	8	7589	22
33	IMH1525	7209	32	4102	38	7686	40	8564	26	5013	36	9331	33	6984	38	5075	30	5417	37	6292	37	6461	37	4184	15	4522	11	5325	35	6743	33
34	BRM 12-3	8202	19	7063	11	14284	8	10491	8	4735	39	10048	21	9137	12	5890	26	5266	38	8824	13	9779	7	3779	24	4096	19	6272	18	7583	23
35	MMH-3-15	6674	36	5411	27	10502	32	8368	28	5792	25	9089	38	7639	33	4677	34	6926	16	6925	32	6942	35	4593	9	2566	41	5438	34	6703	34
36	DAS-MH-309	7867	23	8275	1	15701	2	11107	5	7946	3	10405	18	10217	3	6567	12	7417	8	9849	6	11719	2	4381	12	4257	17	7365	2	8467	1
37	NMH-3746	7597	25	6442	17	12991	11	9187	19	8916	1	11615	8	9458	10	4533	36	6947	15	7281	28	7740	26	5218	3	3135	34	5809	28	8063	10
38	PROLINE-511	7343	28	7700	4	11473	25	8689	23	6643	9	9367	31	8536	22	7173	5	5619	36	7166	30	8834	12	3559	31	4271	16	6104	23	7279	28
39	BL 106	9826	3	6634	15	14650	6	8869	20	6534	11	11825	6	9723	5	6809	7	6802	17	9472	9	8543	16	4171	16	5150	4	6825	7	8156	7
40	IIMRNH 2015-3	7295	30	7094	10	10983	29	9606	12	6222	17	9367	30	8428	25	6599	11	6341	24	8046	22	7962	25	4376	13	3388	29	6119	22	7688	19
41	HM15206	8415	15	5709	24	14826	5	9514	15	5614	29	13267	1	9558	8	7187	4	7324	10	10135	5	8669	14	2878	40	3443	27	6606	10	8237	6
	CHECKS																														
42	HM-9	7314	29	4685	34	9761	35	6710	40	4571	40	9063	39	7017	37	3499	43	4601	42	6013	40	6049	38	2838	41	2683	38	4281	42	6194	38
43	BIO-9637	7986	20	6010	22	12151	21	9491	16	6260	15	9555	25	8575	19	6239	19	6289	26	7544	25	8113	22	3353	35	3473	26	5835	26	7496	27
44	PMH-4	9513	5	7207	7	11572	24	7416	38	5645	28	11382	11	8789	16	6387	15	6107	30	7192	29	7453	31	5044	4	4407	15	6098	24	7552	26
	Location Mean	**7844**		**5708**		**11656**		**8905**		**5920**		**10122**		**8353**		**5718**		**6413**		**7961**		**7976**		**3939**		**3880**		**5981**		**7328**	
	C.D. (5%)	1183		783		3037		861		1162		957		1331		942		1565		1923		1463		440		664		1166		1146	
	C.V. (%)	9.29		8.45		16.05		6.09		12.09		5.83		-		10.15		15.03		14.88		11.3		6.88		10.55		-		-	
	F (Prob)	0		0		0		0		0		0				0		0		0		0		0		0					
	Plot Size	6		6		4.8		5.6		4.8		4.8		-		4.8		4.8		6		6		4.8		5.25		-		-	
	AGRONOMY DATA																														
	Sowing Date	27-06		3-07		22-06		23-07		13-07		7-07		-		14-07		24-06		9-07		4-07		16-07		23-06		-		-	
	Harvest Date	7-10		29-10		-		14-12		4-11		22-10		-		9-10		20-10		12-11		-		28-10		3-10		-		-	
	Irrigation Nos	4		8		3		7		10		9		-		3		-		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		150		-		120		150		120		120		100		120		-		-	
	Ferilizer Applied P	60		60		75		75		75		75		-		90		80		60		60		50		60		-		-	
	Ferilizer Applied K	50		50		37.5		40		75		75		-		-		-		40		40		-		60		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		NHZ									NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
1	KNMH-4501	6	49.4	44.7	7.5	30.4	13.9	-	7.1	20.8	7	45.9	13.1	0.7	26.7	12.9
2	JH 13347	21.5	12.7	79.3	46.3	32.8	44	-	-	25.2	12.5	69.2	2.1	79	54.7	42.3
3	KMH 13-5	11.3	8.5	144.2	-	43.2	-	-	12.5	-	-	29.8	-	3.3	11.7	1.5
4	KNMH-4505	6.9	12.2	33.7	-	15.4	4.6	-	-	17.5	1.6	115.2	-	24.9	27.5	12.6
5	HM15207	47.9	35.2	69.2	40.9	48.8	69.8	1.4	-	46.3	20.7	65.4	1.5	56.1	58.5	35.6
6	EH-2480	-	-	-	-	-	-	-	-	-	-	93.8	-	-	2	-
7	JH 13348	1.3	17.6	6.7	19.5	8.2	48.5	-	-	31.9	13	69.9	3.2	18.8	69.4	27
8	AH7007	-	14.7	-	-	-	-	-	-	-	-	90.6	-	-	5.8	-
9	SRIKAR 2079	11.4	18	10.4	16.7	13.4	31.5	-	4.3	13.3	11.4	116.3	-	32.1	29.6	11
10	IMH1526	18.7	3	68.1	62.3	25.6	41.9	-	23.8	39.4	21.2	77.5	-	15.8	57.4	20.4
11	PMSW4	-	5.3	22.5	2.4	3.5	-	-	-	3.8	-	74.8	-	-	13.8	2.3
12	EH-2233	14.1	7.9	97	-	32.5	1.2	15.5	20.2	6.1	10.9	52.8	-	1.9	32.7	2
13	BIO 509	6	-	80.2	60.3	20.1	26.8	16.1	13.3	32.9	22	81.4	13.3	20.2	54.9	27.3
14	KNMH-4507	8.9	5.4	4.1	9.6	6.6	28.7	-	-	26.4	6.8	104	-	52.5	52.3	29
15	IMH1530	19.2	1.7	52.6	-	21.4	14.2	1.2	22.1	21.7	13.5	67	-	27	52.8	23.1
16	AMH-3435	13	40.8	6.3	11.2	20.8	17.1	-	25.9	35.7	15.3	86.2	-	26	-	6.2
17	MMH-4-15	-	-	5.7	-	-	-	-	13.1	-	-	122	-	13.9	-	-
18	UDMH-127	-	3.5	-	-	-	-	-	12.9	-	-	42.4	-	-	-	-
19	NMH 109	-	21.2	-	-	-	-	3.9	2.9	-	-	97.4	-	-	32.3	-
20	PMSY3	0.6	6.9	-	-	2.5	-	-	-	-	-	60.5	4.5	-	24.1	3.6
21	CMH11-620	8.1	6.7	13.5	36.5	8.9	33.3	2.9	-	26.1	15	111.4	-	42.7	10.7	12.5
22	LMH 915	13.1	15.6	8.2	-	12.7	0.6	-	4	2	-	64.8	-	-	57.9	8.7
23	JKMH 4103	15.7	15.4	22.1	9.4	17.1	32.5	4.5	-	3.4	8.4	57.1	4.8	93.4	37	43.1
24	RCRMH1	1.4	20.1	27.6	45.1	14.3	21.4	-	-	38.1	9.7	74.4	-	62.8	80.3	42.8
25	LMH 615	13.3	17.1	66.4	13.6	27.7	10.7	-	-	19.3	4.6	134.3	-	44.8	26.1	17.3
26	JKMH 4333	24.8	30.9	60.9	0	35.8	11.4	-	-	32.9	9.4	80.3	-	56	49.9	29.9

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		NHZ					NWPZ									NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
27	LMH 815	4.9	20	26.3	26.4	15.4	26.3	12.6	6.8	7.4	13.5	78.7	3.7	2	50	16.2
28	OMH 14-64	-	41.3	44.9	44.4	24.2	8.2	1	-	13.6	5.2	118.6	-	5.7	-	-
29	Mahabeej-1302	-	33.9	41.2	49.2	17	15.7	-	4.3	28.1	10.1	111.5	12.3	59.3	74.8	45.4
30	IIMRNH 2015-1	-	4.2	-	12.9	-	-	-	0.3	-	-	102.4	-	-	47.3	0.4
31	CMH12-699	-	5.7	59.7	85.8	12.6	43.7	-	-	37.9	18.1	64.3	4.5	51.6	73.4	39.5
32	IIMRNH 2015-2	-	6.7	19.2	47	4.7	28.2	-	-	26.4	8.7	37.8	-	46.5	-	12.3
33	IMH1525	5.2	6.9	52.7	-	17.6	-	-	21.8	11.1	1.8	43.3	-	47.8	14.7	15.9
34	BRM 12-3	8.4	28.2	3.6	21.3	14	9.7	-	-	27.9	4.9	71.9	18.3	-	20.3	11.4
35	MMH-3-15	-	20.3	-	9.8	0.5	10.9	-	4.3	17.8	1.7	110.8	-	1.4	-	-
36	DAS-MH-309	38.1	38.9	35.3	75.6	37.7	17.3	-	0.3	1	1.6	110.3	-	0.7	133	35.9
37	NMH-3746	20.6	14.4	51.2	152.4	26.1	40.3	-	-	31.2	15.7	88.7	12.8	48.8	98.5	48.8
38	PROLINE-511	4.4	10.6	52.7	27.5	18.5	-	-	-	2.8	-	32.7	-	7.5	28	6.4
39	BL 106	-	0.8	14.8	-	-	46.7	-	21.8	10.6	17.4	58.8	-	57.3	75	39.4
40	IIMRNH 2015-3	7.6	9.7	41.4	-	16.7	28.2	20.4	24.9	3	19.2	158.5	10.1	42.2	21.4	23.9
41	HM15206	9.2	12.5	41.2	45.8	18.3	32	2.1	25.9	25.4	19.7	81.2	15.7	37.2	67.3	37.4
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	9.8	20.8	55.3	32	24.8	29.4	-	4	14.9	9.2	43.8	2.3	24.9	23.8	15.8
44	PMH-4	8.2	12.1	51.8	31.3	20.3	30.2	-	-	11.6	5.5	122.3	-	43.6	29.8	19.5

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	KNMH-4501	3	64.7	26.7	42.3	15.4	16.6	25.9	78.2	53.5	55.5	42.4	38.5	65.3	54.3	25.4
2	JH 13347	14	48.9	27	20.9	24	3.8	20.9	68.9	46.3	62.7	37.7	33.1	114.9	56.9	29.2
3	KMH 13-5	-	11.8	-	13.4	21.3	5.9	4.8	42.1	32.6	-	21.2	9	16	19	7.5
4	KNMH-4505	19.2	38.5	12.2	23.7	-	6.5	15.3	41	10.1	29.2	33.2	69.3	20.7	31.9	14.4
5	HM15207	1.9	34.2	30.2	67	59.7	36.9	36.3	-	24.5	70.8	66.4	99.6	49	52.4	36.7
6	EH-2480	13.9	-	0.9	-	-	28.9	3.2	120.4	77.1	13.1	-	58.6	-	32.7	-
7	JH 13348	28.5	69.1	27.4	48.5	36.9	31.1	37.4	85.1	60.2	80	70.1	25.6	145.3	75.6	33.2
8	AH7007	-	-	-	-	4.8	-	-	18.5	-	-	-	43	18.1	-	-
9	SRIKAR 2079	19.7	30.1	30.8	50.2	36.1	37.9	34	77.7	66.4	44.5	26	39.8	-	43.1	24.6
10	IMH1526	15.6	-	28.9	42.9	22.1	24.7	23.2	30.5	62.4	39.5	39.6	53.1	42.8	44.3	26.6
11	PMSW4	-	-	-	24.5	10.2	-	-	5.1	3.8	24.5	27.7	34.5	-	14.1	-
12	EH-2233	-	17	14.6	31.7	25.8	12.6	12.8	68.2	5.8	4.1	-	61.5	-	15.4	14.2
13	BIO 509	28.2	34.1	56.5	68.5	53.8	31.4	45.3	82	26.3	56.7	63.5	23	68.1	53.8	35.5
14	KNMH-4507	8.7	20	11.5	25.6	39.5	0.8	14.9	70.9	31.8	24.8	15.7	25.7	66.5	34.7	16.9
15	IMH1530	-	29.6	18.6	14.6	59.9	3.5	16.1	76	58.1	18.1	39.4	108.9	35.7	50	23.2
16	AMH-3435	-	-	63.5	68.4	38.8	1.2	16.2	23.8	45.9	44.9	96.6	-	56.5	50.4	22
17	MMH-4-15	-	-	-	1.1	-	15.8	-	8.3	26	0.1	-	13.2	2.6	6.5	-
18	UDMH-127	-	-	-	-	-	-	-	45.9	64	-	-	25.4	21.5	12.8	-
19	NMH 109	31.1	2.3	22	23.7	31.3	-	16.9	94.4	35.9	34.7	18.4	-	39.4	35.9	8
20	PMSY3	-	-	-	15.6	7.4	5	-	34.3	45.4	7.2	12	29	26.8	23.3	2.7
21	CMH11-620	25	4.7	27.2	31.9	30.7	9.8	21.7	89.6	44.2	41.6	52.4	66.7	94.8	59.5	24.4
22	LMH 915	4	46.3	-	10.7	14	1.6	8.6	57.3	54	39.5	39.6	25.8	9.7	39.9	12.3
23	JKMH 4103	19.2	-	16.7	39.6	40.5	20.5	21.9	79.5	35.3	42.3	37.8	44.5	45.8	45.7	24.3
24	RCRMH1	57.3	60	48.3	69.9	28.6	23.8	47.2	105.5	63.7	70.3	58	24.4	88.5	67.9	36.3
25	LMH 615	-	53.3	30.2	27.8	32.4	3.2	20.8	87.2	72.7	52.9	48.8	35.6	87.4	61.9	24.7
26	JKMH 4333	48.2	53.3	39.3	62.4	71.5	27.9	47.1	78.6	40.6	27	44.4	-	21.7	34.8	31.4

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
27	LMH 815	27.3	26.8	7	17.5	32.7	12.7	18.4	89.5	44	58.4	24.4	37.8	84.7	52.5	22.9
28	OMH 14-64	7.7	57	15.4	39.6	46.8	17.3	26.4	72	33.1	14.6	57	74.9	91.5	50.4	21.9
29	Mahabeej-1302	-	7.1	55.8	54.1	74.8	26.8	36	7.5	52.9	7.3	26.7	75.4	40.9	31.1	26.7
30	IIMRNH 2015-1	-	11.9	-	-	18.5	-	-	25.8	-	-	-	15.8	-	-	-
31	CMH12-699	12.4	6.7	44.9	57.7	43.1	2.4	27.7	101.4	70.6	81.2	32.3	7.8	88.5	63.2	31.1
32	IIMRNH 2015-2	19.7	45.5	31.1	27.7	27.8	3.5	23.9	108.1	37.3	44.1	63.5	24.8	81	57.9	22.5
33	IMH1525	-	-	-	27.6	9.7	3	-	45	17.7	4.6	6.8	47.4	68.5	24.4	8.9
34	BRM 12-3	12.1	50.8	46.3	56.4	3.6	10.9	30.2	68.3	14.4	46.7	61.6	33.2	52.7	46.5	22.4
35	MMH-3-15	-	15.5	7.6	24.7	26.7	0.3	8.9	33.7	50.5	15.2	14.8	61.8	-	27	8.2
36	DAS-MH-309	7.6	76.6	60.9	65.5	73.9	14.8	45.6	87.7	61.2	63.8	93.7	54.4	58.7	72.1	36.7
37	NMH-3746	3.9	37.5	33.1	36.9	95.1	28.2	34.8	29.6	51	21.1	27.9	83.8	16.9	35.7	30.2
38	PROLINE-511	0.4	64.4	17.5	29.5	45.3	3.4	21.6	105	22.1	19.2	46	25.4	59.2	42.6	17.5
39	BL 106	34.3	41.6	50.1	32.2	43	30.5	38.6	94.6	47.8	57.5	41.2	47	91.9	59.4	31.7
40	IIMRNH 2015-3	-	51.4	12.5	43.2	36.1	3.4	20.1	88.6	37.8	33.8	31.6	54.2	26.3	42.9	24.1
41	HM15206	15	21.9	51.9	41.8	22.8	46.4	36.2	105.4	59.2	68.6	43.3	1.4	28.3	54.3	33
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	9.2	28.3	24.5	41.4	37	5.4	22.2	78.3	36.7	25.4	34.1	18.2	29.4	36.3	21
44	PMH-4	30.1	53.8	18.6	10.5	23.5	25.6	25.3	82.5	32.7	19.6	23.2	77.7	64.2	42.5	21.9

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
1	KNMH-4501	-	23.7	-	-	4.5	-	-	3	5.1	-	1.5	10.6	-	2.4	-
2	JH 13347	10.7	-	15.5	10.9	6.4	11.3	-	-	9	3	17.7	-	43.3	25	22.9
3	KMH 13-5	1.4	-	57.3	-	14.8	-	-	8.2	-	-	-	-	-	-	-
4	KNMH-4505	-	-	-	-	-	-	4.1	-	2.2	-	49.7	-	0	3.1	-
5	HM15207	34.7	12	9	6.7	19.3	31.3	8.9	-	27.3	10.5	15	-	25	28.1	17.1
6	EH-2480	-	-	-	-	-	-	-	-	-	-	34.8	-	-	-	-
7	JH 13348	-	-	-	-	-	14.8	1.6	-	14.8	3.4	18.2	0.9	-	36.8	9.7
8	AH7007	-	-	-	-	-	-	6.6	-	-	-	32.6	-	-	-	-
9	SRIKAR 2079	1.5	-	-	-	-	1.7	6.8	0.3	-	2	50.5	-	5.8	4.7	-
10	IMH1526	8.1	-	8.3	23	0.6	9.7	-	19	21.3	11	23.5	-	-	27.2	4
11	PMSW4	-	-	-	-	-	-	5.5	-	-	-	21.6	-	-	-	-
12	EH-2233	3.9	-	26.9	-	6.2	-	24.1	15.5	-	1.5	6.3	-	-	7.2	-
13	BIO 509	-	-	16	21.4	-	-	24.7	8.9	15.7	11.7	26.1	10.8	-	25.1	9.9
14	KNMH-4507	-	-	-	-	-	-	-	-	10	-	41.9	-	22.2	23.1	11.4
15	IMH1530	8.6	-	-	-	-	-	8.7	17.4	5.9	3.9	16.2	-	1.7	23.4	6.3
16	AMH-3435	3	16.6	-	-	-	-	-	21	18.1	5.6	29.5	-	0.9	-	-
17	MMH-4-15	-	-	-	-	-	-	-	8.8	-	-	54.4	-	-	-	-
18	UDMH-127	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-	-
19	NMH 109	-	0.4	-	-	-	-	11.6	-	-	-	37.3	-	-	6.9	-
20	PMSY3	-	-	-	-	-	-	4.9	-	-	-	11.6	2.2	-	0.2	-
21	CMH11-620	-	-	-	3.4	-	3	10.5	-	9.7	5.3	47	-	14.3	-	-
22	LMH 915	3	-	-	-	-	-	-	-	-	-	14.6	-	-	27.6	-
23	JKMH 4103	5.4	-	-	-	-	2.4	12.3	-	-	-	9.3	2.5	54.9	10.6	23.6
24	RCRMH1	-	-	-	9.9	-	-	1	-	20.2	0.4	21.3	-	30.4	45.7	23.3
25	LMH 615	3.2	-	7.2	-	2.4	-	0.3	-	3.8	-	63	-	15.9	1.9	1.3
26	JKMH 4333	13.7	8.4	3.6	-	8.8	-	6.4	-	15.7	0.2	25.4	-	25	21.1	12.2

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
		NHZ					NWPZ									NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
27	LMH 815	-	-	-	-	-	-	21	2.7	-	3.9	24.3	1.4	-	21.2	0.3
28	OMH 14-64	-	17	-	9.4	-	-	8.5	-	-	-	52.1	-	-	-	-
29	Mahabeej-1302	-	10.9	-	13.1	-	-	3.7	0.3	11.5	0.8	47.1	9.8	27.5	41.2	25.6
30	IIMRNH 2015-1	-	-	-	-	-	-	-	-	-	-	40.8	-	-	19	-
31	CMH12-699	-	-	2.8	40.8	-	11.1	6.9	-	20	8.1	14.3	2.2	21.4	40.1	20.4
32	IIMRNH 2015-2	-	-	-	11.3	-	-	-	-	10	-	-	-	17.3	-	-
33	IMH1525	-	-	-	-	-	-	-	17.1	-	-	-	-	18.3	-	0.1
34	BRM 12-3	-	6.1	-	-	-	-	-	-	11.4	-	19.5	15.6	-	-	-
35	MMH-3-15	-	-	-	-	-	-	-	0.3	2.5	-	46.6	-	-	-	-
36	DAS-MH-309	25.8	15	-	33	10.3	-	-	-	-	-	46.2	-	-	88.3	17.4
37	NMH-3746	9.9	-	-	91.2	1	8.4	6.8	-	14.2	6	31.2	10.2	19.2	60.4	28.5
38	PROLINE-511	-	-	-	-	-	-	6	-	-	-	-	-	-	3.4	-
39	BL 106	-	-	-	-	-	13.4	4.1	17.1	-	7.5	10.5	-	26	41.4	20.4
40	IIMRNH 2015-3	-	-	-	-	-	-	29.3	20.1	-	9.2	79.8	7.7	13.8	-	7
41	HM15206	-	-	-	10.5	-	2	9.7	21	9.1	9.6	26.1	13.1	9.9	35.2	18.6
	CHECKS															
42	HM-9	-	-	-	-	-	-	7.4	-	-	-	-	-	-	-	-
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	PMH-4	-	-	-	-	-	0.6	5.3	-	-	-	54.6	-	15	4.9	3.2

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	KNMH-4501	-	28.4	1.7	0.6	-	10.6	3	-	12.3	23.9	6.2	17.2	27.7	13.2	3.6
2	JH 13347	4.4	16.1	2	-	-	-	-	-	7.1	29.7	2.7	12.7	66	15.1	6.7
3	KMH 13-5	-	-	-	-	-	0.4	-	-	-	-	-	-	-	-	-
4	KNMH-4505	9.2	8	-	-	-	1	-	-	-	3	-	43.3	-	-	-
5	HM15207	-	4.6	4.6	18.1	16.6	29.9	11.5	-	-	36.2	24.1	69	15.1	11.8	12.9
6	EH-2480	4.3	-	-	-	-	22.2	-	23.6	29.5	-	-	34.2	-	-	-
7	JH 13348	17.7	31.8	2.3	5	-	24.3	12.5	3.8	17.2	43.5	26.8	6.3	89.5	28.8	10
8	AH7007	-	-	-	-	-	-	-	-	-	-	-	21.1	-	-	-
9	SRIKAR 2079	9.6	1.4	5.1	6.2	-	30.8	9.6	-	21.8	15.2	-	18.4	-	5	2.9
10	IMH1526	5.9	-	3.5	1	-	18.3	0.8	-	18.8	11.2	4.1	29.6	10.3	5.8	4.6
11	PMSW4	-	-	-	-	-	-	-	-	-	-	-	13.8	-	-	-
12	EH-2233	-	-	-	-	-	6.8	-	-	-	-	-	36.7	-	-	-
13	BIO 509	17.4	4.5	25.7	19.2	12.3	24.6	18.9	2.1	-	24.9	21.9	4.1	29.8	12.8	11.9
14	KNMH-4507	-	-	-	-	1.8	-	-	-	-	-	-	6.4	28.7	-	-
15	IMH1530	-	1.1	-	-	16.7	-	-	-	15.7	-	3.9	76.8	4.8	10.1	1.8
16	AMH-3435	-	-	31.3	19	1.3	-	-	-	6.8	15.5	46.6	-	20.9	10.4	0.8
17	MMH-4-15	-	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-
18	UDMH-127	-	-	-	-	-	-	-	-	20	-	-	6.2	-	-	-
19	NMH 109	20.1	-	-	-	-	-	-	9	-	7.4	-	-	7.7	-	-
20	PMSY3	-	-	-	-	-	-	-	-	6.3	-	-	9.2	-	-	-
21	CMH11-620	14.5	-	2.2	-	-	4.1	-	6.3	5.5	12.9	13.7	41.1	50.5	17	2.8
22	LMH 915	-	14	-	-	-	-	-	-	12.6	11.2	4.1	6.4	-	2.6	-
23	JKMH 4103	9.2	-	-	-	2.6	14.3	-	0.7	-	13.4	2.8	22.3	12.6	6.9	2.7
24	RCRMH1	44.1	24.7	19.1	20.1	-	17.4	20.4	15.3	19.8	35.8	17.8	5.3	45.6	23.1	12.6
25	LMH 615	-	19.5	4.6	-	-	-	-	5	26.4	21.9	10.9	14.8	44.8	18.7	3
26	JKMH 4333	35.7	19.5	11.9	14.8	25.2	21.3	20.4	0.2	2.9	1.3	7.7	-	-	-	8.6

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
27	LMH 815	16.6	-	-	-	-	6.9	-	6.3	5.4	26.3	-	16.6	42.7	11.9	1.5
28	OMH 14-64	-	22.4	-	-	7.2	11.2	3.4	-	-	-	17	48	47.9	10.4	0.8
29	Mahabeej-1302	-	-	25.1	8.9	27.6	20.2	11.3	-	11.8	-	-	48.5	8.9	-	4.6
30	IIMRNH 2015-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	CMH12-699	3	-	16.4	11.5	4.4	-	4.5	13	24.8	44.4	-	-	45.6	19.7	8.3
32	IIMRNH 2015-2	9.7	13.4	5.3	-	-	-	1.4	16.7	0.5	14.9	21.9	5.6	39.8	15.8	1.2
33	IMH1525	-	-	-	-	-	-	-	-	-	-	-	24.8	30.2	-	-
34	BRM 12-3	2.7	17.5	17.6	10.5	-	5.2	6.5	-	-	17	20.5	12.7	17.9	7.5	1.2
35	MMH-3-15	-	-	-	-	-	-	-	-	10.1	-	-	37	-	-	-
36	DAS-MH-309	-	37.7	29.2	17	26.9	8.9	19.1	5.3	17.9	30.6	44.4	30.6	22.6	26.2	13
37	NMH-3746	-	7.2	6.9	-	42.4	21.6	10.3	-	10.5	-	-	55.6	-	-	7.6
38	PROLINE-511	-	28.1	-	-	6.1	-	-	15	-	-	8.9	6.1	23	4.6	-
39	BL 106	23	10.4	20.6	-	4.4	23.7	13.4	9.1	8.2	25.6	5.3	24.4	48.3	17	8.8
40	IIMRNH 2015-3	-	18	-	1.2	-	-	-	5.8	0.8	6.7	-	30.5	-	4.9	2.6
41	HM15206	5.4	-	22	0.3	-	38.8	11.5	15.2	16.5	34.4	6.9	-	-	13.2	9.9
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	PMH-4	19.1	19.9	-	-	-	19.1	2.5	2.4	-	-	-	50.4	26.9	4.5	0.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		NHZ									NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
1	KNMH-4501	-	33.3	-	-	8.4	-	-	30.8	8.2	1.4	-	23.8	-	-	-
2	JH 13347	12.3	0.5	18.2	11.4	10.4	10.7	-	16.3	12.2	6.6	-	11.7	24.7	19.1	19.1
3	KMH 13-5	2.9	-	60.9	-	19	-	-	37.4	-	-	-	1.1	-	-	-
4	KNMH-4505	-	0.1	-	-	-	-	-	7.2	5.3	-	-	-	-	-	-
5	HM15207	36.6	20.6	11.5	7.3	23.7	30.5	3.5	-	31.1	14.4	-	11	8.7	22.1	13.5
6	EH-2480	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	JH 13348	-	4.9	-	-	-	14.1	-	-	18.2	7.1	-	12.9	-	30.5	6.3
8	AH7007	-	2.3	-	-	-	-	1.3	-	-	-	-	-	-	-	-
9	SRIKAR 2079	2.9	5.3	-	-	-	1	1.5	27.3	1.6	5.6	-	-	-	-	-
10	IMH1526	9.7	-	10.7	23.6	4.3	9	-	51.2	24.9	14.9	-	6.6	-	21.3	0.8
11	PMSW4	-	-	-	-	-	-	0.2	7.3	-	-	-	5.9	-	-	-
12	EH-2233	5.4	-	29.8	-	10.1	-	17.8	46.7	-	5.1	-	-	-	2.2	-
13	BIO 509	-	-	18.7	22.1	-	-	18.5	38.4	19.1	15.6	-	24	-	19.3	6.6
14	KNMH-4507	0.7	-	-	-	-	-	-	5.4	13.3	1.2	-	0.7	6.2	17.3	8
15	IMH1530	10.1	-	0.5	-	0.9	-	3.3	49.1	9.1	7.6	-	7.3	-	17.7	3
16	AMH-3435	4.4	25.5	-	-	0.4	-	-	53.7	21.7	9.3	-	7.8	-	-	-
17	MMH-4-15	-	-	-	-	-	-	-	38.2	-	-	-	0.4	-	-	-
18	UDMH-127	-	-	-	-	-	-	-	37.9	-	-	-	-	-	-	-
19	NMH 109	-	8.1	-	-	-	-	6	25.7	-	-	-	-	-	1.9	-
20	PMSY3	-	-	-	-	-	-	-	9.8	-	-	-	14.4	-	-	-
21	CMH11-620	-	-	-	3.9	-	2.4	5	22.1	13	9	-	-	-	-	-
22	LMH 915	4.5	3.1	-	-	-	-	-	27	-	-	-	-	-	21.7	-
23	JKMH 4103	6.9	2.9	-	-	-	1.8	6.6	12.4	-	2.8	-	14.7	34.7	5.5	19.8
24	RCRMH1	-	7.1	-	10.5	-	-	-	8.7	23.8	4	-	7.8	13.4	38.9	19.5
25	LMH 615	4.7	4.5	9.6	-	6.2	-	-	20.3	6.9	-	5.4	-	0.8	-	-
26	JKMH 4333	15.3	16.7	6	-	12.9	-	1.1	18.7	19.1	3.8	-	2	8.7	15.5	8.8

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		NHZ					NWPZ					NEPZ				
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	BHUB	VARA	BAHR	MEAN
27	LMH 815	-	7.1	-	-	-	-	14.9	30.4	-	7.6	-	13.4	-	15.5	-
28	OMH 14-64	-	26	-	9.9	3.2	-	3.1	21.1	1.8	-	-	6.4	-	-	-
29	Mahabeej-1302	-	19.4	-	13.6	-	-	-	27.4	14.8	4.4	-	22.9	10.9	34.6	21.7
30	IIMRNH 2015-1	-	-	-	-	-	-	-	22.5	-	-	-	-	-	13.4	-
31	CMH12-699	-	-	5.2	41.5	-	10.4	1.5	16.3	23.6	12	-	14.3	5.6	33.6	16.7
32	IIMRNH 2015-2	-	-	-	11.9	-	-	-	20.1	13.3	3.1	-	4.5	2	-	-
33	IMH1525	-	-	0.6	-	-	-	-	48.8	-	-	-	-	2.9	-	-
34	BRM 12-3	0.2	14.3	-	-	-	-	-	21.1	14.7	-	-	29.4	-	-	-
35	MMH-3-15	-	7.3	-	-	-	-	-	27.4	5.6	-	-	4.6	-	-	-
36	DAS-MH-309	27.6	23.9	-	33.7	14.4	-	-	22.5	-	-	-	4.3	-	79.5	13.8
37	NMH-3746	11.5	2.1	-	92.2	4.8	7.8	1.5	16.3	17.6	9.7	-	23.4	3.6	52.9	24.6
38	PROLINE-511	-	-	0.6	-	-	-	0.7	20.1	-	-	-	-	-	-	-
39	BL 106	-	-	-	-	-	12.7	-	48.8	-	11.3	-	7.5	9.6	34.8	16.7
40	IIMRNH 2015-3	-	-	-	-	-	-	22.8	52.5	-	13	16.3	20.5	-	-	3.7
41	HM15206	0.9	0.3	-	11.1	-	1.4	4.2	53.7	12.4	13.5	-	26.6	-	28.9	15
	CHECKS															
42	HM-9	-	-	-	-	-	-	2	22.1	-	-	-	9.4	-	-	-
43	BIO-9637	1.4	7.7	2.3	0.5	3.7	-	-	27	3	3.5	-	11.9	-	-	-
44	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	KNMH-4501	-	7.1	6.8	28.7	-	-	0.5	-	15.7	30	15.6	-	0.7	8.3	2.8
2	JH 13347	-	-	7.1	9.4	0.4	-	-	-	10.3	36	11.8	-	30.8	10.1	5.9
3	KMH 13-5	-	-	-	2.6	-	-	-	-	-	-	-	-	-	-	-
4	KNMH-4505	-	-	-	12	-	-	-	-	-	8	8.1	-	-	-	-
5	HM15207	-	-	9.8	51.1	29.3	9	8.8	-	-	42.8	35.1	12.3	-	7	12.1
6	EH-2480	-	-	-	-	-	2.6	-	20.7	33.4	-	-	-	-	-	-
7	JH 13348	-	9.9	7.5	34.4	10.9	4.4	9.7	1.4	20.7	50.5	38.1	-	49.3	23.3	9.2
8	AH7007	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	SRIKAR 2079	-	-	10.3	35.9	10.2	9.8	7	-	25.4	20.8	2.2	-	-	0.4	2.2
10	IMH1526	-	-	8.7	29.3	-	-	-	-	22.3	16.6	13.3	-	-	1.3	3.9
11	PMSW4	-	-	-	12.7	-	-	-	-	-	4.1	3.6	-	-	-	-
12	EH-2233	-	-	-	19.1	1.8	-	-	-	-	-	-	-	-	-	-
13	BIO 509	-	-	32	52.5	24.5	4.6	16	-	-	31	32.7	-	2.3	7.9	11.1
14	KNMH-4507	-	-	-	13.7	12.9	-	-	-	-	4.4	-	-	1.4	-	-
15	IMH1530	-	-	0	3.7	29.4	-	-	-	19.1	-	13.1	17.5	-	5.3	1
16	AMH-3435	-	-	37.9	52.3	12.3	-	-	-	10	21.1	59.6	-	-	5.6	0
17	MMH-4-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	UDMH-127	-	-	-	-	-	-	-	-	23.6	-	-	-	-	-	-
19	NMH 109	0.8	-	2.9	11.9	6.3	-	-	6.5	2.4	12.6	-	-	-	-	-
20	PMSY3	-	-	-	4.6	-	-	-	-	9.5	-	-	-	-	-	-
21	CMH11-620	-	-	7.3	19.4	5.8	-	-	3.9	8.7	18.4	23.7	-	18.6	12	2
22	LMH 915	-	-	-	0.2	-	-	-	-	16	16.6	13.3	-	-	-	-
23	JKMH 4103	-	-	-	26.3	13.7	-	-	-	1.9	18.9	11.9	-	-	2.2	2
24	RCRMH1	21	4	25.1	53.7	4.1	-	17.5	12.6	23.3	42.4	28.3	-	14.8	17.8	11.8
25	LMH 615	-	-	9.8	15.6	7.2	-	-	2.6	30.1	27.9	20.8	-	14.1	13.6	2.3
26	JKMH 4333	13.9	-	17.5	46.9	38.8	1.9	17.5	-	5.9	6.2	17.2	-	-	-	7.8

TABLE No. 3 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
27	LMH 815	-	-	-	6.3	7.4	-	-	3.8	8.5	32.4	0.9	-	12.5	7.1	0.8
28	OMH 14-64	-	2	-	26.3	18.9	-	0.9	-	0.3	-	27.4	-	16.6	5.6	0
29	Mahabeej-1302	-	-	31.4	39.4	41.5	0.9	8.6	-	15.2	-	2.9	-	-	-	3.9
30	IIMRNH 2015-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
31	CMH12-699	-	-	22.2	42.7	15.8	-	1.9	10.4	28.5	51.5	7.4	-	14.8	14.5	7.5
32	IIMRNH 2015-2	-	-	10.5	15.5	3.4	-	-	14	3.4	20.5	32.7	-	10.2	10.8	0.5
33	IMH1525	-	-	-	15.5	-	-	-	-	-	-	-	-	2.6	-	-
34	BRM 12-3	-	-	23.4	41.5	-	-	4	-	-	22.7	31.2	-	-	2.9	0.4
35	MMH-3-15	-	-	-	12.8	2.6	-	-	-	13.4	-	-	-	-	-	-
36	DAS-MH-309	-	14.8	35.7	49.8	40.8	-	16.2	2.8	21.4	36.9	57.2	-	-	20.8	12.1
37	NMH-3746	-	-	12.3	23.9	57.9	2	7.6	-	13.8	1.2	3.8	3.4	-	-	6.8
38	PROLINE-511	-	6.8	-	17.2	17.7	-	-	12.3	-	-	18.5	-	-	0.1	-
39	BL 106	3.3	-	26.6	19.6	15.7	3.9	10.6	6.6	11.4	31.7	14.6	-	16.9	11.9	8
40	IIMRNH 2015-3	-	-	-	29.5	10.2	-	-	3.3	3.8	11.9	6.8	-	-	0.3	1.8
41	HM15206	-	-	28.1	28.3	-	16.6	8.7	12.5	19.9	40.9	16.3	-	-	8.3	9.1
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	-	-	5	28	10.9	-	-	-	3	4.9	8.9	-	-	-	-
44	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 38.0 %: DHOL 30.8 %

Table No. 3 (Continued)

		GRAIN SHELLING %														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	81.9	81.2	85.0	67.3	78.9	82.4	81.1	77.5	81.4	80.6	75.5	83.4	72.5	77.8	77.3
2	JH 13347	82.8	80.9	80.4	68.0	78.0	90.6	80.8	78.5	83.3	83.3	79.5	83.0	80.0	78.5	80.2
3	KMH 13-5	81.9	78.5	83.1	68.7	78.0	83.2	79.3	77.5	83.7	80.9	77.5	83.1	76.5	72.6	77.4
4	KNMH-4505	81.5	80.5	79.1	69.7	77.7	81.8	81.8	78.5	86.4	82.1	77.5	78.2	75.5	79.1	77.6
5	HM15207	80.3	79.1	80.1	70.0	77.4	81.6	81.5	77.5	82.5	80.8	73.0	80.0	76.5	77.3	76.7
6	EH-2480	80.4	79.8	78.4	70.7	77.3	77.3	83.2	76.0	83.5	80.0	80.0	76.0	78.0	73.9	77.0
7	JH 13348	81.7	81.1	83.7	67.7	78.5	86.5	83.0	77.5	87.3	83.6	75.0	83.2	78.5	79.0	78.9
8	AH7007	79.3	80.3	81.8	67.0	77.1	85.1	82.7	77.5	80.0	81.3	79.5	80.0	74.0	74.2	76.9
9	SRIKAR 2079	81.2	80.0	82.3	69.3	78.2	85.5	81.0	77.5	84.1	82.0	73.5	79.3	75.0	77.0	76.2
10	IMH1526	76.7	79.2	77.6	68.3	75.4	80.9	81.8	79.5	83.1	81.3	80.5	81.4	74.0	72.6	77.1
11	PMSW4	79.0	79.2	82.9	68.3	77.3	84.9	79.4	76.0	87.6	82.0	79.0	76.6	78.5	75.7	77.5
12	EH-2233	81.3	80.5	82.6	68.0	78.1	85.0	82.2	78.5	85.6	82.8	75.0	79.0	75.0	71.8	75.2
13	BIO 509	78.9	75.5	78.4	67.0	74.9	82.4	82.6	79.0	84.6	82.2	78.5	81.7	76.0	73.5	77.4
14	KNMH-4507	79.2	78.6	78.9	66.3	75.8	85.1	81.1	78.5	86.4	82.8	74.0	81.0	75.5	79.1	77.4
15	IMH1530	85.5	79.5	83.6	67.0	78.9	87.6	83.3	74.5	88.2	83.4	80.5	82.2	78.0	74.1	78.7
16	AMH-3435	78.3	78.0	77.1	66.0	74.9	84.9	79.3	75.5	87.0	81.7	76.0	80.1	70.5	68.9	73.9
17	MMH-4-15	79.3	78.4	81.6	68.3	76.9	81.2	83.0	77.5	80.5	80.5	79.0	82.2	75.0	77.5	78.4
18	UDMH-127	78.5	81.9	81.3	68.0	77.4	81.9	83.2	75.5	86.0	81.7	81.0	77.8	74.0	76.1	77.2
19	NMH 109	79.6	82.5	81.7	67.3	77.8	80.6	78.9	79.0	83.9	80.6	74.5	79.1	77.5	74.5	76.4
20	PMSY3	86.8	78.9	82.9	70.7	79.8	83.1	81.2	80.0	84.2	82.1	78.0	80.5	75.5	75.4	77.3
21	CMH11-620	80.0	79.1	80.3	70.3	77.4	82.8	82.6	78.0	84.5	82.0	74.5	79.4	73.5	73.9	75.3
22	LMH 915	79.8	81.0	81.3	71.7	78.4	82.4	82.7	79.5	84.1	82.2	77.0	78.3	77.0	78.7	77.8
23	JKMH 4103	82.3	82.3	84.6	68.0	79.3	85.6	82.9	72.5	84.9	81.5	77.5	80.9	76.0	77.8	78.0
24	RCRMH1	80.7	80.5	82.2	68.7	78.0	82.6	81.5	73.5	85.4	80.8	81.5	79.3	77.5	77.7	79.0
25	LMH 615	82.4	80.6	84.3	67.7	78.7	81.7	80.9	73.0	83.5	79.8	77.5	80.8	76.0	74.1	77.1
26	JKMH 4333	80.3	80.9	80.2	66.3	76.9	85.6	83.2	73.5	84.9	81.8	75.5	80.0	76.0	75.9	76.9
27	LMH 815	81.1	78.6	81.5	66.3	76.9	84.3	79.3	76.5	82.9	80.7	79.0	76.0	75.5	74.9	76.4
28	OMH 14-64	79.9	80.5	82.2	69.0	77.9	80.9	83.5	77.0	83.3	81.2	75.0	83.2	77.5	74.6	77.6

Table No. 3 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	79.8	79.0	80.6	67.0	76.6	85.7	83.7	74.5	82.6	81.6	78.5	79.5	72.5	78.0	77.1
30	IIMRNH 2015-1	80.0	81.5	77.9	68.3	76.9	83.1	82.5	74.5	83.1	80.8	79.5	80.5	74.5	76.6	77.8
31	CMH12-699	77.3	76.6	80.9	68.7	75.8	79.7	81.5	72.5	87.1	80.2	77.5	79.4	76.5	77.8	77.8
32	IIMRNH 2015-2	81.2	79.7	80.9	68.7	77.6	83.1	83.8	73.0	85.4	81.3	79.0	80.3	76.5	77.0	78.2
33	IMH1525	80.6	77.5	83.5	70.3	78.0	87.0	82.7	73.5	83.8	81.7	83.0	78.3	78.0	77.0	79.1
34	BRM 12-3	78.5	79.8	77.2	68.0	75.9	78.6	78.0	77.0	82.0	78.9	78.5	76.4	72.0	73.1	75.0
35	MMH-3-15	79.8	78.7	79.5	69.3	76.8	88.8	80.4	74.5	84.6	82.1	75.0	77.9	74.0	74.8	75.4
36	DAS-MH-309	82.0	80.1	80.7	68.7	77.9	89.1	80.7	74.5	89.6	83.5	79.5	78.9	72.5	81.5	78.1
37	NMH-3746	81.5	79.9	81.9	68.7	78.0	83.6	81.7	72.5	85.8	80.9	76.5	80.6	73.0	75.1	76.3
38	PROLINE-511	81.7	79.7	82.8	67.7	77.9	83.7	82.6	73.0	86.8	81.5	83.0	78.7	74.5	74.8	77.8
39	BL 106	80.3	81.3	82.4	70.3	78.6	89.3	82.1	73.5	87.1	83.0	81.0	82.1	78.5	79.3	80.2
40	IIMRNH 2015-3	80.5	79.5	81.3	69.3	77.6	82.5	82.6	74.5	82.6	80.5	76.5	79.6	72.5	75.6	76.0
41	HM15206	79.9	80.3	80.9	65.3	76.6	82.2	83.2	75.5	81.0	80.5	79.5	77.6	72.0	76.8	76.5
	CHECKS															
42	HM-9	78.9	76.3	79.5	66.7	75.3	85.3	82.1	78.0	84.9	82.6	78.5	82.9	72.5	77.8	77.9
43	BIO-9637	80.5	80.2	81.2	67.0	77.2	83.3	80.3	79.5	84.2	81.8	75.5	79.3	72.0	77.1	76.0
44	PMH-4	86.1	81.3	81.8	65.3	78.6	86.5	80.7	77.5	87.1	82.9	76.0	78.7	78.0	77.2	77.5
	Loc. Mean	**80.7**	**79.7**	**81.2**	**68.2**	**77.4**	**83.8**	**81.7**	**76.2**	**84.5**	**81.6**	**77.8**	**79.9**	**75.3**	**76.0**	**77.3**
	C.D. (5%)	-	0.79	1.67	4.79	2.15	3.26	0.32	1.40	3.02	3.16	3.78	-	2.42	1.53	3.07
	C.V. (%)	-	0.61	1.27	4.32	1.99	2.40	0.24	1.13	2.20	2.77	3.00	-	1.98	1.24	2.84
	F (Prob)	0.00	0.00	0.00	0.85	0.00	0.00	0.00	0.00	0.00	0.69	0.00	0.00	0.00	0.00	0.10

Table No. 3 (Continued)

		GRAIN SHELLING %														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KNMH-4501	76.9	80.9	84.4	82.8	75.6	78.2	79.8	82.5	77.6	89.4	78.6	85.5	77.2	81.8	79.8
2	JH 13347	79.1	82.1	87.3	82.5	75.4	82.9	81.5	82.8	79.1	85.8	82.1	82.4	80.0	82.0	81.1
3	KMH 13-5	81.4	81.6	83.8	83.3	73.8	78.9	80.5	82.7	75.1	84.4	78.0	84.1	77.0	80.2	79.6
4	KNMH-4505	79.3	82.4	81.7	81.5	75.9	79.9	80.1	83.0	74.3	88.9	79.3	85.0	74.7	80.9	79.8
5	HM15207	80.6	80.3	82.6	82.3	77.3	77.5	80.1	82.4	73.3	87.5	77.2	84.1	75.6	80.0	79.2
6	EH-2480	77.6	80.5	85.7	-	73.5	77.8	79.0	82.7	78.3	87.3	79.4	85.3	75.7	81.4	79.1
7	JH 13348	80.3	81.8	84.8	83.1	77.9	82.4	81.7	82.7	76.4	87.0	82.4	85.5	79.9	82.3	81.2
8	AH7007	73.6	82.3	81.1	77.5	72.5	77.2	77.4	83.0	70.3	84.7	75.0	82.5	74.6	78.3	78.1
9	SRIKAR 2079	75.8	81.5	87.4	83.5	77.7	80.2	81.0	82.8	77.7	88.4	80.3	84.3	76.3	81.6	80.1
10	IMH1526	80.0	82.8	82.5	79.0	73.4	77.5	79.2	82.6	78.8	85.5	75.5	82.7	72.3	79.6	78.7
11	PMSW4	75.0	75.0	80.0	79.5	74.8	76.2	76.7	82.4	75.3	90.2	78.1	83.1	79.2	81.4	79.0
12	EH-2233	79.0	80.8	84.1	83.0	76.3	79.1	80.4	82.6	73.4	84.2	78.9	86.7	77.9	80.6	79.6
13	BIO 509	80.3	81.5	84.6	81.0	77.1	78.1	80.4	83.2	75.1	85.8	75.8	87.0	75.0	80.3	79.3
14	KNMH-4507	77.8	81.9	83.8	83.0	74.5	79.1	80.0	82.7	75.8	87.9	76.8	81.5	76.8	80.2	79.4
15	IMH1530	71.6	82.0	88.4	87.5	80.2	81.8	81.9	82.8	75.1	88.9	81.2	87.1	82.8	83.0	81.4
16	AMH-3435	79.5	82.0	85.1	80.0	78.6	77.0	80.4	82.5	76.8	87.3	75.2	86.7	75.5	80.7	78.6
17	MMH-4-15	75.1	81.4	84.4	83.0	76.5	76.9	79.6	83.0	78.0	87.5	79.4	84.9	78.8	81.9	79.7
18	UDMH-127	75.8	80.1	83.3	84.0	73.3	77.5	79.0	82.6	78.1	86.2	78.1	77.5	73.2	79.3	78.9
19	NMH 109	77.3	82.6	85.5	83.0	75.5	81.0	80.8	82.7	77.0	87.0	82.1	84.6	78.2	81.9	79.8
20	PMSY3	81.5	82.3	85.3	79.0	77.2	80.0	80.9	82.8	78.8	88.5	79.7	81.2	77.1	81.3	80.4
21	CMH11-620	78.8	81.5	85.5	79.5	73.1	77.6	79.3	83.0	76.8	87.8	76.2	87.9	77.0	81.4	79.3
22	LMH 915	82.5	82.3	83.3	83.0	75.8	78.8	80.9	82.7	78.2	89.5	79.4	84.0	78.7	82.0	80.5
23	JKMH 4103	77.6	82.5	86.8	81.0	75.9	79.0	80.4	82.9	78.6	86.0	81.4	85.1	80.3	82.4	80.5
24	RCRMH1	81.9	83.2	85.1	82.5	76.4	80.2	81.5	82.9	76.9	86.3	78.6	85.3	77.7	81.3	80.3
25	LMH 615	82.7	82.5	86.0	82.5	74.9	79.0	81.3	83.1	79.1	89.2	80.2	82.6	77.6	81.9	80.1
26	JKMH 4333	78.4	83.2	86.3	82.5	78.4	79.9	81.4	82.4	77.0	88.8	81.9	77.5	76.0	80.6	79.8
27	LMH 815	78.3	83.0	84.3	82.5	75.0	78.7	80.3	82.8	76.1	89.2	79.5	80.8	76.7	80.8	79.3
28	OMH 14-64	82.6	83.6	84.3	79.5	77.7	82.1	81.6	82.7	76.3	85.4	80.3	85.9	77.2	81.3	80.2

Table No. 3 (Continued)

		GRAIN SHELLING %														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
29	Mahabeej-1302	78.3	80.8	86.4	80.0	76.0	80.4	80.3	82.9	74.9	82.0	75.1	81.7	77.0	78.9	79.0
30	IIMRNH 2015-1	71.8	83.1	86.0	81.0	75.1	78.3	79.2	82.5	73.1	86.5	75.7	82.2	78.6	79.8	79.0
31	CMH12-699	77.3	79.0	85.3	81.0	76.8	76.7	79.3	82.7	77.7	87.9	73.9	84.3	76.7	80.5	78.9
32	IIMRNH 2015-2	75.0	79.8	83.1	83.5	75.8	76.6	79.0	82.4	78.8	87.4	79.1	87.6	77.2	82.1	79.8
33	IMH1525	78.0	80.0	85.6	83.0	79.5	80.9	81.2	82.7	76.6	88.5	80.3	86.5	80.8	82.6	80.7
34	BRM 12-3	68.8	77.4	80.2	79.0	73.9	76.6	76.0	82.7	72.1	87.3	75.3	82.8	74.1	79.0	77.0
35	MMH-3-15	76.5	80.3	85.6	80.5	75.0	78.5	79.4	82.5	78.6	86.4	78.6	84.2	76.4	81.1	79.2
36	DAS-MH-309	80.5	82.7	84.3	81.5	79.0	77.8	81.0	82.8	76.9	81.8	79.6	81.0	78.3	80.1	80.2
37	NMH-3746	74.6	77.9	83.6	80.5	80.5	78.2	79.2	83.2	76.6	81.7	75.7	83.8	76.4	79.5	78.9
38	PROLINE-511	77.6	80.1	86.6	83.0	76.3	77.4	80.2	82.8	77.1	89.6	76.9	83.2	78.4	81.3	79.9
39	BL 106	81.9	82.3	87.7	81.5	79.0	80.6	82.2	83.3	71.1	87.6	80.9	83.1	78.8	80.8	81.0
40	IIMRNH 2015-3	79.1	80.9	81.8	81.0	73.9	77.6	79.0	82.6	77.4	90.0	77.7	82.2	76.0	81.0	79.0
41	HM15206	74.5	80.7	83.1	81.5	74.4	81.0	79.2	82.6	78.6	88.6	76.8	81.6	75.4	80.6	78.9
	CHECKS															
42	HM-9	70.6	82.4	85.9	81.0	78.7	76.7	79.2	82.9	73.6	81.7	77.2	82.8	76.7	79.2	78.9
43	BIO-9637	82.4	81.6	86.6	81.0	75.9	81.0	81.4	82.6	75.1	82.0	77.7	81.8	75.9	79.2	79.3
44	PMH-4	81.1	83.7	87.9	81.0	79.5	81.9	82.5	83.2	77.1	87.0	81.3	81.9	78.8	81.5	80.8
	Loc. Mean	**77.9**	**81.3**	**84.7**	**81.7**	**76.2**	**79.0**	**80.1**	**82.7**	**76.3**	**86.8**	**78.5**	**83.6**	**77.1**	**80.9**	**79.6**
	C.D. (5%)	4.64	1.38	2.77	1.43	2.41	0.78	2.14	0.55	3.51	5.57	2.81	4.07	2.51	2.13	1.11
	C.V. (%)	3.67	1.04	2.01	1.06	1.95	0.61	2.35	0.41	2.83	3.95	2.21	3.00	2.00	2.32	2.46
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.10	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	25.9	24.3	25.3	23.0	24.6	23.1	23.1	16.5	17.8	20.1	22.8	18.7	28.5	23.7	23.4
2	JH 13347	25.6	24.4	25.2	22.0	24.3	26.7	22.5	15.5	16.4	20.3	24.1	18.3	27.2	23.7	23.3
3	KMH 13-5	25.8	23.9	24.2	22.0	24.0	25.3	22.6	15.5	16.4	19.9	25.4	18.1	26.7	22.8	23.2
4	KNMH-4505	25.9	24.4	26.2	23.7	25.0	26.6	21.6	16.0	21.0	21.3	22.8	18.6	31.4	24.5	24.3
5	HM15207	26.2	23.7	24.4	23.0	24.3	26.6	23.8	16.5	18.0	21.2	23.8	18.2	26.5	26.9	23.8
6	EH-2480	25.7	23.6	25.5	24.7	24.9	25.8	22.4	16.0	22.3	21.6	25.5	18.7	29.7	22.8	24.2
7	JH 13348	26.1	24.7	23.7	23.3	24.5	26.4	21.9	15.0	17.1	20.1	26.5	18.4	30.2	25.8	25.2
8	AH7007	25.5	23.9	23.4	23.3	24.0	22.4	21.8	16.5	15.8	19.1	25.1	18.6	24.4	22.1	22.5
9	SRIKAR 2079	26.0	23.9	25.8	24.3	25.0	23.8	21.4	16.0	16.8	19.5	24.1	18.2	28.4	24.0	23.7
10	IMH1526	25.7	24.4	25.2	23.0	24.5	26.1	22.5	16.0	17.8	20.6	24.0	18.1	27.7	25.0	23.7
11	PMSW4	25.9	24.5	26.4	23.0	24.9	29.0	22.7	17.0	17.4	21.5	21.9	18.5	28.1	23.0	22.9
12	EH-2233	25.7	23.9	23.6	22.7	23.9	24.2	23.1	16.5	18.5	20.5	23.7	18.7	29.9	24.9	24.3
13	BIO 509	25.8	24.5	24.4	22.0	24.2	29.0	23.2	16.0	19.9	22.0	27.9	18.3	35.0	24.9	26.5
14	KNMH-4507	26.0	24.4	24.9	23.3	24.6	25.9	23.2	14.0	16.1	19.8	23.5	17.2	29.9	24.8	23.8
15	IMH1530	25.7	24.2	25.2	24.0	24.8	28.4	23.1	14.5	17.9	21.0	25.7	17.5	28.4	25.0	24.1
16	AMH-3435	25.7	24.0	26.1	22.7	24.6	26.1	24.1	13.0	22.7	21.5	23.9	18.3	31.4	23.8	24.3
17	MMH-4-15	25.9	24.1	26.4	22.7	24.8	21.3	20.7	14.5	16.2	18.2	23.8	17.8	25.2	23.0	22.5
18	UDMH-127	25.8	24.1	25.9	22.3	24.5	25.7	22.4	15.5	16.9	20.1	26.0	16.7	30.6	22.1	23.8
19	NMH 109	26.1	24.2	26.8	25.0	25.5	29.2	21.2	16.5	21.2	22.0	23.5	18.4	31.2	24.7	24.4
20	PMSY3	25.7	24.0	24.3	23.0	24.2	23.8	21.8	15.5	19.3	20.1	24.4	17.8	33.4	22.8	24.6
21	CMH11-620	26.3	24.0	25.3	22.3	24.5	26.1	21.7	15.0	18.1	20.2	24.0	17.5	31.4	24.0	24.2
22	LMH 915	25.8	23.7	24.7	23.0	24.3	22.7	22.2	15.0	18.4	19.6	25.8	17.9	27.6	23.5	23.7
23	JKMH 4103	25.5	23.9	23.1	23.3	24.0	22.2	20.9	17.5	16.3	19.2	24.3	17.2	26.7	24.0	23.0
24	RCRMH1	26.5	24.7	26.2	23.3	25.2	29.8	22.0	15.0	18.1	21.2	24.5	18.3	30.4	25.9	24.8
25	LMH 615	25.6	24.5	20.9	24.0	23.7	21.9	21.1	17.5	17.3	19.4	24.1	16.7	28.7	23.9	23.4
26	JKMH 4333	25.6	24.1	25.6	23.7	24.7	23.5	21.4	17.5	17.5	20.0	26.5	17.8	30.5	23.5	24.6
27	LMH 815	25.9	23.9	23.8	23.0	24.1	25.5	21.2	13.5	16.8	19.2	25.9	17.5	30.4	24.8	24.6
28	OMH 14-64	25.7	24.4	26.4	22.3	24.7	26.6	24.6	14.5	17.4	20.8	25.5	18.4	32.3	25.1	25.3

Table No. 3 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	25.9	23.8	24.8	22.3	24.2	30.3	21.5	15.5	22.4	22.4	25.3	18.9	31.6	25.1	25.2
30	IIMRNH 2015-1	25.9	24.5	24.6	23.7	24.7	19.7	23.0	16.5	16.0	18.8	24.0	18.7	25.2	23.2	22.8
31	CMH12-699	26.3	24.5	25.7	22.3	24.7	30.7	23.8	17.5	21.6	23.4	23.3	18.2	30.7	24.9	24.3
32	IIMRNH 2015-2	25.6	24.6	25.1	22.7	24.5	25.4	22.2	16.5	17.3	20.3	22.9	18.6	28.4	23.9	23.4
33	IMH1525	25.4	24.6	25.7	23.3	24.7	27.3	23.1	13.5	19.2	20.8	24.5	18.3	28.2	22.9	23.5
34	BRM 12-3	26.1	24.6	25.9	23.3	25.0	26.3	21.5	14.5	19.0	20.3	22.9	18.7	30.2	24.2	24.0
35	MMH-3-15	25.4	23.4	25.8	24.0	24.6	22.8	22.0	15.5	16.4	19.1	24.7	18.5	27.6	22.1	23.2
36	DAS-MH-309	26.1	24.5	25.4	22.3	24.6	29.8	22.1	16.5	21.3	22.4	25.3	19.0	32.7	26.0	25.7
37	NMH-3746	25.7	24.0	25.2	21.7	24.1	27.7	21.8	17.5	20.0	21.8	26.0	18.3	35.5	24.8	26.1
38	PROLINE-511	25.9	24.1	25.7	23.7	24.8	27.5	23.0	16.5	16.9	21.0	22.6	18.7	30.2	24.1	23.9
39	BL 106	25.4	23.7	24.8	22.7	24.1	25.5	23.2	13.5	15.9	19.5	24.1	18.9	30.4	24.1	24.3
40	IIMRNH 2015-3	26.1	24.0	24.3	22.3	24.2	23.3	23.5	12.5	15.6	18.7	26.3	17.8	27.6	24.1	23.9
41	HM15206	25.9	24.0	25.6	23.0	24.6	27.9	23.3	13.0	17.4	20.4	23.2	17.2	30.5	25.1	24.0
	CHECKS															
42	HM-9	25.8	23.9	25.7	24.3	24.9	27.3	21.8	15.0	16.4	20.1	24.8	18.3	25.0	22.8	22.7
43	BIO-9637	25.7	24.0	24.4	24.0	24.5	24.1	22.0	15.0	16.9	19.5	23.9	19.1	30.6	24.8	24.6
44	PMH-4	26.0	24.0	25.4	23.7	24.8	24.2	22.7	16.5	16.5	19.9	23.3	18.9	28.8	24.1	23.8
	Loc. Mean	**25.8**	**24.1**	**25.0**	**23.1**	**24.5**	**25.7**	**22.4**	**15.5**	**18.0**	**20.4**	**24.4**	**18.2**	**29.4**	**24.1**	**24.0**
	C.D. (5%)	0.37	0.51	1.10	2.63	0.95	3.22	0.33	0.90	2.81	2.30	2.10	-	2.00	0.88	1.98
	C.V. (%)	0.89	1.31	2.70	7.01	2.78	7.72	0.92	3.58	9.60	8.07	5.30	-	4.18	2.26	5.90
	F (Prob)	0.00	0.00	0.00	0.93	0.23	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.02

Table No. 3 (Continued)

		MOISTURE % AT HARVEST													
								PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	GODH	JHAB	Mean	Mean
1	KNMH-4501	21.2	14.5	22.9	16.8	14.6	26.2	19.4	23.0	17.8	13.1	16.0	24.3	18.8	21.0
2	JH 13347	17.6	17.2	25.1	15.9	13.3	28.1	19.5	22.7	18.3	13.7	15.0	25.1	18.9	21.0
3	KMH 13-5	19.0	17.6	19.5	15.8	13.5	24.7	18.3	22.5	17.2	13.1	15.0	23.4	18.2	20.4
4	KNMH-4505	21.0	17.5	23.0	17.4	15.7	27.0	20.2	23.4	13.6	13.9	13.5	24.2	17.7	21.4
5	HM15207	20.8	16.5	20.9	17.6	13.6	28.7	19.6	23.1	17.6	12.8	14.1	24.7	18.4	21.2
6	EH-2480	21.4	14.7	20.9	-	14.5	27.2	19.7	22.9	17.9	13.8	13.8	23.6	18.4	21.5
7	JH 13348	18.0	16.6	20.6	18.4	15.3	27.0	19.3	22.7	17.8	15.4	14.9	25.9	19.3	21.4
8	AH7007	18.4	21.4	20.0	15.7	14.1	26.1	19.3	22.6	16.8	13.5	14.0	24.3	18.2	20.4
9	SRIKAR 2079	20.4	19.1	18.8	16.0	14.7	26.3	19.2	22.7	18.2	13.5	14.0	23.8	18.4	20.9
10	IMH1526	20.3	19.2	25.0	16.3	15.3	28.9	20.8	23.1	17.8	13.2	15.3	24.4	18.7	21.5
11	PMSW4	19.7	19.6	23.1	16.2	13.9	27.0	19.9	23.1	17.8	15.1	16.0	23.6	19.1	21.4
12	EH-2233	19.4	21.9	21.8	15.6	14.3	25.9	19.8	22.9	17.6	12.1	13.8	24.0	18.1	21.0
13	BIO 509	21.7	19.1	23.2	18.3	15.6	28.9	21.1	22.6	17.4	13.9	13.9	25.0	18.5	22.2
14	KNMH-4507	22.3	18.9	20.4	17.1	12.6	28.9	20.0	22.9	17.2	12.8	13.5	25.0	18.3	21.1
15	IMH1530	20.8	19.1	17.4	15.2	14.8	28.9	19.3	22.9	17.0	12.8	13.2	23.7	17.9	21.1
16	AMH-3435	17.8	18.4	20.9	17.4	14.1	26.9	19.2	22.6	17.8	13.8	14.4	24.6	18.6	21.3
17	MMH-4-15	16.7	18.7	15.9	15.4	13.8	27.0	17.9	22.4	17.6	12.7	14.3	23.6	18.1	20.0
18	UDMH-127	20.3	17.7	23.5	14.5	14.5	24.9	19.2	22.7	18.1	14.7	15.1	23.7	18.9	21.0
19	NMH 109	19.9	19.7	23.1	15.5	14.6	27.1	20.0	22.6	17.4	12.7	14.5	24.1	18.2	21.7
20	PMSY3	18.9	19.3	23.5	15.5	14.0	28.0	19.8	22.8	17.8	14.2	16.4	24.4	19.1	21.3
21	CMH11-620	20.3	14.4	23.6	17.2	13.2	29.0	19.6	22.4	17.2	14.7	15.5	25.9	19.1	21.3
22	LMH 915	21.0	19.9	22.9	15.4	13.3	28.0	20.1	23.1	17.6	13.3	14.7	23.4	18.4	21.0
23	JKMH 4103	21.8	16.0	23.5	17.0	13.1	27.0	19.7	22.7	17.6	13.9	14.5	25.0	18.7	20.7
24	RCRMH1	18.6	17.9	19.3	16.4	14.2	27.9	19.0	23.0	17.5	14.4	15.6	25.2	19.1	21.5
25	LMH 615	20.6	13.5	20.7	15.7	13.6	27.3	18.6	22.8	18.0	14.5	13.5	24.7	18.7	20.5
26	JKMH 4333	19.8	18.3	20.9	16.6	15.8	24.5	19.3	22.7	17.7	13.0	14.3	25.0	18.5	21.1
27	LMH 815	20.2	17.0	22.7	15.8	14.1	26.0	19.3	22.2	17.3	13.9	15.4	24.3	18.6	20.9
28	OMH 14-64	19.2	15.1	21.3	15.5	14.1	28.7	19.0	23.2	17.2	13.7	14.8	24.1	18.6	21.3

Table No. 3 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST													
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	JHAB	CWZ Mean	OV'L Mean
29	Mahabeej-1302	20.8	18.3	18.4	17.3	16.1	29.5	20.0	22.9	17.4	13.5	14.3	24.7	18.5	21.7
30	IIMRNH 2015-1	22.2	15.7	21.0	15.6	14.0	23.8	18.7	22.3	17.4	14.9	14.2	23.6	18.5	20.4
31	CMH12-699	20.9	19.6	23.5	16.8	13.4	28.9	20.5	22.1	17.9	15.6	14.6	25.0	19.0	22.1
32	IIMRNH 2015-2	20.3	17.2	20.8	16.3	13.1	26.1	19.0	23.3	17.5	14.8	16.2	25.3	19.4	21.0
33	IMH1525	21.9	17.7	18.3	15.8	14.5	28.2	19.4	23.4	17.6	12.7	14.3	24.9	18.6	21.1
34	BRM 12-3	20.5	19.0	22.2	16.1	14.3	28.0	20.0	22.9	17.6	13.2	15.3	24.9	18.7	21.3
35	MMH-3-15	19.5	17.9	23.4	15.7	15.4	25.9	19.6	22.9	17.8	14.0	14.5	23.8	18.6	20.8
36	DAS-MH-309	19.5	14.9	23.6	17.9	15.1	28.7	19.9	23.0	17.6	15.1	16.1	24.3	19.2	22.0
37	NMH-3746	23.6	16.6	23.3	17.7	14.3	29.0	20.7	23.3	17.4	12.2	16.2	24.6	18.8	22.0
38	PROLINE-511	23.0	13.4	17.3	17.0	15.5	26.1	18.7	23.1	18.0	13.7	15.5	24.1	18.9	21.1
39	BL 106	20.9	19.7	25.2	15.6	13.3	26.4	20.2	22.4	17.3	13.0	14.8	25.9	18.7	21.1
40	IIMRNH 2015-3	21.6	19.3	20.9	16.2	12.9	25.1	19.3	23.1	17.9	14.3	16.4	24.9	19.3	20.9
41	HM15206	22.1	19.9	23.5	17.9	15.2	17.6	19.3	22.9	17.9	12.6	15.5	24.4	18.6	21.1
	CHECKS														
42	HM-9	20.7	19.4	21.8	16.1	14.0	27.3	19.9	22.8	17.1	13.4	16.0	23.9	18.6	21.0
43	BIO-9637	19.8	17.2	23.3	16.8	15.6	29.0	20.3	23.0	17.8	14.0	16.4	24.0	19.0	21.3
44	PMH-4	17.7	21.4	22.3	15.7	13.8	25.5	19.4	22.3	17.7	12.7	14.3	24.9	18.4	21.0
	Loc. Mean	**20.3**	**17.8**	**21.6**	**16.4**	**14.3**	**27.0**	**19.6**	**22.8**	**17.5**	**13.7**	**14.8**	**24.5**	**18.7**	**21.2**
	C.D. (5%)	1.44	3.60	3.25	0.68	1.01	2.75	1.95	0.55	1.01	2.35	0.49	0.70	0.84	0.78
	C.V. (%)	4.38	12.43	9.25	2.51	4.38	6.30	8.76	1.50	3.56	10.59	2.04	1.75	3.63	6.34
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.41	0.00	0.00	0.02	0.00

Table No. 3 (Continued)

		STAND AT HARVEST ('000/ha)														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	71.3	75.7	79.5	47.9	68.6	75.7	58.9	71.5	56.7	65.7	48.3	58.3	65.3	74.3	61.6
2	JH 13347	68.5	71.5	72.0	50.0	65.5	77.8	57.2	72.2	56.7	66.0	48.3	59.0	69.4	67.4	61.0
3	KMH 13-5	68.5	70.8	73.2	52.1	66.2	84.7	56.7	71.5	54.4	66.8	49.4	61.1	65.3	73.6	62.4
4	KNMH-4505	65.7	70.8	75.8	41.7	63.5	80.6	60.0	69.4	56.7	66.7	51.1	59.7	70.1	70.8	63.0
5	HM15207	75.9	71.5	73.2	45.1	66.5	82.6	61.1	73.6	56.7	68.5	38.9	61.8	63.9	66.7	57.8
6	EH-2480	31.5	68.1	31.6	31.9	40.8	36.8	58.3	75.7	51.1	55.5	47.2	54.9	27.8	62.5	48.1
7	JH 13348	70.4	74.3	69.4	50.0	66.0	84.0	60.0	74.3	56.7	68.7	52.8	64.6	61.1	77.1	63.9
8	AH7007	64.8	69.4	72.0	48.6	63.7	82.6	60.6	71.5	56.7	67.8	40.0	62.5	65.3	75.0	60.7
9	SRIKAR 2079	60.2	70.8	75.8	50.0	64.2	77.1	58.9	73.6	56.7	66.6	53.9	59.0	64.6	64.6	60.5
10	IMH1526	75.9	68.1	78.3	47.9	67.5	79.9	60.6	71.5	56.7	67.2	44.4	61.8	64.6	81.3	63.0
11	PMSW4	70.4	68.8	69.4	47.2	63.9	77.8	60.0	72.9	56.7	66.8	46.7	62.5	70.1	66.7	61.5
12	EH-2233	58.3	67.4	70.7	46.5	60.7	80.6	60.0	76.4	56.7	68.4	50.0	60.4	67.4	67.4	61.3
13	BIO 509	67.6	70.1	70.7	47.9	64.1	81.9	56.1	69.4	56.7	66.0	45.0	57.6	67.4	72.9	60.7
14	KNMH-4507	69.4	68.1	74.5	43.1	63.8	75.0	57.8	71.5	56.7	65.2	46.7	61.1	65.3	63.9	59.2
15	IMH1530	63.0	66.0	78.3	44.4	62.9	78.5	60.6	79.2	56.1	68.6	46.1	59.0	63.2	75.0	60.8
16	AMH-3435	63.9	72.9	68.2	45.8	62.7	78.5	58.9	77.8	56.7	68.0	41.7	60.4	68.8	62.5	58.3
17	MMH-4-15	61.1	66.7	77.0	45.1	62.5	80.6	60.0	78.5	56.7	68.9	51.1	60.4	73.6	63.2	62.1
18	UDMH-127	59.3	66.0	69.4	37.5	58.0	77.8	58.3	79.2	56.7	68.0	45.6	59.0	61.8	73.6	60.0
19	NMH 109	70.4	66.0	77.0	44.4	64.5	82.6	61.1	72.9	56.7	68.3	43.9	60.4	65.3	59.7	57.3
20	PMSY3	70.4	69.4	69.4	50.0	64.8	78.5	59.4	69.4	56.7	66.0	44.4	61.8	70.8	59.7	59.2
21	CMH11-620	66.7	69.4	69.4	47.9	63.4	79.9	59.4	73.6	56.7	67.4	42.2	63.2	63.2	66.7	58.8
22	LMH 915	75.0	70.1	75.8	54.9	68.9	84.0	57.2	72.9	56.7	67.7	40.0	62.5	66.0	72.2	60.2
23	JKMH 4103	75.0	64.6	75.8	50.0	66.3	81.9	57.2	73.6	56.7	67.4	46.1	58.3	70.8	68.1	60.8
24	RCRMH1	69.4	71.5	72.0	50.7	65.9	81.9	57.2	73.6	56.7	67.4	50.6	59.0	66.0	67.4	60.7
25	LMH 615	71.3	76.4	69.4	38.9	64.0	79.2	61.1	76.4	56.7	68.3	60.0	62.5	66.0	61.1	62.4
26	JKMH 4333	70.4	70.8	75.8	52.8	67.4	86.8	57.8	77.1	56.7	69.6	51.7	61.1	66.0	66.7	61.4
27	LMH 815	69.4	67.4	69.4	52.1	64.6	79.9	61.1	75.7	56.7	68.3	50.0	63.2	68.1	72.2	63.4
28	OMH 14-64	67.6	72.2	77.0	47.9	66.2	79.2	60.0	73.6	56.7	67.4	50.6	61.8	65.3	70.1	61.9

Table No. 3 (Continued)

		STAND AT HARVEST ('000/ha)														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	65.7	72.9	74.5	50.0	65.8	79.2	59.4	77.1	56.7	68.1	35.0	57.6	65.3	70.8	57.2
30	IIMRNH 2015-1	63.9	72.9	75.8	49.3	65.5	79.9	60.0	77.1	56.7	68.4	42.2	61.8	71.5	72.2	61.9
31	CMH12-699	63.9	67.4	77.0	49.3	64.4	84.7	60.6	77.1	56.7	69.8	47.2	58.3	68.1	70.8	61.1
32	IIMRNH 2015-2	62.0	69.4	72.0	56.3	64.9	80.6	59.4	79.9	56.7	69.1	41.1	56.3	69.4	68.1	58.7
33	IMH1525	66.7	69.4	69.4	50.0	63.9	76.4	59.4	80.6	56.7	68.3	42.8	62.5	66.7	66.0	59.5
34	BRM 12-3	75.9	72.2	75.8	48.6	68.1	86.1	59.4	73.6	56.7	69.0	49.4	58.3	63.9	61.1	58.2
35	MMH-3-15	62.0	70.1	69.4	49.3	62.7	75.7	60.0	77.1	56.7	67.4	48.3	59.7	64.6	61.1	58.4
36	DAS-MH-309	68.5	63.9	74.5	47.2	63.5	81.9	58.9	77.1	56.1	68.5	46.7	57.6	66.7	68.1	59.8
37	NMH-3746	63.9	63.9	70.7	54.9	63.3	70.8	57.2	77.1	56.1	65.3	45.6	59.0	57.6	66.7	57.2
38	PROLINE-511	67.6	70.8	69.4	50.7	64.6	82.6	57.2	79.9	56.7	69.1	47.2	55.6	61.8	74.3	59.7
39	BL 106	53.7	72.9	66.9	40.3	58.5	78.5	59.4	80.6	56.7	68.8	47.8	58.3	67.4	69.4	60.7
40	IIMRNH 2015-3	61.1	69.4	69.4	43.8	60.9	80.6	58.9	79.2	56.7	68.8	58.9	58.3	70.8	66.7	63.7
41	HM15206	60.2	70.8	75.8	43.1	62.5	75.7	60.6	77.8	56.7	67.7	45.6	61.8	59.0	66.0	58.1
	CHECKS															
42	HM-9	68.5	71.5	74.5	42.4	64.2	83.3	58.9	73.6	56.7	68.1	50.6	60.4	66.7	63.2	60.2
43	BIO-9637	67.6	70.8	72.0	47.2	64.4	86.1	60.0	72.9	56.7	68.9	38.9	60.4	72.9	62.5	58.7
44	PMH-4	67.6	72.2	70.7	49.3	65.0	73.6	57.8	71.5	56.7	64.9	48.9	59.0	66.0	67.4	60.3
	Loc. Mean	**66.1**	**69.9**	**72.0**	**47.4**	**63.9**	**79.1**	**59.2**	**75.0**	**56.5**	**67.4**	**46.9**	**60.1**	**65.5**	**68.1**	**60.1**
	C.D. (5%)	7.54	4.31	6.19	8.48	6.39	7.62	3.62	5.92	1.13	5.58	12.13	6.29	7.19	7.12	6.91
	C.V. (%)	7.03	3.80	5.29	11.03	7.15	5.93	3.77	4.86	1.24	5.91	15.94	6.45	6.77	6.44	8.21
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.00	0.00	0.20	0.14	0.62	0.00	0.00	0.36

Table No. 3 (Continued)

		STAND AT HARVEST ('000/ha)														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KNMH-4501	50.0	63.9	76.4	63.7	53.5	65.3	62.1	61.8	62.5	60.0	68.3	79.2	53.3	64.2	64.2
2	JH 13347	53.9	66.1	76.4	60.1	60.4	66.7	63.9	63.2	60.4	60.6	65.0	83.3	67.3	66.6	64.7
3	KMH 13-5	54.4	53.3	70.8	61.9	51.4	66.7	59.8	62.5	61.8	55.6	60.0	78.5	54.6	62.2	63.0
4	KNMH-4505	55.0	58.3	74.3	61.3	49.3	66.7	60.8	61.8	55.6	58.3	63.3	68.8	57.8	60.9	62.6
5	HM15207	55.0	61.7	73.6	65.5	55.6	66.7	63.0	63.2	54.2	65.6	76.1	77.1	47.0	63.8	63.8
6	EH-2480	58.3	30.6	59.0	-	21.5	65.3	46.9	61.8	66.7	31.1	50.0	82.6	38.1	55.1	49.7
7	JH 13348	60.6	61.7	73.6	66.1	56.3	66.7	64.1	63.2	56.9	64.4	77.2	77.1	67.3	67.7	66.1
8	AH7007	56.7	55.6	79.9	59.5	56.3	66.0	62.3	61.8	57.6	55.6	51.7	82.6	57.8	61.2	62.9
9	SRIKAR 2079	56.1	57.8	72.2	58.3	54.2	66.0	60.8	61.8	61.1	55.0	61.7	81.9	59.7	63.5	63.0
10	IMH1526	53.9	61.7	73.6	63.7	54.2	66.7	62.3	63.2	59.7	63.3	68.9	81.9	58.4	65.9	65.0
11	PMSW4	56.7	51.1	66.7	65.5	53.5	66.0	59.9	61.8	62.5	62.2	65.0	82.6	52.1	64.4	63.1
12	EH-2233	49.4	58.9	70.8	63.1	56.9	66.7	61.0	61.8	53.5	58.9	57.2	81.9	48.9	60.4	62.1
13	BIO 509	56.1	58.3	74.3	61.9	61.1	66.0	63.0	61.8	56.3	62.8	73.9	81.3	54.6	65.1	63.8
14	KNMH-4507	55.0	51.1	70.8	61.9	57.6	65.3	60.3	63.2	59.7	51.1	62.2	68.8	52.7	59.6	61.4
15	IMH1530	57.2	56.1	67.4	59.5	61.1	66.7	61.3	62.5	58.3	63.9	65.6	81.9	47.0	63.2	63.2
16	AMH-3435	52.2	52.8	73.6	66.1	61.1	66.0	62.0	61.8	56.9	63.3	85.0	79.2	66.0	68.7	64.2
17	MMH-4-15	55.6	55.0	71.5	62.5	56.9	65.3	61.1	61.8	56.9	62.8	58.3	79.2	53.3	62.1	63.0
18	UDMH-127	48.3	48.3	70.1	61.3	55.6	65.3	58.2	63.2	48.6	60.6	50.6	79.2	49.5	58.6	60.2
19	NMH 109	53.9	53.3	61.8	60.7	51.4	66.0	57.9	61.8	56.3	57.8	58.3	80.6	55.9	61.8	61.6
20	PMSY3	57.2	53.3	79.2	60.7	54.2	66.7	61.9	61.8	60.4	61.7	56.1	81.9	54.6	62.8	62.8
21	CMH11-620	52.2	51.1	77.8	65.5	51.4	66.0	60.7	63.2	64.6	61.7	72.2	64.6	50.2	62.7	62.4
22	LMH 915	63.3	54.4	76.4	63.7	54.2	66.7	63.1	61.8	58.3	65.6	68.9	81.3	54.0	65.0	64.8
23	JKMH 4103	61.1	55.6	70.8	61.3	55.6	66.7	61.8	63.2	55.6	65.6	68.3	56.3	57.8	61.1	63.2
24	RCRMH1	60.6	60.0	73.6	65.5	55.6	66.0	63.5	61.8	61.8	66.1	73.9	79.9	65.4	68.1	65.3
25	LMH 615	54.4	56.7	68.8	61.9	52.1	65.3	59.9	62.5	62.5	55.6	71.7	70.8	66.7	65.0	63.7
26	JKMH 4333	61.7	66.1	72.2	61.9	57.6	66.7	64.4	63.2	63.2	63.3	70.6	39.6	59.7	59.9	64.1
27	LMH 815	56.7	53.3	75.0	63.7	55.6	66.0	61.7	61.8	52.8	58.9	61.1	77.1	55.9	61.3	63.5
28	OMH 14-64	61.1	59.4	75.7	66.1	56.3	66.0	64.1	61.8	56.9	62.2	73.9	78.5	62.9	66.0	65.1

Table No. 3 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
29	Mahabeej-1302	53.3	52.2	73.6	64.9	54.2	66.0	60.7	63.2	67.4	55.6	63.3	79.9	48.9	63.0	62.8
30	IIMRNH 2015-1	58.9	61.1	76.4	64.3	58.3	66.0	64.2	61.8	56.3	62.8	52.2	81.3	59.7	62.3	64.3
31	CMH12-699	49.4	64.4	69.4	63.7	56.3	65.3	61.4	63.2	56.9	63.3	61.7	82.6	62.2	65.0	64.1
32	IIMRNH 2015-2	60.6	61.7	72.2	62.5	54.9	66.0	63.0	63.2	63.2	60.6	75.6	77.8	62.2	67.1	64.6
33	IMH1525	61.1	54.4	70.1	64.9	54.9	66.7	62.0	62.5	54.2	61.1	61.1	81.9	61.6	63.7	63.4
34	BRM 12-3	57.8	61.1	77.1	63.7	56.9	66.0	63.8	61.8	59.7	65.0	76.7	72.2	65.4	66.8	65.2
35	MMH-3-15	57.2	51.1	79.2	64.3	56.9	66.0	62.5	62.5	60.4	62.2	61.7	74.3	57.8	63.1	62.8
36	DAS-MH-309	57.2	63.3	70.8	63.1	58.3	65.3	63.0	63.2	56.3	56.7	80.0	81.9	57.8	66.0	64.2
37	NMH-3746	44.4	47.2	69.4	64.9	56.9	66.7	58.3	62.5	55.6	35.0	66.1	82.6	48.3	58.3	60.1
38	PROLINE-511	38.3	63.9	72.9	62.5	61.1	65.3	60.7	61.8	66.7	61.7	69.4	79.9	55.2	65.8	63.9
39	BL 106	58.9	60.0	67.4	65.5	58.3	65.3	62.6	61.8	64.6	63.9	70.0	82.6	54.0	66.1	63.5
40	IIMRNH 2015-3	55.0	56.1	70.8	63.1	56.3	66.7	61.3	63.2	56.9	62.2	62.8	77.8	54.6	62.9	63.3
41	HM15206	48.9	57.8	75.7	56.5	54.2	64.6	59.6	61.8	66.0	60.0	71.1	80.6	52.1	65.3	62.6
	CHECKS															
42	HM-9	60.6	60.0	77.8	63.7	55.6	66.0	63.9	61.8	52.8	63.9	59.4	81.3	54.6	62.3	63.6
43	BIO-9637	58.9	63.3	75.7	58.3	55.6	66.7	63.1	63.2	59.0	65.0	66.1	79.9	46.3	63.3	63.6
44	PMH-4	50.6	57.8	77.8	64.9	52.8	66.0	61.6	61.8	59.0	58.9	62.2	75.7	56.5	62.4	62.7
	Loc. Mean	**55.4**	**56.8**	**72.8**	**62.9**	**55.0**	**66.0**	**61.4**	**62.4**	**59.0**	**59.8**	**65.8**	**77.5**	**56.0**	**63.4**	**63.1**
	C.D. (5%)	7.34	3.41	10.99	5.42	7.80	1.54	4.58	2.19	9.09	7.03	9.90	5.60	11.28	6.94	2.69
	C.V. (%)	8.16	3.69	9.30	5.25	8.73	1.44	6.55	2.16	9.49	7.24	9.28	4.45	12.41	9.62	7.53
	F (Prob)	0.00	0.00	0.22	0.07	0.00	0.34	0.00	0.92	0.02	0.00	0.00	0.00	0.00	0.14	0.00

Table No. 3 (Continued)

		DAYS TO 50% POLLEN SHED														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	57.3	48.3	50.3	56.7	53.2	48.0	52.7	45.3	52.7	49.7	51.3	47.3	50.0	51.3	50.0
2	JH 13347	57.0	49.0	51.7	56.3	53.5	47.0	53.3	43.3	53.7	49.3	51.7	47.0	49.3	51.3	49.8
3	KMH 13-5	56.3	48.7	47.7	57.3	52.5	47.7	50.0	54.3	54.3	51.6	53.7	48.7	48.7	48.3	49.8
4	KNMH-4505	59.7	50.3	55.3	57.7	55.8	49.7	50.0	55.7	56.7	53.0	55.0	49.7	50.3	53.3	52.1
5	HM15207	58.3	49.0	52.3	57.3	54.3	48.7	52.0	50.3	51.3	50.6	55.3	48.0	51.0	51.3	51.4
6	EH-2480	64.3	51.7	55.7	58.0	57.4	50.7	52.7	47.3	59.3	52.5	56.7	48.0	53.3	56.3	53.6
7	JH 13348	58.3	48.3	52.7	58.0	54.3	49.7	51.7	45.3	51.0	49.4	54.3	45.0	51.7	53.7	51.2
8	AH7007	57.7	48.0	50.3	56.3	53.1	48.0	49.7	50.3	50.7	49.7	50.3	45.3	45.3	44.7	46.4
9	SRIKAR 2079	59.3	49.0	51.0	55.7	53.8	49.3	54.7	53.3	56.7	53.5	54.3	47.3	51.3	51.3	51.1
10	IMH1526	60.7	51.3	57.7	59.7	57.3	49.0	51.7	55.3	53.3	52.3	53.7	49.7	52.0	52.7	52.0
11	PMSW4	60.0	49.3	52.0	58.0	54.8	52.0	54.0	48.3	55.3	52.4	54.3	46.7	50.0	51.3	50.6
12	EH-2233	57.7	48.7	48.0	57.3	52.9	47.0	51.3	55.3	51.3	51.3	53.7	47.7	50.0	52.7	51.0
13	BIO 509	62.7	51.3	57.7	59.3	57.8	53.3	57.0	57.3	57.7	56.3	55.3	48.3	53.0	57.7	53.6
14	KNMH-4507	58.3	49.3	53.0	57.3	54.5	48.7	53.3	53.0	53.0	52.0	54.7	49.3	50.7	47.7	50.6
15	IMH1530	56.0	48.3	49.0	56.0	52.3	45.7	51.0	48.7	52.0	49.3	50.7	45.0	47.7	46.7	47.5
16	AMH-3435	64.0	53.0	59.7	60.0	59.2	48.3	57.7	46.7	56.7	52.3	51.3	48.0	55.3	56.3	52.8
17	MMH-4-15	60.0	48.0	51.7	57.7	54.3	47.7	55.3	50.0	52.0	51.3	44.0	49.0	48.3	50.3	47.9
18	UDMH-127	62.7	51.3	56.3	57.7	57.0	51.0	56.3	53.3	54.3	53.8	56.0	48.0	55.7	54.7	53.6
19	NMH 109	60.3	49.0	53.0	57.7	55.0	49.7	49.7	45.3	54.7	49.8	55.3	47.7	51.7	52.3	51.8
20	PMSY3	59.7	48.3	52.3	58.3	54.7	49.3	51.0	43.3	52.7	49.1	54.0	50.3	51.3	56.0	52.9
21	CMH11-620	62.7	50.3	55.7	60.0	57.2	50.0	52.3	54.3	55.7	53.1	55.0	49.0	54.0	51.7	52.4
22	LMH 915	57.7	48.7	51.3	58.0	53.9	49.3	53.7	55.7	54.3	53.3	53.3	50.3	51.0	49.3	51.0
23	JKMH 4103	57.3	48.7	55.0	59.3	55.1	47.7	52.3	43.3	52.0	48.8	52.7	48.0	49.0	44.3	48.5
24	RCRMH1	60.0	51.7	56.7	59.7	57.0	52.0	55.0	57.3	54.7	54.8	56.0	46.3	52.7	58.0	53.3
25	LMH 615	60.0	48.7	55.3	59.3	55.8	47.7	50.3	45.7	52.3	49.0	52.7	49.0	50.7	52.7	51.3
26	JKMH 4333	59.0	50.7	56.0	60.3	56.5	51.7	49.7	48.3	53.3	50.8	54.7	46.0	52.7	54.7	52.0
27	LMH 815	57.7	49.0	53.3	57.0	54.3	48.3	53.3	53.0	52.0	51.7	48.0	44.0	54.7	45.3	48.0
28	OMH 14-64	65.7	50.7	56.3	59.3	58.0	52.0	53.3	55.0	56.3	54.2	56.0	47.0	55.3	57.7	54.0

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	64.3	50.3	56.7	60.0	57.8	52.7	54.3	51.7	57.0	53.9	56.0	47.3	53.7	56.7	53.4
30	IIMRNH 2015-1	58.7	48.0	53.3	57.7	54.4	46.0	53.0	54.3	51.3	51.2	49.3	47.0	47.0	48.0	47.8
31	CMH12-699	64.0	51.7	56.7	59.0	57.8	51.7	54.3	51.7	57.3	53.8	56.3	49.0	54.3	53.3	53.3
32	IIMRNH 2015-2	59.7	50.3	55.3	57.3	55.7	49.7	52.3	53.0	55.3	52.6	54.3	49.0	52.0	54.7	52.5
33	IMH1525	59.3	48.3	54.3	57.3	54.8	47.7	48.3	53.3	54.0	50.8	53.0	48.0	50.3	52.3	50.9
34	BRM 12-3	65.7	51.7	59.7	61.0	59.5	50.7	59.7	55.0	58.3	55.9	56.0	48.7	56.3	58.3	54.8
35	MMH-3-15	56.7	48.3	51.7	60.0	54.2	46.7	52.3	51.7	50.3	50.3	51.7	44.0	49.7	50.3	48.9
36	DAS-MH-309	60.7	51.3	56.3	60.7	57.3	51.7	50.0	54.3	60.0	54.0	54.7	50.3	52.7	50.3	52.0
37	NMH-3746	60.3	51.3	57.0	58.3	56.8	50.3	57.3	51.7	54.0	53.3	55.0	48.0	53.0	56.0	53.0
38	PROLINE-511	59.0	52.0	54.3	57.7	55.8	51.7	54.0	53.0	54.3	53.3	56.0	47.7	52.7	53.3	52.4
39	BL 106	57.3	49.0	51.3	57.0	53.7	47.3	49.7	53.3	52.7	50.8	55.3	48.0	50.0	48.3	50.4
40	IIMRNH 2015-3	57.3	48.0	50.7	57.7	53.4	48.7	53.3	48.7	51.0	50.4	49.7	47.0	48.7	45.3	47.7
41	HM15206	59.7	49.3	56.3	58.7	56.0	49.7	52.0	46.7	53.7	50.5	54.7	47.7	51.7	49.3	50.8
	CHECKS															
42	HM-9	59.3	48.0	55.3	59.0	55.4	47.3	51.7	54.3	51.7	51.3	54.7	43.0	49.7	51.3	49.7
43	BIO-9637	58.0	48.7	53.0	58.3	54.5	49.3	49.7	55.7	52.3	51.8	54.7	48.0	52.0	52.3	51.8
44	PMH-4	57.3	48.0	50.0	56.0	52.8	47.0	51.3	50.3	52.0	50.2	53.3	46.0	50.0	47.3	49.2
	Loc. Mean	**59.7**	**49.6**	**53.8**	**58.2**	**55.3**	**49.3**	**52.7**	**51.2**	**54.0**	**51.8**	**53.6**	**47.6**	**51.4**	**51.8**	**51.1**
	C.D. (5%)	2.35	0.77	1.60	2.92	1.87	2.93	0.77	1.72	2.46	3.36	5.45	1.75	1.43	1.75	2.87
	C.V. (%)	2.42	0.95	1.83	3.10	2.41	3.66	0.91	2.07	2.80	4.64	6.26	2.26	1.72	2.08	4.02
	F (Prob)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

		DAYS TO 50% POLLEN SHED														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KNMH-4501	54.3	52.7	54.0	47.7	48.0	48.3	50.8	54.3	49.0	56.7	54.0	51.3	52.7	53.0	51.4
2	JH 13347	53.0	52.0	51.0	48.0	48.3	46.3	49.8	54.7	48.0	55.7	52.0	53.3	52.0	52.6	51.0
3	KMH 13-5	53.3	51.0	54.0	46.7	48.3	46.3	49.9	53.0	47.3	56.3	55.0	54.0	52.0	52.9	51.4
4	KNMH-4505	54.7	52.7	56.0	49.3	48.7	48.7	51.7	54.0	48.7	58.0	52.0	52.7	53.0	53.1	53.0
5	HM15207	54.7	52.7	57.3	51.3	48.0	49.0	52.2	53.7	49.3	58.0	53.3	52.0	53.0	53.2	52.4
6	EH-2480	56.3	52.7	57.7	-	49.0	52.0	53.5	60.7	50.0	57.0	58.0	53.0	54.0	55.4	54.5
7	JH 13348	57.0	53.0	53.7	50.0	48.3	48.0	51.7	55.0	49.7	57.0	50.0	52.7	52.3	52.8	51.9
8	AH7007	51.7	49.3	51.7	44.0	46.7	44.7	48.0	51.7	40.7	55.0	46.3	53.0	48.0	49.1	49.1
9	SRIKAR 2079	55.0	52.7	55.7	47.3	48.3	48.0	51.2	53.3	51.0	56.3	50.0	52.0	53.0	52.6	52.3
10	IMH1526	57.7	53.0	54.3	52.3	48.3	52.7	53.1	55.7	51.0	56.3	58.0	54.0	55.3	55.1	54.0
11	PMSW4	55.0	52.7	54.7	48.3	48.7	46.7	51.0	56.3	49.3	57.3	54.3	52.7	52.0	53.7	52.5
12	EH-2233	53.3	52.3	53.0	47.7	47.7	50.0	50.7	54.0	44.0	56.7	48.0	53.0	51.7	51.2	51.3
13	BIO 509	59.0	52.3	56.0	50.7	49.3	51.0	53.1	58.3	49.3	59.0	54.3	54.0	53.7	54.8	54.9
14	KNMH-4507	56.0	52.7	54.7	49.7	48.3	48.7	51.7	53.7	47.0	56.7	55.0	52.7	53.7	53.1	52.4
15	IMH1530	54.0	52.0	51.0	46.0	48.3	46.0	49.6	52.3	46.3	56.7	49.0	52.0	51.3	51.3	50.1
16	AMH-3435	59.0	52.7	58.7	53.3	50.7	54.0	54.7	62.3	49.3	58.0	58.0	52.0	57.7	56.2	55.1
17	MMH-4-15	53.3	51.0	52.7	47.3	47.3	48.7	50.1	54.0	46.0	57.7	51.0	53.0	50.3	52.0	51.1
18	UDMH-127	58.7	52.3	57.0	52.7	49.3	52.0	53.7	60.0	49.3	58.3	59.3	53.3	53.7	55.7	54.7
19	NMH 109	55.3	52.7	55.3	49.3	49.0	50.0	51.9	55.0	47.3	56.7	53.0	55.0	52.0	53.2	52.4
20	PMSY3	54.3	52.3	53.7	48.7	47.3	47.0	50.6	56.0	48.7	57.7	51.3	53.0	51.3	53.0	52.0
21	CMH11-620	57.7	53.0	56.0	51.7	47.7	51.3	52.9	59.3	49.7	57.0	53.7	53.3	55.3	54.7	54.0
22	LMH 915	54.0	50.7	50.7	46.0	47.0	45.7	49.0	61.7	47.0	56.3	53.0	53.0	52.7	53.9	52.1
23	JKMH 4103	53.0	53.7	52.7	49.7	48.3	47.3	50.8	53.0	50.3	56.0	53.0	52.0	52.3	52.8	51.3
24	RCRMH1	57.7	52.3	57.7	52.3	49.0	52.0	53.5	56.0	48.0	56.3	57.3	52.3	53.7	53.9	54.4
25	LMH 615	55.7	52.0	55.0	50.3	48.3	48.7	51.7	56.3	45.0	57.0	51.0	53.7	52.0	52.5	52.1
26	JKMH 4333	54.7	52.7	55.3	52.3	48.7	51.0	52.4	55.7	50.3	56.3	51.3	52.3	54.3	53.4	53.0
27	LMH 815	54.7	52.3	54.0	48.7	48.0	48.0	50.9	53.7	47.3	55.7	54.0	52.0	52.7	52.6	51.5
28	OMH 14-64	58.7	52.3	55.7	52.7	50.0	52.7	53.7	59.7	49.0	58.7	55.3	51.3	55.7	54.9	54.8

Table No. 3 (Continued)

		DAYS TO 50% POLLEN SHED														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
29	Mahabeej-1302	57.7	52.3	58.0	52.3	48.3	52.3	53.5	57.0	52.3	59.0	57.0	55.3	54.0	55.8	54.8
30	IIMRNH 2015-1	53.0	50.7	53.3	46.3	47.3	44.0	49.1	53.7	48.0	56.3	48.0	52.3	51.0	51.6	50.7
31	CMH12-699	57.0	52.7	56.0	50.7	49.0	51.3	52.8	57.0	49.3	57.7	57.0	55.3	54.3	55.1	54.4
32	IIMRNH 2015-2	56.0	52.7	55.0	50.7	48.0	50.3	52.1	55.3	49.0	57.0	56.0	53.3	53.7	54.1	53.3
33	IMH1525	55.7	52.3	54.3	49.7	47.3	49.0	51.4	53.3	48.7	56.7	57.0	55.0	52.3	53.8	52.4
34	BRM 12-3	59.0	52.7	56.3	53.0	47.7	54.7	53.9	61.3	49.3	58.7	58.0	53.3	55.7	56.1	55.9
35	MMH-3-15	54.0	52.3	52.3	48.3	47.7	45.3	50.0	53.7	49.3	56.0	50.0	51.0	52.3	52.1	51.1
36	DAS-MH-309	56.7	52.7	55.7	50.7	48.7	49.3	52.3	59.7	47.3	57.7	55.0	52.0	54.3	54.3	53.9
37	NMH-3746	58.0	53.0	57.7	52.3	48.7	52.0	53.6	54.0	49.3	58.7	62.0	53.0	55.0	55.3	54.4
38	PROLINE-511	58.0	52.3	53.7	50.0	49.0	48.7	51.9	56.0	47.0	56.7	53.0	55.7	53.7	53.7	53.3
39	BL 106	54.3	54.0	52.7	49.3	48.7	49.0	51.3	54.0	47.3	56.3	55.7	52.0	52.7	53.0	51.9
40	IIMRNH 2015-3	53.7	51.3	53.3	47.3	47.7	45.7	49.8	54.0	46.0	56.7	50.0	54.0	51.0	51.9	50.7
41	HM15206	55.0	52.7	55.3	52.0	49.0	50.3	52.4	56.3	48.3	57.7	55.3	52.0	54.0	53.9	52.8
	CHECKS															
42	HM-9	55.7	52.3	53.0	47.0	48.7	47.0	50.6	55.0	50.3	56.7	53.0	54.3	52.7	53.7	52.1
43	BIO-9637	54.0	52.3	53.3	48.3	48.3	47.7	50.7	56.0	49.3	57.7	54.0	52.0	52.0	53.5	52.4
44	PMH-4	54.0	52.3	52.0	48.3	48.7	45.3	50.1	53.7	50.0	56.3	50.3	51.0	50.3	51.9	50.9
	Loc. Mean	**55.5**	**52.3**	**54.6**	**49.5**	**48.4**	**49.0**	**51.6**	**55.8**	**48.4**	**57.0**	**53.7**	**53.0**	**53.0**	**53.5**	**52.6**
	C.D. (5%)	1.61	1.26	2.95	1.31	1.10	1.03	1.37	1.12	1.60	1.23	1.06	1.76	1.88	1.97	1.00
	C.V. (%)	1.79	1.49	3.33	1.61	1.41	1.30	2.33	1.24	2.03	1.33	1.22	2.05	2.19	3.24	3.35
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

		DAYS TO 50% SILKING														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	59.3	52.0	53.7	58.3	55.8	49.3	55.3	52.3	55.7	53.2	54.0	50.0	54.0	53.3	52.8
2	JH 13347	59.3	52.0	55.0	58.3	56.2	48.3	55.3	50.3	56.7	52.7	54.3	50.0	52.3	53.3	52.5
3	KMH 13-5	58.3	51.7	51.7	59.3	55.3	49.0	52.0	54.0	57.0	53.0	57.0	51.7	53.3	50.3	53.1
4	KNMH-4505	62.0	54.3	59.3	60.3	59.0	51.3	52.7	57.3	59.0	55.1	56.7	52.7	55.3	55.3	55.0
5	HM15207	60.7	52.7	55.7	59.3	57.1	50.0	54.0	48.3	54.3	51.7	58.0	51.0	55.3	53.3	54.4
6	EH-2480	66.7	55.3	58.7	60.3	60.3	51.7	54.7	50.3	62.0	54.7	59.0	51.0	57.3	58.3	56.4
7	JH 13348	60.3	51.3	56.0	60.7	57.1	51.0	53.7	49.3	53.7	51.9	57.0	48.0	56.0	55.7	54.2
8	AH7007	59.7	51.0	53.7	58.7	55.8	49.0	51.7	54.3	53.0	52.0	53.7	48.3	50.0	46.7	49.7
9	SRIKAR 2079	61.3	52.0	54.3	58.3	56.5	50.3	56.7	56.3	59.0	55.6	57.0	50.3	56.7	53.3	54.3
10	IMH1526	62.7	55.0	61.7	61.7	60.3	49.7	53.7	59.7	56.3	54.8	58.0	52.7	55.7	54.7	55.3
11	PMSW4	62.0	53.3	55.3	60.0	57.7	54.0	56.0	52.3	58.3	55.2	56.7	49.3	56.3	53.3	53.9
12	EH-2233	59.7	51.7	51.0	59.3	55.4	48.3	53.3	59.3	54.0	53.8	56.3	50.7	55.3	54.7	54.3
13	BIO 509	64.7	55.3	61.3	61.0	60.6	55.0	59.0	61.0	60.7	58.9	58.0	51.3	58.0	59.7	56.8
14	KNMH-4507	60.3	52.3	56.0	59.7	57.1	50.0	55.3	56.3	56.0	54.4	57.3	52.0	55.3	49.7	53.6
15	IMH1530	58.0	51.3	52.7	58.3	55.1	46.7	53.7	52.3	55.0	51.9	54.0	48.0	52.0	48.7	50.7
16	AMH-3435	66.0	56.7	63.3	62.0	62.0	50.0	59.7	50.3	59.7	54.9	60.0	51.0	60.0	58.3	57.3
17	MMH-4-15	62.0	51.3	55.3	59.7	57.1	49.7	57.3	54.0	55.0	54.0	54.0	52.0	53.3	52.3	52.9
18	UDMH-127	64.7	55.3	59.3	59.0	59.6	53.0	58.3	57.3	57.3	56.5	58.0	50.7	58.3	56.7	55.9
19	NMH 109	62.3	52.3	56.7	59.7	57.8	51.3	51.7	48.3	57.3	52.2	58.3	50.7	57.0	54.3	55.1
20	PMSY3	62.0	51.7	56.0	60.3	57.5	51.0	53.7	53.0	55.7	53.3	56.7	53.3	56.3	58.0	56.1
21	CMH11-620	65.0	54.0	59.0	62.0	60.0	51.3	54.3	55.0	58.3	54.8	56.7	51.7	57.0	53.7	54.8
22	LMH 915	60.0	52.0	55.7	60.0	56.9	51.0	56.3	51.7	57.3	54.1	57.3	53.3	57.3	51.3	54.8
23	JKMH 4103	59.3	52.0	59.0	61.7	58.0	48.3	54.3	46.3	54.7	50.9	55.7	51.0	52.0	46.3	51.3
24	RCRMH1	62.0	55.7	59.7	61.7	59.8	53.7	57.7	61.3	57.7	57.6	57.0	49.0	57.3	60.0	55.8
25	LMH 615	62.0	51.7	58.3	61.3	58.3	49.0	53.0	50.3	55.0	51.8	55.3	52.0	54.3	54.7	54.1
26	JKMH 4333	61.0	54.0	59.7	62.3	59.3	53.0	52.3	51.3	56.3	53.3	57.7	49.0	56.3	56.7	54.9
27	LMH 815	59.7	52.0	57.3	59.3	57.1	49.3	55.3	56.7	55.0	54.1	58.0	47.0	56.3	47.3	52.2
28	OMH 14-64	67.7	54.7	59.7	61.7	60.9	53.7	55.3	58.3	59.3	56.7	59.7	50.0	61.0	59.7	57.6

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	66.3	54.0	60.7	62.0	60.8	54.7	56.3	55.0	59.3	56.3	58.3	50.3	58.0	58.7	56.3
30	IIMRNH 2015-1	60.7	51.3	57.3	60.0	57.3	47.7	55.0	57.7	53.7	53.5	57.0	50.0	50.7	50.0	51.9
31	CMH12-699	66.0	55.7	59.7	61.3	60.7	53.0	56.3	55.3	60.3	56.3	59.0	52.0	58.3	55.3	56.2
32	IIMRNH 2015-2	62.0	54.0	59.3	59.3	58.7	51.3	54.3	57.0	58.3	55.3	56.7	52.3	57.0	56.7	55.7
33	IMH1525	61.3	51.3	58.3	59.7	57.7	49.3	50.3	56.7	56.7	53.3	56.3	51.0	54.7	54.3	54.1
34	BRM 12-3	68.0	55.7	63.7	63.3	62.7	52.3	62.0	58.3	61.3	58.5	59.7	51.7	61.3	60.3	58.3
35	MMH-3-15	58.7	51.3	56.0	62.3	57.1	48.0	55.0	55.0	53.0	52.8	55.7	47.0	53.7	52.3	52.2
36	DAS-MH-309	62.7	55.0	59.7	62.7	60.0	53.0	52.7	57.7	63.0	56.6	57.3	53.0	57.0	52.3	54.9
37	NMH-3746	62.3	55.3	60.7	61.0	59.8	52.0	59.3	55.3	56.7	55.8	57.3	51.0	57.7	58.0	56.0
38	PROLINE-511	61.3	55.7	57.7	59.7	58.6	53.0	56.0	57.0	57.3	55.8	58.7	50.7	56.7	55.3	55.3
39	BL 106	59.3	52.0	54.7	59.0	56.3	48.7	52.3	56.7	55.7	53.3	57.3	51.0	54.7	50.3	53.3
40	IIMRNH 2015-3	59.3	51.0	54.0	60.0	56.1	49.7	55.3	52.3	54.0	52.8	56.7	50.0	52.0	47.3	51.5
41	HM15206	62.0	52.3	59.3	60.7	58.6	50.7	54.7	50.3	56.7	53.1	56.0	50.7	55.7	51.3	53.4
	CHECKS															
42	HM-9	61.7	51.3	58.7	61.3	58.3	48.7	53.7	55.0	54.3	52.9	57.7	46.0	55.0	53.3	53.0
43	BIO-9637	60.0	52.0	56.3	60.3	57.2	50.7	51.7	51.7	55.3	52.3	56.3	51.0	56.7	54.3	54.6
44	PMH-4	59.3	51.3	54.0	58.3	55.8	48.7	53.3	54.3	54.7	52.8	56.0	49.0	55.0	49.3	52.3
	Loc. Mean	**61.8**	**53.0**	**57.4**	**60.3**	**58.1**	**50.7**	**54.9**	**54.4**	**56.8**	**54.2**	**57.0**	**50.6**	**55.8**	**53.8**	**54.3**
	C.D. (5%)	2.34	0.89	1.59	2.78	1.90	3.08	0.94	1.42	2.49	3.06	2.46	1.84	1.80	1.75	2.65
	C.V. (%)	2.33	1.03	1.70	2.84	2.34	3.74	1.06	1.61	2.70	4.04	2.66	2.25	1.99	2.00	3.49
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

		DAYS TO 50% SILKING														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KNMH-4501	56.3	54.3	53.3	48.7	51.3	50.3	52.4	56.3	52.0	57.3	57.3	53.3	57.3	55.6	54.0
2	JH 13347	55.7	53.0	52.0	49.0	51.3	48.3	51.6	56.0	51.3	56.7	55.7	55.3	55.7	55.1	53.6
3	KMH 13-5	55.3	53.3	52.3	48.3	51.3	48.3	51.5	54.3	50.3	57.3	58.7	56.0	56.7	55.6	53.7
4	KNMH-4505	57.0	54.7	57.0	51.0	52.0	50.7	53.7	55.3	51.7	59.0	55.7	54.7	56.7	55.5	55.5
5	HM15207	56.3	54.7	57.0	52.7	51.0	51.7	53.9	55.7	52.3	59.0	56.3	54.0	58.7	56.0	54.7
6	EH-2480	58.3	54.7	58.0	-	52.0	54.7	55.5	62.0	53.0	58.0	61.0	55.0	58.7	57.9	57.0
7	JH 13348	59.0	54.7	55.3	51.7	51.3	50.0	53.7	56.3	52.7	57.7	53.0	54.7	55.7	55.0	54.4
8	AH7007	53.7	51.3	53.0	47.0	49.7	46.7	50.2	53.3	43.7	56.0	49.7	55.0	50.7	51.4	51.6
9	SRIKAR 2079	57.3	54.7	56.3	50.3	51.7	50.0	53.4	55.3	54.0	57.3	52.7	54.0	58.0	55.2	54.9
10	IMH1526	59.7	54.7	57.0	53.3	51.3	55.0	55.2	56.7	54.0	57.3	61.0	56.7	58.7	57.4	56.5
11	PMSW4	57.0	54.7	56.3	50.0	51.7	48.7	53.1	57.7	52.3	58.3	56.7	54.7	55.7	55.9	55.0
12	EH-2233	55.3	54.3	54.3	49.7	51.0	52.0	52.8	55.3	47.0	57.7	51.0	55.0	55.0	53.5	53.8
13	BIO 509	60.3	54.3	57.7	52.3	52.3	53.0	55.0	59.7	52.3	60.0	57.7	56.0	59.7	57.6	57.5
14	KNMH-4507	58.7	54.3	55.0	51.0	51.7	50.7	53.6	55.3	50.0	57.7	58.0	56.0	58.3	55.9	54.9
15	IMH1530	56.0	54.0	52.3	48.0	51.3	48.0	51.6	54.3	49.3	57.7	52.0	54.0	54.3	53.6	52.6
16	AMH-3435	61.0	54.7	58.7	56.0	53.7	56.0	56.7	63.3	52.3	59.0	61.3	54.0	61.0	58.5	57.8
17	MMH-4-15	55.3	53.3	56.7	49.7	50.7	50.7	52.7	55.3	49.0	58.7	54.3	55.0	54.0	54.4	54.1
18	UDMH-127	60.7	54.3	57.7	53.0	52.3	54.0	55.3	61.3	52.3	59.3	62.7	55.3	58.0	58.2	57.0
19	NMH 109	57.3	54.7	56.7	51.7	52.0	52.0	54.1	56.7	50.3	57.7	56.0	57.0	57.3	55.8	55.0
20	PMSY3	56.3	54.7	55.7	66.0	50.3	49.0	55.3	57.7	51.7	58.3	54.7	55.0	56.3	55.6	55.6
21	CMH11-620	59.3	54.7	58.7	53.0	50.7	53.3	54.9	60.7	52.7	58.0	57.0	55.3	59.7	57.2	56.3
22	LMH 915	56.3	53.0	53.0	49.0	50.3	47.7	51.6	62.7	50.0	57.3	56.3	55.0	56.7	56.3	54.6
23	JKMH 4103	55.0	54.7	52.7	51.0	51.7	49.3	52.4	54.3	54.0	57.0	55.7	54.0	55.7	55.1	53.6
24	RCRMH1	59.3	54.7	58.0	53.3	52.0	54.7	55.3	57.7	51.0	57.3	60.3	54.3	56.3	56.2	56.7
25	LMH 615	57.7	53.3	55.7	51.7	51.7	50.7	53.4	57.7	48.0	58.0	53.3	55.7	55.7	54.7	54.4
26	JKMH 4333	56.7	54.7	56.0	53.3	52.0	53.0	54.3	56.7	53.3	57.3	54.7	54.0	59.0	55.8	55.4
27	LMH 815	56.7	54.7	54.0	50.0	51.3	50.0	52.8	55.3	50.3	56.7	57.0	54.0	55.3	54.8	54.1
28	OMH 14-64	60.7	54.7	57.3	53.7	53.0	54.7	55.7	60.7	52.0	59.7	58.3	53.3	60.0	57.3	57.4

Table No. 3 (Continued)

		DAYS TO 50% SILKING														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
29	Mahabeej-1302	59.7	54.7	58.3	54.0	51.3	54.3	55.4	58.7	55.3	60.0	59.7	57.3	59.3	58.4	57.3
30	IIMRNH 2015-1	55.0	52.7	53.7	48.7	50.7	46.0	51.1	55.3	51.0	57.3	51.3	54.3	54.7	54.0	53.4
31	CMH12-699	59.0	54.7	58.0	52.0	52.0	53.3	54.8	58.7	52.3	58.7	60.7	57.3	57.3	57.5	56.9
32	IIMRNH 2015-2	58.0	54.3	56.3	53.3	51.0	52.3	54.2	56.7	52.0	58.0	59.0	55.3	57.3	56.4	55.9
33	IMH1525	58.7	55.0	57.3	51.3	50.7	51.0	54.0	55.3	51.7	57.7	60.0	57.0	57.0	56.4	55.1
34	BRM 12-3	61.0	54.7	57.3	55.7	51.0	56.7	56.1	62.7	52.3	59.7	61.7	55.3	61.7	58.9	58.6
35	MMH-3-15	56.3	54.7	54.3	49.3	50.7	47.3	52.1	55.3	52.7	57.0	53.7	53.0	58.0	54.9	53.8
36	DAS-MH-309	58.7	54.7	57.7	53.7	51.7	51.3	54.6	60.7	50.7	58.7	58.3	54.0	60.0	57.1	56.5
37	NMH-3746	59.7	54.7	58.0	54.0	51.7	54.0	55.3	55.3	52.3	59.7	65.0	55.0	59.7	57.8	56.9
38	PROLINE-511	59.7	54.7	55.3	52.3	52.0	50.7	54.1	57.0	50.0	57.7	55.3	57.7	59.3	56.2	55.9
39	BL 106	56.0	56.0	52.3	50.3	51.7	51.0	52.9	55.3	50.3	57.3	59.0	54.0	56.0	55.3	54.2
40	IIMRNH 2015-3	55.7	52.7	53.0	48.7	50.7	47.7	51.4	55.3	49.0	57.3	53.7	56.0	54.0	54.2	53.1
41	HM15206	57.0	54.7	56.7	53.0	52.0	52.3	54.3	57.7	51.7	58.7	58.7	53.7	57.0	56.2	55.1
	CHECKS															
42	HM-9	58.0	55.0	54.0	48.3	52.0	49.0	52.7	56.3	53.3	57.3	56.3	56.3	56.7	56.1	54.6
43	BIO-9637	56.0	54.3	54.7	50.0	51.7	49.7	52.7	57.3	52.7	58.7	57.3	55.3	55.0	56.1	54.5
44	PMH-4	56.0	54.0	53.7	50.3	52.0	47.3	52.2	55.3	53.0	57.3	53.3	53.0	54.7	54.4	53.5
	Loc. Mean	**57.6**	**54.3**	**55.6**	**51.6**	**51.5**	**51.1**	**53.6**	**57.2**	**51.4**	**58.0**	**56.8**	**55.0**	**57.1**	**55.9**	**55.2**
	C.D. (5%)	1.61	1.22	2.22	7.12	1.09	1.06	1.75	0.90	1.67	1.18	1.35	1.65	2.87	2.00	0.99
	C.V. (%)	1.72	1.39	2.45	8.40	1.31	1.28	2.86	0.97	2.00	1.25	1.47	1.84	3.09	3.14	3.18
	F (Prob)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK													
						NHZ				NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	101.0	95.0	89.3	113.3	99.7	87.0	81.7	93.3	87.3	83.7	87.0	81.3	82.7	83.7
2	JH 13347	99.0	95.0	90.7	113.3	99.5	87.3	81.3	91.3	86.7	84.0	88.0	87.0	79.7	84.7
3	KMH 13-5	103.3	94.3	89.7	114.3	100.4	84.7	80.7	89.7	85.0	84.3	88.3	82.0	77.7	83.1
4	KNMH-4505	103.0	97.3	95.0	115.3	102.7	90.3	85.7	92.0	89.3	87.7	90.7	90.7	84.3	88.3
5	HM15207	105.0	95.7	91.3	114.3	101.6	88.7	83.0	84.7	85.4	85.3	89.0	85.7	84.3	86.1
6	EH-2480	105.7	98.3	94.3	115.3	103.4	90.7	83.7	88.0	87.4	86.7	89.0	85.3	80.7	85.4
7	JH 13348	103.7	94.3	91.7	115.7	101.3	92.0	89.3	87.3	89.6	84.0	88.0	87.7	80.7	85.1
8	AH7007	102.3	94.0	89.3	113.7	99.8	84.0	81.0	90.7	85.2	81.0	87.0	79.0	77.7	81.2
9	SRIKAR 2079	102.7	95.0	90.0	113.3	100.3	89.7	84.3	90.0	88.0	83.7	89.0	88.0	78.7	84.8
10	IMH1526	106.3	97.7	98.7	116.7	104.8	92.7	88.0	92.7	91.1	85.3	89.0	89.7	84.3	87.1
11	PMSW4	103.7	96.3	91.0	115.7	101.7	88.3	80.3	92.0	86.9	85.0	89.0	84.3	84.3	85.7
12	EH-2233	101.7	95.0	86.7	114.7	99.5	87.0	81.3	90.7	86.3	85.7	89.0	90.3	82.3	86.8
13	BIO 509	105.3	98.0	97.0	116.7	104.3	97.3	89.3	87.7	91.4	87.0	90.0	91.3	85.7	88.5
14	KNMH-4507	103.0	95.3	91.7	114.7	101.2	86.3	83.0	91.0	86.8	85.0	88.3	85.0	81.3	84.9
15	IMH1530	102.3	94.3	88.3	113.3	99.6	86.7	81.7	88.3	85.6	83.7	88.0	83.0	78.7	83.3
16	AMH-3435	106.0	99.7	99.7	117.7	105.8	93.7	91.0	88.0	90.9	78.7	91.0	92.3	89.3	87.8
17	MMH-4-15	104.7	94.3	91.0	114.7	101.2	85.0	81.3	89.3	85.2	83.0	87.0	82.3	83.7	84.0
18	UDMH-127	104.3	98.0	95.0	114.0	102.8	88.0	84.7	89.0	87.2	86.3	90.3	91.0	83.7	87.8
19	NMH 109	104.3	95.3	92.3	114.0	101.5	90.3	88.3	87.7	88.8	85.3	88.0	94.3	85.7	88.3
20	PMSY3	104.7	94.7	91.7	113.7	101.2	86.3	84.0	90.0	86.8	85.3	87.3	88.3	82.7	85.9
21	CMH11-620	105.3	96.3	94.7	117.7	103.5	88.3	80.0	92.7	87.0	84.7	87.3	87.7	87.7	86.8
22	LMH 915	104.3	95.0	91.3	115.0	101.4	87.3	83.7	92.0	87.7	86.3	87.0	85.0	77.7	84.0
23	JKMH 4103	100.7	95.0	94.7	116.7	101.8	85.7	78.7	87.7	84.0	85.7	88.0	82.3	82.7	84.7
24	RCRMH1	104.3	98.7	95.3	116.7	103.8	93.0	88.7	86.3	89.3	86.0	89.0	86.0	83.7	86.2
25	LMH 615	103.7	94.7	94.0	116.0	102.1	86.7	81.3	87.7	85.2	85.3	90.0	85.3	82.3	85.8
26	JKMH 4333	104.3	97.0	95.3	118.3	103.8	88.3	82.3	90.0	86.9	86.3	88.3	84.3	81.7	85.2
27	LMH 815	100.0	95.0	93.0	114.3	100.6	86.3	81.7	92.7	86.9	85.7	87.3	86.0	83.7	85.7
28	OMH 14-64	104.7	97.7	95.3	117.0	103.7	92.0	84.0	92.0	89.3	85.3	89.0	91.0	82.3	86.9

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK													
						NHZ				NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	109.3	97.3	96.3	117.7	105.2	92.7	85.7	90.7	89.7	86.3	90.0	89.7	85.7	87.9
30	IIMRNH 2015-1	105.3	94.3	93.0	115.0	101.9	84.0	81.0	87.7	84.2	83.0	88.0	79.3	87.0	84.3
31	CMH12-699	105.3	98.3	95.3	116.7	103.9	92.3	86.7	88.0	89.0	87.0	89.3	88.3	81.3	86.5
32	IIMRNH 2015-2	103.3	97.0	95.0	114.3	102.4	89.3	81.3	89.7	86.8	85.7	89.3	84.0	84.7	85.9
33	IMH1525	103.7	94.3	94.0	114.7	101.7	83.3	82.7	91.3	85.8	84.3	88.0	83.7	60.7	79.2
34	BRM 12-3	105.7	98.3	101.0	118.0	105.8	93.0	94.7	92.0	93.2	86.7	90.0	93.0	87.7	89.3
35	MMH-3-15	103.7	94.3	91.7	117.3	101.8	86.3	83.3	90.7	86.8	83.3	88.0	82.7	80.7	83.7
36	DAS-MH-309	107.3	98.0	95.3	117.7	104.6	90.3	86.0	87.7	88.0	86.7	89.0	84.3	84.7	86.2
37	NMH-3746	105.0	95.7	96.3	115.7	103.2	94.0	84.3	88.0	88.8	86.0	89.0	90.7	81.7	86.8
38	PROLINE-511	103.7	98.7	93.3	114.7	102.6	88.7	86.3	89.7	88.2	86.0	88.0	83.3	89.3	86.7
39	BL 106	102.0	95.0	90.3	114.0	100.3	86.3	80.3	91.3	86.0	86.0	88.0	84.3	79.7	84.5
40	IIMRNH 2015-3	103.0	94.0	90.3	115.0	100.6	84.3	83.0	88.3	85.2	75.3	88.0	80.3	82.7	81.6
41	HM15206	104.7	95.7	95.0	115.7	102.8	89.7	86.3	88.0	88.0	85.0	90.0	88.3	79.3	85.7
	CHECKS														
42	HM-9	103.7	94.3	94.7	116.3	102.3	89.0	84.3	92.7	88.7	87.7	87.0	83.3	85.7	85.9
43	BIO-9637	103.0	95.3	92.0	115.3	101.4	89.0	84.7	92.0	88.6	84.3	89.3	88.3	87.7	87.4
44	PMH-4	101.3	94.3	91.0	113.7	100.1	87.3	81.3	90.7	86.4	86.3	89.0	86.7	80.7	85.7
	Loc. Mean	**103.8**	**96.0**	**93.2**	**115.4**	**102.1**	**88.7**	**84.0**	**89.8**	**87.5**	**84.9**	**88.6**	**86.3**	**82.5**	**85.6**
	C.D. (5%)	2.42	0.85	1.51	3.06	1.91	3.06	1.23	2.05	4.16	4.87	1.94	2.60	8.83	3.99
	C.V. (%)	1.44	0.54	1.00	1.63	1.34	2.13	0.90	1.40	2.93	3.54	1.35	1.86	6.59	3.33
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK												
		HYDE	KARI	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	KNMH-4501	96.0	89.3	92.7	92.0	90.0	92.0	87.7	85.7	90.7	89.7	84.7	87.7	90.2
2	JH 13347	93.3	88.0	88.7	93.0	88.0	90.2	86.7	85.7	91.7	88.0	87.0	87.8	89.8
3	KMH 13-5	93.7	88.3	88.3	92.0	88.3	90.1	85.3	84.0	89.3	91.7	87.3	87.5	89.4
4	KNMH-4505	94.7	89.7	95.7	92.3	92.0	92.9	86.3	85.0	90.7	91.0	86.0	87.8	92.2
5	HM15207	93.0	89.7	93.7	91.3	95.0	92.5	85.7	85.3	91.7	90.7	85.0	87.7	90.9
6	EH-2480	96.0	89.7	-	93.0	94.7	93.3	93.7	87.3	92.0	92.3	85.7	90.2	92.1
7	JH 13348	96.7	89.7	93.0	92.7	90.0	92.4	87.3	87.0	92.0	92.3	85.7	88.9	91.5
8	AH7007	97.7	86.3	91.7	89.3	85.7	90.1	84.7	77.0	88.0	85.0	86.3	84.2	88.2
9	SRIKAR 2079	95.3	89.7	93.0	92.0	90.0	92.0	87.7	88.0	90.0	88.3	85.0	87.8	90.6
10	IMH1526	99.0	89.7	96.0	91.7	100.0	95.3	86.3	88.0	91.3	91.7	87.3	88.9	93.4
11	PMSW4	95.7	89.7	92.0	91.7	88.0	91.4	87.7	86.3	91.0	88.3	86.0	87.9	90.8
12	EH-2233	94.0	89.3	91.7	91.3	94.0	92.1	85.7	81.3	90.3	92.3	86.0	87.1	90.5
13	BIO 509	99.0	89.3	92.3	94.0	92.0	93.3	88.7	87.3	95.0	92.0	87.0	90.0	93.4
14	KNMH-4507	97.7	89.3	90.3	92.3	90.7	92.1	86.3	83.7	89.7	89.0	86.7	87.1	90.5
15	IMH1530	95.3	89.0	89.0	91.7	88.0	90.6	86.0	83.0	89.3	90.7	84.7	86.7	89.3
16	AMH-3435	100.0	89.7	99.0	94.7	98.7	96.4	95.3	86.0	94.7	94.3	85.7	91.2	94.5
17	MMH-4-15	94.3	88.3	91.7	90.7	90.0	91.0	85.3	83.7	89.7	90.3	86.7	87.1	89.9
18	UDMH-127	99.7	89.3	92.7	95.0	94.0	94.1	92.3	87.0	90.7	92.7	86.3	89.8	92.6
19	NMH 109	95.7	89.7	97.3	93.3	91.3	93.5	86.3	83.7	93.7	93.7	88.3	89.1	92.3
20	PMSY3	95.3	89.7	92.3	90.7	89.3	91.5	87.7	86.7	89.7	89.0	86.0	87.8	90.7
21	CMH11-620	99.0	89.7	94.3	91.7	93.7	93.7	92.3	85.3	91.0	93.0	86.0	89.5	92.3
22	LMH 915	93.7	88.0	94.0	91.0	88.0	90.9	92.0	74.7	92.0	92.3	86.0	87.4	90.3
23	JKMH 4103	93.3	89.7	89.0	92.3	90.0	90.9	87.0	87.0	89.0	89.3	85.0	87.5	90.0
24	RCRMH1	98.3	89.7	95.7	92.7	94.7	94.2	87.3	85.0	92.0	91.0	85.3	88.1	92.3
25	LMH 615	96.0	88.3	89.3	92.7	90.0	91.3	87.0	81.3	90.3	90.0	87.0	87.1	90.4
26	JKMH 4333	95.0	89.7	95.0	94.0	92.0	93.1	87.3	87.0	89.7	88.3	85.3	87.5	91.4
27	LMH 815	95.0	89.7	90.3	92.3	90.0	91.5	86.3	84.3	89.3	89.7	85.3	87.0	90.4
28	OMH 14-64	99.3	89.7	95.7	94.0	95.0	94.7	91.0	86.3	91.3	91.0	84.7	88.9	92.8

Table No. 3 (Continued)

		DAYS TO 75% DRY HUSK												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
29	Mahabeej-1302	99.3	89.7	96.3	92.7	94.0	94.4	88.7	88.7	90.0	90.7	88.3	89.3	93.3
30	IIMRNH 2015-1	95.0	87.7	91.0	89.7	84.0	89.5	86.7	72.7	89.7	86.3	85.3	84.1	88.8
31	CMH12-699	97.3	89.7	92.3	94.3	92.3	93.2	88.7	84.0	92.0	94.3	88.3	89.5	92.5
32	IIMRNH 2015-2	97.0	89.3	92.3	91.0	92.3	92.4	87.3	86.0	92.0	87.7	86.7	87.9	91.2
33	IMH1525	97.7	90.0	91.7	90.0	92.0	92.3	86.0	85.0	89.3	89.7	88.0	87.6	89.5
34	BRM 12-3	99.7	89.7	96.3	92.0	99.3	95.4	94.7	86.7	93.3	91.7	86.7	90.6	94.8
35	MMH-3-15	95.3	89.7	91.7	91.0	88.0	91.1	88.7	87.7	89.3	89.3	84.0	87.8	90.3
36	DAS-MH-309	97.3	89.7	97.0	93.3	90.0	93.5	91.7	83.7	90.3	92.0	85.0	88.5	92.2
37	NMH-3746	99.7	89.7	94.3	93.0	93.7	94.1	88.7	85.0	93.3	95.0	86.3	89.7	92.6
38	PROLINE-511	99.0	89.7	93.7	93.0	90.0	93.1	87.7	84.3	90.3	88.0	89.0	87.9	91.7
39	BL 106	94.7	91.0	91.0	93.0	90.0	91.9	88.7	85.0	89.3	89.0	85.0	87.4	90.2
40	IIMRNH 2015-3	95.0	87.7	90.3	91.3	88.0	90.5	88.7	82.3	89.7	87.7	87.0	87.1	89.1
41	HM15206	96.0	89.7	96.3	94.0	92.0	93.6	87.7	85.0	91.3	89.7	85.0	87.7	91.6
	CHECKS													
42	HM-9	98.0	90.0	93.3	92.0	90.0	92.7	89.7	87.0	89.7	89.3	87.3	88.6	91.7
43	BIO-9637	95.7	89.3	93.3	93.3	90.0	92.3	88.7	86.0	90.3	90.3	86.3	88.3	91.6
44	PMH-4	96.0	89.0	94.0	93.3	88.0	92.1	87.3	87.0	91.3	91.0	84.7	88.3	90.7
	Loc. Mean	**96.5**	**89.3**	**93.0**	**92.3**	**91.3**	**92.5**	**88.2**	**84.7**	**90.8**	**90.4**	**86.2**	**88.1**	**91.2**
	C.D. (5%)	2.25	1.22	3.59	2.07	0.72	2.14	1.02	6.90	2.37	5.47	1.80	2.50	1.26
	C.V. (%)	1.44	0.84	2.35	1.38	0.49	1.86	0.71	5.02	1.60	3.73	1.28	2.27	2.27
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.22	0.00	0.00	0.00

Table No. 3 (Continued)

		PLANT HEIGHT(cm)														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	200.0	205.3	201.7	195.3	200.6	220.0	190.0	189.3	245.3	211.2	155.3	161.0	182.5	230.9	182.4
2	JH 13347	196.7	218.7	226.7	199.7	210.4	225.0	170.0	194.7	231.3	205.3	136.7	160.7	183.3	221.5	175.5
3	KMH 13-5	196.7	219.9	221.7	220.3	214.6	233.3	171.7	175.0	238.0	204.5	145.0	162.7	204.2	218.8	182.7
4	KNMH-4505	193.3	202.0	202.3	216.7	203.6	226.7	170.0	171.7	258.3	206.7	159.7	158.7	181.7	230.0	182.5
5	HM15207	200.0	205.7	234.3	223.3	215.8	243.3	193.3	163.0	279.7	219.8	163.3	163.3	210.8	226.9	191.1
6	EH-2480	193.3	230.9	229.3	228.3	220.5	246.7	181.7	171.0	236.7	209.0	167.0	165.0	210.8	227.0	192.5
7	JH 13348	196.7	232.3	222.7	208.7	215.1	238.3	170.0	171.7	276.3	214.1	160.7	173.0	195.8	232.4	190.5
8	AH7007	196.7	223.7	195.0	189.0	201.1	193.3	180.0	190.3	235.7	199.8	167.3	168.0	180.0	219.6	183.7
9	SRIKAR 2079	206.7	228.0	250.3	229.3	228.6	256.7	215.0	171.7	283.0	231.6	175.0	159.3	214.2	211.4	190.0
10	IMH1526	198.3	218.7	219.0	224.0	215.0	230.0	183.3	169.7	261.3	211.1	165.7	162.0	188.3	212.3	182.1
11	PMSW4	203.3	205.0	232.0	230.7	217.8	221.7	181.7	175.0	258.3	209.2	143.3	172.7	193.3	220.3	182.4
12	EH-2233	210.0	226.9	218.3	225.0	220.1	231.7	185.0	178.0	243.3	209.5	160.0	169.0	188.3	211.0	182.1
13	BIO 509	203.3	230.7	225.3	225.7	221.3	223.3	188.3	183.7	258.3	213.4	164.7	178.3	184.2	152.3	169.9
14	KNMH-4507	198.3	227.0	232.0	228.1	221.4	226.7	198.3	181.7	278.3	221.3	178.3	169.7	205.0	216.9	192.5
15	IMH1530	198.3	189.7	219.0	209.3	204.1	216.7	186.7	187.7	256.7	211.9	152.3	170.0	175.8	201.7	175.0
16	AMH-3435	193.3	215.5	220.7	230.1	214.9	221.7	168.3	191.3	256.0	209.3	180.0	167.7	193.3	220.6	190.4
17	MMH-4-15	185.0	198.3	205.7	203.7	198.2	206.7	185.0	184.3	245.7	205.4	146.0	156.3	174.2	210.8	171.8
18	UDMH-127	201.7	217.0	212.0	199.3	207.5	221.7	165.0	181.0	237.0	201.2	169.0	168.3	205.8	223.3	191.6
19	NMH 109	191.7	230.8	232.3	200.7	213.9	203.3	193.3	191.3	232.7	205.2	164.7	172.0	181.7	229.7	187.0
20	PMSY3	200.0	232.0	209.0	211.6	213.2	230.0	201.7	182.3	250.3	216.1	156.0	160.0	200.8	227.3	186.0
21	CMH11-620	211.7	224.7	210.0	229.7	219.0	238.3	198.3	179.7	248.0	216.1	156.7	163.0	213.3	228.9	190.5
22	LMH 915	183.3	209.0	224.3	201.7	204.6	205.0	180.0	194.7	232.3	203.0	158.3	159.7	167.5	212.1	174.4
23	JKMH 4103	198.3	205.5	226.3	199.0	207.3	228.3	205.0	189.0	246.3	217.2	152.3	163.3	202.5	220.3	184.6
24	RCRMH1	200.0	193.3	226.3	197.7	204.3	233.3	206.7	186.3	272.3	224.7	170.0	165.7	206.7	232.0	193.6
25	LMH 615	196.7	217.3	239.0	224.0	219.3	228.3	201.7	188.0	244.3	215.6	180.0	175.7	205.8	231.9	198.4
26	JKMH 4333	205.0	223.0	224.0	208.6	215.2	225.0	193.3	171.7	249.3	209.8	172.3	170.7	185.0	228.0	189.0
27	LMH 815	193.3	240.0	220.3	192.5	211.6	213.3	181.7	197.7	248.3	210.3	164.0	166.0	174.2	220.8	181.3
28	OMH 14-64	181.7	208.0	235.0	200.0	206.2	220.0	176.7	180.0	238.7	203.8	149.7	170.0	175.0	208.3	175.8

Table No. 3 (Continued)

		PLANT HEIGHT(cm)														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	188.3	229.0	239.3	209.7	216.6	220.0	206.7	187.3	221.0	208.8	174.7	175.0	200.8	226.4	194.2
30	IIMRNH 2015-1	181.7	200.7	208.7	181.3	193.1	193.3	140.0	180.7	218.0	183.0	147.7	162.0	153.3	189.5	163.1
31	CMH12-699	205.0	237.7	289.7	219.6	238.0	245.0	213.3	172.3	263.3	223.5	188.3	155.0	220.8	158.6	180.7
32	IIMRNH 2015-2	211.7	249.2	274.3	229.0	241.1	248.3	210.0	192.3	261.3	228.0	158.3	169.0	205.0	217.1	187.4
33	IMH1525	188.3	217.3	215.0	195.3	204.0	220.0	181.7	181.0	254.3	209.3	165.7	160.0	182.5	204.8	178.3
34	BRM 12-3	191.7	239.3	216.0	189.0	209.0	246.7	208.3	180.0	260.3	223.8	166.3	162.7	206.7	227.9	190.9
35	MMH-3-15	195.0	220.1	244.0	188.7	211.9	215.0	166.7	187.3	250.7	204.9	134.0	164.7	170.0	209.6	169.6
36	DAS-MH-309	185.0	218.5	215.3	220.0	209.7	218.3	201.7	180.7	223.3	206.0	170.7	155.0	195.0	225.9	186.6
37	NMH-3746	210.0	248.3	229.3	218.7	226.6	250.0	205.0	172.3	286.0	228.3	188.3	176.7	202.5	226.9	198.6
38	PROLINE-511	168.3	198.7	209.3	202.3	194.7	190.0	155.0	192.3	227.3	191.2	145.7	160.3	160.0	199.7	166.4
39	BL 106	190.0	198.3	237.7	200.3	206.6	231.7	190.0	181.0	248.0	212.7	170.7	158.0	199.2	222.0	187.5
40	IIMRNH 2015-3	195.0	223.9	234.3	220.3	218.4	240.0	191.7	187.7	256.0	218.8	159.0	185.0	198.3	226.4	192.2
41	HM15206	201.7	231.0	227.3	222.0	220.5	243.3	205.0	191.3	256.3	224.0	175.7	171.0	206.7	216.5	192.5
	CHECKS															
42	HM-9	176.7	205.7	215.3	209.7	201.8	218.3	180.0	179.7	234.0	203.0	146.0	175.0	182.5	210.7	178.5
43	BIO-9637	220.0	217.7	216.0	219.3	218.3	261.7	211.7	194.7	282.3	237.6	184.7	164.7	207.5	219.2	194.0
44	PMH-4	178.3	243.3	209.3	189.0	205.0	210.0	188.3	190.3	238.7	206.8	162.3	173.3	187.5	149.5	168.2
	Loc. Mean	**195.9**	**219.5**	**224.9**	**210.6**	**212.7**	**226.4**	**188.1**	**182.8**	**250.5**	**211.9**	**162.5**	**166.3**	**192.3**	**214.9**	**184.0**
	C.D. (5%)	22.06	9.28	10.03	36.19	16.63	23.25	6.87	6.69	27.25	17.70	13.05	5.92	18.41	50.69	18.45
	C.V. (%)	6.94	2.60	2.75	10.59	5.59	6.33	2.25	2.25	6.70	5.97	4.95	2.19	5.90	14.53	7.16
	F (Prob)	0.02	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.01

Table No. 3 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)														
								PZ							CWZ	OV'L
		HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	KNMH-4501	213.7	168.7	207.3	230.0	142.5	200.1	193.7	175.0	235.0	181.7	257.1	157.7	151.7	193.0	195.7
2	JH 13347	211.3	188.7	228.3	226.7	141.7	197.7	199.1	180.0	213.3	191.7	235.4	161.7	157.3	189.9	195.8
3	KMH 13-5	215.0	193.0	224.7	227.3	165.1	210.6	205.9	190.0	200.0	173.3	249.9	166.0	159.7	189.8	199.2
4	KNMH-4505	219.0	175.7	231.0	221.7	158.7	202.1	201.4	200.0	223.3	186.7	239.5	173.3	144.7	194.6	197.8
5	HM15207	224.3	205.0	243.0	239.3	171.8	220.5	217.3	190.0	166.7	210.0	278.8	169.0	162.7	196.2	207.8
6	EH-2480	243.3	211.3	249.3	-	126.6	215.9	209.3	160.0	230.0	215.0	270.7	167.7	169.0	202.1	206.4
7	JH 13348	241.3	211.0	250.0	256.3	169.7	201.9	221.7	190.0	201.7	205.0	284.9	188.3	164.3	205.7	210.1
8	AH7007	205.0	149.3	208.7	213.0	128.0	188.4	182.1	156.7	258.3	161.7	223.7	187.3	139.3	187.8	189.9
9	SRIKAR 2079	227.7	207.7	252.3	245.0	146.2	195.2	212.3	203.3	271.7	200.0	272.4	164.0	160.3	212.0	214.4
10	IMH1526	221.3	178.0	239.3	236.3	158.9	190.0	204.0	170.0	196.7	186.7	261.1	159.0	173.7	191.2	200.2
11	PMSW4	214.0	183.0	244.3	237.3	145.7	207.4	205.3	180.0	223.3	213.3	264.6	165.7	156.7	200.6	203.0
12	EH-2233	207.3	170.7	234.0	229.7	154.4	189.2	197.5	190.0	233.3	181.7	236.3	160.0	142.3	190.6	199.0
13	BIO 509	225.7	193.3	238.3	234.7	163.1	197.4	208.8	191.7	218.3	195.0	245.5	152.3	159.7	193.8	201.4
14	KNMH-4507	231.3	185.0	241.7	237.0	181.3	141.4	203.0	200.0	215.0	195.0	256.5	170.7	158.3	199.3	206.4
15	IMH1530	222.3	167.3	244.3	230.3	163.2	203.2	205.1	190.0	203.3	175.0	240.9	134.0	147.7	181.8	195.2
16	AMH-3435	208.0	186.0	246.0	239.3	169.9	197.7	207.8	160.0	231.7	226.7	279.2	161.3	156.3	202.5	205.0
17	MMH-4-15	196.0	156.3	212.0	222.7	123.7	230.2	190.1	163.3	231.7	173.3	229.3	178.3	132.7	184.8	189.6
18	UDMH-127	208.3	167.7	228.3	234.0	174.3	205.3	203.0	173.3	208.3	198.3	253.4	166.7	159.3	193.2	199.1
19	NMH 109	220.7	157.0	220.7	226.7	135.2	185.9	191.0	173.3	201.7	175.0	238.4	172.3	159.3	186.7	195.4
20	PMSY3	220.7	196.0	230.3	229.0	161.1	206.9	207.3	181.7	226.7	186.7	245.3	151.7	156.7	191.4	202.2
21	CMH11-620	234.0	200.7	260.7	245.3	168.9	204.1	218.9	191.7	208.3	215.0	267.7	166.7	163.0	202.1	209.5
22	LMH 915	202.3	177.7	218.7	212.3	136.1	169.6	186.1	160.0	218.3	166.7	231.5	165.3	151.0	182.1	189.1
23	JKMH 4103	213.3	174.0	235.3	242.0	138.5	201.4	200.8	180.0	201.7	188.3	242.1	167.3	158.3	189.6	199.1
24	RCRMH1	248.0	202.0	252.0	243.3	180.1	201.6	221.2	193.3	225.0	190.0	263.8	167.0	163.7	200.5	209.2
25	LMH 615	225.0	210.3	242.0	227.7	160.7	192.5	209.7	183.3	230.0	210.0	269.0	158.3	169.0	203.3	208.8
26	JKMH 4333	225.0	183.0	239.3	234.3	165.3	192.6	206.6	190.0	231.7	186.7	261.6	157.7	159.0	197.8	203.4
27	LMH 815	228.3	186.3	227.3	214.3	174.9	193.7	204.1	163.3	193.3	178.3	256.1	169.0	151.0	185.2	197.8
28	OMH 14-64	229.7	166.0	239.3	220.7	170.8	200.1	204.4	183.3	228.3	178.3	241.9	178.3	161.7	195.3	197.6

Table No. 3 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
29	Mahabeej-1302	221.0	168.0	237.3	231.0	157.9	193.3	201.4	193.3	225.0	203.3	249.5	151.7	152.3	195.9	202.6
30	IIMRNH 2015-1	183.3	145.3	196.7	190.3	118.3	182.1	169.3	160.0	200.0	146.7	208.7	175.3	125.7	169.4	174.6
31	CMH12-699	232.7	184.7	251.7	240.7	175.9	202.5	214.7	180.0	200.0	213.3	274.0	160.0	169.3	199.4	210.6
32	IIMRNH 2015-2	240.7	207.0	258.7	227.7	157.7	193.0	214.1	203.3	225.0	215.0	281.4	160.0	168.0	208.8	215.1
33	IMH1525	203.0	140.3	204.7	233.3	143.7	185.7	185.1	183.3	206.7	166.7	217.5	153.7	155.3	180.5	190.0
34	BRM 12-3	225.0	187.7	246.3	229.3	161.3	208.7	209.7	183.3	240.0	196.7	278.9	172.0	162.0	205.5	207.8
35	MMH-3-15	208.7	175.0	224.0	215.3	156.4	184.4	194.0	163.3	223.3	181.7	231.9	147.7	131.0	179.8	191.2
36	DAS-MH-309	219.0	186.7	255.3	249.7	175.1	207.2	215.5	181.7	205.0	201.7	261.6	173.3	161.7	197.5	203.6
37	NMH-3746	246.3	201.7	254.3	253.0	154.5	238.7	224.8	196.7	193.3	228.3	269.0	154.7	153.7	199.3	214.9
38	PROLINE-511	189.0	162.7	207.0	229.7	144.1	172.7	184.2	160.0	220.0	165.0	227.2	160.0	143.7	179.3	182.9
39	BL 106	225.3	184.7	225.0	244.3	174.6	192.5	207.7	178.3	215.0	195.0	252.7	167.7	176.7	197.6	202.4
40	IIMRNH 2015-3	218.3	182.0	235.3	227.0	168.3	191.7	203.8	180.0	226.7	185.0	248.6	160.7	146.3	191.2	203.6
41	HM15206	216.0	178.7	249.0	244.0	162.0	207.3	209.5	160.0	211.7	200.0	265.1	153.3	158.7	191.5	206.4
	CHECKS															
42	HM-9	215.0	174.7	221.0	218.7	126.1	191.7	191.2	165.0	180.0	166.7	242.0	172.3	140.3	177.7	189.5
43	BIO-9637	222.7	190.3	249.7	232.7	152.5	195.5	207.2	190.0	230.0	201.7	266.5	136.0	169.7	199.0	209.9
44	PMH-4	219.7	175.3	218.3	210.7	152.8	192.0	194.8	176.7	191.7	176.7	230.2	162.0	157.3	182.4	191.0
	Loc. Mean	**219.7**	**181.7**	**234.6**	**231.0**	**155.9**	**197.3**	**203.3**	**180.0**	**216.4**	**190.6**	**252.3**	**163.6**	**155.9**	**193.1**	**200.6**
	C.D. (5%)	10.25	11.55	18.25	23.13	17.32	26.88	12.86	7.57	49.38	16.69	14.86	28.08	9.22	15.91	7.13
	C.V. (%)	2.87	3.92	4.79	6.10	6.85	8.39	5.56	2.59	14.06	5.39	3.63	10.57	3.65	7.24	6.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.24	0.00	0.00	0.00

Table No. 3 (Continued)

		EAR HEIGHT(cm)														
						NHZ					NWPZ					NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
1	KNMH-4501	100.0	82.8	111.7	98.7	98.3	116.7	90.0	78.3	107.3	98.1	73.3	73.7	93.3	119.8	90.0
2	JH 13347	110.0	90.1	135.0	104.0	109.8	111.7	91.7	64.3	101.7	92.3	72.7	72.0	99.2	113.5	89.3
3	KMH 13-5	101.7	85.8	112.7	111.0	102.8	123.3	91.7	54.7	107.0	94.2	70.7	70.3	114.2	111.2	91.6
4	KNMH-4505	91.7	83.0	101.3	111.7	96.9	103.3	90.0	56.0	107.7	89.3	80.7	69.0	98.3	106.8	88.7
5	HM15207	95.0	87.1	112.3	109.7	101.0	116.7	98.3	66.0	116.3	99.3	75.7	65.0	103.3	116.5	90.1
6	EH-2480	93.3	91.5	121.0	124.0	107.5	126.7	101.7	70.3	98.0	99.2	80.7	64.0	107.5	116.1	92.1
7	JH 13348	98.3	95.7	114.7	106.3	103.8	118.3	91.7	66.7	129.0	101.4	80.3	71.3	107.5	116.6	94.0
8	AH7007	96.7	93.3	99.0	93.7	95.7	98.3	90.0	53.7	88.7	82.7	78.0	72.3	86.7	103.9	85.2
9	SRIKAR 2079	106.7	94.3	115.3	126.3	110.7	125.0	120.0	56.0	120.7	105.4	79.7	71.3	102.5	101.1	88.7
10	IMH1526	103.3	99.1	107.3	130.1	110.0	115.0	108.3	59.3	114.7	99.3	88.3	69.0	97.5	108.6	90.9
11	PMSW4	98.3	98.0	130.0	119.3	111.4	111.7	81.7	69.0	113.0	93.8	63.3	77.7	105.0	116.3	90.6
12	EH-2233	118.3	94.9	110.3	121.3	111.2	115.0	98.3	81.0	100.3	98.7	80.7	72.0	105.0	104.5	90.5
13	BIO 509	111.7	85.7	139.3	134.7	117.8	135.0	103.3	82.7	129.0	112.5	88.0	75.0	145.8	121.0	107.5
14	KNMH-4507	100.0	96.4	113.3	126.3	109.0	110.0	111.7	71.0	129.3	105.5	86.0	77.3	106.7	109.6	94.9
15	IMH1530	98.3	74.1	98.7	123.3	98.6	96.7	110.0	72.3	104.0	95.8	71.3	75.7	81.7	96.3	81.3
16	AMH-3435	98.3	97.2	126.0	130.3	113.0	120.0	81.7	73.0	109.7	96.1	77.7	74.3	107.5	117.0	94.1
17	MMH-4-15	100.0	92.0	111.0	116.1	104.8	115.0	100.0	68.3	123.0	101.6	67.3	74.7	105.0	104.6	87.9
18	UDMH-127	105.0	78.3	111.3	99.0	98.4	108.3	65.0	65.3	101.7	85.1	79.7	78.0	113.3	115.4	96.6
19	NMH 109	96.7	99.2	122.0	97.0	103.7	98.3	100.0	82.0	99.7	95.0	79.0	76.3	94.2	122.0	92.9
20	PMSY3	101.7	98.3	107.7	105.5	103.3	126.7	113.3	83.0	105.3	107.1	78.0	68.3	113.3	117.6	94.3
21	CMH11-620	110.0	94.2	121.3	118.7	111.1	128.3	110.0	65.0	104.0	101.8	79.3	67.3	120.8	121.1	97.2
22	LMH 915	91.7	86.1	100.3	106.5	96.1	96.7	90.0	85.0	92.0	90.9	77.7	65.7	74.2	100.2	79.4
23	JKMH 4103	96.7	95.5	122.3	96.0	102.6	111.7	103.3	78.0	109.3	100.6	68.7	69.7	103.3	109.1	87.7
24	RCRMH1	88.3	79.5	118.7	89.0	93.9	115.0	103.3	64.0	117.7	100.0	76.0	72.0	102.5	120.0	92.6
25	LMH 615	96.7	94.5	120.3	112.7	106.1	113.3	116.7	69.7	109.7	102.3	87.3	79.7	108.3	115.5	97.7
26	JKMH 4333	103.3	86.0	109.7	110.7	102.4	113.3	103.3	70.3	114.0	100.3	86.7	72.0	104.2	124.7	96.9
27	LMH 815	98.3	90.3	118.0	95.3	100.5	105.0	88.3	63.7	107.7	91.2	80.7	70.0	91.7	110.8	88.3
28	OMH 14-64	78.3	95.9	131.0	99.3	101.1	111.7	76.7	84.0	103.7	94.0	72.7	73.0	87.5	102.0	83.8

Table No. 3 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)														
						NHZ					NWPZ					NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	BHUB	VARA	BAHR	Mean
29	Mahabeej-1302	93.3	98.1	142.7	111.8	111.5	111.7	110.0	79.0	117.0	104.4	89.0	79.0	114.2	123.7	101.5
30	IIMRNH 2015-1	85.0	83.9	99.3	89.3	89.4	96.7	66.7	73.0	90.7	81.7	77.3	66.7	75.0	86.6	76.4
31	CMH12-699	93.3	100.0	155.3	114.3	115.8	130.0	123.3	63.0	122.3	109.7	87.0	63.7	123.3	119.0	98.3
32	IIMRNH 2015-2	116.7	102.9	146.0	122.9	122.1	130.0	120.0	73.3	116.3	109.9	78.7	72.0	122.5	110.0	95.8
33	IMH1525	95.0	90.3	106.0	101.7	98.2	115.0	111.7	70.0	121.0	104.4	80.7	76.3	108.2	114.7	95.0
34	BRM 12-3	100.0	101.0	105.0	95.3	100.3	120.0	113.3	84.0	117.0	108.6	84.0	67.0	117.5	115.1	95.9
35	MMH-3-15	101.7	84.0	121.0	104.0	102.7	106.7	96.7	79.0	118.3	100.2	62.7	74.3	95.0	114.4	86.6
36	DAS-MH-309	93.3	91.8	117.3	110.3	103.2	98.3	100.0	73.0	82.3	88.4	76.7	62.7	100.0	108.1	86.9
37	NMH-3746	121.7	107.5	128.3	122.7	120.0	136.7	126.7	63.0	142.0	117.1	102.0	80.0	111.7	123.2	104.2
38	PROLINE-511	80.0	78.3	110.7	111.7	95.2	98.3	76.7	73.3	92.0	85.1	69.7	68.0	90.8	104.2	83.2
39	BL 106	90.0	78.7	122.3	92.0	95.7	113.3	100.0	70.0	106.3	97.4	85.7	69.3	105.8	113.1	93.5
40	IIMRNH 2015-3	90.0	93.8	116.7	106.7	101.8	115.0	105.0	72.3	108.0	100.1	72.7	77.0	99.2	107.0	89.0
41	HM15206	91.7	88.9	122.0	107.8	102.6	110.0	105.0	73.0	112.3	100.1	79.3	73.7	99.2	111.0	90.8
	CHECKS															
42	HM-9	85.0	88.0	110.0	93.6	94.2	113.3	90.0	65.0	93.0	90.3	69.7	77.7	103.3	107.6	89.6
43	BIO-9637	113.3	97.0	115.3	117.8	110.9	146.7	126.7	85.0	130.7	122.3	83.0	69.3	105.8	117.5	93.9
44	PMH-4	85.0	96.3	114.7	94.0	97.5	93.3	110.0	53.7	105.3	90.6	79.0	78.0	110.8	112.8	95.2
	Loc. Mean	**98.3**	**91.4**	**117.6**	**109.4**	**104.1**	**114.1**	**100.3**	**70.5**	**110.0**	**98.7**	**78.6**	**72.1**	**103.7**	**112.0**	**91.6**
	C.D. (5%)	16.26	4.83	6.32	30.71	12.35	18.47	4.48	6.76	17.34	13.74	12.69	3.44	22.75	12.91	10.16
	C.V. (%)	10.19	3.26	3.31	17.30	8.48	9.97	2.75	5.90	9.71	9.95	9.95	2.94	13.52	7.10	7.93
	F (Prob)	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

		EAR HEIGHT(cm)													
								PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	KNMH-4501	81.7	86.0	93.3	117.7	71.5	108.7	93.1	80.0	106.7	85.0	95.4	75.3	88.5	93.3
2	JH 13347	79.7	91.7	108.7	108.7	71.1	99.1	93.1	80.0	98.3	98.3	88.6	75.7	88.2	94.2
3	KMH 13-5	83.7	84.0	100.0	114.3	87.3	119.0	98.0	90.0	96.7	80.0	90.7	72.0	85.9	94.4
4	KNMH-4505	79.7	83.0	109.3	117.0	65.8	108.8	93.9	93.3	100.0	76.7	90.1	87.0	89.4	91.7
5	HM15207	80.0	88.3	110.3	106.0	84.5	118.9	98.0	80.0	93.3	91.7	103.0	73.7	88.3	95.3
6	EH-2480	98.7	111.3	126.3	-	82.8	123.9	108.6	80.0	105.0	101.7	100.2	78.7	93.1	100.1
7	JH 13348	94.7	112.3	122.0	138.3	86.5	113.2	111.2	80.0	101.3	96.7	112.7	82.3	94.6	101.6
8	AH7007	75.0	63.0	96.0	110.0	56.0	90.4	81.7	68.3	115.7	71.7	80.1	87.7	84.7	85.6
9	SRIKAR 2079	89.0	90.0	111.0	114.0	67.4	109.9	96.9	80.0	120.0	80.0	94.6	76.7	90.3	97.9
10	IMH1526	84.0	83.3	115.7	119.3	68.2	107.0	96.3	70.0	100.0	80.0	94.6	85.7	86.1	96.0
11	PMSW4	83.3	87.0	118.0	128.7	78.5	110.3	101.0	80.0	108.3	98.3	102.4	77.3	93.3	98.1
12	EH-2233	84.7	79.3	111.3	113.3	79.9	101.0	94.9	91.7	98.3	88.3	87.1	83.3	89.7	96.5
13	BIO 509	95.0	104.0	130.3	128.3	80.1	125.0	110.5	103.3	103.3	100.0	110.1	71.0	97.6	108.8
14	KNMH-4507	84.3	89.0	116.7	127.3	90.6	102.7	101.8	93.3	105.0	88.3	88.7	73.3	89.7	99.9
15	IMH1530	81.7	81.0	104.3	104.3	79.1	111.5	93.7	80.0	81.7	73.3	81.2	68.0	76.8	89.1
16	AMH-3435	84.3	98.3	124.7	125.0	83.0	114.3	104.9	83.3	111.7	111.7	120.1	73.7	100.1	101.9
17	MMH-4-15	85.0	87.0	105.3	122.7	64.4	128.5	98.8	85.0	100.0	81.7	95.5	83.3	89.1	96.3
18	UDMH-127	89.7	95.0	109.7	119.7	78.0	111.2	100.5	73.3	96.7	98.3	103.0	73.3	88.9	94.3
19	NMH 109	89.3	84.0	108.3	117.7	76.7	113.1	98.2	81.7	98.3	78.3	87.5	79.0	85.0	94.8
20	PMSY3	89.3	95.3	111.7	111.7	76.1	112.3	99.4	88.3	106.7	75.0	103.8	73.3	89.4	98.4
21	CMH11-620	101.0	104.3	127.3	135.7	88.9	122.0	113.2	93.3	101.7	100.0	114.3	74.0	96.7	104.5
22	LMH 915	83.3	84.3	101.0	97.0	66.6	77.3	84.9	70.0	100.0	68.3	85.7	75.7	79.9	85.9
23	JKMH 4103	77.3	70.3	98.7	113.7	73.0	93.3	87.7	80.0	88.3	80.0	90.2	86.0	84.9	91.9
24	RCRMH1	99.3	100.3	115.3	120.7	83.7	111.9	105.2	93.3	103.3	90.0	93.2	76.0	91.2	97.1
25	LMH 615	87.3	103.3	117.0	121.3	83.2	111.5	104.0	80.0	100.0	101.7	107.7	72.0	92.3	100.4
26	JKMH 4333	90.3	91.0	117.7	118.3	79.4	112.9	101.6	90.0	113.3	88.3	98.8	58.3	89.8	98.1
27	LMH 815	92.0	92.3	106.0	107.3	83.1	101.6	97.1	68.3	98.3	83.3	95.0	84.0	85.8	92.7
28	OMH 14-64	89.3	79.7	113.7	114.7	81.5	116.1	99.2	80.0	103.3	73.3	83.4	90.7	86.1	93.1

Table No. 3 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
29	Mahabeej-1302	94.3	88.3	123.7	116.7	83.3	115.3	103.6	90.0	105.0	98.3	104.9	71.0	93.8	102.6
30	IIMRNH 2015-1	68.7	69.0	82.7	89.0	61.8	98.7	78.3	68.3	93.3	61.7	73.3	77.0	74.7	79.7
31	CMH12-699	99.7	101.7	125.0	130.3	89.9	113.7	110.0	90.0	95.0	98.3	115.6	76.0	95.0	105.6
32	IIMRNH 2015-2	106.0	109.7	140.3	123.7	87.1	118.3	114.2	98.3	118.3	106.7	118.5	66.7	101.7	108.9
33	IMH1525	76.7	74.7	92.7	122.7	68.9	109.4	90.8	90.0	95.0	75.0	80.4	81.0	84.3	93.8
34	BRM 12-3	92.0	95.0	114.3	118.0	79.2	112.7	101.9	71.7	105.7	100.0	104.8	86.7	93.8	100.0
35	MMH-3-15	80.3	83.0	108.3	113.3	78.9	98.5	93.7	63.3	101.7	86.7	92.8	67.0	82.3	92.7
36	DAS-MH-309	75.0	80.3	113.0	135.7	80.7	106.5	98.5	80.0	96.7	86.7	86.9	78.3	85.7	92.8
37	NMH-3746	112.0	111.0	130.0	135.3	91.9	133.7	119.0	90.0	85.0	116.7	107.3	76.7	95.1	111.1
38	PROLINE-511	75.3	80.0	99.7	115.3	71.9	99.3	90.3	76.7	105.0	80.0	78.7	70.7	82.2	87.2
39	BL 106	88.3	85.7	96.3	113.3	86.1	105.8	95.9	81.7	108.3	83.3	86.0	83.3	88.5	94.1
40	IIMRNH 2015-3	81.3	86.3	108.7	110.3	78.9	102.4	94.7	81.7	105.0	86.7	89.5	74.7	87.5	94.3
41	HM15206	88.7	86.7	111.7	121.3	79.1	112.8	100.0	80.0	106.7	93.3	95.1	69.3	88.9	96.5
	CHECKS														
42	HM-9	78.7	76.0	101.3	103.0	64.5	110.1	88.9	70.0	96.7	68.3	88.9	82.3	81.2	88.5
43	BIO-9637	79.7	85.7	113.0	117.0	78.7	105.5	96.6	76.7	108.3	85.0	99.4	65.0	86.9	101.0
44	PMH-4	86.0	82.3	105.0	105.7	75.0	104.8	93.1	88.3	91.7	85.0	84.0	82.3	86.3	92.3
	Loc. Mean	**86.7**	**89.0**	**111.3**	**117.3**	**77.8**	**109.6**	**98.6**	**82.1**	**101.7**	**87.5**	**95.5**	**76.7**	**88.7**	**96.2**
	C.D. (5%)	6.33	8.78	12.49	15.40	12.39	4.42	7.12	9.43	20.95	13.30	10.69	20.52	10.98	4.80
	C.V. (%)	4.50	6.08	6.92	8.00	9.81	2.49	6.35	7.07	12.69	9.36	6.90	16.48	9.91	8.63
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.68	0.00	0.00

TABLE No. 4: **PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BARAPANI, BAJAURA, UDHAMPUR, KANGRA, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN NIVT TRIAL No. TR62B(NIVT-M) DURING KHARIF (2015)**

	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
SI									NHZ								NWPZ												NEPZ			
No	PEDIGREE	BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
1	BRM 12-4	3538	43	5783	43	-	-	837	44	4661	43	2526	44	5435	43	9109	22	4618	44	5422	44	2244	44	3954	44	4944	25	1901	44	5415	30	4054	43
2	AH1401	2782	44	5842	42	5226	39	1299	43	4617	44	4311	43	4844	44	11002	5	5218	43	6344	43	2330	43	4387	43	4801	30	2469	43	3614	43	3818	44
3	OMH 14-7	7445	27	6723	35	6051	35	2953	8	6740	38	10800	18	9859	40	9132	21	9237	36	9757	36	3453	29	8776	2	5157	19	6282	7	6804	12	6754	3
4	IMH1534	5764	41	9040	9	6815	26	2806	12	7206	30	8829	34	12259	5	8355	34	11562	17	10251	31	3499	26	7026	22	4782	31	5480	17	6348	22	5909	18
5	Muskan	9033	4	6650	36	7256	24	3735	1	7647	24	12742	5	11302	20	8458	31	13155	3	11414	4	4372	10	7963	9	5327	13	6238	8	5694	28	6306	11
6	IMH1524	7995	23	6835	32	6995	25	2796	13	7275	28	9205	32	10770	31	10138	11	11083	25	10299	29	2895	38	7997	8	4576	38	4264	38	5802	26	5660	29
7	PM15107M	7182	30	6755	34	6487	31	3505	2	6808	37	10555	20	11555	14	9830	15	11596	16	10884	13	4294	12	4649	42	5439	8	5224	23	7337	6	5662	28
8	RMH-301	9334	2	7713	24	7498	20	3119	4	8182	18	11418	14	11809	11	8600	27	9557	35	10346	28	2858	39	7543	17	4654	36	7520	2	5528	29	6311	10
9	LMH 715	7830	26	8216	21	7917	15	2946	9	7988	19	11000	16	11309	19	10151	10	12713	5	11293	7	4902	3	8499	5	5369	11	5880	11	6500	18	6562	6
10	KNMH-4502	8013	22	6792	33	6486	32	2084	34	7097	32	10447	21	14164	1	9537	16	11305	22	11363	5	3528	25	7609	16	4270	43	4860	28	7030	9	5942	17
11	IIMRNH 2015-4	7260	29	10469	2	7845	16	3402	3	8525	7	11532	13	10835	29	8509	30	11209	24	10521	22	3231	35	8175	7	5146	20	5501	14	7720	5	6635	5
12	KNMH-4504	8103	19	7321	30	7394	22	1900	39	7606	26	11681	11	10391	33	8454	32	11021	26	10387	26	3541	24	5074	40	4657	35	4880	27	4708	40	4829	41
13	IMH1527	9077	3	7101	31	8913	6	2424	22	8363	14	9922	28	10102	36	10976	6	12465	6	10866	14	4218	14	7789	14	4368	42	5997	10	8024	4	6545	7
14	Ganga-11	7893	24	6074	39	9010	4	2779	14	7659	23	10009	27	12162	7	11181	3	10209	32	10890	12	3677	20	5448	35	4764	32	5500	15	7137	7	5712	27
15	LMH 515	6803	34	10144	3	8667	8	2687	18	8538	6	11298	15	10813	30	10202	8	11294	23	10902	11	4807	6	5951	29	5799	3	5352	21	6520	17	5905	19
16	KH-2001 GOLD	9596	1	9006	10	7722	18	1840	40	8774	3	8575	36	12244	6	9970	13	10706	29	10374	27	3394	32	7181	19	4884	27	5303	22	4716	39	5521	31
17	DH-293	8634	14	7569	26	7460	21	2827	11	7888	21	10291	24	9939	38	8980	23	11801	12	10253	30	4197	15	7949	10	5016	22	5388	19	6713	15	6266	12
18	VaMH 12014	7883	25	5854	40	7378	23	2230	30	7038	33	12331	6	12609	4	11248	2	12454	7	12160	1	3565	23	8519	4	4999	23	6563	6	9298	2	7345	2
19	JH 31820	8038	21	9436	7	7931	14	2427	21	8468	9	10360	22	11376	16	8666	25	11350	21	10438	24	4271	13	7790	13	5521	7	6579	5	4808	36	6175	13
20	EH-2214	7261	28	7457	27	6743	27	1787	41	7154	31	7495	39	10600	32	9448	18	10101	33	9411	38	3413	31	5338	36	6309	1	4195	39	6580	16	5606	30
21	CMH12-672	6411	39	6647	37	6447	33	2133	32	6502	39	10325	23	11159	23	11051	4	11453	19	10997	10	2402	41	7335	18	5207	15	4278	37	7022	10	5960	16
22	BIO 274	7111	31	5647	44	8919	5	2346	24	7226	29	11641	12	11326	18	8362	33	15527	1	11714	2	4815	5	8708	3	4908	26	5516	13	6890	11	6505	8
23	PHM 34	6730	35	8669	13	5702	37	1951	38	7034	34	8821	35	11099	24	10173	9	8417	40	9627	37	2411	40	6095	28	5205	16	4137	40	4624	41	5015	37
24	KMH-5332	8900	9	7673	25	9162	3	2364	23	8578	4	10991	17	11043	25	10907	7	10084	34	10756	17	3582	22	7893	11	5895	2	6024	9	4767	37	6145	14
25	KNMH-4508	6992	33	9850	5	9833	2	2244	29	8892	1	11943	9	10270	34	9519	17	11525	18	10814	15	4049	17	6778	24	5337	12	4770	29	6074	24	5740	26
26	HKH 350	6666	36	7428	28	5367	38	2133	33	6487	40	8131	37	10858	27	12351	1	9011	37	10088	32	3490	27	6562	26	4846	28	4518	32	5115	34	5260	35
27	HT 515349	8708	13	8694	12	8067	13	2265	28	8490	8	9714	29	10848	28	9975	12	11896	11	10608	20	4303	11	5688	33	4828	29	6706	3	6366	19	5897	20
28	BGMH2	8208	16	10516	1	7639	19	2312	26	8788	2	10128	25	10086	37	9881	14	12448	8	10636	19	4108	16	7669	15	5195	17	5855	12	5144	33	5966	15
29	LMH 1015	8825	10	7988	22	8270	12	2194	31	8361	15	12894	4	10200	35	8203	35	8208	41	9876	35	5445	1	7867	12	5433	9	5396	18	4743	38	5860	21
30	DH-294	8904	8	9667	6	6636	30	3041	5	8403	10	9628	30	12764	3	8659	26	11725	14	10694	18	3636	21	6726	25	5373	10	4458	34	6746	14	5826	25

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		NHZ										NWPZ																		NEPZ			
		BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
31	IMH1533	8778	11	8608	15	7739	17	2732	15	8375	13	8905	33	13212	2	9371	19	10714	28	10551	21	4457	9	5867	32	4603	37	4496	33	4812	35	4945	38
32	RCRMH2	8055	20	8453	17	8402	9	2718	16	8303	16	12978	3	11290	21	9230	20	12852	4	11588	3	4929	2	7114	20	5643	5	8328	1	8723	3	7452	1
33	BL 107	8173	18	9855	4	4826	43	1713	42	7618	25	10623	19	12156	8	8715	24	11708	15	10800	16	2932	37	5330	37	5251	14	5496	16	9620	1	6424	9
34	AH7009	7036	32	8273	20	5189	40	1977	37	6833	36	6293	41	11426	15	7685	39	10346	31	8937	40	3413	30	5100	39	4575	39	4768	30	5278	32	4931	40
35	GK3131	8537	15	8331	19	8314	11	2078	35	8394	11	12234	7	11951	10	8099	37	11748	13	11008	9	3018	36	5891	31	4528	40	4927	26	6355	21	5425	32
36	IIMRNH 2015-5	8180	17	8630	14	8894	7	2324	25	8568	5	13100	2	10863	26	7545	40	10487	30	10499	23	3794	19	6299	27	4737	33	4758	31	5288	31	5270	34
37	DAS-MH-308	8916	7	6227	38	6696	28	3034	6	7279	27	13800	1	9873	39	8133	36	13478	2	11321	6	4848	4	10741	1	5565	6	4344	36	6356	20	6751	4
38	BGMH1	8757	12	8721	11	6371	34	2700	17	7950	20	11809	10	12131	9	7952	38	12238	9	11033	8	4665	8	7111	21	4996	24	4992	25	6214	23	5829	24
39	KMH 13-79	5689	42	8421	18	11068	1	2071	36	8393	12	5901	42	9496	42	6636	44	5972	42	7001	42	3905	18	5631	34	5747	4	3882	41	3570	44	4708	42
40	BAUMC-3	6446	38	7333	29	5004	41	2473	20	6261	42	7422	40	11574	13	8599	28	8440	39	9009	39	2354	42	5158	38	4472	41	4346	35	5752	27	4932	39
41	VEH 15-1	8957	6	5851	41	5973	36	2597	19	6927	35	9395	31	11165	22	7441	41	12195	10	10049	33	3294	34	6931	23	4041	44	5376	20	7088	8	5859	22
	CHECKS																																
42	HM-9	6216	40	7828	23	4982	42	2303	27	6342	41	8093	38	9738	41	8589	29	8551	38	8743	41	3479	28	5918	30	5179	18	3494	42	6773	13	5341	33
43	BIO-9637	9022	5	9087	8	6670	29	3010	7	8260	17	10040	26	11668	12	6852	43	11438	20	9999	34	3299	33	4728	41	5077	21	5034	24	6000	25	5210	36
44	PMH-4	6616	37	8481	16	8387	10	2908	10	7828	22	11955	8	11333	17	7418	42	10968	27	10419	25	4744	7	8333	6	4704	34	6651	4	3684	42	5843	23
	Location Mean	**7643**		**7901**		**7310**		**2455**		**7598**		**10048**		**10952**		**9166**		**10775**		**10235**		**3729**		**6798**		**5048**		**5180**		**6120**		**5787**	
	C.D. (5%)	787		628		921		1196		779		2200		670		939		1150		1240		1938		1343		532		1163		1154		1048	
	C.V. (%)	6.34		4.9		7.94		**30.02**		**-**		13.49		3.77		6.31		6.58		**-**		**32.02**		12.17		6.5		13.83		11.62		**-**	
	F (Prob)	0		0		0		0.017				0		0		0		0				0.118		0		0		0		0			
	Plot Size	3.6		4.8		2.64		4.8		-		4.8		6		4.8		6		-		6		5.6		4.8		4.8		4.8		-	
	AGRONOMY DATA																																
	Sowing Date	27-06		7-14		24-06		13-07		-		29-06		29-06		8-08		24-06		-		4-07		14-07		26-06		5-07		3-07		-	
	Harvest Date	24-10		10-21		7-10		28-11		-		7-10		7-10		12-02		17-10		-		29-10		3-11		13-10		9-10		5-10		-	
	Irrigation Nos	3		-		-		-		-		7		5		3		1		-		1		-		-		1		-		-	
	Ferilizer Applied N	120		120		120		80		-		50		150		120		120		-		120		120		120		120		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		60		60		-		60		60		60		60		60		-	
	Ferilizer Applied K	40		40		40		40		-		12		60		50		40		-		40		40		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4: **(Cont..)**

Sl No	PEDIGREE	PZ																								CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	BRM 12-4	1682	44	1184	44	5666	44	4461	43	2750	44	5390	44	3522	44	1044	44	2122	44	2807	44	3469	41	2155	42	2077	43	2279	44	3580	44
2	AH1401	3387	43	2424	43	11574	19	4629	42	3762	39	5712	43	5248	43	2641	43	4783	42	9696	13	3440	42	2903	34	2369	41	4305	43	4862	43
3	OMH 14-7	5902	31	6227	10	14317	6	8860	18	5355	14	11198	8	8643	13	2662	42	6957	20	10218	5	5111	33	3414	22	3261	36	5271	32	7380	27
4	IMH1534	8868	6	5559	26	9805	37	7924	33	5183	21	10187	20	7921	24	4310	32	6112	34	7136	37	8001	8	2538	39	5687	5	5631	25	7286	29
5	Muskan	4034	41	5679	24	14314	7	11886	1	5189	20	11405	3	8751	12	5135	24	6969	19	9962	7	7180	14	1965	43	4714	14	5988	18	7924	8
6	IMH1524	8192	10	4997	31	9965	36	8697	24	4712	28	8414	36	7496	32	4495	30	6492	31	8274	27	6333	21	3062	29	4425	19	5514	28	7118	33
7	PM15107M	5983	30	5028	30	10955	27	7783	34	3129	42	9554	27	7072	36	3851	36	6558	28	8884	24	3593	40	3098	27	3364	34	4891	38	6886	34
8	RMH-301	8702	8	5637	25	13468	9	8728	23	5296	16	10948	12	8797	10	4694	28	8354	2	7586	34	7615	10	3588	19	3620	33	5909	21	7801	16
9	LMH 715	6867	26	6613	8	10071	35	8656	25	4641	29	9695	26	7757	27	7442	2	8332	3	9770	11	5668	27	3080	28	3711	31	6334	10	7823	13
10	KNMH-4502	8144	11	6025	17	11779	17	8066	31	5450	10	9513	30	8163	18	4933	26	7563	9	7363	36	4817	37	1963	44	4849	10	5248	34	7434	26
11	IIMRNH 2015-4	7138	23	6319	9	9426	39	8218	30	6155	2	11035	11	8048	22	5640	15	6952	21	9582	16	6834	16	3725	16	5012	8	6291	12	7836	11
12	KNMH-4504	8133	12	5931	20	10396	32	5623	41	5364	13	10086	22	7589	31	6961	5	6835	23	9787	9	3671	39	3769	14	4715	13	5956	20	7172	32
13	IMH1527	6913	25	6107	13	10749	29	8235	29	5797	6	9475	31	7879	25	6688	7	7964	4	8831	25	6668	18	4244	4	6407	1	6800	2	7948	7
14	Ganga-11	6530	27	5410	28	9747	38	8030	32	4352	37	10012	24	7347	33	5850	12	6045	36	7828	30	6763	17	3887	12	2910	37	5547	27	7250	31
15	LMH 515	8096	14	6046	16	11370	21	9022	17	5225	18	10891	13	8442	15	5880	11	7522	11	9854	8	6609	19	3680	17	4276	22	6304	11	7883	10
16	KH-2001 GOLD	5883	32	6020	18	11762	18	10725	8	4116	38	10160	21	8111	20	5719	14	7180	17	8679	26	7350	12	3993	8	5269	7	6365	9	7685	17
17	DH-293	9265	4	5798	22	10823	28	10211	11	6036	3	11269	7	8900	7	5755	13	7516	12	7757	32	7107	15	4060	7	4433	17	6105	17	7816	15
18	VaMH 12014	7976	16	5968	19	14630	3	11351	4	5189	19	11175	10	9381	2	5307	22	7899	6	9976	6	9054	2	3934	11	2450	40	6437	6	8437	3
19	JH 31820	8798	7	6191	12	11070	25	8386	26	3714	41	10406	18	8094	21	7336	3	7247	15	9561	17	3361	43	2757	36	3296	35	5593	26	7564	22
20	EH-2214	5418	34	3560	42	11330	23	7018	37	4415	35	8087	39	6638	37	5081	25	6936	22	7701	33	5729	24	3850	13	3683	32	5497	29	6710	36
21	CMH12-672	6929	24	4895	33	12749	13	8313	28	4630	30	11310	5	8138	19	3846	37	5797	39	8245	28	5972	22	3409	23	4994	9	5377	30	7323	28
22	BIO 274	9519	2	7520	1	13943	8	11489	3	6172	1	11306	6	9991	1	8080	1	5803	38	9634	14	8760	3	2621	38	5479	6	6729	3	8473	2
23	PHM 34	4392	38	3704	41	10094	34	7098	36	5158	22	9044	33	6582	39	4542	29	6067	35	6903	41	5503	29	3620	18	1479	44	4686	41	6403	39
24	KMH-5332	7812	18	4860	34	14655	2	10737	7	4786	27	11547	2	9066	6	3827	38	6505	30	10591	3	9055	1	3179	26	4328	21	6248	14	8053	4
25	KNMH-4508	7689	20	6942	4	10331	33	9124	16	6025	4	10020	23	8355	17	6845	6	7184	16	9393	20	6480	20	3038	30	6188	2	6521	5	7920	9
26	HKH 350	5602	33	5109	29	11097	24	7662	35	5851	5	8395	37	7286	34	2736	41	5834	37	6968	40	5674	26	2760	35	2826	38	4466	42	6581	37
27	HT 515349	3579	42	4638	37	12898	12	9193	15	4390	36	10855	14	7592	30	5381	19	7674	8	9754	12	8608	5	2267	41	4766	12	6408	8	7630	20
28	BGMH2	4975	37	5881	21	11866	16	8824	20	4624	31	9552	28	7620	29	4150	33	5336	40	9616	15	7334	13	3531	20	4265	23	5705	23	7510	23
29	LMH 1015	7807	19	6070	15	9359	40	8346	27	4932	25	11177	9	7948	23	5635	17	5266	41	7770	31	5054	34	3478	21	4359	20	5260	33	7273	30
30	DH-294	8120	13	4680	35	12003	15	8775	21	4553	33	8249	38	7730	28	5315	21	7724	7	8901	22	8390	6	2486	40	4524	16	6224	15	7609	21

Sl No	PEDIGREE	HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	CWZ MEAN	R	OV'L MEAN	R
31	IMH1533	5992	29	5510	27	7228	43	9590	13	2803	43	6706	42	6305	41	4322	31	6814	24	6547	42	5501	30	3962	9	4210	26	5226	35	6795	35
32	RCRMH2	9362	3	6984	3	14554	4	9524	14	5036	24	10440	17	9317	3	7239	4	9046	1	11078	1	7553	11	4549	2	5774	4	7540	1	8792	1
33	BL 107	8603	9	6197	11	13402	10	10166	12	4586	32	12489	1	9240	5	3780	39	7289	14	9556	18	7783	9	3232	25	4223	25	5977	19	7959	6
34	AH7009	7151	22	4326	39	8436	41	6287	39	5789	7	11373	4	7227	35	5332	20	7450	13	7020	38	5006	35	3028	31	4166	27	5334	31	6580	38
35	GK3131	5127	36	5708	23	15013	1	10289	10	5272	17	10267	19	8613	14	3984	35	6606	26	9774	10	8697	4	4062	6	4433	18	6259	13	7832	12
36	IIMRNH 2015-5	9214	5	6654	7	11366	22	10299	9	5311	15	9721	25	8761	11	5889	10	6549	29	10742	2	5705	25	4841	1	4797	11	6421	7	7820	14
37	DAS-MH-308	5204	35	6689	5	14421	5	11659	2	5434	11	9439	32	8808	8	5638	16	6117	33	10468	4	5883	23	2915	33	5921	3	6157	16	7996	5
38	BGMH1	7907	17	6670	6	10449	31	11076	5	5650	8	8899	34	8442	16	5276	23	6802	25	9303	21	5612	28	2726	37	4249	24	5662	24	7648	18
39	KMH 13-79	4260	40	4932	32	10987	26	7006	38	3734	40	8879	35	6633	38	4113	34	4453	43	7009	39	4999	36	3935	10	3741	30	4708	40	6090	41
40	BAUMC-3	4377	39	4333	38	8352	42	4309	44	5403	12	7622	40	5733	42	3508	40	7059	18	7405	35	5168	32	3759	15	2772	39	4945	37	6027	42
41	VEH 15-1	8050	15	7474	2	13270	11	10802	6	5631	9	10607	16	9306	4	5511	18	7964	5	9539	19	4705	38	2927	32	4663	15	5885	22	7633	19
	CHECKS																														
42	HM-9	6044	28	4315	40	10531	30	6275	40	4508	34	7404	41	6513	40	4876	27	6601	27	6235	43	5280	31	4152	5	2179	42	4887	39	6250	40
43	BIO-9637	7233	21	4677	36	11408	20	8773	22	5087	23	9527	29	7784	26	6153	8	7541	10	8887	23	8275	7	4344	3	4127	28	6555	4	7463	25
44	PMH-4	9789	1	6099	14	12468	14	8831	19	4833	26	10812	15	8805	9	6039	9	6214	32	8128	29	3135	44	3325	24	3885	29	5121	36	7482	24
	Location Mean	**6833**		**5491**		**11457**		**8658**		**4910**		**9778**		**7854**		**5078**		**6728**		**8653**		**6193**		**3359**		**4156**		**5695**		**7308**	
	C.D. (5%)	1074		654		3204		976		1178		491		1263		685		1331		1873		1401		520		739		1092		1114	
	C.V. (%)	9.68		7.33		17.23		6.94		14.78		3.09		-		8.31		12.18		13.34		13.93		9.54		10.96		-		-	
	F (Prob)	0		0		0		0		0		0				0		0		0		0		0		0					
	Plot Size	6		6		4.8		5.6		4.8		4.8		-		4.8		4.8		6		6		4.8		5.25		-		-	
	AGRONOMY DATA																														
	Sowing Date	27-06		3-07		22-06		23-07		14-07		7-07		-		25-06		24-06		9-07		16-07		16-07		24-06		-		-	
	Harvest Date	2-10		28-10		2-11		17-12		4-11		23-10		-		9-10		20-10		13-11		-		28-10		5-10		-		-	
	Irrigation Nos	4		8		3		7		11		9		-		3		-		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		150		-		120		150		120		120		100		120		-		-	
	Ferilizer Applied P	60		60		75		75		75		75		-		90		80		60		60		50		60		-		-	
	Ferilizer Applied K	50		50		37.5		40		75		75		-		-		-		40		40		-		60		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9															
						NHZ					NWPZ						NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
1	BRM 12-4	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-
2	AH1401	-	-	4.9	-	-	-	-	28.1	-	-	-	-	-	-	-	-
3	OMH 14-7	19.8	-	21.5	28.2	6.3	33.4	1.2	6.3	8	11.6	-	48.3	-	79.8	0.5	26.5
4	IMH1534	-	15.5	36.8	21.9	13.6	9.1	25.9	-	35.2	17.3	0.6	18.7	-	56.8	-	10.6
5	Muskan	45.3	-	45.7	62.2	20.6	57.4	16.1	-	53.8	30.6	25.7	34.6	2.9	78.5	-	18.1
6	IMH1524	28.6	-	40.4	21.4	14.7	13.7	10.6	18	29.6	17.8	-	35.1	-	22	-	6
7	PM15107M	15.5	-	30.2	52.2	7.4	30.4	18.7	14.4	35.6	24.5	23.4	-	5	49.5	8.3	6
8	RMH-301	50.2	-	50.5	35.4	29	41.1	21.3	0.1	11.8	18.3	-	27.5	-	115.2	-	18.2
9	LMH 715	26	5	58.9	27.9	26	35.9	16.1	18.2	48.7	29.2	40.9	43.6	3.7	68.3	-	22.9
10	KNMH-4502	28.9	-	30.2	-	11.9	29.1	45.4	11	32.2	30	1.4	28.6	-	39.1	3.8	11.3
11	IIMRNH 2015-4	16.8	33.7	57.5	47.7	34.4	42.5	11.3	-	31.1	20.3	-	38.2	-	57.4	14	24.2
12	KNMH-4504	30.3	-	48.4	-	19.9	44.3	6.7	-	28.9	18.8	1.8	-	-	39.7	-	-
13	IMH1527	46	-	78.9	5.3	31.9	22.6	3.7	27.8	45.8	24.3	21.3	31.6	-	71.6	18.5	22.5
14	Ganga-11	27	-	80.9	20.7	20.8	23.7	24.9	30.2	19.4	24.6	5.7	-	-	57.4	5.4	7
15	LMH 515	9.4	29.6	74	16.7	34.6	39.6	11	18.8	32.1	24.7	38.2	0.6	12	53.2	-	10.6
16	KH-2001 GOLD	54.4	15.1	55	-	38.4	6	25.7	16.1	25.2	18.7	-	21.4	-	51.8	-	3.4
17	DH-293	38.9	-	49.8	22.8	24.4	27.2	2.1	4.6	38	17.3	20.6	34.3	-	54.2	-	17.3
18	VaMH 12014	26.8	-	48.1	-	11	52.4	29.5	31	45.6	39.1	2.5	44	-	87.8	37.3	37.5
19	JH 31820	29.3	20.6	59.2	5.4	33.5	28	16.8	0.9	32.7	19.4	22.8	31.6	6.6	88.3	-	15.6
20	EH-2214	16.8	-	35.4	-	12.8	-	8.8	10	18.1	7.6	-	-	21.8	20.1	-	5
21	CMH12-672	3.1	-	29.4	-	2.5	27.6	14.6	28.7	33.9	25.8	-	24	0.5	22.4	3.7	11.6
22	BIO 274	14.4	-	79	1.9	13.9	43.8	16.3	-	81.6	34	38.4	47.2	-	57.9	1.7	21.8
23	PHM 34	8.3	10.7	14.5	-	10.9	9	14	18.4	-	10.1	-	3	0.5	18.4	-	-
24	KMH-5332	43.2	-	83.9	2.7	35.3	35.8	13.4	27	17.9	23	3	33.4	13.8	72.4	-	15.1
25	KNMH-4508	12.5	25.8	97.4	-	40.2	47.6	5.5	10.8	34.8	23.7	16.4	14.5	3.1	36.5	-	7.5
26	HKH 350	7.2	-	7.7	-	2.3	0.5	11.5	43.8	5.4	15.4	0.3	10.9	-	29.3	-	-
27	HT 515349	40.1	11.1	61.9	-	33.9	20	11.4	16.1	39.1	21.3	23.7	-	-	91.9	-	10.4
28	BGMH2	32	34.3	53.3	0.4	38.6	25.1	3.6	15	45.6	21.7	18.1	29.6	0.3	67.6	-	11.7

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9															
		NHZ					NWPZ										NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
29	LMH 1015	42	2	66	-	31.8	59.3	4.7	-	-	13	56.5	32.9	4.9	54.4	-	9.7
30	DH-294	43.2	23.5	33.2	32.1	32.5	19	31.1	0.8	37.1	22.3	4.5	13.7	3.8	27.6	-	9.1
31	IMH1533	41.2	10	55.3	18.7	32.1	10	35.7	9.1	25.3	20.7	28.1	-	-	28.7	-	-
32	RCRMH2	29.6	8	68.7	18	30.9	60.4	15.9	7.5	50.3	32.5	41.7	20.2	9	138.4	28.8	39.5
33	BL 107	31.5	25.9	-	-	20.1	31.3	24.8	1.5	36.9	23.5	-	-	1.4	57.3	42	20.3
34	AH7009	13.2	5.7	4.2	-	7.7	-	17.3	-	21	2.2	-	-	-	36.5	-	-
35	GK3131	37.3	6.4	66.9	-	32.4	51.2	22.7	-	37.4	25.9	-	-	-	41	-	1.6
36	IIMRNH 2015-5	31.6	10.3	78.5	0.9	35.1	61.9	11.5	-	22.6	20.1	9.1	6.4	-	36.2	-	-
37	DAS-MH-308	43.4	-	34.4	31.8	14.8	70.5	1.4	-	57.6	29.5	39.4	81.5	7.5	24.3	-	26.4
38	BGMH1	40.9	11.4	27.9	17.3	25.4	45.9	24.6	-	43.1	26.2	34.1	20.2	-	42.9	-	9.1
39	KMH 13-79	-	7.6	122.2	-	32.3	-	-	-	-	-	12.2	-	11	11.1	-	-
40	BAUMC-3	3.7	-	0.5	7.4	-	-	18.8	0.1	-	3	-	-	-	24.4	-	-
41	VEH 15-1	44.1	-	19.9	12.8	9.2	16.1	14.7	-	42.6	14.9	-	17.1	-	53.8	4.7	9.7
	CHECKS																
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	45.1	16.1	33.9	30.7	30.2	24.1	19.8	-	33.8	14.4	-	-	-	44.1	-	-
44	PMH-4	6.4	8.3	68.4	26.3	23.4	47.7	16.4	-	28.3	19.2	36.4	40.8	-	90.4	-	9.4

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	BRM 12-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	AH1401	-	-	9.9	-	-	-	-	-	-	55.5	-	-	8.7	-	-
3	OMH 14-7	-	44.3	36	41.2	18.8	51.2	32.7	-	5.4	63.9	-	-	49.7	7.9	18.1
4	IMH1534	46.7	28.8	-	26.3	15	37.6	21.6	-	-	14.5	51.5	-	161	15.2	16.6
5	Muskan	-	31.6	35.9	89.4	15.1	54	34.4	5.3	5.6	59.8	36	-	116.3	22.5	26.8
6	IMH1524	35.5	15.8	-	38.6	4.5	13.7	15.1	-	-	32.7	19.9	-	103.1	12.8	13.9
7	PM15107M	-	16.5	4	24	-	29	8.6	-	-	42.5	-	-	54.4	0.1	10.2
8	RMH-301	44	30.7	27.9	39.1	17.5	47.9	35.1	-	26.6	21.7	44.2	-	66.1	20.9	24.8
9	LMH 715	13.6	53.3	-	37.9	2.9	30.9	19.1	52.6	26.2	56.7	7.4	-	70.3	29.6	25.2
10	KNMH-4502	34.8	39.6	11.9	28.5	20.9	28.5	25.3	1.2	14.6	18.1	-	-	122.6	7.4	18.9
11	IIMRNH 2015-4	18.1	46.5	-	31	36.5	49	23.6	15.6	5.3	53.7	29.4	-	130	28.7	25.4
12	KNMH-4504	34.6	37.5	-	-	19	36.2	16.5	42.8	3.5	57	-	-	116.4	21.9	14.7
13	IMH1527	14.4	41.5	2.1	31.2	28.6	28	21	37.2	20.7	41.6	26.3	2.2	194.1	39.2	27.2
14	Ganga-11	8	25.4	-	28	-	35.2	12.8	20	-	25.6	28.1	-	33.5	13.5	16
15	LMH 515	34	40.1	8	43.8	15.9	47.1	29.6	20.6	14	58.1	25.2	-	96.2	29	26.1
16	KH-2001 GOLD	-	39.5	11.7	70.9	-	37.2	24.5	17.3	8.8	39.2	39.2	-	141.8	30.2	23
17	DH-293	53.3	34.4	2.8	62.7	33.9	52.2	36.7	18	13.9	24.4	34.6	-	103.5	24.9	25.1
18	VaMH 12014	32	38.3	38.9	80.9	15.1	50.9	44	8.8	19.7	60	71.5	-	12.4	31.7	35
19	JH 31820	45.6	43.5	5.1	33.6	-	40.6	24.3	50.4	9.8	53.4	-	-	51.3	14.4	21
20	EH-2214	-	-	7.6	11.8	-	9.2	1.9	4.2	5.1	23.5	8.5	-	69	12.5	7.4
21	CMH12-672	14.7	13.5	21.1	32.5	2.7	52.8	25	-	-	32.2	13.1	-	129.2	10	17.2
22	BIO 274	57.5	74.3	32.4	83.1	36.9	52.7	53.4	65.7	-	54.5	65.9	-	151.5	37.7	35.6
23	PHM 34	-	-	-	13.1	14.4	22.2	1.1	-	-	10.7	4.2	-	-	-	2.4
24	KMH-5332	29.2	12.6	39.2	71.1	6.2	56	39.2	-	-	69.9	71.5	-	98.7	27.8	28.8
25	KNMH-4508	27.2	60.9	-	45.4	33.6	35.3	28.3	40.4	8.8	50.7	22.7	-	184	33.4	26.7
26	HKH 350	-	18.4	5.4	22.1	29.8	13.4	11.9	-	-	11.8	7.5	-	29.7	-	5.3
27	HT 515349	-	7.5	22.5	46.5	-	46.6	16.6	10.3	16.3	56.4	63	-	118.7	31.1	22.1
28	BGMH2	-	36.3	12.7	40.6	2.6	29	17	-	-	54.2	38.9	-	95.7	16.7	20.1

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
29	LMH 1015	29.2	40.7	-	33	9.4	51	22	15.6	-	24.6	-	-	100.1	7.6	16.4
30	DH-294	34.3	8.5	14	39.8	1	11.4	18.7	9	17	42.8	58.9	-	107.6	27.3	21.7
31	IMH1533	-	27.7	-	52.8	-	-	-	-	3.2	5	4.2	-	93.2	6.9	8.7
32	RCRMH2	54.9	61.9	38.2	51.8	11.7	41	43.1	48.5	37	77.7	43.1	9.6	165	54.3	40.7
33	BL 107	42.3	43.6	27.3	62	1.7	68.7	41.9	-	10.4	53.3	47.4	-	93.8	22.3	27.3
34	AH7009	18.3	0.3	-	0.2	28.4	53.6	11	9.4	12.9	12.6	-	-	91.2	9.1	5.3
35	GK3131	-	32.3	42.6	64	16.9	38.7	32.2	-	0.1	56.8	64.7	-	103.4	28.1	25.3
36	IIMRNH 2015-5	52.5	54.2	7.9	64.1	17.8	31.3	34.5	20.8	-	72.3	8.1	16.6	120.2	31.4	25.1
37	DAS-MH-308	-	55	36.9	85.8	20.5	27.5	35.2	15.6	-	67.9	11.4	-	171.7	26	27.9
38	BGMH1	30.8	54.6	-	76.5	25.3	20.2	29.6	8.2	3.1	49.2	6.3	-	95	15.8	22.4
39	KMH 13-79	-	14.3	4.3	11.6	-	19.9	1.9	-	-	12.4	-	-	71.7	-	-
40	BAUMC-3	-	0.4	-	-	19.8	3	-	-	6.9	18.8	-	-	27.2	1.2	-
41	VEH 15-1	33.2	73.2	26	72.1	24.9	43.3	42.9	13	20.6	53	-	-	114	20.4	22.1
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	19.7	8.4	8.3	39.8	12.8	28.7	19.5	26.2	14.2	42.5	56.7	4.6	89.4	34.1	19.4
44	PMH-4	62	41.4	18.4	40.7	7.2	46	35.2	23.8	-	30.4	-	-	78.3	4.8	19.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637															
		NHZ									NWPZ						NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
1	BRM 12-4	-	-	-	-	-	-	-	32.9	-	-	-	-	-	-	-	-
2	AH1401	-	-	-	-	-	-	-	60.6	-	-	-	-	-	-	-	-
3	OMH 14-7	-	-	-	-	-	7.6	-	33.3	-	-	4.7	85.6	1.6	24.8	13.4	29.7
4	IMH1534	-	-	2.2	-	-	-	5.1	21.9	1.1	2.5	6.1	48.6	-	8.9	5.8	13.4
5	Muskan	0.1	-	8.8	24.1	-	26.9	-	23.4	15	14.1	32.5	68.4	4.9	23.9	-	21
6	IMH1524	-	-	4.9	-	-	-	-	48	-	3	-	69.1	-	-	-	8.6
7	PM15107M	-	-	-	16.4	-	5.1	-	43.5	1.4	8.8	30.1	-	7.1	3.8	22.3	8.7
8	RMH-301	3.5	-	12.4	3.6	-	13.7	1.2	25.5	-	3.5	-	59.5	-	49.4	-	21.1
9	LMH 715	-	-	18.7	-	-	9.6	-	48.2	11.1	12.9	48.6	79.8	5.8	16.8	8.3	26
10	KNMH-4502	-	-	-	-	-	4	21.4	39.2	-	13.6	6.9	60.9	-	-	17.2	14.1
11	IIMRNH 2015-4	-	15.2	17.6	13	3.2	14.9	-	24.2	-	5.2	-	72.9	1.4	9.3	28.7	27.4
12	KNMH-4504	-	-	10.8	-	-	16.3	-	23.4	-	3.9	7.3	7.3	-	-	-	-
13	IMH1527	0.6	-	33.6	-	1.3	-	-	60.2	9	8.7	27.8	64.8	-	19.1	33.7	25.6
14	Ganga-11	-	-	35.1	-	-	-	4.2	63.2	-	8.9	11.4	15.2	-	9.3	19	9.6
15	LMH 515	-	11.6	29.9	-	3.4	12.5	-	48.9	-	9	45.7	25.9	14.2	6.3	8.7	13.4
16	KH-2001 GOLD	6.4	-	15.8	-	6.2	-	4.9	45.5	-	3.7	2.9	51.9	-	5.3	-	6
17	DH-293	-	-	11.8	-	-	2.5	-	31.1	3.2	2.5	27.2	68.1	-	7	11.9	20.3
18	VaMH 12014	-	-	10.6	-	-	22.8	8.1	64.2	8.9	21.6	8	80.2	-	30.4	55	41
19	JH 31820	-	3.8	18.9	-	2.5	3.2	-	26.5	-	4.4	29.4	64.8	8.7	30.7	-	18.5
20	EH-2214	-	-	1.1	-	-	-	-	37.9	-	-	3.5	12.9	24.3	-	9.7	7.6
21	CMH12-672	-	-	-	-	-	2.8	-	61.3	0.1	10	-	55.2	2.6	-	17	14.4
22	BIO 274	-	-	33.7	-	-	15.9	-	22	35.8	17.2	45.9	84.2	-	9.6	14.8	24.9
23	PHM 34	-	-	-	-	-	-	-	48.5	-	-	-	28.9	2.5	-	-	-
24	KMH-5332	-	-	37.4	-	3.9	9.5	-	59.2	-	7.6	8.6	67	16.1	19.7	-	18
25	KNMH-4508	-	8.4	47.4	-	7.7	19	-	38.9	0.8	8.2	22.7	43.4	5.1	-	1.2	10.2
26	HKH 350	-	-	-	-	-	-	-	80.3	-	0.9	5.8	38.8	-	-	-	1
27	HT 515349	-	-	20.9	-	2.8	-	-	45.6	4	6.1	30.4	20.3	-	33.2	6.1	13.2
28	BGMH2	-	15.7	14.5	-	6.4	0.9	-	44.2	8.8	6.4	24.5	62.2	2.3	16.3	-	14.5

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637															
		NHZ					NWPZ										NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
29	LMH 1015	-	-	24	-	1.2	28.4	-	19.7	-	-	65	66.4	7	7.2	-	12.5
30	DH-294	-	6.4	-	1	1.7	-	9.4	26.4	2.5	6.9	10.2	42.3	5.8	-	12.5	11.8
31	IMH1533	-	-	16	-	1.4	-	13.2	36.8	-	5.5	35.1	24.1	-	-	-	-
32	RCRMH2	-	-	26	-	0.5	29.3	-	34.7	12.4	15.9	49.4	50.5	11.1	65.4	45.4	43
33	BL 107	-	8.4	-	-	-	5.8	4.2	27.2	2.4	8	-	12.7	3.4	9.2	60.4	23.3
34	AH7009	-	-	-	-	-	-	-	12.2	-	-	3.5	7.9	-	-	-	-
35	GK3131	-	-	24.7	-	1.6	21.8	2.4	18.2	2.7	10.1	-	24.6	-	-	5.9	4.1
36	IIMRNH 2015-5	-	-	33.3	-	3.7	30.5	-	10.1	-	5	15	33.2	-	-	-	1.2
37	DAS-MH-308	-	-	0.4	0.8	-	37.4	-	18.7	17.8	13.2	46.9	127.2	9.6	-	5.9	29.6
38	BGMH1	-	-	-	-	-	17.6	4	16.1	7	10.3	41.4	50.4	-	-	3.6	11.9
39	KMH 13-79	-	-	65.9	-	1.6	-	-	-	-	-	18.3	19.1	13.2	-	-	-
40	BAUMC-3	-	-	-	-	-	-	-	25.5	-	-	-	9.1	-	-	-	-
41	VEH 15-1	-	-	-	-	-	-	-	8.6	6.6	0.5	-	46.6	-	6.8	18.1	12.5
	CHECKS																
42	HM-9	-	-	-	-	-	-	-	25.4	-	-	5.4	25.2	2	-	12.9	2.5
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	PMH-4	-	-	25.7	-	-	19.1	-	8.3	-	4.2	43.8	76.3	-	32.1	-	12.2

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	BRM 12-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	AH1401	-	-	1.5	-	-	-	-	-	-	9.1	-	-	-	-	-
3	OMH 14-7	-	33.1	25.5	1	5.3	17.5	11	-	-	15	-	-	-	-	-
4	IMH1534	22.6	18.9	-	-	1.9	6.9	1.8	-	-	-	-	-	37.8	-	-
5	Muskan	-	21.4	25.5	35.5	2	19.7	12.4	-	-	12.1	-	-	14.2	-	6.2
6	IMH1524	13.3	6.9	-	-	-	-	-	-	-	-	-	-	7.2	-	-
7	PM15107M	-	7.5	-	-	-	0.3	-	-	-	-	-	-	-	-	-
8	RMH-301	20.3	20.5	18.1	-	4.1	14.9	13	-	10.8	-	-	-	-	-	4.5
9	LMH 715	-	41.4	-	-	-	1.8	-	20.9	10.5	9.9	-	-	-	-	4.8
10	KNMH-4502	12.6	28.8	3.3	-	7.1	-	4.9	-	0.3	-	-	-	17.5	-	-
11	IIMRNH 2015-4	-	35.1	-	-	21	15.8	3.4	-	-	7.8	-	-	21.4	-	5
12	KNMH-4504	12.4	26.8	-	-	5.4	5.9	-	13.1	-	10.1	-	-	14.2	-	-
13	IMH1527	-	30.6	-	-	14	-	1.2	8.7	5.6	-	-	-	55.2	3.7	6.5
14	Ganga-11	-	15.7	-	-	-	5.1	-	-	-	-	-	-	-	-	-
15	LMH 515	11.9	29.3	-	2.8	2.7	14.3	8.4	-	-	10.9	-	-	3.6	-	5.6
16	KH-2001 GOLD	-	28.7	3.1	22.3	-	6.6	4.2	-	-	-	-	-	27.7	-	3
17	DH-293	28.1	24	-	16.4	18.7	18.3	14.3	-	-	-	-	-	7.4	-	4.7
18	VaMH 12014	10.3	27.6	28.2	29.4	2	17.3	20.5	-	4.7	12.2	9.4	-	-	-	13
19	JH 31820	21.6	32.4	-	-	-	9.2	4	19.2	-	7.6	-	-	-	-	1.4
20	EH-2214	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	CMH12-672	-	4.7	11.8	-	-	18.7	4.5	-	-	-	-	-	21	-	-
22	BIO 274	31.6	60.8	22.2	31	21.3	18.7	28.4	31.3	-	8.4	5.9	-	32.7	2.7	13.5
23	PHM 34	-	-	-	-	1.4	-	-	-	-	-	-	-	-	-	-
24	KMH-5332	8	3.9	28.5	22.4	-	21.2	16.5	-	-	19.2	9.4	-	4.9	-	7.9
25	KNMH-4508	6.3	48.4	-	4	18.4	5.2	7.3	11.2	-	5.7	-	-	49.9	-	6.1
26	HKH 350	-	9.2	-	-	15	-	-	-	-	-	-	-	-	-	-
27	HT 515349	-	-	13.1	4.8	-	13.9	-	-	1.8	9.7	4	-	15.5	-	2.2
28	BGMH2	-	25.7	4	0.6	-	0.3	-	-	-	8.2	-	-	3.3	-	0.6

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
29	LMH 1015	7.9	29.8	-	-	-	17.3	2.1	-	-	-	-	-	5.6	-	-
30	DH-294	12.3	0.1	5.2	0	-	-	-	-	2.4	0.2	1.4	-	9.6	-	2
31	IMH1533	-	17.8	-	9.3	-	-	-	-	-	-	-	-	2	-	-
32	RCRMH2	29.4	49.3	27.6	8.6	-	9.6	19.7	17.7	20	24.7	-	4.7	39.9	15	17.8
33	BL 107	18.9	32.5	17.5	15.9	-	31.1	18.7	-	-	7.5	-	-	2.3	-	6.6
34	AH7009	-	-	-	-	13.8	19.4	-	-	-	-	-	-	0.9	-	-
35	GK3131	-	22.1	31.6	17.3	3.6	7.8	10.6	-	-	10	5.1	-	7.4	-	5
36	IIMRNH 2015-5	27.4	42.3	-	17.4	4.4	2	12.5	-	-	20.9	-	11.4	16.2	-	4.8
37	DAS-MH-308	-	43	26.4	32.9	6.8	-	13.2	-	-	17.8	-	-	43.5	-	7.1
38	BGMH1	9.3	42.6	-	26.3	11.1	-	8.4	-	-	4.7	-	-	2.9	-	2.5
39	KMH 13-79	-	5.5	-	-	-	-	-	-	-	-	-	-	-	-	-
40	BAUMC-3	-	-	-	-	6.2	-	-	-	-	-	-	-	-	-	-
41	VEH 15-1	11.3	59.8	16.3	23.1	10.7	11.3	19.5	-	5.6	7.3	-	-	13	-	2.3
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	PMH-4	35.3	30.4	9.3	0.7	-	13.5	13.1	-	-	-	-	-	-	-	0.3

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4															
						NHZ					NWPZ						NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
1	BRM 12-4	-	-	-	-	-	-	-	22.8	-	-	-	-	5.1	-	47	-
2	AH1401	-	-	-	-	-	-	-	48.3	-	-	-	-	2.1	-	-	-
3	OMH 14-7	12.5	-	-	1.5	-	-	-	23.1	-	-	-	5.3	9.6	-	84.7	15.6
4	IMH1534	-	6.6	-	-	-	-	8.2	12.6	5.4	-	-	-	1.7	-	72.3	1.1
5	Muskan	36.5	-	-	28.4	-	6.6	-	14	19.9	9.6	-	-	13.2	-	54.6	7.9
6	IMH1524	20.8	-	-	-	-	-	-	36.7	1	-	-	-	-	-	57.5	-
7	PM15107M	8.5	-	-	20.5	-	-	2	32.5	5.7	4.5	-	-	15.6	-	99.1	-
8	RMH-301	41.1	-	-	7.3	4.5	-	4.2	15.9	-	-	-	-	-	13.1	50.1	8
9	LMH 715	18.3	-	-	1.3	2	-	-	36.8	15.9	8.4	3.3	2	14.2	-	76.4	12.3
10	KNMH-4502	21.1	-	-	-	-	-	25	28.6	3.1	9.1	-	-	-	-	90.8	1.7
11	IIMRNH 2015-4	9.7	23.4	-	17	8.9	-	-	14.7	2.2	1	-	-	9.4	-	109.5	13.6
12	KNMH-4504	22.5	-	-	-	-	-	-	14	0.5	-	-	-	-	-	27.8	-
13	IMH1527	37.2	-	6.3	-	6.8	-	-	48	13.7	4.3	-	-	-	-	117.8	12
14	Ganga-11	19.3	-	7.4	-	-	-	7.3	50.7	-	4.5	-	-	1.3	-	93.7	-
15	LMH 515	2.8	19.6	3.3	-	9.1	-	-	37.5	3	4.6	1.3	-	23.3	-	77	1.1
16	KH-2001 GOLD	45	6.2	-	-	12.1	-	8	34.4	-	-	-	-	3.8	-	28	-
17	DH-293	30.5	-	-	-	0.8	-	-	21.1	7.6	-	-	-	6.6	-	82.2	7.2
18	VaMH 12014	19.1	-	-	-	-	3.1	11.3	51.6	13.5	16.7	-	2.2	6.3	-	152.4	25.7
19	JH 31820	21.5	11.3	-	-	8.2	-	0.4	16.8	3.5	0.2	-	-	17.4	-	30.5	5.7
20	EH-2214	9.7	-	-	-	-	-	-	27.4	-	-	-	-	34.1	-	78.6	-
21	CMH12-672	-	-	-	-	-	-	-	49	4.4	5.6	-	-	10.7	-	90.6	2
22	BIO 274	7.5	-	6.3	-	-	-	-	12.7	41.6	12.4	1.5	4.5	4.3	-	87	11.3
23	PHM 34	1.7	2.2	-	-	-	-	-	37.1	-	-	-	-	10.6	-	25.5	-
24	KMH-5332	34.5	-	9.2	-	9.6	-	-	47	-	3.2	-	-	25.3	-	29.4	5.2
25	KNMH-4508	5.7	16.2	17.2	-	13.6	-	-	28.3	5.1	3.8	-	-	13.5	-	64.9	-
26	HKH 350	0.7	-	-	-	-	-	-	66.5	-	-	-	-	3	-	38.8	-
27	HT 515349	31.6	2.5	-	-	8.5	-	-	34.5	8.5	1.8	-	-	2.6	0.8	72.8	0.9
28	BGMH2	24.1	24	-	-	12.3	-	-	33.2	13.5	2.1	-	-	10.4	-	39.6	2.1

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4															
		NHZ					NWPZ										NEPZ
		BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN
29	LMH 1015	33.4	-	-	-	6.8	7.9	-	10.6	-	-	14.8	-	15.5	-	28.7	0.3
30	DH-294	34.6	14	-	4.6	7.3	-	12.6	16.7	6.9	2.6	-	-	14.2	-	83.1	-
31	IMH1533	32.7	1.5	-	-	7	-	16.6	26.3	-	1.3	-	-	-	-	30.6	-
32	RCRMH2	21.7	-	0.2	-	6.1	8.6	-	24.4	17.2	11.2	3.9	-	20	25.2	136.8	27.5
33	BL 107	23.5	16.2	-	-	-	-	7.3	17.5	6.7	3.7	-	-	11.6	-	161.1	10
34	AH7009	6.3	-	-	-	-	-	0.8	3.6	-	-	-	-	-	-	43.3	-
35	GK3131	29	-	-	-	7.2	2.3	5.4	9.2	7.1	5.7	-	-	-	-	72.5	-
36	IIMRNH 2015-5	23.6	1.8	6	-	9.5	9.6	-	1.7	-	0.8	-	-	0.7	-	43.5	-
37	DAS-MH-308	34.8	-	-	4.3	-	15.4	-	9.6	22.9	8.7	2.2	28.9	18.3	-	72.5	15.5
38	BGMH1	32.4	2.8	-	-	1.6	-	7	7.2	11.6	5.9	-	-	6.2	-	68.7	-
39	KMH 13-79	-	-	32	-	7.2	-	-	-	-	-	-	-	22.2	-	-	-
40	BAUMC-3	-	-	-	-	-	-	2.1	15.9	-	-	-	-	-	-	56.1	-
41	VEH 15-1	35.4	-	-	-	-	-	-	0.3	11.2	-	-	-	-	-	92.4	0.3
	CHECKS																
42	HM-9	-	-	-	-	-	-	-	15.8	-	-	-	-	10.1	-	83.8	-
43	BIO-9637	36.4	7.2	-	3.5	5.5	-	2.9	-	4.3	-	-	-	7.9	-	62.8	-
44	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
1	BRM 12-4	-	-	-	-	-	-	-	-	-	-	10.7	-	-	-	-
2	AH1401	-	-	-	-	-	-	-	-	-	19.3	9.7	-	-	-	-
3	OMH 14-7	-	2.1	14.8	0.3	10.8	3.6	-	-	12	25.7	63	2.7	-	2.9	-
4	IMH1534	-	-	-	-	7.2	-	-	-	-	-	155.2	-	46.4	10	-
5	Muskan	-	-	14.8	34.6	7.3	5.5	-	-	12.2	22.6	129	-	21.3	16.9	5.9
6	IMH1524	-	-	-	-	-	-	-	-	4.5	1.8	102	-	13.9	7.7	-
7	PM15107M	-	-	-	-	-	-	-	-	5.5	9.3	14.6	-	-	-	-
8	RMH-301	-	-	8	-	9.6	1.3	-	-	34.4	-	142.9	7.9	-	15.4	4.3
9	LMH 715	-	8.4	-	-	-	-	-	23.2	34.1	20.2	80.8	-	-	23.7	4.6
10	KNMH-4502	-	-	-	-	12.8	-	-	-	21.7	-	53.7	-	24.8	2.5	-
11	IIMRNH 2015-4	-	3.6	-	-	27.3	2.1	-	-	11.9	17.9	118	12	29	22.8	4.7
12	KNMH-4504	-	-	-	-	11	-	-	15.3	10	20.4	17.1	13.4	21.3	16.3	-
13	IMH1527	-	0.1	-	-	19.9	-	-	10.8	28.2	8.6	112.7	27.6	64.9	32.8	6.2
14	Ganga-11	-	-	-	-	-	-	-	-	-	-	115.7	16.9	-	8.3	-
15	LMH 515	-	-	-	2.2	8.1	0.7	-	-	21.1	21.2	110.8	10.7	10	23.1	5.4
16	KH-2001 GOLD	-	-	-	21.4	-	-	-	-	15.6	6.8	134.5	20.1	35.6	24.3	2.7
17	DH-293	-	-	-	15.6	24.9	4.2	1.1	-	20.9	-	126.7	22.1	14.1	19.2	4.5
18	VaMH 12014	-	-	17.3	28.5	7.4	3.4	6.5	-	27.1	22.7	188.8	18.3	-	25.7	12.8
19	JH 31820	-	1.5	-	-	-	-	-	21.5	16.6	17.6	7.2	-	-	9.2	1.1
20	EH-2214	-	-	-	-	-	-	-	-	11.6	-	82.7	15.8	-	7.3	-
21	CMH12-672	-	-	2.3	-	-	4.6	-	-	-	1.4	90.5	2.5	28.5	5	-
22	BIO 274	-	23.3	11.8	30.1	27.7	4.6	13.5	33.8	-	18.5	179.4	-	41	31.4	13.2
23	PHM 34	-	-	-	-	6.7	-	-	-	-	-	75.5	8.9	-	-	-
24	KMH-5332	-	-	17.5	21.6	-	6.8	3	-	4.7	30.3	188.8	-	11.4	22	7.6
25	KNMH-4508	-	13.8	-	3.3	24.7	-	-	13.3	15.6	15.6	106.7	-	59.3	27.3	5.8
26	HKH 350	-	-	-	-	21.1	-	-	-	-	-	81	-	-	-	-
27	HT 515349	-	-	3.4	4.1	-	0.4	-	-	23.5	20	174.6	-	22.7	25.1	2
28	BGMH2	-	-	-	-	-	-	-	-	-	18.3	133.9	6.2	9.8	11.4	0.4

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ MEAN	OV'L MEAN
29	LMH 1015	-	-	-	-	2	3.4	-	-	-	-	61.2	4.6	12.2	2.7	-
30	DH-294	-	-	-	-	-	-	-	-	24.3	9.5	167.6	-	16.4	21.5	1.7
31	IMH1533	-	-	-	8.6	-	-	-	-	9.7	-	75.5	19.1	8.3	2	-
32	RCRMH2	-	14.5	16.7	7.8	4.2	-	5.8	19.9	45.6	36.3	140.9	36.8	48.6	47.2	17.5
33	BL 107	-	1.6	7.5	15.1	-	15.5	4.9	-	17.3	17.6	148.3	-	8.7	16.7	6.4
34	AH7009	-	-	-	-	19.8	5.2	-	-	19.9	-	59.7	-	7.2	4.2	-
35	GK3131	-	-	20.4	16.5	9.1	-	-	-	6.3	20.3	177.4	22.2	14.1	22.2	4.7
36	IIMRNH 2015-5	-	9.1	-	16.6	9.9	-	-	-	5.4	32.2	82	45.6	23.5	25.4	4.5
37	DAS-MH-308	-	9.7	15.7	32	12.4	-	0	-	-	28.8	87.6	-	52.4	20.2	6.9
38	BGMH1	-	9.4	-	25.4	16.9	-	-	-	9.5	14.5	79	-	9.4	10.6	2.2
39	KMH 13-79	-	-	-	-	-	-	-	-	-	-	59.4	18.3	-	-	-
40	BAUMC-3	-	-	-	-	11.8	-	-	-	13.6	-	64.9	13.1	-	-	-
41	VEH 15-1	-	22.5	6.4	22.3	16.5	-	5.7	-	28.2	17.4	50.1	-	20	14.9	2
	CHECKS															
42	HM-9	-	-	-	-	-	-	-	-	6.2	-	68.4	24.9	-	-	-
43	BIO-9637	-	-	-	-	5.2	-	-	1.9	21.4	9.3	163.9	30.6	6.2	28	-
44	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 30.0 %: DHOL 32.0 %

Table No. 4 (Continued)

		GRAIN SHELLING %															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	78.8	79.0	-	67.0	74.9	78.0	82.0	70.0	85.1	78.8	76.5	80.7	78.9	73.5	72.7	76.5
2	AH1401	79.3	81.7	85.5	69.3	78.9	84.1	82.7	78.0	83.3	82.0	75.5	80.4	78.1	76.5	73.6	76.8
3	OMH 14-7	85.7	79.3	82.2	70.0	79.3	84.1	77.8	76.0	85.0	80.7	80.0	86.5	82.8	79.0	78.1	81.3
4	IMH1534	79.9	79.2	80.1	69.0	77.1	83.0	82.3	75.0	84.3	81.1	77.5	82.6	80.8	77.5	77.1	79.1
5	Muskan	80.3	81.7	80.2	67.0	77.3	85.5	83.1	73.0	85.9	81.9	80.5	85.1	84.9	77.0	74.3	80.4
6	IMH1524	79.5	81.5	79.8	69.7	77.6	85.0	82.2	75.0	85.3	81.8	79.5	84.2	81.8	78.5	75.6	79.9
7	PM15107M	82.9	79.6	79.9	68.7	77.8	82.4	82.6	75.0	86.9	81.7	82.5	79.3	76.5	76.5	71.5	77.3
8	RMH-301	83.4	81.4	83.0	70.0	79.4	84.3	82.9	74.0	85.4	81.6	78.0	87.2	80.0	79.5	74.0	79.7
9	LMH 715	75.3	77.5	81.0	70.7	76.1	83.6	82.8	72.0	91.6	82.5	81.0	84.9	78.1	77.5	75.6	79.4
10	KNMH-4502	81.7	77.6	82.1	67.7	77.3	83.7	79.8	78.0	83.4	81.2	75.0	83.0	76.6	76.5	77.0	77.6
11	IIMRNH 2015-4	77.0	80.5	82.1	68.0	76.9	84.6	83.8	75.0	82.4	81.4	78.5	81.6	83.0	78.0	75.7	79.4
12	KNMH-4504	82.9	81.0	81.8	71.0	79.2	83.8	83.2	78.0	85.1	82.5	77.0	76.5	79.7	78.5	77.8	77.9
13	IMH1527	79.7	77.8	84.1	68.0	77.4	85.6	81.8	72.0	84.3	80.9	77.5	85.6	78.2	79.5	79.0	79.9
14	Ganga-11	77.6	77.5	80.1	68.7	76.0	83.9	83.3	78.0	83.3	82.1	79.0	80.8	80.0	72.5	72.6	77.0
15	LMH 515	82.6	80.0	82.3	69.7	78.6	83.0	77.3	74.0	82.5	79.2	80.0	81.7	79.7	77.0	77.0	79.1
16	KH-2001 GOLD	80.0	79.2	80.6	67.7	76.8	84.8	81.8	76.0	82.8	81.3	80.0	82.5	80.8	72.5	74.1	78.0
17	DH-293	82.0	80.9	81.8	67.0	77.9	81.7	81.9	72.0	83.5	79.8	85.0	83.5	81.1	77.5	74.7	80.4
18	VaMH 12014	80.4	81.9	82.6	69.3	78.6	85.8	80.9	76.0	86.0	82.1	76.0	85.4	82.2	79.5	80.1	80.6
19	JH 31820	79.4	78.8	81.1	68.0	76.8	85.0	83.7	75.0	85.5	82.3	83.0	83.1	77.4	77.5	78.0	79.8
20	EH-2214	79.9	78.8	81.9	69.3	77.5	83.4	78.0	73.0	86.7	80.3	73.0	83.2	80.4	71.5	75.8	76.8
21	CMH12-672	79.7	79.3	81.2	68.0	77.1	82.4	81.3	77.0	81.3	80.5	75.5	82.2	78.0	74.0	74.7	76.9
22	BIO 274	79.7	79.4	76.1	68.0	75.8	84.9	79.5	70.0	84.5	79.7	73.0	81.9	81.4	75.0	74.8	77.2
23	PHM 34	83.2	82.5	81.3	69.0	79.0	85.8	84.2	78.0	85.7	83.4	66.0	84.9	77.5	78.5	77.4	76.9
24	KMH-5332	81.6	82.5	82.6	69.3	79.0	79.5	81.8	75.0	87.4	80.9	78.5	83.8	83.3	76.0	75.4	79.4
25	KNMH-4508	80.0	78.8	80.6	70.3	77.4	83.8	80.6	78.0	85.4	81.9	78.5	83.2	76.6	78.0	77.0	78.7
26	HKH 350	80.8	82.8	81.3	69.3	78.5	88.7	81.1	76.0	87.5	83.3	84.0	84.0	82.6	79.0	79.7	81.9

Table No. 4 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %															
						NHZ					NWPZ						NEPZ
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	82.6	80.8	83.9	70.0	79.3	86.2	81.4	74.0	80.5	80.5	79.0	80.0	81.0	80.0	76.8	79.3
28	BGMH2	79.7	84.0	80.4	68.7	78.2	84.5	81.2	79.0	82.1	81.7	77.5	85.0	81.9	76.0	78.0	79.7
29	LMH 1015	79.9	83.9	80.6	68.3	78.2	83.8	83.7	72.0	81.4	80.2	93.0	83.5	80.0	79.0	72.8	81.6
30	DH-294	83.1	82.4	81.7	68.0	78.8	83.5	79.5	73.0	82.2	79.5	83.0	85.6	80.8	77.5	78.9	81.2
31	IMH1533	80.5	81.0	85.2	68.3	78.8	83.8	82.5	76.0	83.3	81.4	78.0	81.2	78.6	81.5	78.9	79.6
32	RCRMH2	81.1	80.2	83.8	67.0	78.0	85.2	82.2	70.0	87.0	81.1	74.0	83.8	77.8	79.0	79.4	78.8
33	BL 107	79.8	81.2	81.3	67.3	77.4	84.0	81.3	76.3	88.8	82.6	77.5	80.7	79.4	76.0	80.8	78.9
34	AH7009	81.5	81.3	81.6	69.0	78.3	82.7	79.2	74.0	83.8	79.9	73.0	84.1	81.4	80.5	76.3	79.1
35	GK3131	84.8	79.2	82.8	69.0	78.9	87.4	79.1	76.3	87.0	82.4	80.0	81.8	77.4	79.5	77.9	79.3
36	IIMRNH 2015-5	80.3	81.7	83.8	69.7	78.8	85.3	82.3	76.3	87.6	82.9	77.5	83.7	77.7	77.5	77.9	78.9
37	DAS-MH-308	81.2	78.3	78.3	70.7	77.1	84.5	82.0	74.3	86.5	81.8	73.5	85.2	78.4	78.5	77.2	78.6
38	BGMH1	79.6	81.3	76.1	69.0	76.5	81.1	80.9	75.0	84.2	80.3	78.0	82.5	80.0	75.0	76.9	78.5
39	KMH 13-79	78.5	81.0	84.5	71.0	78.7	84.3	83.6	78.0	75.3	80.3	76.5	81.1	81.8	77.5	70.0	77.4
40	BAUMC-3	75.8	81.7	78.8	70.0	76.6	81.9	80.0	78.3	79.4	79.9	77.5	77.5	77.9	76.0	74.5	76.7
41	VEH 15-1	83.1	80.8	76.8	69.3	77.5	84.4	79.0	78.0	87.0	82.1	82.5	85.2	78.1	77.5	76.5	80.0
	CHECKS																
42	HM-9	80.7	78.0	76.5	69.3	76.1	83.2	82.5	76.0	81.4	80.8	77.5	82.6	77.8	75.5	76.6	78.0
43	BIO-9637	79.4	81.5	82.9	66.7	77.6	87.1	82.5	77.7	85.7	83.2	75.3	80.8	81.0	76.0	77.2	78.1
44	PMH-4	84.8	80.5	85.3	65.7	79.1	87.0	81.9	75.7	87.9	83.1	73.0	86.2	78.3	77.5	78.0	78.6
	Loc. Mean	**80.7**	**80.4**	**81.4**	**68.8**	**77.8**	**84.1**	**81.5**	**75.2**	**84.5**	**81.3**	**78.1**	**82.9**	**79.8**	**77.2**	**76.3**	**78.9**
	C.D. (5%)	-	1.87	1.38	3.61	2.60	2.07	0.32	1.03	2.41	3.10	4.40	1.09	-	1.78	1.22	3.26
	C.V. (%)	-	1.43	1.04	3.24	2.39	1.51	0.24	0.84	1.75	2.73	3.47	0.81	-	1.42	0.99	3.31
	F (Prob)	0.00	0.00	0.00	0.61	0.07	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.04

Table No. 4 (Continued)

		GRAIN SHELLING %														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	66.1	80.3	84.2	81.0	73.6	74.7	76.6	70.4	61.0	89.0	78.2	83.7	72.7	75.8	76.5
2	AH1401	75.0	81.5	87.3	78.1	73.4	79.3	79.1	81.2	55.6	86.5	77.4	83.1	83.5	77.9	78.8
3	OMH 14-7	75.8	83.0	88.5	81.8	78.3	82.2	81.6	80.2	78.2	86.9	80.3	84.7	77.8	81.3	81.0
4	IMH1534	80.6	82.8	84.4	81.6	76.1	78.9	80.7	80.5	74.8	87.6	81.0	83.8	80.9	81.4	80.0
5	Muskan	75.5	80.7	85.0	82.3	78.6	77.8	80.0	79.3	77.3	84.6	79.4	80.1	73.0	78.9	79.7
6	IMH1524	77.2	80.3	84.9	80.8	75.5	79.0	79.6	81.0	73.3	90.4	81.0	75.5	77.9	79.8	79.8
7	PM15107M	74.6	80.3	84.8	81.6	75.4	76.0	78.7	80.8	74.1	88.6	76.9	81.9	77.3	79.9	79.0
8	RMH-301	81.4	83.3	87.0	83.6	77.3	79.3	82.0	82.7	78.3	89.2	82.0	85.7	77.9	82.6	81.2
9	LMH 715	75.2	76.6	85.5	80.6	74.9	77.0	78.3	81.8	78.7	89.3	77.9	84.5	76.1	81.4	79.6
10	KNMH-4502	76.5	80.5	85.0	80.5	75.0	79.1	79.4	80.0	77.8	81.4	78.0	76.6	78.6	78.7	78.8
11	IIMRNH 2015-4	74.5	81.0	85.5	81.6	75.7	78.6	79.5	80.2	76.1	90.0	78.7	81.1	78.9	80.8	79.7
12	KNMH-4504	76.0	79.5	83.9	82.4	74.8	78.9	79.2	80.5	77.1	87.6	75.1	80.1	78.4	79.8	79.6
13	IMH1527	75.9	83.0	86.0	82.1	77.7	81.5	81.0	80.0	77.4	89.2	77.8	82.8	77.9	80.8	80.2
14	Ganga-11	73.9	78.8	84.8	80.3	73.7	79.0	78.4	80.4	76.3	86.6	78.7	86.1	78.0	81.0	78.9
15	LMH 515	78.9	80.0	85.1	79.5	75.7	80.1	79.9	80.3	78.0	88.6	78.1	84.7	77.7	81.2	79.7
16	KH-2001 GOLD	69.6	74.9	88.2	82.3	75.9	76.7	77.9	81.8	76.8	86.8	77.8	80.3	79.0	80.4	78.9
17	DH-293	82.5	81.2	87.3	83.9	76.4	79.6	81.8	78.8	79.8	86.2	78.6	86.9	77.7	81.3	80.5
18	VaMH 12014	74.0	80.8	86.8	83.4	75.3	83.6	80.6	80.5	76.7	87.1	80.3	79.8	77.1	80.2	80.4
19	JH 31820	73.9	81.1	82.0	80.6	74.9	79.6	78.7	81.2	75.8	90.9	76.5	81.2	75.9	80.2	79.6
20	EH-2214	74.2	83.1	84.2	81.0	74.1	80.1	79.4	80.3	76.6	89.7	76.2	85.5	77.6	81.0	79.1
21	CMH12-672	71.6	81.1	83.0	79.4	76.1	78.5	78.3	80.2	74.9	90.0	78.3	84.0	76.9	80.7	78.7
22	BIO 274	71.4	80.8	84.8	80.9	78.3	78.0	79.0	80.5	73.5	87.4	76.6	82.7	78.9	79.9	78.5
23	PHM 34	77.5	81.9	86.6	82.8	74.6	79.9	80.5	81.3	75.2	88.2	79.7	82.0	77.6	80.7	80.0
24	KMH-5332	73.7	80.8	84.8	83.4	76.4	78.2	79.5	79.8	74.6	85.5	80.7	84.7	74.4	79.9	79.7
25	KNMH-4508	77.1	83.2	77.5	81.2	74.5	75.9	78.2	80.3	78.2	85.0	79.1	84.4	79.0	81.0	79.4
26	HKH 350	78.5	81.9	88.2	83.0	78.6	82.8	82.2	78.2	75.9	85.5	81.8	83.3	78.1	80.4	81.3

Table No. 4 (Continued)

		GRAIN SHELLING %														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
27	HT 515349	80.1	81.5	86.5	84.0	76.3	80.7	81.5	78.5	77.4	90.3	79.4	84.3	76.8	81.1	80.5
28	BGMH2	82.6	82.7	85.4	81.9	75.8	79.6	81.3	78.7	73.5	91.2	80.9	84.0	77.9	81.0	80.5
29	LMH 1015	75.9	82.1	84.3	81.8	77.0	79.0	80.0	80.1	68.7	88.4	79.9	84.6	78.2	80.0	80.1
30	DH-294	76.3	81.0	86.4	82.4	75.4	78.1	79.9	79.8	77.9	89.6	80.3	83.2	76.3	81.2	80.2
31	IMH1533	73.5	81.2	84.3	83.8	73.8	80.5	79.5	80.2	75.6	89.5	79.1	88.1	79.2	81.9	80.3
32	RCRMH2	76.9	81.3	86.6	82.3	75.1	80.4	80.4	81.0	77.6	86.5	80.9	83.1	80.8	81.6	80.1
33	BL 107	78.5	81.6	85.8	83.4	77.8	80.2	81.2	81.2	76.4	90.0	81.0	79.4	77.3	80.9	80.3
34	AH7009	76.9	81.4	87.6	83.5	78.6	80.7	81.4	81.5	78.6	87.4	79.9	84.2	76.3	81.3	80.2
35	GK3131	82.8	82.0	87.6	82.7	78.7	81.2	82.5	78.0	76.4	87.4	78.4	80.6	86.2	81.1	80.9
36	IIMRNH 2015-5	82.5	82.6	84.8	82.2	76.0	77.3	80.9	82.2	78.1	89.4	78.7	85.4	78.4	82.0	80.7
37	DAS-MH-308	75.2	80.7	84.6	82.8	77.8	79.0	80.0	81.2	76.3	86.8	77.2	83.9	76.0	80.2	79.6
38	BGMH1	76.1	79.7	82.1	81.2	75.3	75.1	78.2	80.9	75.6	84.9	75.4	82.6	80.3	80.0	78.7
39	KMH 13-79	72.0	80.8	85.2	80.4	73.8	80.6	78.8	78.6	56.4	92.5	79.6	83.3	76.0	77.7	78.5
40	BAUMC-3	71.7	81.3	82.7	78.9	73.7	76.6	77.5	78.2	76.2	87.8	78.3	81.6	74.7	79.5	78.0
41	VEH 15-1	74.6	82.9	87.1	82.6	77.2	81.6	81.0	79.8	78.1	89.0	75.7	82.6	79.5	80.8	80.3
	CHECKS															
42	HM-9	82.8	82.4	83.6	80.6	74.6	75.7	79.9	80.5	75.4	82.5	77.1	84.2	80.1	80.0	79.1
43	BIO-9637	73.3	81.0	87.2	82.2	76.6	78.2	79.7	82.5	78.9	89.2	80.0	86.4	77.0	82.3	80.2
44	PMH-4	86.6	81.5	88.0	82.2	76.0	81.4	82.6	79.9	76.2	90.0	79.5	82.8	77.7	81.0	80.9
	Loc. Mean	**76.3**	**81.1**	**85.3**	**81.8**	**75.9**	**79.1**	**79.9**	**80.1**	**75.1**	**88.0**	**78.8**	**83.0**	**77.9**	**80.5**	**79.7**
	C.D. (5%)	3.23	1.56	2.45	1.34	2.41	0.88	2.22	0.54	3.21	4.39	3.05	4.41	3.35	3.25	1.30
	C.V. (%)	2.61	1.19	1.77	1.01	1.95	0.69	2.44	0.42	2.63	3.08	2.38	3.27	2.65	3.55	2.94
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.27	0.00

Table No. 4 (Continued)

		MOISTURE % AT HARVEST															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	26.5	24.1	-	22.7	24.4	25.5	22.6	17.0	18.6	20.9	21.7	27.1	18.4	27.3	24.0	23.7
2	AH1401	24.4	24.5	23.4	22.0	23.6	21.4	22.5	17.0	18.6	19.9	22.2	27.2	19.1	25.5	21.9	23.2
3	OMH 14-7	26.3	23.7	25.2	24.3	24.9	30.2	21.5	16.0	19.3	21.7	23.2	27.6	18.9	29.5	24.9	24.8
4	IMH1534	25.8	24.1	23.4	22.7	24.0	26.8	21.5	13.7	18.0	20.0	24.3	27.7	18.6	26.0	24.2	24.2
5	Muskan	26.6	24.8	22.4	24.3	24.5	23.0	21.6	19.0	18.9	20.6	25.8	27.9	18.3	28.2	25.0	25.0
6	IMH1524	26.3	24.6	23.9	22.7	24.3	24.5	22.8	16.0	17.9	20.3	24.3	26.7	17.5	27.8	24.1	24.1
7	PM15107M	25.2	23.6	26.3	22.0	24.3	26.0	21.9	14.7	17.4	20.0	21.9	27.3	17.9	29.2	25.3	24.3
8	RMH-301	25.9	23.9	24.5	22.7	24.2	25.4	22.8	16.3	19.2	20.9	23.4	27.4	17.2	29.9	23.2	24.2
9	LMH 715	25.9	24.1	23.2	24.3	24.4	26.0	24.1	13.3	18.9	20.6	24.7	27.4	18.3	29.7	24.9	25.0
10	KNMH-4502	26.1	24.6	25.3	23.0	24.7	24.7	21.9	14.0	17.0	19.4	23.3	27.3	17.8	25.3	24.0	23.5
11	IIMRNH 2015-4	25.6	24.2	25.4	22.7	24.5	24.1	21.4	16.3	18.7	20.1	24.6	26.7	18.4	23.6	24.8	23.6
12	KNMH-4504	26.1	23.7	21.2	24.0	23.7	23.5	21.5	13.3	16.0	18.6	23.9	27.2	17.8	25.3	25.1	23.8
13	IMH1527	25.9	24.0	25.4	22.3	24.4	25.5	21.2	14.0	17.1	19.4	21.3	27.8	18.6	27.2	26.0	24.2
14	Ganga-11	25.6	23.9	23.6	21.7	23.7	24.4	21.6	18.0	16.0	20.0	21.7	27.7	18.1	23.9	24.9	23.2
15	LMH 515	26.3	23.2	26.3	22.7	24.6	25.0	22.6	13.0	18.6	19.8	25.6	27.3	18.3	28.5	24.3	24.8
16	KH-2001 GOLD	25.8	24.1	24.2	23.7	24.4	23.7	21.6	17.7	20.5	20.9	24.5	26.9	18.7	25.4	22.9	23.7
17	DH-293	26.1	25.1	21.3	22.0	23.6	26.8	22.7	15.7	19.6	21.2	23.6	27.3	18.6	30.3	25.2	25.0
18	VaMH 12014	25.6	23.3	23.8	24.0	24.2	26.4	21.4	13.3	20.3	20.3	22.1	27.1	18.2	29.3	26.0	24.5
19	JH 31820	26.3	24.5	25.1	23.3	24.8	23.1	23.1	14.3	18.5	19.8	22.5	27.7	18.4	26.3	23.8	23.7
20	EH-2214	26.3	25.3	24.4	21.3	24.3	28.5	23.2	14.3	17.5	20.9	24.8	26.8	17.2	24.9	24.1	23.6
21	CMH12-672	25.9	24.6	22.6	23.0	24.0	24.9	22.0	14.3	18.6	19.9	23.1	27.2	19.1	29.3	24.8	24.7
22	BIO 274	25.1	24.4	23.8	21.7	23.7	30.2	21.5	15.0	19.9	21.6	24.9	27.7	18.9	28.6	23.8	24.8
23	PHM 34	25.8	23.5	23.7	23.0	24.0	21.3	22.1	16.0	18.4	19.4	21.0	26.8	17.8	25.0	23.0	22.7
24	KMH-5332	26.1	24.6	23.4	22.7	24.2	25.8	22.9	14.0	20.5	20.8	24.7	27.3	17.5	27.6	23.3	24.1
25	KNMH-4508	26.3	24.3	23.3	21.7	23.9	24.9	22.8	14.7	19.9	20.5	24.8	27.3	17.2	26.6	23.9	23.9
26	HKH 350	25.4	24.3	24.8	22.7	24.3	24.2	21.9	15.0	17.5	19.6	24.5	27.0	18.4	25.7	23.0	23.7

Table No. 4 (Continued)

		MOISTURE % AT HARVEST															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	25.9	24.7	22.5	23.0	24.0	25.8	22.4	16.7	19.0	20.9	24.3	27.5	17.1	29.7	25.9	24.9
28	BGMH2	26.3	24.2	25.4	22.7	24.6	23.6	22.1	13.0	17.2	18.9	23.4	27.3	17.4	26.9	23.1	23.6
29	LMH 1015	26.3	24.8	22.4	23.7	24.3	25.3	24.3	17.0	19.7	21.6	22.3	27.2	17.7	26.7	23.9	23.6
30	DH-294	25.8	24.5	23.8	21.7	23.9	24.1	22.6	18.3	19.1	21.0	24.7	27.8	18.6	28.2	25.7	25.0
31	IMH1533	26.7	24.0	21.6	22.0	23.6	23.5	22.5	18.0	18.4	20.6	25.2	26.4	17.6	25.7	23.0	23.6
32	RCRMH2	26.3	24.1	25.1	23.7	24.8	25.2	21.9	17.7	17.2	20.5	25.1	27.0	17.8	28.4	26.5	24.9
33	BL 107	25.6	24.6	27.4	24.0	25.4	21.1	22.4	14.3	16.3	18.5	20.7	27.5	17.4	25.7	26.8	23.6
34	AH7009	25.9	23.8	26.6	22.7	24.7	23.1	24.4	17.0	18.2	20.7	24.7	26.6	18.1	23.7	22.3	23.1
35	GK3131	25.0	24.3	23.1	23.0	23.8	22.8	22.5	15.7	18.0	19.7	24.1	26.6	17.7	24.0	23.2	23.1
36	IIMRNH 2015-5	25.8	24.4	21.2	23.0	23.6	24.5	22.1	15.7	17.5	19.9	23.9	26.9	18.0	27.2	23.1	23.8
37	DAS-MH-308	26.1	24.6	26.2	22.0	24.7	28.1	24.2	15.3	19.1	21.7	24.8	28.1	18.8	28.8	24.8	25.0
38	BGMH1	26.1	24.1	23.2	23.3	24.2	25.8	22.0	15.7	18.2	20.4	26.3	27.1	17.8	29.2	25.0	25.1
39	KMH 13-79	25.8	25.2	23.1	22.3	24.1	21.3	22.1	14.7	17.9	19.0	22.8	26.7	18.1	20.4	22.9	22.2
40	BAUMC-3	25.9	24.7	25.1	22.7	24.6	29.3	22.1	15.0	17.4	20.9	24.7	26.9	18.3	29.3	23.2	24.5
41	VEH 15-1	26.3	24.2	22.1	22.3	23.7	26.0	22.1	14.7	19.7	20.6	23.9	27.4	18.8	28.8	23.9	24.5
	CHECKS																
42	HM-9	25.9	24.4	24.2	22.7	24.3	23.1	21.3	15.7	15.4	18.9	23.2	27.0	17.7	25.6	24.3	23.5
43	BIO-9637	27.2	24.6	23.8	22.3	24.5	24.6	21.6	15.0	17.4	19.6	22.7	27.4	17.5	27.6	23.9	23.8
44	PMH-4	24.9	24.1	26.3	23.3	24.6	24.9	22.5	13.7	16.3	19.3	19.8	27.3	18.3	23.3	22.9	22.3
	Loc. Mean	**25.9**	**24.3**	**24.0**	**22.8**	**24.2**	**24.9**	**22.3**	**15.4**	**18.2**	**20.2**	**23.6**	**27.2**	**18.1**	**26.9**	**24.2**	**24.0**
	C.D. (5%)	0.62	0.77	1.70	2.09	1.33	1.80	0.31	1.58	1.30	2.05	2.23	0.77	0.00	1.45	0.79	1.53
	C.V. (%)	1.48	1.97	4.32	5.64	3.92	4.44	0.86	6.31	4.38	7.25	5.83	1.74	0.00	3.32	2.00	5.09
	F (Prob)	0.00	0.00	0.00	0.33	0.85	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		MOISTURE % AT HARVEST													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	17.2	12.7	20.9	15.4	14.9	25.8	17.8	21.2	17.5	12.3	14.9	23.6	17.9	20.5
2	AH1401	19.6	14.0	21.9	15.3	14.7	27.9	18.9	18.0	16.6	14.7	16.2	23.7	17.8	20.5
3	OMH 14-7	19.5	20.4	22.7	15.4	14.8	28.9	20.2	17.9	18.0	16.3	14.9	23.9	18.2	21.8
4	IMH1534	22.3	23.3	20.2	16.4	14.6	27.2	20.6	17.6	17.4	13.1	15.7	24.8	17.7	21.2
5	Muskan	19.0	21.0	19.7	16.5	14.8	27.9	19.8	18.3	18.0	15.7	16.5	24.3	18.6	21.5
6	IMH1524	20.8	23.1	20.2	16.9	15.2	26.9	20.5	20.1	17.3	15.1	17.2	24.5	18.8	21.5
7	PM15107M	20.3	19.2	20.8	15.4	15.1	25.0	19.3	16.7	17.6	14.6	14.3	23.8	17.4	20.9
8	RMH-301	21.0	21.5	18.6	16.3	14.4	28.3	20.0	18.7	17.9	14.8	14.6	24.2	18.0	21.3
9	LMH 715	20.3	22.8	18.4	16.1	15.1	25.4	19.7	17.6	17.6	14.9	14.2	24.5	17.8	21.3
10	KNMH-4502	21.7	21.6	18.3	16.3	14.5	28.1	20.0	17.1	17.7	14.4	15.5	24.4	17.8	21.0
11	IIMRNH 2015-4	19.9	20.3	22.5	15.4	14.2	27.5	19.9	16.4	17.6	15.2	14.9	25.1	17.8	21.1
12	KNMH-4504	19.6	21.1	23.4	16.0	12.8	25.0	19.6	15.7	17.7	15.4	14.1	24.6	17.5	20.6
13	IMH1527	21.3	21.8	20.3	17.3	13.9	28.0	20.4	17.8	18.0	14.0	16.6	25.5	18.4	21.3
14	Ganga-11	18.6	20.2	21.9	16.1	14.3	26.1	19.5	17.2	17.4	14.3	16.2	23.5	17.7	20.7
15	LMH 515	19.6	23.8	22.9	16.1	14.3	27.2	20.6	17.8	17.8	15.1	15.6	24.1	18.1	21.5
16	KH-2001 GOLD	19.7	19.5	20.8	17.3	14.6	27.0	19.8	16.6	17.9	14.3	15.5	24.6	17.8	21.1
17	DH-293	21.5	20.6	24.2	16.0	14.8	27.2	20.7	16.5	17.8	14.7	15.9	24.1	17.8	21.5
18	VaMH 12014	21.0	21.5	23.9	16.2	15.0	27.6	20.8	15.5	17.4	14.2	16.2	23.6	17.4	21.4
19	JH 31820	18.9	18.9	19.6	16.5	13.4	27.9	19.2	17.8	16.9	15.1	15.2	24.0	17.8	20.9
20	EH-2214	19.6	21.6	22.3	16.4	13.5	27.8	20.2	16.3	17.6	13.9	17.2	24.2	17.8	21.2
21	CMH12-672	20.1	19.5	17.5	16.5	13.1	28.0	19.1	16.1	17.5	15.0	15.8	25.1	17.9	21.0
22	BIO 274	21.3	19.7	22.2	16.5	15.1	28.9	20.6	16.7	17.7	14.1	15.7	25.9	18.0	21.6
23	PHM 34	19.6	17.4	21.7	16.1	14.6	27.1	19.4	17.7	17.7	14.8	15.7	23.2	17.8	20.5
24	KMH-5332	20.7	20.9	23.3	16.5	14.9	28.0	20.7	17.9	17.7	12.8	14.9	24.1	17.5	21.3
25	KNMH-4508	20.9	19.0	25.8	16.0	15.0	28.8	20.9	19.2	17.7	16.6	15.3	25.2	18.8	21.5
26	HKH 350	18.1	15.1	21.5	15.0	14.0	28.5	18.7	17.6	17.6	14.3	15.5	23.4	17.7	20.6

Table No. 4 (Continued)

		MOISTURE % AT HARVEST													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	JHAB	CWZ Mean	OV'L Mean
27	HT 515349	20.4	18.3	18.3	16.0	14.6	24.9	18.7	20.1	18.1	16.1	15.7	24.9	19.0	21.3
28	BGMH2	18.6	17.8	20.5	15.9	13.2	27.9	19.0	16.7	16.9	13.3	15.7	24.5	17.4	20.5
29	LMH 1015	20.1	21.6	23.0	15.9	14.6	24.9	20.0	18.4	17.2	14.5	16.2	24.2	18.1	21.3
30	DH-294	19.8	20.8	25.1	15.9	14.8	25.0	20.2	20.5	17.6	14.5	16.8	24.4	18.8	21.7
31	IMH1533	21.1	14.9	20.7	16.2	13.9	25.8	18.7	20.0	17.3	13.9	14.3	24.3	17.9	20.7
32	RCRMH2	20.0	21.3	23.3	16.5	14.8	25.2	20.2	19.3	18.0	15.7	16.3	25.2	18.9	21.7
33	BL 107	19.7	18.9	21.7	15.5	14.4	26.1	19.4	19.9	17.6	13.1	15.4	24.1	18.0	20.8
34	AH7009	17.4	19.7	19.5	14.7	13.5	25.0	18.3	18.3	17.8	13.6	16.8	24.3	18.1	20.7
35	GK3131	21.2	18.9	21.9	15.4	14.5	24.6	19.4	17.8	17.1	14.7	15.5	23.9	17.8	20.6
36	IIMRNH 2015-5	20.3	18.3	21.9	16.0	14.3	26.7	19.6	19.5	17.2	14.5	15.4	24.7	18.3	20.9
37	DAS-MH-308	22.7	23.0	21.9	17.6	15.6	27.1	21.3	19.1	17.8	16.9	14.9	25.3	18.8	22.2
38	BGMH1	20.0	21.9	21.6	16.7	14.5	28.0	20.4	20.1	17.8	16.9	16.0	24.3	19.0	21.7
39	KMH 13-79	18.4	15.4	21.4	15.3	13.1	24.7	18.0	19.9	16.1	12.6	16.2	24.3	17.8	20.0
40	BAUMC-3	20.9	15.3	20.8	15.2	13.6	26.9	18.8	22.1	17.4	14.0	15.8	23.9	18.6	21.3
41	VEH 15-1	23.3	20.7	23.6	17.1	13.8	28.8	21.2	19.2	17.7	14.8	13.3	24.9	18.0	21.5
	CHECKS														
42	HM-9	19.1	17.6	25.7	15.8	13.6	28.1	20.0	19.9	17.5	13.3	13.8	23.4	17.6	20.7
43	BIO-9637	19.3	18.4	20.8	16.3	14.5	25.5	19.1	18.9	17.9	13.9	14.7	24.2	17.9	20.8
44	PMH-4	19.6	17.0	21.2	15.2	13.5	27.7	19.0	17.8	17.4	13.7	15.2	24.3	17.6	20.4
	Loc. Mean	**20.1**	**19.5**	**21.5**	**16.0**	**14.3**	**26.9**	**19.7**	**18.2**	**17.5**	**14.5**	**15.5**	**24.3**	**18.0**	**21.1**
	C.D. (5%)	1.55	1.61	2.92	0.51	0.92	0.87	1.65	0.47	0.45	1.86	0.59	0.67	1.20	0.71
	C.V. (%)	4.77	5.07	8.34	1.97	3.97	2.00	7.34	1.58	1.58	7.90	2.33	1.69	5.35	5.93
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.30	0.00

Table No. 4 (Continued)

		STAND AT HARVEST ('000/ha)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	35.2	64.6	15.2	36.8	37.9	66.7	58.3	77.1	51.7	63.4	38.3	51.2	58.3	59.7	61.8	53.9
2	AH1401	49.1	68.1	74.5	39.6	57.8	65.3	60.6	75.7	55.6	64.3	53.9	55.4	60.4	67.4	66.7	60.7
3	OMH 14-7	65.7	68.8	77.0	45.1	64.2	77.1	60.0	74.3	56.7	67.0	47.8	61.3	57.6	67.4	68.8	60.6
4	IMH1534	61.1	69.4	70.7	51.4	63.2	79.9	60.6	75.7	56.7	68.2	55.6	62.5	62.5	71.5	69.4	64.3
5	Muskan	75.0	68.1	74.5	49.3	66.7	83.3	58.9	75.7	56.7	68.6	53.3	59.5	62.5	70.1	63.2	61.7
6	IMH1524	69.4	70.8	77.0	45.8	65.8	79.9	58.9	69.4	56.7	66.2	46.7	61.9	62.5	66.0	63.2	60.0
7	PM15107M	44.4	66.0	69.4	36.8	54.2	66.7	59.4	72.9	55.6	63.6	45.6	51.2	56.3	50.0	62.5	53.1
8	RMH-301	71.3	74.3	77.0	52.1	68.7	81.3	60.0	73.6	56.7	67.9	50.6	61.9	55.6	67.4	77.1	62.5
9	LMH 715	65.7	70.8	75.8	47.2	64.9	80.6	57.8	75.0	56.7	67.5	55.0	58.9	61.8	67.4	77.1	64.0
10	KNMH-4502	61.1	74.3	75.8	46.5	64.4	83.3	58.9	75.0	56.7	68.5	52.2	66.1	56.9	69.4	66.7	62.3
11	IIMRNH 2015-4	63.9	75.7	74.5	46.5	65.2	86.1	60.6	74.3	56.7	69.4	64.4	63.7	54.2	68.1	77.8	65.6
12	KNMH-4504	66.7	71.5	69.4	45.8	63.4	78.5	60.6	73.6	56.7	67.3	52.8	62.5	58.3	66.7	69.4	61.9
13	IMH1527	65.7	68.8	72.0	46.5	63.2	82.6	57.8	74.3	55.6	67.6	51.7	65.5	58.3	66.7	71.5	62.7
14	Ganga-11	56.5	68.8	73.2	41.7	60.0	71.5	57.8	75.0	56.7	65.2	49.4	53.0	55.6	66.7	73.6	59.7
15	LMH 515	60.2	74.3	69.4	42.4	61.6	72.2	58.3	76.4	56.7	65.9	53.9	66.1	59.7	66.7	61.8	61.6
16	KH-2001 GOLD	64.8	71.5	70.7	45.8	63.2	82.6	57.2	72.9	56.7	67.4	56.1	64.3	62.5	67.4	62.5	62.6
17	DH-293	70.4	68.8	66.9	43.8	62.4	79.2	59.4	73.6	56.7	67.2	52.8	64.3	60.4	69.4	72.9	64.0
18	VaMH 12014	51.9	68.8	68.2	47.9	59.2	79.9	59.4	75.0	56.7	67.7	50.0	62.5	59.7	63.2	70.8	61.3
19	JH 31820	66.7	71.5	73.2	42.4	63.4	77.1	60.0	75.0	56.7	67.2	53.9	63.1	62.5	70.1	62.5	62.4
20	EH-2214	60.2	70.1	74.5	37.5	60.6	76.4	59.4	74.3	56.7	66.7	51.7	62.5	60.4	67.4	62.5	60.9
21	CMH12-672	53.7	72.2	78.3	35.4	59.9	77.1	56.7	74.3	56.7	66.2	47.8	60.1	57.6	66.7	68.8	60.2
22	BIO 274	59.3	66.0	78.3	38.2	60.4	77.8	60.6	75.0	56.7	67.5	62.2	71.4	61.8	66.7	77.1	67.8
23	PHM 34	70.4	70.8	69.4	36.1	61.7	80.6	59.4	73.6	56.7	67.6	49.4	69.0	64.6	66.0	62.5	62.3
24	KMH-5332	66.7	71.5	78.3	49.3	66.4	86.1	59.4	73.6	56.7	69.0	42.2	60.1	60.4	68.8	66.7	59.6
25	KNMH-4508	69.4	73.6	78.3	52.8	68.5	85.4	57.2	75.7	56.7	68.7	50.6	64.3	59.7	71.5	77.8	64.8
26	HKH 350	66.7	70.8	75.8	49.3	65.6	81.3	59.4	75.0	56.7	68.1	54.4	62.5	58.3	70.1	72.2	63.5

Table No. 4 (Continued)

		STAND AT HARVEST ('000/ha)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	54.6	66.7	70.7	43.1	58.8	81.9	60.6	75.0	56.7	68.5	55.0	65.5	56.3	68.8	73.6	63.8
28	BGMH2	71.3	72.9	69.4	41.0	63.7	82.6	58.3	75.0	56.7	68.2	54.4	64.3	60.4	72.2	76.4	65.6
29	LMH 1015	75.9	71.5	74.5	50.7	68.2	87.5	60.6	75.7	56.7	70.1	51.7	66.7	58.3	67.4	63.9	61.6
30	DH-294	70.4	72.9	73.2	41.0	64.4	85.4	57.8	77.1	56.7	69.2	48.9	59.5	61.1	69.4	62.5	60.3
31	IMH1533	65.7	72.9	74.5	47.9	65.3	74.3	60.6	75.0	56.7	66.6	53.9	58.9	60.4	66.7	59.0	59.8
32	RCRMH2	60.2	71.5	69.4	43.8	61.2	81.9	57.2	74.3	56.7	67.5	52.8	66.1	58.3	66.7	71.5	63.1
33	BL 107	59.3	75.7	66.9	38.9	60.2	76.4	58.3	75.7	56.7	66.8	56.7	53.6	61.1	61.1	66.7	59.8
34	AH7009	74.1	69.4	75.8	50.0	67.3	79.2	60.0	77.1	56.1	68.1	59.4	60.7	57.6	68.1	70.1	63.2
35	GK3131	66.7	71.5	77.0	49.3	66.1	83.3	60.6	75.7	56.7	69.1	55.6	54.8	59.0	66.0	68.8	60.8
36	IIMRNH 2015-5	48.1	71.5	73.2	42.4	58.8	80.6	61.1	73.6	56.7	68.0	55.0	61.9	60.4	65.3	63.2	61.2
37	DAS-MH-308	64.8	70.8	69.4	47.9	63.3	81.9	60.0	77.1	56.7	68.9	56.7	69.6	56.3	66.0	75.0	64.7
38	BGMH1	64.8	77.1	77.0	43.8	65.7	83.3	60.0	77.1	56.7	69.3	55.0	64.3	59.7	68.8	60.4	61.6
39	KMH 13-79	49.1	71.5	68.2	44.4	58.3	72.9	58.3	71.5	56.7	64.9	53.3	66.1	62.5	67.4	62.5	62.4
40	BAUMC-3	53.7	75.0	70.7	50.7	62.5	74.3	58.3	71.5	56.7	65.2	38.3	64.9	59.7	66.7	68.1	59.5
41	VEH 15-1	62.0	70.8	75.8	45.1	63.4	84.7	58.9	72.2	56.7	68.1	39.4	62.5	59.7	68.8	68.8	59.8
	CHECKS																
42	HM-9	66.7	70.8	73.2	48.6	64.8	72.9	58.9	71.5	56.7	65.0	49.4	58.9	61.1	72.2	62.5	60.8
43	BIO-9637	59.3	75.7	69.4	47.2	62.9	81.3	60.0	69.4	55.6	66.6	51.7	58.9	62.5	70.1	62.5	61.1
44	PMH-4	67.6	71.5	74.5	46.5	65.0	78.5	58.3	67.4	56.7	65.2	63.3	66.1	56.9	71.5	62.5	64.1
	Loc. Mean	**62.4**	**71.1**	**71.8**	**44.9**	**62.6**	**79.1**	**59.2**	**74.3**	**56.4**	**67.3**	**52.1**	**62.0**	**59.5**	**67.3**	**67.8**	**61.8**
	C.D. (5%)	7.12	4.72	4.72	7.78	7.83	8.97	3.62	5.68	1.47	3.97	13.34	7.01	5.66	7.11	6.75	5.15
	C.V. (%)	7.03	4.09	4.05	10.68	8.95	6.99	3.77	4.71	1.60	4.22	15.77	6.97	5.86	6.51	6.13	6.68
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.79	0.36	0.00	0.17	0.09	0.00	0.12	0.00	0.00	0.00

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	34.4	43.3	64.6	65.5	31.9	66.0	51.0	38.9	58.3	53.3	49.4	72.9	23.5	49.4	51.1
2	AH1401	50.6	50.0	81.9	60.1	45.1	65.3	58.8	48.6	63.2	56.1	47.2	73.6	48.9	56.3	59.3
3	OMH 14-7	61.1	56.1	84.7	64.9	56.3	66.0	64.8	46.5	67.4	61.7	55.0	58.3	50.8	56.6	62.3
4	IMH1534	61.1	47.8	85.4	64.9	56.3	66.0	63.6	59.0	56.9	62.8	70.0	72.2	64.1	64.2	64.5
5	Muskan	57.2	56.1	88.9	61.9	53.5	66.7	64.0	57.6	59.7	63.3	65.6	81.9	66.0	65.7	65.1
6	IMH1524	56.1	52.8	88.2	58.9	50.7	66.0	62.1	56.3	62.5	60.0	60.6	65.3	49.5	59.0	62.2
7	PM15107M	40.0	43.9	75.0	59.5	27.1	66.0	51.9	54.2	61.8	40.6	49.4	77.1	44.4	54.6	55.0
8	RMH-301	58.3	55.6	91.0	61.3	54.2	65.3	64.3	58.3	63.9	62.8	67.8	71.5	55.9	63.4	65.0
9	LMH 715	48.9	61.1	83.3	64.3	52.8	65.3	62.6	53.5	68.1	63.9	58.3	66.7	56.5	61.2	63.7
10	KNMH-4502	55.6	48.9	87.5	61.9	54.2	66.7	62.4	45.1	59.0	60.6	53.9	74.3	57.8	58.4	62.7
11	IIMRNH 2015-4	54.4	54.4	83.3	64.9	57.6	65.3	63.3	61.1	66.0	64.4	62.8	66.7	47.6	61.4	64.6
12	KNMH-4504	59.4	57.2	83.3	66.1	52.8	66.0	64.1	57.6	64.6	65.0	47.8	71.5	63.5	61.7	63.5
13	IMH1527	56.1	57.2	79.2	66.1	54.9	66.0	63.2	56.9	61.1	60.6	65.0	79.9	60.3	64.0	64.0
14	Ganga-11	55.0	57.8	64.6	57.7	47.9	66.7	58.3	59.7	56.9	60.0	63.9	76.4	48.3	60.9	60.6
15	LMH 515	53.9	53.9	78.5	59.5	54.9	66.0	61.1	58.3	63.9	59.4	61.1	75.7	44.4	60.5	61.9
16	KH-2001 GOLD	60.6	54.4	92.4	64.9	48.6	64.6	64.2	59.7	69.4	59.4	70.0	58.3	61.6	63.1	64.0
17	DH-293	55.0	59.4	83.3	56.0	57.6	66.7	63.0	61.1	58.3	64.4	66.1	72.9	60.3	63.9	64.0
18	VaMH 12014	55.6	49.4	74.3	61.9	54.9	66.7	60.5	48.6	59.0	61.1	77.2	76.4	43.8	61.0	61.7
19	JH 31820	60.0	56.1	85.4	57.1	47.2	65.3	61.9	63.9	65.3	57.2	47.8	78.5	47.0	59.9	62.6
20	EH-2214	44.4	46.7	78.5	54.8	50.7	66.7	57.0	56.3	63.2	61.1	56.7	72.2	69.2	63.1	61.4
21	CMH12-672	54.4	62.2	95.1	63.1	50.0	66.7	65.3	54.9	66.0	59.4	58.9	70.1	49.5	59.8	62.2
22	BIO 274	62.2	54.4	91.0	63.7	56.3	66.7	65.7	70.1	61.1	60.6	75.0	68.8	59.0	65.8	65.6
23	PHM 34	54.4	42.2	88.9	61.9	52.8	66.0	61.0	71.5	65.3	65.6	57.8	72.2	38.7	61.8	62.6
24	KMH-5332	57.8	40.6	91.7	61.9	50.7	66.0	61.4	61.8	61.1	65.6	76.1	77.1	57.1	66.5	64.3
25	KNMH-4508	63.9	51.7	84.7	63.1	56.3	66.7	64.4	57.6	66.7	63.9	62.2	77.8	70.5	66.4	66.3
26	HKH 350	58.3	56.1	92.4	63.7	54.9	65.3	65.1	55.6	64.6	63.9	59.4	65.3	47.6	59.4	64.0

Table No. 4 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
27	HT 515349	54.4	52.8	86.1	59.5	47.9	66.0	61.1	60.4	59.7	62.2	70.6	56.9	66.0	62.6	62.8
28	BGMH2	55.6	47.8	89.6	63.7	51.4	66.0	62.3	56.3	61.8	63.9	65.6	81.9	57.8	64.5	64.6
29	LMH 1015	61.7	52.2	92.4	67.9	47.9	66.0	64.7	45.8	63.2	63.3	52.8	74.3	66.0	60.9	64.6
30	DH-294	57.8	57.2	80.6	61.3	51.4	64.6	62.1	55.6	61.8	62.2	69.4	80.6	65.4	65.8	64.1
31	IMH1533	53.9	53.9	79.2	61.3	31.9	66.0	57.7	56.9	56.9	59.4	56.1	64.6	55.9	58.3	60.9
32	RCRMH2	55.6	57.8	86.1	65.5	52.1	65.3	63.7	54.2	63.2	60.6	68.3	63.2	66.7	62.7	63.6
33	BL 107	52.8	50.6	84.0	62.5	48.6	66.7	60.9	54.2	62.5	57.2	66.1	61.1	51.4	58.8	61.0
34	AH7009	62.8	57.2	90.3	63.7	54.9	65.3	65.7	56.3	67.4	63.3	53.9	64.6	63.5	61.5	64.8
35	GK3131	53.3	58.3	91.0	67.3	52.8	65.3	64.7	57.6	64.6	64.4	72.2	67.4	72.4	66.4	65.3
36	IIMRNH 2015-5	56.1	60.6	80.6	67.3	53.5	66.7	64.1	56.3	56.9	63.9	57.2	75.0	63.5	62.1	62.8
37	DAS-MH-308	57.8	55.0	90.3	64.9	52.8	66.7	64.6	61.1	61.8	61.1	58.9	71.5	52.1	61.1	64.2
38	BGMH1	57.8	58.3	79.2	66.7	56.3	65.3	63.9	54.9	59.7	63.9	54.4	77.1	67.9	63.0	64.4
39	KMH 13-79	55.6	38.3	88.2	64.9	46.5	65.3	59.8	55.6	57.6	60.0	52.8	78.5	50.2	59.1	60.7
40	BAUMC-3	52.2	52.2	79.9	58.3	54.9	66.7	60.7	53.5	61.1	60.6	54.4	73.6	46.3	58.3	60.9
41	VEH 15-1	53.9	62.2	97.2	65.5	53.5	66.0	66.4	52.1	67.4	62.8	51.7	81.9	56.5	62.1	63.8
	CHECKS															
42	HM-9	60.0	56.7	86.1	63.7	49.3	65.3	63.5	61.1	61.1	61.7	53.9	77.8	48.9	60.7	62.8
43	BIO-9637	63.3	54.4	84.0	61.9	54.2	65.3	63.9	61.1	63.2	66.7	71.7	77.1	47.6	64.6	63.8
44	PMH-4	56.7	61.7	90.3	64.3	50.7	66.0	64.9	56.3	67.4	65.6	48.3	70.8	55.2	60.6	63.8
	Loc. Mean	**55.7**	**53.6**	**84.8**	**62.7**	**50.9**	**65.9**	**62.3**	**56.4**	**62.5**	**61.4**	**60.5**	**72.1**	**55.4**	**61.4**	**62.8**
	C.D. (5%)	6.45	3.92	16.27	6.27	6.42	1.60	5.12	6.44	8.86	7.73	10.01	7.78	14.19	7.28	2.74
	C.V. (%)	7.14	4.51	11.82	6.15	7.77	1.49	7.23	7.04	8.73	7.76	10.19	6.65	15.77	10.42	7.87
	F (Prob)	0.00	0.00	0.08	0.00	0.00	0.26	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.01	0.00

Table No. 4 (Continued)

		DAYS TO 50% POLLEN SHED															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	68.0	52.0	54.3	71.3	61.4	52.7	54.3	56.3	62.7	56.5	56.7	67.3	49.0	56.7	57.3	57.4
2	AH1401	59.7	49.3	52.0	67.3	57.1	52.7	55.0	51.3	58.0	54.3	53.7	60.0	48.0	44.0	58.7	52.9
3	OMH 14-7	64.0	51.3	57.7	69.3	60.6	54.3	48.0	50.3	57.3	52.5	55.0	65.0	48.3	48.7	56.7	54.7
4	IMH1534	61.3	52.0	56.7	68.3	59.6	55.3	53.3	47.3	56.7	53.2	55.3	62.7	47.0	47.3	55.3	53.5
5	Muskan	61.0	51.3	55.3	70.0	59.4	49.7	57.7	50.3	57.3	53.8	54.3	63.7	50.0	46.3	54.3	53.7
6	IMH1524	60.7	50.3	55.0	68.3	58.6	51.7	55.7	56.3	56.0	54.9	52.3	62.7	49.0	45.7	56.3	53.2
7	PM15107M	59.3	51.3	55.0	68.3	58.5	50.0	55.7	54.7	51.7	53.0	53.0	62.0	47.0	46.3	49.3	51.5
8	RMH-301	59.0	49.3	53.0	69.3	57.7	50.7	56.3	48.7	57.3	53.3	53.0	63.0	48.0	45.7	54.7	52.9
9	LMH 715	63.7	51.3	56.3	70.3	60.4	49.0	52.0	56.3	55.7	53.3	54.3	65.0	48.7	50.7	54.3	54.6
10	KNMH-4502	60.3	51.0	55.3	68.7	58.8	50.3	52.0	54.3	53.3	52.5	53.7	62.3	50.0	47.3	53.7	53.4
11	IIMRNH 2015-4	58.0	51.7	54.3	67.7	57.9	49.0	55.0	55.3	50.3	52.4	51.0	61.3	51.0	47.3	51.3	52.4
12	KNMH-4504	58.7	50.7	52.3	68.3	57.5	47.3	56.3	52.7	51.7	52.0	53.3	61.0	48.0	46.0	50.3	51.7
13	IMH1527	59.0	51.7	54.3	69.0	58.5	51.3	56.0	48.7	53.0	52.3	53.0	61.7	49.0	46.3	55.7	53.1
14	Ganga-11	55.3	49.3	48.3	68.0	55.3	44.7	54.3	50.7	52.7	50.6	50.3	59.7	48.0	44.0	47.3	49.9
15	LMH 515	59.7	51.7	52.7	68.3	58.1	46.7	53.0	52.3	51.7	50.9	51.3	60.0	49.0	47.3	52.3	52.0
16	KH-2001 GOLD	57.7	49.3	48.7	68.0	55.9	49.3	57.7	54.7	50.7	53.1	51.0	59.7	47.7	45.3	52.7	51.3
17	DH-293	64.0	50.7	55.3	69.7	59.9	54.7	50.0	48.7	54.7	52.0	54.3	62.3	49.3	48.0	54.7	53.7
18	VaMH 12014	59.0	50.3	52.7	69.0	57.8	50.3	50.0	56.3	53.0	52.4	54.0	62.0	50.0	48.3	50.3	52.9
19	JH 31820	59.7	50.0	53.0	70.3	58.3	47.7	56.0	54.3	53.7	52.9	53.7	62.7	49.3	46.0	50.3	52.4
20	EH-2214	59.3	49.7	51.7	70.3	57.8	51.7	51.7	52.3	54.7	52.6	53.3	60.7	50.3	44.3	53.3	52.4
21	CMH12-672	60.3	51.7	54.3	68.3	58.7	48.7	51.3	50.3	53.7	51.0	53.7	62.7	50.7	49.0	53.7	53.9
22	BIO 274	63.0	52.0	55.3	68.0	59.6	53.3	53.3	53.3	57.0	54.3	54.0	64.0	49.0	48.0	58.7	54.7
23	PHM 34	58.7	49.7	49.3	68.3	56.5	44.3	51.7	54.7	51.7	50.6	51.0	59.7	49.7	44.0	47.7	50.4
24	KMH-5332	60.3	49.3	54.3	69.3	58.3	49.7	53.3	55.3	56.3	53.7	51.7	62.0	49.0	46.7	52.3	52.3
25	KNMH-4508	59.7	49.7	52.7	69.3	57.8	48.0	55.3	48.7	52.3	51.1	53.0	62.3	49.0	47.0	52.7	52.8
26	HKH 350	57.7	50.7	49.0	68.0	56.3	46.0	55.0	52.0	50.7	50.9	49.7	60.7	49.0	45.0	50.3	50.9

Table No. 4 (Continued)

		DAYS TO 50% POLLEN SHED															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	59.3	49.7	52.3	69.7	57.8	51.7	54.0	50.7	53.3	52.4	52.0	62.3	50.0	46.0	54.3	52.9
28	BGMH2	63.7	51.7	56.7	70.3	60.6	50.3	55.7	48.7	55.7	52.6	55.3	65.0	49.7	49.0	54.7	54.7
29	LMH 1015	60.3	51.3	54.3	70.0	59.0	49.3	59.7	53.3	62.7	56.3	54.0	63.7	49.0	49.0	56.3	54.4
30	DH-294	59.7	50.3	54.7	68.3	58.3	54.3	51.3	55.7	56.3	54.4	52.7	61.7	48.0	46.0	54.7	52.6
31	IMH1533	58.7	50.3	54.7	69.3	58.3	49.0	55.7	54.3	54.0	53.3	52.0	60.0	48.3	45.7	52.3	51.7
32	RCRMH2	60.3	51.7	54.7	68.3	58.8	50.7	56.3	48.7	53.0	52.2	53.0	62.3	48.7	48.3	55.7	53.6
33	BL 107	59.7	49.7	52.3	69.0	57.7	46.3	54.0	49.0	51.0	50.1	53.0	62.0	49.0	46.3	49.7	52.0
34	AH7009	56.3	49.3	49.3	67.3	55.6	47.0	51.7	48.3	49.0	49.0	47.7	59.0	49.0	42.3	44.7	48.5
35	GK3131	56.3	49.3	49.3	68.3	55.8	45.7	51.7	53.0	50.7	50.3	50.0	59.3	47.7	44.7	46.3	49.6
36	IIMRNH 2015-5	57.7	49.3	52.7	69.0	57.2	48.3	53.3	55.0	52.7	52.3	49.3	61.3	49.3	47.3	52.7	52.0
37	DAS-MH-308	67.7	51.7	62.0	70.7	63.0	52.3	55.0	51.7	59.3	54.6	53.7	63.7	49.0	49.7	57.3	54.7
38	BGMH1	60.3	50.7	56.3	68.3	58.9	51.0	52.3	54.3	54.3	53.0	53.3	62.3	48.7	49.7	54.3	53.7
39	KMH 13-79	58.7	49.0	48.3	68.3	56.1	47.0	55.0	53.0	58.7	53.4	52.3	59.3	49.3	44.3	50.3	51.1
40	BAUMC-3	59.3	49.3	52.3	70.0	57.8	51.0	52.3	45.3	56.0	51.2	52.7	62.0	46.0	47.3	56.7	52.9
41	VEH 15-1	61.3	51.7	59.7	71.3	61.0	54.3	53.3	43.3	58.3	52.3	54.7	64.3	48.0	49.0	55.3	54.3
	CHECKS																
42	HM-9	59.3	48.7	50.3	68.3	56.7	46.3	51.7	54.3	50.7	50.8	53.0	60.3	46.0	46.3	53.7	51.9
43	BIO-9637	58.7	50.3	52.3	68.3	57.4	49.0	54.7	55.7	53.7	53.3	52.0	61.3	47.0	46.0	52.3	51.7
44	PMH-4	59.0	51.7	50.3	68.0	57.3	48.0	56.7	50.7	53.3	52.2	52.7	60.3	47.3	44.7	52.3	51.5
	Loc. Mean	**60.1**	**50.5**	**53.4**	**69.0**	**58.3**	**49.8**	**54.0**	**52.1**	**54.5**	**52.6**	**52.8**	**62.0**	**48.7**	**46.9**	**53.1**	**52.7**
	C.D. (5%)	2.64	1.02	1.21	2.66	2.10	2.42	0.84	1.29	2.36	3.92	2.50	1.45	1.43	1.48	2.03	2.00
	C.V. (%)	2.71	1.25	1.39	2.38	2.57	2.99	0.96	1.52	2.67	5.33	2.92	1.44	1.81	1.95	2.35	3.04
	F (Prob)	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		DAYS TO 50% POLLEN SHED														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	66.7	53.0	56.0	56.0	47.7	46.0	54.2	65.3	47.3	62.3	49.0	50.7	52.3	54.5	56.4
2	AH1401	56.3	52.7	55.3	46.7	48.3	48.7	51.3	55.0	46.7	57.7	41.0	53.3	49.0	50.4	52.8
3	OMH 14-7	59.0	52.7	57.3	52.0	49.3	53.3	53.9	58.0	47.3	58.7	44.0	51.0	54.0	52.2	54.5
4	IMH1534	58.0	52.7	56.3	51.3	50.3	53.3	53.7	57.3	46.7	57.7	43.3	52.0	50.7	51.3	53.9
5	Muskan	57.3	53.3	57.3	51.0	48.0	53.0	53.3	58.0	50.0	58.3	41.0	51.3	52.7	51.9	54.1
6	IMH1524	57.3	53.0	58.0	49.0	47.7	48.3	52.2	56.7	47.0	58.7	40.0	51.7	52.3	51.1	53.6
7	PM15107M	55.7	53.7	55.0	50.0	47.7	48.7	51.8	57.0	47.0	56.0	45.3	52.0	54.0	51.9	53.0
8	RMH-301	56.7	53.0	56.3	49.0	49.0	50.0	52.3	56.7	47.3	57.3	37.0	51.0	52.7	50.3	53.0
9	LMH 715	58.3	52.7	57.7	51.7	49.3	52.0	53.6	58.7	49.3	58.0	46.0	51.7	54.0	52.9	54.7
10	KNMH-4502	56.7	53.7	56.3	50.3	47.0	52.3	52.7	57.7	47.0	58.7	42.0	50.7	53.3	51.6	53.5
11	IIMRNH 2015-4	56.7	52.7	55.3	49.7	49.0	49.0	52.1	54.7	48.0	57.3	44.0	51.7	51.0	51.1	52.9
12	KNMH-4504	54.7	52.3	54.7	48.7	46.3	49.0	50.9	56.7	48.0	56.0	41.3	51.3	52.0	50.9	52.3
13	IMH1527	59.0	52.7	56.7	50.0	48.7	51.0	53.0	57.7	46.0	57.7	38.0	50.3	50.0	49.9	53.1
14	Ganga-11	53.0	53.7	54.0	46.3	46.7	46.0	49.9	54.3	45.3	57.3	35.3	52.0	50.3	49.1	50.7
15	LMH 515	56.0	54.0	55.0	49.0	48.3	48.7	51.8	55.7	47.0	56.7	40.3	53.3	52.7	50.9	52.5
16	KH-2001 GOLD	54.7	52.7	55.3	46.7	43.7	48.0	50.2	56.7	47.7	56.0	40.3	51.0	49.7	50.2	51.8
17	DH-293	57.3	53.0	56.0	52.3	50.0	51.3	53.3	59.7	48.7	57.3	45.0	52.0	52.0	52.4	54.0
18	VaMH 12014	57.7	52.3	56.0	51.3	50.3	51.0	53.1	56.3	46.7	57.0	41.3	51.7	53.0	51.0	53.2
19	JH 31820	55.7	53.0	56.7	50.3	47.7	50.0	52.2	57.3	47.7	58.0	45.3	52.3	51.7	52.1	53.3
20	EH-2214	57.0	52.3	56.3	48.7	48.3	52.3	52.5	57.3	47.0	57.7	38.7	51.3	52.0	50.7	52.9
21	CMH12-672	57.3	52.7	58.0	51.7	48.7	51.3	53.3	57.7	49.0	58.7	43.3	51.0	53.3	52.2	53.6
22	BIO 274	57.3	53.0	56.3	51.0	48.7	53.0	53.2	57.3	49.0	59.3	46.3	50.7	53.0	52.6	54.6
23	PHM 34	54.7	52.3	54.3	47.3	47.7	48.7	50.8	56.3	49.7	56.3	38.0	51.7	52.3	50.7	51.6
24	KMH-5332	55.7	53.3	55.3	48.0	47.0	49.7	51.5	54.3	46.7	57.0	41.3	51.7	52.7	50.6	52.9
25	KNMH-4508	57.0	52.3	56.0	49.7	48.3	48.7	52.0	56.7	49.0	57.7	45.3	50.7	51.7	51.8	52.9
26	HKH 350	55.3	53.0	56.3	47.0	49.0	47.3	51.3	55.3	48.7	55.7	37.0	51.3	51.3	49.9	51.6

Table No. 4 (Continued)

		DAYS TO 50% POLLEN SHED														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
27	HT 515349	57.7	52.3	56.3	49.3	48.0	51.0	52.4	57.7	48.7	58.0	42.3	52.0	52.7	51.9	53.3
28	BGMH2	58.0	52.7	55.3	52.3	50.0	51.0	53.2	60.7	47.3	58.7	44.7	53.3	53.0	52.9	54.5
29	LMH 1015	58.3	54.3	56.3	49.3	48.3	52.0	53.1	60.3	49.0	57.3	42.3	50.7	52.3	52.0	54.5
30	DH-294	55.7	52.7	55.7	49.7	47.7	52.0	52.2	55.7	51.0	57.0	39.3	51.7	52.7	51.2	53.4
31	IMH1533	55.7	52.3	56.0	49.0	48.3	46.0	51.2	57.0	47.7	56.7	39.0	51.7	53.0	50.8	52.7
32	RCRMH2	58.7	53.0	56.3	52.3	49.0	52.7	53.7	58.3	47.3	56.3	42.7	51.0	53.7	51.6	53.7
33	BL 107	57.7	52.7	56.7	50.0	49.0	56.0	53.7	57.7	47.7	56.3	39.0	51.7	51.7	50.7	52.7
34	AH7009	54.7	51.3	55.3	46.0	44.7	47.0	49.8	54.0	48.3	57.7	36.0	51.3	48.0	49.2	50.2
35	GK3131	52.3	52.3	54.3	48.0	47.0	48.0	50.3	53.7	47.7	56.3	36.0	51.0	51.3	49.3	50.8
36	IIMRNH 2015-5	56.0	52.7	57.7	50.7	48.7	50.3	52.7	55.0	45.3	57.3	43.0	50.3	51.3	50.4	52.7
37	DAS-MH-308	57.3	52.7	57.3	51.7	50.0	53.3	53.7	60.0	48.0	57.0	44.3	51.3	54.3	52.5	55.2
38	BGMH1	58.0	52.7	56.0	50.3	48.7	51.0	52.8	58.0	46.0	57.3	39.7	51.0	52.3	50.7	53.5
39	KMH 13-79	53.0	52.3	54.7	47.3	42.3	47.0	49.4	55.0	47.0	56.0	36.7	52.0	47.7	49.1	51.4
40	BAUMC-3	57.7	52.7	56.3	50.0	50.7	48.3	52.6	60.0	47.7	58.0	43.3	50.0	52.3	51.9	53.1
41	VEH 15-1	59.0	52.7	55.7	51.7	48.7	53.3	53.5	61.3	49.0	59.7	47.0	50.7	56.0	53.9	54.8
	CHECKS															
42	HM-9	57.0	52.7	56.0	48.0	47.7	49.3	51.8	56.3	46.7	57.0	39.0	52.0	52.3	50.6	52.1
43	BIO-9637	56.7	52.3	55.3	47.3	48.0	50.0	51.6	57.0	49.0	57.3	38.7	52.7	51.7	51.1	52.7
44	PMH-4	55.0	52.3	55.3	49.0	46.3	48.3	51.1	54.3	49.0	55.3	42.3	53.3	50.7	50.8	52.3
	Loc. Mean	**56.8**	**52.8**	**56.0**	**49.7**	**48.1**	**50.2**	**52.3**	**57.2**	**47.8**	**57.5**	**41.5**	**51.5**	**52.1**	**51.2**	**53.1**
	C.D. (5%)	2.19	1.27	2.10	1.54	1.61	1.39	1.57	1.59	2.17	1.80	0.93	1.98	1.60	1.88	0.99
	C.V. (%)	2.38	1.49	2.31	1.91	2.06	1.71	2.63	1.72	2.80	1.93	1.37	2.36	1.90	3.22	3.35
	F (Prob)	0.00	0.13	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00

Table No. 4 (Continued)

		DAYS TO 50% SILKING															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	70.0	56.0	57.7	73.0	64.2	54.3	55.0	59.3	65.7	58.6	59.3	69.7	52.0	61.0	59.3	60.3
2	AH1401	62.0	53.3	55.0	69.7	60.0	54.3	57.0	55.7	61.0	57.0	57.3	64.7	50.7	53.0	60.7	57.3
3	OMH 14-7	66.0	55.3	61.7	71.3	63.6	55.3	50.3	54.0	60.3	55.0	58.0	69.7	51.3	52.7	58.7	58.1
4	IMH1534	63.7	56.0	60.7	70.3	62.7	56.7	55.3	51.3	59.7	55.8	58.3	65.3	50.0	52.0	57.3	56.6
5	Muskan	63.3	55.3	58.7	72.3	62.4	51.3	60.3	53.3	60.7	56.4	57.7	66.7	52.7	53.0	56.3	57.3
6	IMH1524	62.7	54.0	59.0	70.7	61.6	53.3	57.7	60.3	59.0	57.6	56.3	67.0	52.0	53.3	58.3	57.4
7	PM15107M	61.3	55.3	58.0	70.0	61.2	51.3	57.0	57.7	54.7	55.2	55.7	65.0	50.0	49.0	51.3	54.2
8	RMH-301	61.0	53.0	57.0	70.7	60.4	51.7	58.3	53.0	60.3	55.8	56.7	67.3	51.0	51.7	56.7	56.7
9	LMH 715	65.7	55.0	59.3	72.3	63.1	50.7	54.0	59.0	58.3	55.5	57.3	70.0	51.7	54.0	56.3	57.9
10	KNMH-4502	62.3	55.0	59.3	71.0	61.9	51.3	54.3	57.3	56.3	54.8	57.0	65.7	52.3	53.3	55.7	56.8
11	IIMRNH 2015-4	60.3	54.7	57.7	69.0	60.4	50.0	56.3	59.3	53.0	54.7	53.3	64.7	54.0	49.7	53.3	55.0
12	KNMH-4504	60.7	54.7	56.3	70.0	60.4	48.7	59.0	55.7	54.7	54.5	57.0	64.3	51.0	50.7	52.3	55.1
13	IMH1527	61.0	55.7	57.7	70.7	61.3	53.0	58.0	51.7	56.0	54.7	56.3	66.0	52.0	54.0	57.7	57.2
14	Ganga-11	57.3	53.3	51.7	70.0	58.1	45.7	56.3	53.7	55.3	52.8	47.3	62.7	51.0	48.7	49.3	51.8
15	LMH 515	61.7	55.7	56.3	70.0	60.9	47.7	55.0	55.3	54.3	53.1	55.3	63.7	53.0	51.3	54.3	55.5
16	KH-2001 GOLD	59.7	52.7	52.7	69.3	58.6	50.3	60.7	57.7	53.3	55.5	55.0	64.0	50.7	49.3	54.7	54.7
17	DH-293	66.3	54.7	59.3	71.7	63.0	55.7	52.0	52.0	57.7	54.3	57.7	65.7	52.3	53.7	56.7	57.2
18	VaMH 12014	61.0	54.3	56.3	70.7	60.6	51.0	52.0	59.7	56.0	54.7	56.7	65.0	53.0	52.0	52.3	55.8
19	JH 31820	61.7	53.3	56.0	72.0	60.8	48.7	58.0	57.3	56.7	55.2	56.7	67.7	52.0	50.3	52.3	55.8
20	EH-2214	61.7	53.7	55.7	72.7	60.9	53.0	53.7	55.7	57.7	55.0	56.3	65.0	53.7	50.3	55.3	56.1
21	CMH12-672	62.3	55.7	57.7	70.3	61.5	50.7	53.3	53.7	56.7	53.6	56.7	66.7	53.3	54.0	55.7	57.3
22	BIO 274	65.0	56.0	58.7	70.3	62.5	54.0	55.3	56.0	59.7	56.3	56.7	69.7	52.0	52.3	60.7	58.3
23	PHM 34	60.7	53.7	52.7	69.7	59.2	45.3	53.7	58.7	54.3	53.0	54.7	63.0	52.0	48.3	49.7	53.5
24	KMH-5332	62.7	53.3	58.0	71.3	61.3	51.0	55.3	58.3	59.3	56.0	55.3	65.0	51.7	50.0	54.3	55.3
25	KNMH-4508	61.7	54.3	55.7	71.0	60.7	49.0	57.3	53.7	55.3	53.8	55.7	66.0	51.7	52.0	54.7	56.0
26	HKH 350	59.7	56.0	52.7	69.7	59.5	47.0	57.7	55.3	52.7	53.2	53.7	64.3	51.7	49.7	52.3	54.3

Table No. 4 (Continued)

		DAYS TO 50% SILKING															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	61.7	53.7	55.3	71.7	60.6	53.0	56.0	53.7	56.3	54.8	55.7	65.7	52.7	60.7	56.3	58.2
28	BGMH2	65.7	55.7	60.3	73.0	63.7	52.0	57.0	51.7	58.3	54.8	58.0	69.7	52.3	52.0	56.7	57.7
29	LMH 1015	63.0	55.3	57.7	71.7	61.9	50.7	61.7	55.3	65.7	58.3	57.0	66.0	51.7	53.0	58.3	57.2
30	DH-294	61.7	54.3	58.7	69.7	61.1	55.3	53.3	58.7	58.3	56.4	56.3	65.7	50.7	52.0	56.7	56.3
31	IMH1533	61.7	54.3	58.7	71.7	61.6	50.3	58.3	58.0	57.0	55.9	55.7	63.7	51.3	51.7	54.3	55.3
32	RCRMH2	62.7	55.7	58.3	70.0	61.7	52.0	58.3	52.3	56.0	54.7	56.3	65.3	51.3	52.0	57.7	56.5
33	BL 107	61.7	53.7	56.3	71.0	60.7	47.7	56.0	52.7	53.3	52.4	56.7	65.7	52.0	50.7	51.7	55.3
34	AH7009	58.3	52.7	53.3	69.3	58.4	48.0	53.7	51.3	52.0	51.3	52.0	62.7	52.0	47.7	46.7	52.2
35	GK3131	58.3	53.3	52.7	69.7	58.5	46.7	54.0	56.7	53.3	52.7	54.0	62.3	50.7	49.0	48.3	52.9
36	IIMRNH 2015-5	59.7	52.7	56.0	71.0	59.8	49.0	54.7	58.3	55.7	54.4	53.0	65.0	52.0	51.7	54.7	55.3
37	DAS-MH-308	69.7	55.7	65.3	72.7	65.8	54.0	57.7	55.0	62.3	57.3	57.3	68.3	51.7	54.3	59.3	58.2
38	BGMH1	63.0	54.7	60.3	71.0	62.3	52.3	54.3	57.7	57.3	55.4	56.7	66.3	51.3	53.0	56.3	56.7
39	KMH 13-79	60.7	51.7	51.3	70.3	58.5	49.0	57.7	56.3	61.7	56.2	55.7	62.7	51.7	49.7	52.3	54.4
40	BAUMC-3	61.3	53.3	56.3	72.0	60.8	52.3	54.3	52.3	59.0	54.5	56.0	66.7	48.7	53.0	58.7	56.6
41	VEH 15-1	63.7	55.7	63.7	73.0	64.0	55.7	55.3	50.3	61.3	55.7	58.3	68.0	50.7	53.3	57.3	57.5
	CHECKS																
42	HM-9	61.3	52.3	53.7	70.3	59.4	48.0	53.7	54.0	53.3	52.3	56.3	63.3	49.0	51.0	55.7	55.1
43	BIO-9637	61.0	54.3	56.3	70.0	60.4	50.3	57.3	57.3	56.7	55.4	55.7	64.3	50.0	50.7	54.3	55.0
44	PMH-4	61.7	55.0	54.0	70.3	60.3	49.3	59.7	53.7	56.3	54.8	56.3	64.7	50.0	49.3	54.3	54.9
	Loc. Mean	**62.2**	**54.4**	**57.0**	**70.9**	**61.1**	**51.1**	**56.0**	**55.5**	**57.3**	**55.0**	**56.0**	**65.7**	**51.6**	**51.9**	**55.1**	**56.1**
	C.D. (5%)	2.61	1.34	1.14	2.94	2.12	2.46	0.97	1.29	2.42	3.78	3.44	2.51	1.64	4.39	2.03	2.14
	C.V. (%)	2.58	1.52	1.23	2.55	2.48	2.97	1.07	1.44	2.60	4.91	3.78	2.35	1.96	5.22	2.27	3.06
	F (Prob)	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		DAYS TO 50% SILKING														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	68.7	54.7	56.3	59.7	52.3	48.0	56.6	66.3	50.3	63.3	52.7	52.7	56.7	57.0	59.0
2	AH1401	59.0	54.7	56.3	49.0	51.3	50.7	53.5	56.3	49.7	58.7	44.7	54.0	54.3	52.9	55.7
3	OMH 14-7	60.7	54.7	58.0	54.0	53.7	55.7	56.1	60.7	50.3	59.7	47.0	52.7	59.7	55.0	57.3
4	IMH1534	59.7	54.7	56.3	53.3	54.3	55.7	55.7	60.3	49.7	58.7	46.7	53.0	53.0	53.6	56.5
5	Muskan	59.3	55.0	58.3	53.3	52.0	55.7	55.6	61.0	53.0	59.3	44.3	53.0	58.0	54.8	57.0
6	IMH1524	59.7	54.7	57.3	52.0	52.0	50.3	54.3	59.3	53.3	59.7	43.7	53.3	56.3	54.3	56.6
7	PM15107M	57.3	55.0	56.7	51.0	50.3	50.7	53.5	58.3	50.0	57.0	48.7	53.0	57.7	54.1	55.3
8	RMH-301	58.3	54.7	57.0	50.7	51.7	52.3	54.1	59.0	50.3	58.3	40.3	52.7	56.7	52.9	55.6
9	LMH 715	60.3	54.7	57.3	52.7	52.7	54.3	55.3	59.7	52.3	59.0	49.3	53.3	58.7	55.4	57.1
10	KNMH-4502	58.7	55.7	57.3	51.7	50.7	55.0	54.8	59.3	50.7	59.7	45.0	52.0	57.7	54.1	56.2
11	IIMRNH 2015-4	58.3	54.7	55.3	49.7	51.7	51.3	53.5	56.3	51.0	58.0	47.0	53.0	53.0	53.1	55.0
12	KNMH-4504	56.7	54.7	55.3	50.0	50.0	51.0	52.9	58.7	51.0	57.0	45.0	52.7	54.3	53.1	54.9
13	IMH1527	60.7	54.7	58.3	52.3	52.3	53.0	55.2	60.3	49.7	58.7	41.7	51.3	54.0	52.6	55.9
14	Ganga-11	54.7	54.3	54.0	48.3	49.7	48.0	51.5	56.0	48.3	58.3	38.3	54.0	52.7	51.3	52.8
15	LMH 515	58.3	56.3	55.3	50.0	51.3	50.7	53.7	57.3	50.0	57.7	43.7	54.7	55.0	53.1	55.0
16	KH-2001 GOLD	56.7	54.7	56.3	48.7	47.3	50.0	52.3	58.0	51.0	57.0	43.3	51.7	52.7	52.3	54.3
17	DH-293	59.3	54.7	56.7	52.7	53.7	53.3	55.1	61.0	51.7	58.3	48.7	53.3	55.7	54.8	56.6
18	VaMH 12014	59.7	54.7	56.0	52.3	53.3	53.0	54.8	58.3	49.7	58.0	45.0	53.0	57.3	53.6	55.6
19	JH 31820	57.3	55.0	57.0	51.3	51.3	52.3	54.1	58.0	50.7	59.0	48.7	53.0	54.3	53.9	55.6
20	EH-2214	59.3	54.3	57.0	50.0	51.3	54.7	54.4	59.7	50.0	58.7	41.3	53.0	55.7	53.1	55.6
21	CMH12-672	59.3	54.7	58.3	53.0	52.0	53.3	55.1	59.7	52.0	59.7	47.3	52.7	56.7	54.7	56.2
22	BIO 274	59.0	54.7	58.0	52.7	52.0	55.7	55.3	59.3	52.0	60.3	49.3	52.3	57.7	55.2	57.2
23	PHM 34	56.7	54.3	55.0	48.7	51.0	51.0	52.8	58.7	52.7	57.3	41.3	53.3	55.0	53.1	54.1
24	KMH-5332	57.3	53.7	56.7	49.7	50.3	51.7	53.2	56.0	50.0	58.0	44.7	53.3	56.0	53.0	55.3
25	KNMH-4508	58.7	54.7	55.7	51.3	51.0	50.7	53.7	59.0	52.0	58.7	49.0	51.7	53.7	54.0	55.4
26	HKH 350	57.3	54.7	38.7	48.3	52.0	49.3	50.1	56.7	51.0	56.7	39.7	52.3	53.7	51.7	53.3

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
27	HT 515349	59.3	54.7	56.7	51.0	51.0	53.7	54.4	61.0	51.7	58.7	45.0	53.0	56.0	54.2	56.2
28	BGMH2	59.3	54.7	57.3	53.3	53.3	53.0	55.2	62.0	50.3	59.7	47.3	54.0	58.3	55.3	57.0
29	LMH 1015	60.3	55.7	57.7	50.7	51.0	54.7	55.0	61.7	52.0	58.3	45.7	52.0	55.7	54.2	56.9
30	DH-294	57.7	54.3	56.3	52.3	51.7	54.3	54.4	57.7	54.0	58.0	42.7	53.3	57.3	53.8	56.0
31	IMH1533	58.3	54.7	56.7	52.0	51.3	48.7	53.6	60.0	50.7	57.7	41.7	53.3	57.3	53.4	55.6
32	RCRMH2	60.0	55.0	57.7	53.0	52.3	54.7	55.4	60.0	50.3	57.3	45.7	53.0	55.7	53.7	56.1
33	BL 107	59.0	55.0	57.3	51.7	52.3	58.0	55.6	59.7	50.7	57.3	42.0	53.3	54.3	52.9	55.2
34	AH7009	55.3	53.3	56.3	47.7	47.3	49.0	51.5	56.0	51.3	58.7	38.7	53.0	52.7	51.7	52.8
35	GK3131	54.3	53.3	54.3	49.3	50.0	50.7	52.0	55.0	50.0	57.3	39.0	52.7	54.3	51.4	53.2
36	IIMRNH 2015-5	58.0	54.7	57.7	51.7	51.3	52.7	54.3	56.7	48.3	58.3	46.3	51.0	54.7	52.6	55.0
37	DAS-MH-308	59.3	54.7	57.7	53.0	53.3	55.3	55.6	61.3	51.0	58.0	47.7	53.0	60.0	55.2	57.9
38	BGMH1	59.3	55.0	57.0	52.7	52.0	53.0	54.8	60.3	48.7	58.3	42.7	53.0	56.3	53.2	56.1
39	KMH 13-79	55.0	54.0	55.7	49.0	45.3	49.0	51.3	57.0	50.0	57.0	39.3	52.7	50.0	51.0	53.8
40	BAUMC-3	60.0	54.7	57.3	51.7	53.7	50.3	54.6	62.3	50.7	59.0	46.0	51.7	57.0	54.4	55.9
41	VEH 15-1	61.0	55.0	57.3	54.3	52.0	55.3	55.8	63.3	51.0	60.7	50.3	52.7	62.0	56.7	57.7
	CHECKS															
42	HM-9	59.0	54.7	57.0	48.7	51.7	51.3	53.7	58.0	49.7	58.0	42.0	54.0	56.3	53.0	54.5
43	BIO-9637	58.7	54.7	56.0	49.0	51.0	52.7	53.7	60.0	52.0	58.3	41.7	54.3	56.0	53.7	55.3
44	PMH-4	57.0	54.0	56.0	50.3	49.7	50.3	52.9	56.3	52.0	56.3	45.7	55.0	54.0	53.2	54.9
	Loc. Mean	**58.7**	**54.7**	**56.3**	**51.3**	**51.4**	**52.4**	**54.1**	**59.1**	**50.8**	**58.4**	**44.7**	**53.0**	**55.8**	**53.6**	**55.7**
	C.D. (5%)	1.94	1.32	7.60	2.01	1.64	1.44	1.97	1.57	2.57	1.77	1.39	1.98	2.16	2.01	1.04
	C.V. (%)	2.04	1.49	8.32	2.42	1.96	1.69	3.20	1.64	3.11	1.87	1.92	2.31	2.39	3.30	3.37
	F (Prob)	0.00	0.23	0.29	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.11	0.00	0.00	0.00

Table No. 4 (Continued)

		DAYS TO 75% DRY HUSK															
						NHZ				NWPZ						NEPZ	
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE
1	BRM 12-4	109.3	99.0	92.7	128.0	107.3	89.3	87.7	92.7	89.9	87.3	105.3	89.0	89.7	89.3	92.1	106.7
2	AH1401	104.3	97.0	90.7	124.7	104.2	88.0	87.7	96.0	90.6	87.3	99.7	87.0	82.7	89.3	89.2	98.3
3	OMH 14-7	105.3	98.0	97.3	126.3	106.8	93.3	83.0	96.0	90.8	87.7	105.0	87.7	82.0	86.3	89.7	98.3
4	IMH1534	105.3	98.7	96.3	125.3	106.4	87.0	86.0	95.3	89.4	87.3	101.7	86.0	78.7	87.3	88.2	98.3
5	Muskan	105.7	98.3	94.3	127.3	106.4	92.3	87.3	96.7	92.1	88.0	103.0	88.7	84.3	87.7	90.3	97.7
6	IMH1524	104.3	97.0	94.7	125.7	105.4	87.7	86.7	97.7	90.7	85.3	102.0	89.3	83.3	82.7	88.5	96.7
7	PM15107M	101.7	98.7	93.7	125.0	104.8	90.3	88.3	99.3	92.7	84.7	100.0	88.0	82.3	83.7	87.7	95.0
8	RMH-301	104.3	97.0	92.7	125.3	104.8	92.3	86.7	98.3	92.4	83.3	102.3	90.0	85.3	83.3	88.9	96.0
9	LMH 715	106.0	98.0	95.0	127.3	106.6	92.3	83.3	97.0	90.9	85.7	105.0	88.7	85.3	84.3	89.8	97.7
10	KNMH-4502	105.7	97.7	95.0	126.0	106.1	92.0	88.7	98.3	93.0	86.0	102.0	88.7	83.3	88.3	89.7	97.3
11	IIMRNH 2015-4	100.3	99.0	93.3	124.0	104.2	86.3	85.0	99.3	90.2	82.3	100.0	88.7	78.7	80.7	86.1	97.7
12	KNMH-4504	100.0	97.7	92.0	125.0	103.7	88.0	88.7	98.3	91.7	86.3	99.3	87.0	79.0	80.7	86.5	96.0
13	IMH1527	101.3	98.7	93.3	125.7	104.8	84.3	83.0	97.0	88.1	85.0	101.0	89.0	81.3	84.7	88.2	99.7
14	Ganga-11	99.7	96.7	87.3	125.0	102.2	86.0	83.7	95.3	88.3	83.3	97.7	88.3	79.3	80.3	85.8	95.7
15	LMH 515	101.7	98.7	92.0	125.0	104.3	85.7	79.3	92.0	85.7	83.0	98.7	88.0	80.0	81.7	86.3	99.0
16	KH-2001 GOLD	104.3	96.7	88.3	124.3	103.4	84.0	85.0	91.0	86.7	84.0	99.0	90.0	80.7	79.7	86.7	96.7
17	DH-293	103.3	97.7	95.0	126.7	105.7	93.3	82.3	89.7	88.4	86.3	101.3	89.0	83.0	88.3	89.6	99.3
18	VaMH 12014	103.7	97.3	92.0	125.7	104.7	89.3	83.0	94.3	88.9	84.7	100.0	89.0	82.7	84.7	88.2	99.3
19	JH 31820	102.0	96.3	91.7	126.7	104.2	86.7	82.7	92.3	87.2	86.7	102.7	90.0	82.7	82.7	88.9	96.7
20	EH-2214	104.3	96.7	91.3	127.7	105.0	91.0	85.7	93.3	90.0	86.0	100.0	89.0	81.0	84.3	88.1	97.7
21	CMH12-672	104.3	98.7	93.3	125.3	105.4	87.3	85.0	92.0	88.1	86.7	103.0	90.0	82.3	85.3	89.5	99.0
22	BIO 274	106.3	99.0	94.3	125.3	106.3	94.3	87.0	93.0	91.4	88.7	105.0	90.7	85.0	86.7	91.2	98.7
23	PHM 34	104.3	97.0	88.3	124.7	103.6	84.7	82.0	95.3	87.3	83.0	95.3	88.0	77.3	80.7	84.9	96.0
24	KMH-5332	105.3	96.3	93.7	126.3	105.4	90.7	88.3	94.0	91.0	86.7	100.7	88.0	79.3	81.7	87.3	95.3
25	KNMH-4508	102.0	97.3	91.3	125.3	104.0	87.7	87.3	95.0	90.0	83.7	101.0	87.7	78.7	85.7	87.3	98.3
26	HKH 350	104.0	98.7	88.3	124.7	103.9	88.3	85.3	96.3	90.0	82.7	98.7	89.0	81.3	80.7	86.5	95.7

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK															
						NHZ				NWPZ						NEPZ	
		BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE
27	HT 515349	105.7	97.7	91.0	126.7	105.3	93.3	83.7	90.7	89.2	83.0	100.7	91.0	87.0	84.7	89.3	99.0
28	BGMH2	102.0	98.7	96.0	128.0	106.2	89.0	82.7	94.3	88.7	87.7	104.7	87.0	80.7	82.3	88.5	99.0
29	LMH 1015	104.0	98.3	93.3	126.7	105.6	91.3	90.0	93.3	91.6	86.7	102.7	87.0	81.3	86.3	88.8	98.7
30	DH-294	107.3	96.7	94.3	124.7	105.8	93.7	82.3	94.7	90.2	86.7	100.7	89.0	85.0	83.3	88.9	98.0
31	IMH1533	102.3	98.0	94.3	126.7	105.3	83.7	85.0	97.7	88.8	84.0	98.7	87.0	78.7	85.7	86.8	98.0
32	RCRMH2	103.3	98.7	94.0	124.7	105.2	93.0	87.0	96.0	92.0	86.0	100.7	88.0	80.3	86.3	88.3	98.0
33	BL 107	106.0	97.3	92.0	126.0	105.3	87.7	83.0	95.7	88.8	84.7	100.7	87.0	82.0	83.3	87.5	97.3
34	AH7009	103.3	98.0	89.0	124.3	103.7	85.0	81.3	90.0	85.4	83.3	97.0	89.3	79.7	78.7	85.6	94.7
35	GK3131	103.3	97.7	88.3	124.3	103.4	88.7	82.0	92.7	87.8	83.3	97.3	88.0	76.7	83.0	85.7	93.0
36	IIMRNH 2015-5	103.0	95.3	91.7	126.0	104.0	86.7	87.3	92.0	88.7	82.3	100.0	88.0	82.3	82.7	87.1	96.3
37	DAS-MH-308	106.0	98.7	101.3	127.7	108.4	94.0	87.0	90.7	90.6	86.7	103.3	87.7	86.3	81.3	89.1	98.3
38	BGMH1	104.0	98.0	96.0	126.0	106.0	86.3	94.7	87.7	89.6	85.3	101.3	87.0	81.3	87.7	88.5	97.7
39	KMH 13-79	104.3	96.3	87.0	123.7	102.8	85.7	88.3	91.0	88.3	84.3	97.7	85.0	78.3	84.3	85.9	94.0
40	BAUMC-3	103.7	96.3	92.0	127.0	104.8	88.0	87.0	93.3	89.4	82.7	101.7	87.0	85.0	86.7	88.6	95.3
41	VEH 15-1	106.3	99.0	99.3	128.0	108.2	91.3	84.3	91.3	89.0	88.0	103.0	89.0	82.3	85.7	89.6	99.0
	CHECKS																
42	HM-9	105.7	96.0	89.3	125.3	104.1	86.0	86.0	89.7	87.2	86.3	98.3	88.0	81.7	80.7	87.0	99.0
43	BIO-9637	104.3	97.3	92.0	125.0	104.7	88.0	90.3	92.0	90.1	84.3	99.3	88.0	81.3	84.3	87.5	98.0
44	PMH-4	101.7	98.7	89.7	126.0	104.0	89.7	85.3	91.3	88.8	85.7	99.7	87.3	79.0	84.3	87.2	95.7
	Loc. Mean	**104.0**	**97.7**	**92.7**	**125.8**	**105.0**	**88.9**	**85.6**	**94.1**	**89.5**	**85.3**	**100.8**	**88.3**	**81.8**	**84.1**	**88.1**	**97.5**
	C.D. (5%)	3.26	1.12	1.15	2.74	2.36	3.64	1.12	2.73	4.68	3.04	2.54	2.05	1.99	2.35	2.22	2.38
	C.V. (%)	1.93	0.71	0.76	1.34	1.60	2.52	0.81	1.79	3.22	2.19	1.55	1.43	1.50	1.72	2.02	1.50
	F (Prob)	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		DAYS TO 75% DRY HUSK											
						PZ						CWZ	OV'L
S.No.	PEDIGREE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	BRM 12-4	89.7	101.0	93.3	88.0	95.7	97.3	89.0	93.3	85.3	83.7	89.7	94.8
2	AH1401	89.7	95.0	91.7	90.3	93.0	93.3	94.0	92.3	80.7	85.3	89.1	93.0
3	OMH 14-7	89.7	98.3	93.7	97.7	95.5	89.3	89.7	95.3	82.7	84.0	88.2	93.9
4	IMH1534	89.7	96.3	95.0	95.3	94.9	92.3	84.7	89.3	80.3	84.0	86.1	92.7
5	Muskan	90.0	100.3	92.3	97.0	95.5	88.3	89.0	94.3	85.7	84.0	88.3	94.2
6	IMH1524	89.7	97.7	92.7	90.7	93.5	91.3	89.7	91.0	77.0	84.7	86.7	92.6
7	PM15107M	90.0	96.0	90.3	88.7	92.0	92.0	85.3	92.0	77.3	84.3	86.2	92.1
8	RMH-301	89.7	100.3	93.3	92.0	94.3	91.3	89.0	89.7	87.3	83.7	88.2	93.3
9	LMH 715	89.7	99.3	94.0	94.7	95.1	98.3	89.0	94.3	86.7	84.3	90.5	94.4
10	KNMH-4502	90.7	96.0	90.7	95.0	93.9	97.3	87.7	94.7	84.0	82.3	89.2	94.0
11	IIMRNH 2015-4	89.7	91.7	91.0	91.3	92.3	90.7	88.7	91.7	62.7	85.7	83.9	90.8
12	KNMH-4504	89.7	94.3	91.3	92.0	92.7	97.7	89.7	90.0	80.3	84.3	88.4	92.2
13	IMH1527	89.7	95.3	93.7	93.3	94.3	92.7	88.7	90.3	77.7	83.7	86.6	92.2
14	Ganga-11	89.3	95.3	89.3	88.0	91.5	91.0	85.7	90.3	78.0	85.3	86.1	90.5
15	LMH 515	91.3	96.0	92.0	90.3	93.7	89.3	88.0	90.3	80.0	86.7	86.9	91.3
16	KH-2001 GOLD	89.7	97.0	87.7	90.0	92.2	96.0	85.7	91.7	81.3	83.7	87.7	91.2
17	DH-293	89.7	99.3	94.7	93.3	95.3	93.3	89.3	89.0	84.0	85.3	88.2	93.3
18	VaMH 12014	89.7	96.0	93.7	93.0	94.3	94.7	88.7	89.7	81.7	85.0	87.9	92.6
19	JH 31820	90.0	97.0	92.0	92.3	93.6	91.7	87.3	92.0	80.3	85.3	87.3	92.2
20	EH-2214	89.3	97.0	92.7	95.7	94.5	95.7	92.0	91.3	78.3	83.7	88.2	92.9
21	CMH12-672	89.7	96.7	93.0	93.3	94.3	97.7	88.0	91.7	82.3	83.7	88.7	93.1
22	BIO 274	89.7	97.7	92.3	97.0	95.1	96.7	92.0	94.3	82.0	83.3	89.7	94.5
23	PHM 34	89.3	96.0	91.7	92.0	93.0	86.3	88.3	89.7	80.7	84.7	85.9	90.7
24	KMH-5332	88.7	95.7	91.0	92.3	92.6	88.0	89.3	94.3	79.3	85.3	87.3	92.3
25	KNMH-4508	89.7	97.0	91.7	90.3	93.4	89.7	88.7	92.7	67.3	83.7	84.4	91.4
26	HKH 350	89.7	96.0	93.3	88.0	92.5	87.0	88.3	92.0	80.7	84.3	86.5	91.5

Table No. 4 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK											
		KARI	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
27	HT 515349	89.7	94.7	91.0	94.0	93.7	87.7	92.0	94.3	84.0	84.7	88.5	93.0
28	BGMH2	89.7	95.7	94.3	92.0	94.1	91.7	88.0	91.3	81.3	85.7	87.6	92.8
29	LMH 1015	90.7	97.7	91.7	94.7	94.7	96.7	89.3	91.3	80.3	84.0	88.3	93.5
30	DH-294	89.3	100.0	93.3	95.3	95.2	89.7	94.7	93.0	83.7	84.3	89.1	93.6
31	IMH1533	89.7	98.0	92.0	88.7	93.3	92.3	90.3	89.0	78.7	84.7	87.0	92.0
32	RCRMH2	90.0	97.3	93.0	94.7	94.6	97.7	88.7	93.3	80.0	84.3	88.8	93.4
33	BL 107	90.0	100.0	94.0	98.0	95.9	94.7	89.0	90.7	82.7	84.3	88.3	93.0
34	AH7009	88.3	96.3	88.3	89.3	91.4	89.3	89.7	89.7	73.7	84.0	85.3	90.1
35	GK3131	88.3	96.3	88.7	90.0	91.3	87.3	88.0	90.7	78.3	84.0	85.7	90.5
36	IIMRNH 2015-5	89.7	96.3	93.0	93.0	93.7	89.3	90.7	93.3	75.7	82.7	86.3	91.7
37	DAS-MH-308	89.7	96.3	94.0	95.3	94.7	95.7	87.7	93.0	81.0	84.0	88.3	93.9
38	BGMH1	90.0	95.3	92.3	93.0	93.7	91.3	89.0	90.7	76.3	83.7	86.2	92.5
39	KMH 13-79	89.0	96.7	85.7	88.3	90.7	89.7	88.7	89.3	79.7	84.0	86.3	90.5
40	BAUMC-3	89.7	95.3	95.7	90.0	93.2	95.3	88.0	93.0	80.3	83.0	87.9	92.5
41	VEH 15-1	90.0	97.7	92.0	95.3	94.8	95.7	88.7	93.3	83.3	83.7	88.9	93.9
	CHECKS												
42	HM-9	89.7	96.3	93.0	93.3	94.3	90.3	87.3	92.0	76.0	85.0	86.1	91.6
43	BIO-9637	89.7	96.0	91.7	93.0	93.7	98.0	91.0	89.0	80.3	85.3	88.7	92.7
44	PMH-4	89.0	96.3	89.7	90.0	92.1	95.3	89.7	92.7	82.7	85.3	89.1	92.0
	Loc. Mean	**89.7**	**96.8**	**92.1**	**92.5**	**93.7**	**92.7**	**89.0**	**91.8**	**80.0**	**84.3**	**87.6**	**92.5**
	C.D. (5%)	1.32	2.94	2.58	1.21	2.10	1.31	2.79	1.65	8.25	2.31	3.38	1.26
	C.V. (%)	0.91	1.87	1.72	0.81	1.80	0.87	1.93	1.11	6.35	1.69	3.09	2.30
	F (Prob)	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.05	0.00

Table No. 4 (Continued)

		PLANT HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	175.0	190.5	180.0	163.3	177.2	205.0	145.0	183.0	174.3	176.8	122.3	176.5	155.3	155.0	177.6	157.4
2	AH1401	148.3	203.0	208.0	169.3	182.2	215.0	163.3	166.0	184.0	182.1	146.3	179.9	165.7	156.7	179.4	165.6
3	OMH 14-7	186.7	223.9	246.0	187.3	211.0	230.0	221.7	192.3	260.7	226.2	169.7	206.2	165.7	203.3	232.6	195.5
4	IMH1534	190.0	224.0	239.3	195.0	212.1	233.3	198.3	183.3	245.0	215.0	173.3	193.9	167.3	213.3	221.8	194.0
5	Muskan	185.0	227.5	234.0	196.4	210.7	228.3	193.3	192.7	245.3	214.9	171.0	190.5	163.0	196.7	225.2	189.3
6	IMH1524	185.0	199.7	226.0	191.3	200.5	210.0	203.3	181.0	241.7	209.0	161.3	185.8	163.7	185.0	207.2	180.6
7	PM15107M	198.3	232.9	261.7	219.9	228.2	250.0	185.0	177.3	278.3	222.7	182.3	200.7	165.3	213.3	231.4	198.6
8	RMH-301	186.7	240.9	223.3	204.0	213.7	231.7	180.0	186.7	217.3	203.9	160.7	182.4	160.3	203.3	214.1	184.2
9	LMH 715	200.0	236.6	239.7	221.3	224.4	228.3	203.3	180.3	262.7	218.7	196.3	211.2	165.7	208.3	223.8	201.1
10	KNMH-4502	198.3	226.9	241.7	207.3	218.6	251.7	220.0	169.7	262.3	225.9	169.0	206.0	166.7	213.3	229.6	196.9
11	IIMRNH 2015-4	188.3	252.0	246.0	204.5	222.7	233.3	206.7	178.3	265.7	221.0	165.0	203.9	164.7	193.3	225.4	190.5
12	KNMH-4504	211.7	210.7	238.3	210.3	217.8	238.3	198.3	187.3	255.0	219.8	179.0	202.1	164.3	208.3	222.7	195.3
13	IMH1527	188.3	212.7	243.7	196.0	210.2	251.7	200.0	189.7	263.0	226.1	189.0	191.0	160.3	206.7	230.5	195.5
14	Ganga-11	195.0	246.9	235.3	190.7	217.0	228.3	193.3	183.7	236.7	210.5	167.0	193.4	166.7	215.0	217.6	191.9
15	LMH 515	213.3	241.9	262.3	212.7	232.6	258.3	191.7	183.0	280.0	228.3	168.0	211.9	169.7	219.0	230.8	199.9
16	KH-2001 GOLD	195.0	242.1	249.3	197.3	220.9	235.0	205.0	187.0	262.0	222.3	179.7	199.3	157.3	188.3	219.6	188.8
17	DH-293	183.3	217.7	241.0	198.3	210.1	231.7	166.7	186.7	239.3	206.1	166.3	194.3	161.3	183.3	209.7	183.0
18	VaMH 12014	208.3	233.3	260.0	216.7	229.6	246.7	213.3	188.7	273.7	230.6	186.3	208.3	163.0	216.7	228.5	200.6
19	JH 31820	176.7	234.2	244.7	206.9	215.6	213.3	181.7	187.3	254.3	209.2	158.3	186.7	170.0	190.0	215.5	184.1
20	EH-2214	193.3	205.0	248.3	207.6	213.6	211.7	211.7	185.7	229.3	209.6	182.3	189.9	167.3	203.3	212.5	191.1
21	CMH12-672	215.0	230.1	231.0	195.3	217.8	238.3	211.7	195.7	249.3	223.8	178.0	195.4	155.3	210.0	230.2	193.8
22	BIO 274	183.3	206.0	236.3	168.5	198.5	218.3	191.7	188.3	246.0	211.1	149.0	182.3	158.0	180.0	212.1	176.3
23	PHM 34	183.3	230.7	230.7	208.0	213.2	245.0	166.7	181.3	238.3	207.8	171.0	184.9	168.0	195.0	226.4	189.1
24	KMH-5332	195.0	218.0	248.7	199.7	215.4	205.0	171.7	190.7	221.7	197.3	167.3	186.7	157.7	178.3	217.6	181.5
25	KNMH-4508	191.7	235.3	270.0	207.8	226.2	253.3	211.7	186.3	261.3	228.2	180.3	203.3	168.3	191.7	228.6	194.4
26	HKH 350	171.7	212.3	208.3	206.7	199.8	216.7	181.7	186.7	240.3	206.3	176.3	184.2	163.3	187.3	215.6	185.4

Table No. 4 (Continued)

		PLANT HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	185.0	244.3	243.0	216.7	222.3	241.7	196.7	188.7	269.7	224.2	169.0	190.0	163.7	201.7	222.1	189.3
28	BGMH2	195.0	238.3	243.7	205.3	220.6	211.7	188.3	187.3	252.7	210.0	164.0	190.1	167.0	193.3	220.3	187.0
29	LMH 1015	166.7	229.5	224.7	199.6	205.1	233.3	166.7	185.7	204.0	197.4	181.0	181.1	161.7	193.3	211.5	185.7
30	DH-294	173.3	199.7	227.3	196.2	199.1	215.0	178.3	184.7	239.0	204.3	174.0	174.4	163.3	178.3	213.5	180.7
31	IMH1533	171.7	202.5	227.3	196.0	199.4	235.0	185.0	182.0	242.3	211.1	170.0	182.8	171.3	193.3	218.2	187.1
32	RCRMH2	198.3	234.1	235.3	210.5	219.6	251.7	225.0	187.0	279.0	235.7	148.0	206.9	165.7	225.0	232.2	195.5
33	BL 107	195.0	234.8	250.3	208.3	222.1	223.3	213.3	187.7	262.7	221.8	190.7	217.3	164.3	208.3	229.8	202.1
34	AH7009	155.0	199.7	212.7	194.5	190.5	195.0	160.0	171.7	206.7	183.3	161.7	166.5	173.3	176.7	198.1	175.3
35	GK3131	186.7	234.0	244.0	194.0	214.7	230.0	171.7	197.7	257.7	214.3	160.7	199.3	176.3	198.3	219.2	190.8
36	IIMRNH 2015-5	221.7	234.5	255.3	222.7	233.6	251.7	196.7	180.0	259.3	221.9	178.7	213.8	167.0	218.3	231.9	201.9
37	DAS-MH-308	185.0	239.0	248.3	210.0	220.6	221.7	201.7	187.3	248.7	214.8	181.7	199.6	167.3	180.0	218.1	189.3
38	BGMH1	200.0	233.5	247.3	223.2	226.0	256.7	230.0	180.7	268.3	233.9	191.3	203.2	159.7	216.7	228.8	199.9
39	KMH 13-79	173.3	226.0	247.7	202.3	212.3	216.7	185.0	181.7	212.0	198.8	181.7	183.2	173.3	193.3	206.5	187.6
40	BAUMC-3	200.0	199.2	230.3	199.7	207.3	216.7	210.0	189.3	256.0	218.0	177.3	185.9	167.7	195.0	215.4	188.3
41	VEH 15-1	190.0	216.7	233.7	209.3	212.4	223.3	191.7	194.7	235.0	211.2	184.0	171.1	162.3	190.0	205.8	182.6
	CHECKS																
42	HM-9	181.7	211.7	230.3	200.0	205.9	203.3	178.3	175.0	227.3	196.0	157.3	179.1	159.0	166.7	188.4	170.1
43	BIO-9637	211.7	247.7	269.0	221.0	237.3	241.7	210.0	171.7	272.0	223.8	177.3	205.5	164.7	218.3	231.9	199.5
44	PMH-4	163.3	216.3	227.3	197.3	201.1	205.0	168.3	188.0	225.7	196.8	169.0	174.3	162.0	186.7	208.4	180.1
	Loc. Mean	**188.6**	**224.5**	**238.4**	**202.0**	**213.4**	**229.1**	**192.6**	**184.5**	**245.6**	**213.0**	**171.2**	**192.6**	**164.6**	**196.5**	**217.9**	**188.6**
	C.D. (5%)	18.81	9.00	10.33	30.50	13.88	22.18	6.38	8.12	24.09	18.82	29.15	17.52	6.02	21.62	15.79	11.45
	C.V. (%)	6.14	2.47	2.67	9.30	4.65	5.96	2.04	2.71	6.04	6.32	10.49	5.60	2.25	6.78	4.46	4.87
	F (Prob)	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		PLANT HEIGHT(cm)														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-4	151.0	138.7	208.3	202.0	93.3	140.0	155.5	111.7	160.0	166.7	205.1	161.3	132.0	156.1	162.9
2	AH1401	169.3	157.7	200.0	193.7	143.7	170.3	172.4	151.7	221.7	161.7	209.5	156.3	159.3	176.7	175.2
3	OMH 14-7	231.0	191.3	249.7	229.7	162.9	222.9	214.6	165.0	246.7	210.0	265.3	169.3	151.7	201.3	208.9
4	IMH1534	213.0	195.3	238.3	222.3	152.1	173.1	199.0	178.3	218.3	206.7	256.7	161.0	204.7	204.3	203.9
5	Muskan	207.7	186.3	239.7	228.7	148.0	187.5	199.6	165.0	211.7	200.0	254.7	159.7	161.3	192.1	200.0
6	IMH1524	217.3	195.3	215.0	227.3	147.7	191.6	199.1	165.0	231.7	188.3	241.3	173.7	160.7	193.4	195.8
7	PM15107M	234.0	213.0	241.0	236.3	149.4	193.5	211.2	203.3	253.3	206.7	254.4	169.3	171.3	209.7	212.9
8	RMH-301	214.0	174.7	193.3	225.7	152.2	189.4	191.5	183.3	205.0	185.0	259.3	178.3	145.0	192.7	195.9
9	LMH 715	233.3	207.3	241.7	233.7	160.2	217.3	215.6	215.0	215.0	225.0	273.1	182.7	155.3	211.0	213.5
10	KNMH-4502	222.0	202.0	252.0	227.3	159.3	209.8	212.1	181.7	223.3	235.0	257.5	147.0	161.3	201.0	209.6
11	IIMRNH 2015-4	226.0	206.3	234.3	228.7	159.6	222.9	213.0	195.0	273.3	206.7	263.4	182.0	162.0	213.7	211.5
12	KNMH-4504	232.0	165.0	238.7	235.7	150.3	187.2	201.5	176.7	245.0	205.0	240.7	172.7	178.7	203.1	206.2
13	IMH1527	212.0	171.7	236.3	232.0	149.1	185.9	197.8	180.0	220.0	206.7	269.8	168.7	185.0	205.0	205.6
14	Ganga-11	199.0	169.7	221.3	216.0	135.3	196.3	189.6	190.0	205.0	180.0	246.1	171.7	161.3	192.3	198.4
15	LMH 515	226.0	205.3	259.7	241.3	165.5	204.5	217.1	175.0	236.7	213.3	273.1	175.3	157.3	205.1	215.0
16	KH-2001 GOLD	202.3	212.3	233.7	227.7	157.3	188.7	203.7	195.0	235.0	183.3	259.1	161.0	166.3	200.0	205.5
17	DH-293	220.3	174.7	214.3	223.7	147.3	205.5	197.6	165.0	206.7	176.7	250.8	175.3	148.0	187.1	195.5
18	VaMH 12014	233.7	225.0	266.0	259.0	170.1	220.9	229.1	181.7	238.3	218.3	280.9	163.3	155.0	206.3	218.2
19	JH 31820	228.3	173.3	240.0	223.3	146.7	198.1	201.6	186.7	251.7	208.3	239.5	158.3	154.0	199.7	201.1
20	EH-2214	221.0	168.3	239.3	220.3	145.7	183.2	196.3	203.3	208.3	193.3	252.9	160.3	157.7	196.0	200.1
21	CMH12-672	227.7	203.3	238.3	237.3	152.5	220.4	213.3	151.7	231.7	205.0	260.1	179.3	168.7	199.4	208.5
22	BIO 274	216.7	193.0	233.0	229.0	149.1	179.9	200.1	171.7	231.7	186.7	258.5	169.3	172.7	198.4	196.4
23	PHM 34	212.3	168.3	227.0	221.0	138.1	194.9	193.6	165.0	226.7	196.7	249.7	187.7	137.7	193.9	198.2
24	KMH-5332	217.7	187.3	233.3	230.7	124.4	183.2	196.1	165.0	215.0	188.3	261.6	162.7	157.7	191.7	195.4
25	KNMH-4508	245.0	210.0	253.3	237.0	156.3	208.4	218.3	205.0	236.3	215.0	275.5	164.7	173.7	211.7	214.8
26	HKH 350	212.0	187.7	217.0	219.3	157.4	194.0	197.9	175.0	187.7	183.3	247.3	153.0	136.0	180.4	192.8

Table No. 4 (Continued)

		PLANT HEIGHT(cm)														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
27	HT 515349	230.7	172.0	241.3	232.0	164.1	189.1	204.9	176.7	203.3	196.7	275.5	162.0	161.7	196.0	205.5
28	BGMH2	219.3	180.3	224.3	219.0	148.9	190.1	197.0	188.3	221.7	205.0	252.4	169.3	161.0	199.6	201.5
29	LMH 1015	222.3	181.0	209.7	219.0	141.5	210.3	197.3	175.0	218.3	181.7	237.1	195.3	148.0	192.6	195.1
30	DH-294	213.0	166.7	223.7	211.7	150.9	171.6	189.6	175.0	203.3	178.3	261.7	173.7	147.0	189.8	191.7
31	IMH1533	198.0	159.7	220.7	208.7	142.6	173.9	183.9	168.3	193.3	175.0	216.2	194.7	158.0	184.3	191.5
32	RCRMH2	240.7	204.3	250.3	230.3	178.8	217.7	220.4	211.7	223.3	203.3	273.5	182.0	174.7	211.4	215.6
33	BL 107	233.7	188.0	249.7	243.3	162.6	184.9	210.4	183.3	218.3	210.0	256.7	167.7	171.0	201.2	210.2
34	AH7009	191.0	164.7	184.7	192.3	143.8	175.4	175.3	155.0	226.7	160.0	224.8	160.0	135.7	177.0	179.4
35	GK3131	211.0	167.0	230.3	226.0	143.6	181.7	193.3	188.3	198.3	178.3	236.7	173.7	163.3	189.8	198.7
36	IIMRNH 2015-5	238.7	207.3	251.0	247.7	162.4	217.4	220.8	191.7	190.0	226.7	268.7	150.3	153.7	196.8	213.5
37	DAS-MH-308	213.0	191.0	233.0	213.3	152.5	182.7	197.6	175.0	208.3	203.3	249.7	189.3	158.3	197.3	202.3
38	BGMH1	243.3	184.7	252.3	241.0	169.7	210.7	217.0	193.3	218.3	216.7	268.5	157.7	169.7	204.0	214.6
39	KMH 13-79	213.3	179.3	229.7	210.0	130.6	176.3	189.9	176.7	215.0	178.3	235.1	173.7	161.0	190.0	194.5
40	BAUMC-3	221.3	180.0	240.3	219.3	145.9	201.1	201.3	175.0	233.3	208.3	253.5	161.0	155.3	197.7	201.5
41	VEH 15-1	224.3	184.7	236.7	221.0	158.3	205.1	205.0	160.0	235.0	201.7	247.9	169.3	165.7	196.6	200.7
	CHECKS															
42	HM-9	197.7	190.3	221.7	223.0	143.7	194.2	195.1	178.3	238.3	186.7	239.0	184.3	126.3	192.2	191.3
43	BIO-9637	236.7	206.7	362.7	244.3	154.9	208.7	235.7	183.3	218.3	228.3	279.3	172.0	166.3	207.9	220.2
44	PMH-4	211.7	187.3	218.0	211.3	137.3	171.0	189.5	163.3	218.3	186.7	223.3	159.3	159.7	185.1	189.6
	Loc. Mean	**217.8**	**185.9**	**235.1**	**225.5**	**150.1**	**193.9**	**201.4**	**177.7**	**220.8**	**197.2**	**252.4**	**169.5**	**159.3**	**196.2**	**201.3**
	C.D. (5%)	9.99	12.18	57.52	19.25	16.55	6.96	13.57	8.25	45.23	17.12	26.09	25.76	10.89	16.00	6.64
	C.V. (%)	2.83	4.04	15.07	5.26	6.79	2.21	5.92	2.86	12.62	5.35	6.37	9.36	4.21	7.17	5.94
	F (Prob)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.05	0.00	0.00	0.00

Table No. 4 (Continued)

		EAR HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-4	111.7	79.0	108.7	87.7	96.8	103.3	75.0	69.7	79.0	81.7	64.0	86.5	64.7	76.7	89.4	76.3
2	AH1401	80.0	87.5	118.3	79.7	91.4	98.3	75.0	74.0	81.0	82.1	75.7	75.9	65.3	83.3	97.0	79.5
3	OMH 14-7	83.3	92.6	135.7	89.2	100.2	110.0	100.0	69.3	117.0	99.1	84.0	77.8	71.7	106.7	116.9	91.4
4	IMH1534	103.3	93.0	142.0	100.5	109.7	131.7	125.0	65.0	118.3	110.0	88.0	86.5	74.7	126.7	125.3	100.2
5	Muskan	91.7	92.4	135.0	91.8	102.7	103.3	103.3	74.7	102.7	96.0	84.7	82.6	74.0	98.3	111.5	90.2
6	IMH1524	91.7	88.7	135.7	91.3	101.8	115.0	111.7	82.7	111.0	105.1	86.3	80.8	73.7	100.0	115.6	91.3
7	PM15107M	83.3	100.2	125.0	97.3	101.5	121.7	78.3	75.0	111.7	96.7	79.0	74.7	73.7	96.7	108.4	86.5
8	RMH-301	81.7	95.1	124.3	86.8	97.0	106.7	88.3	75.7	79.3	87.5	69.0	75.5	69.0	86.7	95.2	79.1
9	LMH 715	111.7	101.2	145.0	108.0	116.5	113.3	103.3	70.0	124.7	102.8	104.0	88.7	73.0	111.7	126.3	100.7
10	KNMH-4502	105.0	97.1	131.7	93.0	106.7	128.3	123.3	82.7	116.0	112.6	87.3	87.8	78.0	106.7	122.2	96.4
11	IIMRNH 2015-4	95.0	108.2	136.3	97.4	109.2	128.3	101.7	65.7	122.0	104.4	91.0	83.3	75.7	95.0	107.4	90.5
12	KNMH-4504	110.0	95.7	135.7	99.3	110.2	108.3	110.0	72.7	118.0	102.3	86.0	87.3	74.0	105.0	108.2	92.1
13	IMH1527	95.0	88.1	130.7	93.4	101.8	123.3	100.0	74.0	113.0	102.6	88.0	84.6	77.0	106.7	119.5	95.1
14	Ganga-11	83.3	99.5	140.3	91.3	103.6	123.3	106.7	75.3	100.3	101.4	85.7	84.1	72.3	95.0	107.6	89.0
15	LMH 515	130.0	101.9	151.3	108.0	122.8	141.7	96.7	85.3	131.0	113.7	103.3	94.2	73.7	125.0	121.3	103.5
16	KH-2001 GOLD	91.7	90.1	131.0	86.6	99.8	96.7	103.3	78.3	110.3	97.2	80.0	87.5	65.3	86.7	102.8	84.5
17	DH-293	83.3	87.8	126.0	89.0	96.5	96.7	81.7	75.7	89.3	85.8	69.0	93.8	69.7	84.0	94.2	82.1
18	VaMH 12014	95.0	103.1	128.7	95.5	105.6	115.0	106.7	80.7	119.7	105.5	87.3	86.7	68.0	108.3	119.7	94.0
19	JH 31820	95.0	91.4	141.7	103.5	107.9	113.3	96.7	86.0	116.7	103.2	81.7	77.8	71.0	103.3	112.2	89.2
20	EH-2214	106.7	88.0	141.3	91.0	106.8	115.0	106.7	84.3	92.7	99.7	89.7	89.8	73.3	108.3	102.8	92.8
21	CMH12-672	111.7	100.3	132.7	91.7	109.1	116.7	128.3	78.7	110.7	108.6	90.0	89.3	64.3	106.7	124.3	94.9
22	BIO 274	101.0	84.4	137.3	96.3	104.8	118.3	116.7	92.3	122.0	112.3	114.0	84.7	74.0	101.7	115.0	97.9
23	PHM 34	95.0	94.0	125.0	95.5	102.4	130.0	78.3	91.0	105.0	101.1	87.3	79.7	76.0	110.0	117.5	94.1
24	KMH-5332	95.0	94.3	133.3	93.9	104.1	101.7	75.0	83.7	80.3	85.2	76.7	81.3	62.0	81.7	94.4	79.2
25	KNMH-4508	101.7	99.1	167.0	102.1	117.5	123.3	105.0	67.7	124.3	105.1	93.0	87.3	73.0	111.7	152.3	103.5
26	HKH 350	75.0	90.4	115.3	105.3	96.5	106.7	100.0	82.0	99.3	97.0	90.7	79.2	71.3	93.3	107.4	88.4

Table No. 4 (Continued)

		EAR HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
27	HT 515349	83.3	106.0	135.0	102.3	106.7	118.3	113.3	79.7	120.0	107.8	80.0	87.6	70.0	103.3	113.9	91.0
28	BGMH2	103.3	100.0	142.7	105.9	113.0	110.0	88.3	75.0	114.7	97.0	79.0	82.5	76.7	98.3	105.7	88.4
29	LMH 1015	83.3	92.7	138.7	95.0	102.4	130.0	103.3	88.0	90.0	102.8	92.3	86.5	77.3	108.3	109.1	94.7
30	DH-294	76.7	79.5	123.7	93.6	93.4	101.7	78.3	83.0	90.0	88.3	77.3	68.1	76.0	88.3	102.1	82.4
31	IMH1533	86.7	89.9	132.0	91.7	100.1	113.3	103.3	69.7	105.7	98.0	90.0	79.5	75.3	106.7	113.3	92.9
32	RCRMH2	98.3	100.0	148.3	100.1	111.7	125.0	121.7	90.0	122.0	114.7	90.0	82.3	71.3	115.0	128.1	97.3
33	BL 107	101.7	102.5	130.0	95.9	107.5	121.7	116.7	96.3	114.3	112.3	97.0	88.8	66.3	115.0	124.2	98.3
34	AH7009	71.7	80.5	116.3	89.3	89.4	98.3	60.0	70.3	82.7	77.8	84.3	65.5	73.7	86.7	98.0	81.6
35	GK3131	86.7	96.6	122.3	90.3	99.0	106.7	78.3	63.7	104.7	88.3	74.7	74.5	77.7	91.7	100.9	83.9
36	IIMRNH 2015-5	120.0	100.7	155.3	110.8	121.7	135.0	101.7	84.0	115.7	109.1	87.3	94.2	72.3	111.7	130.0	99.1
37	DAS-MH-308	86.7	110.0	131.0	103.5	107.8	108.3	106.7	79.0	102.0	99.0	96.7	83.7	78.3	90.0	104.3	90.6
38	BGMH1	95.0	92.1	130.3	110.2	106.9	121.7	110.0	73.0	108.7	103.3	92.3	81.3	71.0	108.3	116.4	93.9
39	KMH 13-79	81.7	89.3	134.3	89.9	98.8	106.7	100.0	71.0	79.7	89.3	79.3	77.7	69.3	103.3	108.6	87.7
40	BAUMC-3	116.7	88.2	146.7	110.8	115.6	130.0	128.3	78.3	127.3	116.0	100.7	86.1	73.7	113.3	120.6	98.9
41	VEH 15-1	96.7	99.1	122.7	102.7	105.3	105.0	91.7	64.3	102.7	90.9	106.3	79.2	73.3	95.0	107.6	92.3
	CHECKS																
42	HM-9	85.0	89.7	125.0	92.0	97.9	101.7	100.0	54.7	95.7	88.0	79.0	76.0	71.0	90.0	94.2	82.0
43	BIO-9637	103.3	103.2	147.0	113.7	116.8	115.0	115.0	56.0	113.7	99.9	86.7	85.1	72.0	108.3	114.9	93.4
44	PMH-4	75.0	88.5	116.0	89.0	92.1	95.0	85.0	75.3	100.0	88.8	87.3	71.4	76.3	105.0	101.9	88.4
	Loc. Mean	**94.5**	**94.3**	**133.5**	**96.6**	**104.7**	**114.4**	**100.0**	**76.4**	**106.5**	**99.3**	**86.7**	**82.7**	**72.3**	**101.2**	**111.6**	**90.9**
	C.D. (5%)	21.61	6.15	8.03	22.90	10.60	18.61	4.36	12.38	16.19	14.19	19.77	10.59	3.60	15.92	20.09	8.83
	C.V. (%)	14.08	4.01	3.71	14.60	7.23	10.02	2.68	9.98	9.37	10.21	14.04	7.89	3.07	9.69	11.09	7.78
	F (Prob)	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 4 (Continued)

		EAR HEIGHT(cm)													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	BRM 12-4	62.0	62.7	112.3	100.0	50.1	74.1	76.9	50.0	86.7	86.7	86.9	75.0	77.1	80.9
2	AH1401	62.0	78.7	97.3	105.0	71.2	90.3	84.1	83.3	103.0	90.0	83.2	76.7	87.2	84.7
3	OMH 14-7	88.3	96.7	120.7	120.3	76.5	109.8	102.1	85.0	101.7	88.3	108.9	84.7	93.7	97.3
4	IMH1534	93.7	108.7	130.0	117.3	79.9	96.2	104.3	90.0	112.3	85.0	101.2	74.3	92.6	102.9
5	Muskan	74.3	96.7	119.7	107.0	75.5	101.1	95.7	65.0	106.7	98.3	99.0	76.0	89.0	94.4
6	IMH1524	86.0	96.7	114.0	119.7	76.7	111.7	100.8	75.0	106.7	91.7	97.0	87.3	91.5	97.8
7	PM15107M	77.0	92.0	105.0	104.0	69.9	93.0	90.2	81.7	111.0	86.7	85.3	78.7	88.7	92.0
8	RMH-301	79.7	78.7	92.3	103.7	73.7	93.6	86.9	70.0	98.3	75.0	87.1	90.3	84.1	86.5
9	LMH 715	94.3	112.0	124.3	119.3	76.2	118.5	107.5	105.0	106.7	101.7	107.4	95.3	103.2	105.9
10	KNMH-4502	92.0	99.0	127.7	117.3	77.4	113.6	104.5	65.0	108.3	101.7	104.1	74.7	90.7	101.7
11	IIMRNH 2015-4	82.3	105.7	125.3	111.3	82.2	113.8	103.4	85.0	115.0	96.7	110.6	89.3	99.3	101.0
12	KNMH-4504	96.7	81.3	116.3	111.3	78.5	95.9	96.7	90.0	111.7	91.7	93.3	76.0	92.5	98.0
13	IMH1527	77.7	93.7	112.7	105.7	74.3	85.3	91.5	85.0	105.0	88.3	95.9	86.0	92.0	95.9
14	Ganga-11	74.7	81.7	107.0	107.7	68.5	95.1	89.1	95.0	95.0	91.7	91.7	82.0	91.1	94.0
15	LMH 515	93.7	114.3	132.3	121.3	85.9	109.9	109.6	66.7	110.0	106.7	111.7	80.3	95.1	108.2
16	KH-2001 GOLD	73.3	105.0	98.0	96.0	76.1	94.5	90.5	64.0	106.7	81.7	82.4	77.7	82.5	90.2
17	DH-293	76.7	73.3	96.0	107.7	67.9	100.6	87.0	65.0	99.0	71.7	83.3	81.0	80.0	85.9
18	VaMH 12014	93.0	106.3	124.3	126.3	84.0	112.7	107.8	75.0	110.0	101.7	102.4	80.3	93.9	101.3
19	JH 31820	94.3	82.3	123.7	119.0	77.2	117.6	102.4	98.3	113.3	91.7	99.9	77.0	96.1	99.4
20	EH-2214	89.0	80.0	121.7	118.3	76.5	102.5	98.0	108.3	91.7	81.7	98.3	78.0	91.6	97.3
21	CMH12-672	98.7	103.7	122.3	119.7	79.8	126.1	108.4	65.0	105.7	101.7	114.2	87.0	94.7	102.9
22	BIO 274	93.7	100.7	133.7	120.0	79.6	119.1	107.8	88.3	106.7	98.3	107.1	83.7	96.8	103.7
23	PHM 34	87.7	83.3	112.7	110.7	69.0	107.8	95.2	70.0	98.3	91.7	96.1	101.3	91.5	96.4
24	KMH-5332	77.7	84.0	117.0	116.7	59.8	91.6	91.1	70.0	98.3	78.3	95.7	83.7	85.2	88.6
25	KNMH-4508	101.7	105.7	124.3	120.3	74.2	110.6	106.1	100.0	115.0	91.7	108.5	80.3	99.1	105.8
26	HKH 350	75.0	81.3	102.0	96.0	75.5	103.0	88.8	70.0	92.0	83.3	93.6	74.7	82.7	90.1

Table No. 4 (Continued)

		EAR HEIGHT(cm)													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
27	HT 515349	88.0	70.0	126.7	114.0	78.8	104.1	96.9	76.7	93.3	91.7	106.9	83.0	90.3	97.8
28	BGMH2	81.7	91.7	121.3	118.0	71.8	103.8	98.0	83.3	115.0	98.3	97.1	79.3	94.6	97.6
29	LMH 1015	90.7	91.0	105.7	111.3	71.3	111.1	96.9	75.0	99.7	81.7	96.6	100.3	90.7	97.0
30	DH-294	73.3	73.0	99.7	98.0	73.0	79.2	82.7	70.0	101.7	78.3	86.9	82.0	83.8	85.6
31	IMH1533	73.3	79.3	104.3	105.3	70.9	83.9	86.2	80.0	93.3	85.0	76.0	95.3	85.9	91.8
32	RCRMH2	95.3	103.0	122.0	110.0	91.7	117.5	106.6	96.7	116.7	90.0	106.5	91.0	100.2	105.5
33	BL 107	87.3	90.3	128.0	115.7	80.4	96.8	99.8	85.0	108.3	91.7	99.7	80.3	93.0	101.4
34	AH7009	71.3	77.0	84.0	96.0	69.8	81.6	80.0	60.0	96.3	71.7	75.5	77.7	76.2	80.8
35	GK3131	73.7	74.3	111.0	104.7	66.5	90.5	86.8	81.7	100.0	78.3	77.5	83.7	84.2	87.9
36	IIMRNH 2015-5	101.3	103.7	136.0	131.0	93.7	121.0	114.4	93.3	96.7	108.3	113.9	69.7	96.4	107.8
37	DAS-MH-308	73.0	84.0	108.3	103.7	69.9	86.2	87.5	73.7	92.7	83.3	86.2	96.7	86.5	93.2
38	BGMH1	94.3	90.0	126.0	115.7	81.0	103.8	101.8	85.0	98.3	91.7	97.0	75.0	89.4	98.7
39	KMH 13-79	80.3	82.3	109.0	101.7	68.0	94.4	89.3	75.0	101.7	73.3	85.4	83.7	83.8	89.4
40	BAUMC-3	94.3	93.7	145.7	125.0	76.6	112.6	108.0	91.7	113.3	111.7	123.9	68.7	101.9	107.4
41	VEH 15-1	89.0	94.7	117.7	111.3	76.7	103.9	98.9	80.0	91.7	88.3	95.6	77.0	86.5	94.7
	CHECKS														
42	HM-9	73.7	88.0	105.0	111.3	70.4	116.5	94.2	83.3	98.3	83.3	82.9	94.3	88.5	90.0
43	BIO-9637	91.0	93.0	105.7	114.0	73.3	108.6	97.6	81.7	106.7	95.0	104.9	73.3	92.3	99.2
44	PMH-4	78.3	87.3	110.0	105.3	74.0	88.2	90.5	73.3	98.3	93.3	87.6	75.0	85.5	89.0
	Loc. Mean	**84.2**	**90.2**	**115.4**	**111.7**	**74.9**	**102.1**	**96.4**	**79.8**	**103.1**	**89.7**	**96.5**	**82.2**	**90.3**	**95.9**
	C.D. (5%)	7.05	11.04	13.07	11.90	11.23	4.65	7.56	6.28	17.24	14.12	13.10	19.72	10.90	4.52
	C.V. (%)	5.16	7.54	6.98	6.56	9.24	2.81	6.89	4.85	10.30	9.69	8.37	14.78	9.67	8.33
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.18	0.00	0.00

TABLE No. 5 **PERFORMANCE OF EXPERIMENTAL EARLY & EXTRA EARLY MATURING HYBRIDS AT ALMORA, BAJAURA, UDHAMPUR, KANGRA, BARAPANI, LUDHIANA, KARNAL, PANTNAGAR, DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, VAGARAI, COIMBATORE, UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA IN NIVT TRIAL No. TR6364(NIVT-E&EX) DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
SI												NHZ								NWPZ										NEPZ	
No	PEDIGREE	ALMO	R	BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
1	BRM 12-5	5373	19	7622	13	8308	27	3486	37	8553	1	6668	12	10628	5	10846	3	6073	37	9182	11	5255	11	5964	24	5928	6	6244	17	3528	39	5384	23
2	KMH-5510	5617	11	8005	7	9663	10	5843	6	5200	14	6866	6	9526	17	7183	34	6853	28	7854	28	4393	28	6583	15	5773	8	6359	16	6537	5	5929	10
3	AH7006	5221	25	7555	15	9159	14	3570	34	3254	26	5752	28	8161	28	10071	9	6375	35	8202	24	5600	8	5689	28	4724	29	6082	21	6988	2	5817	12
4	LMH 1215	6582	4	6533	25	8231	29	3226	39	4399	19	5794	27	8401	25	9083	19	7323	21	8269	23	4459	26	5553	30	4923	23	5363	29	5742	10	5208	27
5	DMRH1305	7348	2	8049	6	7751	36	3687	31	5318	12	6431	16	6619	34	9084	18	8440	14	8048	26	4846	18	6651	14	4904	25	5229	32	5230	20	5372	24
6	FH 3728	6448	5	7829	10	10575	4	5628	11	6166	10	7329	1	10606	6	7269	32	7863	17	8579	15	5837	6	6759	12	4895	26	6444	14	5724	11	5932	9
7	LMH 1415	4993	31	7464	16	7829	34	5907	5	4055	21	6050	23	10529	7	10952	2	7170	25	9550	9	4866	17	6826	10	5794	7	6585	13	6260	7	6066	7
8	JH 31785	5054	29	6948	22	9937	8	5967	4	2021	34	5986	25	10079	9	9990	10	7259	23	9109	12	4869	16	6784	11	4686	30	7291	6	5403	17	5807	13
9	FH 3754	3886	40	7162	20	9688	9	5562	12	4245	20	6108	20	8238	27	8627	23	8010	16	8291	21	4764	20	7066	7	4831	27	5015	36	3700	36	5075	30
10	BL 104	5539	12	5524	33	8271	28	4234	22	3356	24	5385	30	11120	3	9795	12	6675	30	9197	10	4883	15	7494	4	5955	5	7845	1	3527	40	5941	8
11	KMH 13-15	6262	6	5025	36	6776	40	8715	2	3326	25	6021	24	8289	26	7822	28	5521	39	7211	35	5084	13	5419	31	4024	36	4919	37	4746	24	4838	33
12	BL 105	5260	22	5435	34	8815	18	3209	40	6391	9	5822	26	10073	11	7616	30	7143	26	8277	22	5329	9	5371	33	6191	3	5339	30	6538	4	5753	14
13	DH-292	4370	36	6249	26	9952	7	3994	29	7341	6	6381	17	10203	8	10460	7	9153	6	9938	4	4531	25	6282	22	5027	21	6434	15	8117	1	6078	6
14	H-100	6972	3	7174	18	8583	23	3528	36	7776	5	6807	8	10074	10	8240	24	8929	9	9081	13	7352	2	7636	2	5158	19	5489	27	4911	21	6109	5
15	H-101	4587	35	2167	39	7153	39	3584	33	1646	38	3827	40	3229	40	4505	40	7266	22	5000	40	3563	38	4720	37	5415	14	4827	38	3717	35	4448	39
16	IH-0712	4166	38	5637	32	8836	17	5302	14	2830	29	5354	31	8754	23	10204	8	6481	32	8480	17	3979	32	5371	34	4046	35	5848	24	5474	16	4944	31
17	EH-2416	5331	20	7148	21	9519	11	4111	26	5712	11	6364	18	9188	19	7187	33	5486	40	7287	34	4389	29	6446	19	5453	13	5955	23	6227	8	5694	15
18	CMH12-700	4718	33	7965	8	7822	35	5821	7	7144	7	6694	11	11746	1	10481	6	10456	2	10894	1	6182	4	6471	17	5665	11	7649	3	5546	13	6302	3
19	KMH 13-17	5472	15	5733	30	7872	32	9282	1	5186	15	6709	10	7240	32	8117	25	8651	12	8003	27	5222	12	5353	35	3876	37	5181	33	3899	30	4706	36
20	AH1402	5060	28	2004	40	8490	25	4159	23	1477	39	4238	38	5206	39	6102	39	6699	29	6002	39	3754	35	-	-	5194	17	6155	19	5540	14	5161	29
21	LMH 1115	5074	27	7425	17	10514	5	5639	10	3751	22	6481	15	8447	24	7948	27	6933	27	7776	30	3630	36	6145	23	4980	22	6133	20	5806	9	5339	25
22	CMH12-703	5439	16	7615	14	7930	31	5213	15	8051	4	6850	7	10004	12	11031	1	8901	10	9979	3	4707	22	7608	3	5316	15	7441	5	6721	3	6358	2
23	LMH 1315	5270	21	8195	4	8736	20	4966	17	5317	13	6497	14	9242	18	9873	11	6578	31	8564	16	4431	27	5854	26	3238	39	5982	22	6322	6	5165	28
24	DH-291	5761	9	7865	9	10734	2	5732	9	4924	16	7003	4	9160	20	10693	4	9268	5	9707	7	5316	10	8117	1	5079	20	6848	9	5576	12	6187	4
25	FH 3729	5259	23	8381	3	8714	21	4513	18	7116	8	6796	9	9911	13	6960	37	7423	20	8098	25	5718	7	6453	18	5615	12	7110	8	4497	27	5879	11
26	JKMH 4222	5227	24	8709	1	10825	1	6040	3	2366	32	6633	13	11350	2	9318	17	9005	7	9891	5	3975	33	6561	16	5304	16	7148	7	4567	26	5511	18

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
		NHZ												NWPZ																NEPZ	
		ALMO	R	BAJA	R	UDHA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
27	NMH-51	7478	1	8114	5	10631	3	5474	13	3383	23	7016	3	10858	4	9701	15	8946	8	9835	6	6316	3	4552	39	6323	1	6227	18	3724	34	5429	20
28	IH-0953	5867	8	7162	19	8488	26	4259	20	1890	35	5533	29	8159	29	8729	21	6480	33	7789	29	5930	5	5704	27	2868	40	5562	26	3625	37	4738	35
29	BRM 12-2	5410	17	8428	2	8740	19	4061	27	8090	3	6946	5	8865	22	7977	26	8382	15	8408	19	4687	23	7138	6	3772	38	6791	11	3820	32	5241	26
30	MEH-2-15	4247	37	4719	37	8153	30	3552	35	2097	33	4554	37	5772	37	9067	20	6087	36	6975	37	4141	30	5861	25	4240	34	4690	39	4804	23	4747	34
31	Khushi	5164	26	7750	11	8700	22	5782	8	8112	2	7102	2	9744	15	10554	5	11792	1	10697	2	7409	1	7337	5	6252	2	7616	4	5296	19	6782	1
32	LMH 1515	6136	7	7717	12	9289	13	4126	24	3107	27	6075	21	6753	33	7744	29	8504	13	7667	32	5064	14	6413	20	4664	31	5412	28	5539	15	5418	22
33	MEH-1-15	5516	13	5979	27	7836	33	3937	30	2592	31	5172	34	7254	31	9414	16	6418	34	7695	31	3809	34	6713	13	6164	4	5074	35	5375	18	5427	21
34	DH-297	5381	18	5713	31	8492	24	3335	38	1881	36	4961	36	6549	35	8663	22	7231	24	7481	33	2940	40	5325	36	4333	32	5627	25	4910	22	4627	38
35	DH-298	4029	39	3877	38	7614	37	3637	32	1668	37	4165	39	5525	38	7056	36	5775	38	6118	38	3333	39	4557	38	4828	28	4493	40	3864	31	4215	40
36	APH27-B	5495	14	6666	24	9452	12	4029	28	4673	17	6063	22	6406	36	7331	31	7551	18	7096	36	3621	37	5616	29	5740	10	5239	31	3999	29	4843	32
	CHECKS																																
37	Vivek Hybrid-21	5051	30	5799	29	7584	38	4117	25	3042	28	5119	35	7671	30	9729	13	7538	19	8313	20	4843	19	6284	21	5761	9	6640	12	4052	28	5516	17
38	Vivek Hybrid-43	5637	10	5920	28	10172	6	4391	19	4559	18	6136	19	9822	14	6573	38	8840	11	8412	18	4754	21	5415	32	4316	33	5098	34	3607	38	4638	37
39	PMH-5	4784	32	5226	35	8897	16	5092	16	2749	30	5350	32	9600	16	9728	14	9361	4	9563	8	4684	24	6981	9	5180	18	6799	10	4696	25	5668	16
40	Parkash	4665	34	6872	23	9148	15	4244	21	1285	40	5243	33	9050	21	7115	35	9794	3	8653	14	4009	31	6990	8	4916	24	7670	2	3779	33	5473	19
	Location Mean	**5379**		**6634**		**8847**		**4774**		**4401**		**6007**		**8701**		**8721**		**7716**		**8379**		**4812**		**6258**		**5034**		**6096**		**5048**		**5444**	
	C.D. (5%)	1091		584		1114		794		1898		1096		1960		506		1681		1382		1780		1158		540		1055		917		1090	
	C.V. (%)	12.48		5.41		7.75		10.23		**26.53**		**-**		13.86		3.57		13.4		**-**		**19.9**		11.67		6.6		10.64		11.17		**-**	
	F (Prob)	0		0		0		0		0				0		0		0				0		0		0		0		0			
	Plot Size	3.6		3.6		4.8		2.88		3		-		4.8		6		6		-		6		5.6		4.8		4.8		4.8		-	
	AGRONOMY DATA																																
	Sowing Date	8-07		27-06		7-07		26-06		27-06		-		29-06		2-07		24-06		-		6-07		6-08		22-06		6-07		3-07		-	
	Harvest Date	5-11		28-10		10-11		4-10		17-10		-		8-10		6-10		15-10		-		16-10		24-11		1-10		8-10		27-09		-	
	Irrigation Nos	-		3		-		-		-		-		7		4		1		-		1		-		-		1		-		-	
	Ferilizer Applied N	90		120		120		120		80		-		35		150		120		-		120		120		120		100		120		-	
	Ferilizer Applied P	60		60		60		60		60		-		12		60		60		-		60		60		60		60		60		-	
	Ferilizer Applied K	40		40		40		40		40		-		8		60		40		-		40		40		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

TABLE No. 5 **(Cont..)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
														PZ														CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
1	BRM 12-5	9014	3	5395	16	12454	5	9153	1	6200	7	7892	23	8351	6	5860	7	5656	12	1961	34	10123	6	4144	13	3817	28	5920	10	6980	9
2	KMH-5510	8527	10	6443	3	13655	2	7747	9	6223	5	10243	6	8806	2	4672	29	5077	21	3024	12	10527	2	4697	7	4057	24	5806	12	7058	7
3	AH7006	8259	14	4016	35	7953	29	5163	33	5021	20	8120	21	6422	24	4686	26	5202	18	2364	24	4919	38	3261	26	4879	8	4589	29	5997	24
4	LMH 1215	6051	26	4774	30	8789	22	5650	28	4898	23	6520	37	6114	27	5658	10	3892	35	2418	23	7134	24	2999	30	4274	21	4791	26	5852	27
5	DMRH1305	6067	25	5122	19	7278	35	6850	16	5213	16	6183	38	6119	26	5715	8	5249	17	2655	17	6580	26	3739	21	4966	4	5250	21	6088	22
6	FH 3728	8674	9	5164	18	8789	23	8030	6	4084	30	6681	35	6904	20	5707	9	5816	10	3354	7	8231	20	2913	32	4845	10	5502	19	6707	13
7	LMH 1415	8961	4	6120	7	9786	18	5864	25	6055	8	9256	11	7674	12	6289	4	5637	13	2954	13	11456	1	4527	11	4304	18	6443	1	6979	10
8	JH 31785	7254	17	5532	13	10338	17	5403	31	5619	11	8247	20	7065	19	5532	13	5040	24	2623	18	9373	11	3923	19	4672	11	5708	13	6551	18
9	FH 3754	5731	28	4892	28	8364	25	7012	15	3713	33	11604	1	6886	21	4083	36	5620	14	3212	9	8678	18	2507	34	3658	29	4909	25	6110	21
10	BL 104	10473	1	5901	8	11843	9	7436	13	5125	17	11472	2	8708	3	3770	38	5057	22	2452	21	8683	17	6034	2	4237	23	5556	17	6844	12
11	KMH 13-15	5004	33	3959	37	7648	32	5822	26	5290	14	7765	25	5914	31	4668	30	5117	19	1380	38	5217	36	2454	36	2527	39	3997	34	5475	34
12	BL 105	8269	13	5672	10	12429	6	6790	17	4351	27	8942	13	7742	10	5184	17	4481	30	5517	1	9444	10	4133	14	4582	13	5565	16	6541	19
13	DH-292	7732	15	6486	2	12510	4	7842	8	6392	4	10066	7	8505	4	5613	12	6215	5	3492	5	9264	12	4833	4	4011	26	5987	8	7211	6
14	H-100	7549	16	5412	15	13366	3	8113	5	5242	15	9891	8	8262	9	4894	21	4748	27	3785	2	9095	14	3304	24	4281	20	5264	20	6988	8
15	H-101	2981	39	2537	39	6658	38	3706	38	3330	38	6798	34	4335	39	3758	39	2506	39	1179	39	4575	40	1997	39	2136	40	2995	40	4057	40
16	IH-0712	3597	38	4957	25	9111	21	5864	24	3333	37	5778	39	5440	34	3846	37	4392	31	2737	16	6736	25	3274	25	4846	9	4619	27	5528	33
17	EH-2416	8833	6	5516	14	10693	14	7521	12	4747	24	9138	12	7741	11	7124	1	4020	32	3116	11	9996	8	3708	22	4934	6	5957	9	6599	17
18	CMH12-700	8825	7	6643	1	11903	8	8695	2	5063	18	8833	14	8327	7	5945	6	6507	3	2229	29	9124	13	4770	6	5809	2	6431	2	7491	2
19	KMH 13-17	4911	34	4973	23	9440	20	6518	20	3544	35	9871	9	6543	22	4535	31	5004	25	2852	14	5142	37	3937	18	4291	19	4582	30	5969	26
20	AH1402	1848	40	1573	40	5576	40	-	-	2533	40	7479	29	3802	40	4142	34	3925	34	898	40	5972	34	1440	40	2632	36	3622	38	4526	39
21	LMH 1115	6120	24	5054	22	8661	24	6488	21	3081	39	6805	33	6035	30	4901	20	5108	20	1923	35	6037	32	4039	17	4935	5	5004	24	5986	25
22	CMH12-703	8697	8	5332	17	10587	15	6609	18	5707	10	8811	15	7624	14	4985	18	6296	4	3526	3	8474	19	6570	1	5119	3	6289	4	7215	5
23	LMH 1315	8468	11	4775	29	11306	11	6582	19	5027	19	8071	22	7372	17	6213	5	7242	1	1870	36	9030	15	4573	10	4458	16	6303	3	6656	15
24	DH-291	8450	12	5795	9	11014	12	8323	4	5859	9	10505	3	8324	8	5254	15	4624	28	3433	6	10487	3	4929	3	4905	7	6040	7	7301	4
25	FH 3729	6873	18	5119	20	10364	16	7843	7	4298	28	10301	5	7466	15	4709	24	5942	7	3341	8	10002	7	3055	28	4563	14	5654	14	6697	14
26	JKMH 4222	9597	2	6376	5	13735	1	7107	14	7396	2	10439	4	9108	1	6905	2	7199	2	2739	15	6392	29	4627	8	5930	1	6210	5	7337	3

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
														PZ												CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	VAGA	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	MEAN	R	MEAN	R
27	NMH-51	6777	19	5595	12	11595	10	7728	10	6211	6	7846	24	7625	13	4782	23	5847	9	2572	19	9567	9	4776	5	4528	15	5900	11	6958	11
28	IH-0953	6128	23	6423	4	7327	34	4977	34	4402	26	7015	31	6046	29	5196	16	5959	6	2184	30	6163	31	4046	16	4272	22	5127	23	5693	30
29	BRM 12-2	6576	21	5655	11	9718	19	8459	3	5522	12	8754	17	7447	16	4195	33	5552	15	2246	28	10351	4	3825	20	4011	25	5587	15	6616	16
30	MEH-2-15	4041	37	4001	36	7355	33	5535	29	4961	22	5618	40	5252	36	4138	35	3146	37	2322	25	5974	33	2983	31	2600	38	3768	36	4908	37
31	Khushi	8853	5	6232	6	11938	7	7536	11	7470	1	8775	16	8467	5	6298	3	5536	16	2433	22	10142	5	4618	9	4417	17	6202	6	7639	1
32	LMH 1515	6650	20	4773	31	10843	13	5456	30	6539	3	9528	10	7298	18	4690	25	5053	23	3183	10	8747	16	4228	12	3088	33	5161	22	6253	20
33	MEH-1-15	5893	27	4345	33	8359	26	5339	32	5465	13	8362	19	6294	25	4675	28	4921	26	2065	33	6350	30	3361	23	3413	32	4544	31	5690	31
34	DH-297	4593	35	4166	34	7675	31	4931	35	3421	36	6550	36	5223	37	3553	40	1734	40	2158	31	6528	28	2254	38	3841	27	3582	39	4984	36
35	DH-298	4121	36	2999	38	6386	39	3972	37	3942	31	7723	26	4857	38	4472	32	4512	29	2141	32	4816	39	2282	37	2659	35	3748	37	4506	38
36	APH27-B	5235	32	4526	32	7055	37	6399	22	3558	34	7542	28	5719	32	4679	27	3981	33	3505	4	5484	35	2577	33	2622	37	3869	35	5395	35
	CHECKS																														
37	Vivek Hybrid-21	6161	22	4972	24	8312	27	6182	23	4468	25	8528	18	6437	23	4957	19	3152	36	2290	26	7281	22	3152	27	2759	34	4260	33	5751	28
38	Vivek Hybrid-43	5319	31	4908	27	7857	30	5761	27	4975	21	7641	27	6077	28	5407	14	2711	38	2486	20	7675	21	3013	29	3592	30	4479	32	5748	29
39	PMH-5	5604	29	5059	21	8027	28	4466	36	3882	32	6882	32	5653	33	5644	11	5931	8	2271	27	7224	23	4116	15	4617	12	5506	18	6051	23
40	Parkash	5431	30	4942	26	7133	36	3641	39	4131	29	7236	30	5419	35	4796	22	5697	11	1431	37	6580	27	2494	35	3414	31	4596	28	5626	32
	Location Mean	**6704**		**5053**		**9596**		**6475**		**4907**		**8343**		**6835**		**5053**		**4983**		**2608**		**7839**		**3703**		**4088**		**5133**		**6214**	
	C.D. (5%)	967		736		2844		923		1123		946		1256		849		1060		1408		1289		362		612		834		1116	
	C.V. (%)	8.87		8.96		18.23		8.99		14.07		6.97		-		10.34		13.08		**33.21**		10.11		6.02		9.21		-		-	
	F (Prob)	0		0		0		0		0		0				0		0		0		0		0		0					
	Plot Size	6		6		4.8		5.6		4.8		4.8		-		4.8		4.8		6		4.8		4.8		4.5		-		-	
	AGRONOMY DATA																														
	Sowing Date	29-06		29-06		22-06		29-07		14-07		7-07		-		26-06		24-06		9-07		30-06		16-07		24-06		-		-	
	Harvest Date	3-10		27-10		3-11		15-12		2-11		9-10		-		10-10		20-10		19-11		-		28-10		2-10		-		-	
	Irrigation Nos	4		7		3		6		10		8		-		-		-		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		150		-		150		150		120		100		100		120		-		-	
	Ferilizer Applied P	60		60		75		75		75		75		-		80		80		60		50		50		60		-		-	
	Ferilizer Applied K	50		50		37.5		40		75		75		-		-		-		40		30		-		60		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21																																
							NHZ				NWPZ						NEPZ								PZ							CWZ	OV'L
		ALMO	BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	MEAN	MEAN
1	BRM 12-5	6.4	31.4	9.5	-	181.1	30.3	38.5	11.5	-	10.5	8.5	-	2.9	-	-	-	46.3	8.5	49.8	48.1	38.8	-	29.7	18.2	79.4	-	39	31.5	38.3	39	21.4
2	KMH-5510	11.2	38.1	27.4	41.9	70.9	34.1	24.2	-	-	-	-	4.8	0.2	-	61.3	7.5	38.4	29.6	64.3	25.3	39.3	20.1	36.8	-	61.1	32.1	44.6	49	47	36.3	22.7
3	AH7006	3.4	30.3	20.8	-	7	12.4	6.4	3.5	-	-	15.6	-	-	-	72.5	5.5	34.1	-	-	-	12.4	-	-	-	65	3.2	-	3.5	76.8	7.7	4.3
4	LMH 1215	30.3	12.7	8.5	-	44.6	13.2	9.5	-	-	-	-	-	-	-	41.7	-	-	-	5.7	-	9.6	-	-	14.1	23.5	5.6	-	-	54.9	12.5	1.8
5	DMRH1305	45.5	38.8	2.2	-	74.8	25.6	-	-	12	-	0.1	5.9	-	-	29.1	-	-	3	-	10.8	16.7	-	-	15.3	66.6	16	-	18.6	80	23.2	5.9
6	FH 3728	27.7	35	39.4	36.7	102.7	43.2	38.3	-	4.3	3.2	20.5	7.6	-	-	41.3	7.5	40.8	3.9	5.7	29.9	-	-	7.2	15.1	84.5	46.5	13	-	75.6	29.2	16.6
7	LMH 1415	-	28.7	3.2	43.5	33.3	18.2	37.3	12.6	-	14.9	0.5	8.6	0.6	-	54.5	10	45.5	23.1	17.7	-	35.5	8.5	19.2	26.9	78.9	29	57.3	43.6	56	51.2	21.3
8	JH 31785	0.1	19.8	31	44.9	-	16.9	31.4	2.7	-	9.6	0.5	8	-	9.8	33.3	5.3	17.7	11.3	24.4	-	25.8	-	9.8	11.6	59.9	14.5	28.7	24.5	69.3	34	13.9
9	FH 3754	-	23.5	27.7	35.1	39.5	19.3	7.4	-	6.3	-	-	12.4	-	-	-	-	-	-	0.6	13.4	-	36.1	7	-	78.3	40.3	19.2	-	32.6	15.2	6.2
10	BL 104	9.7	-	9	2.8	10.3	5.2	45	0.7	-	10.6	0.8	19.3	3.4	18.1	-	7.7	70	18.7	42.5	20.3	14.7	34.5	35.3	-	60.5	7.1	19.2	91.4	53.6	30.4	19
11	KMH 13-15	24	-	-	111.7	9.3	17.6	8.1	-	-	-	5	-	-	-	17.1	-	-	-	-	-	18.4	-	-	-	62.3	-	-	-	-	-	-
12	BL 105	4.1	-	16.2	-	110.1	13.7	31.3	-	-	-	10	-	7.5	-	61.4	4.3	34.2	14.1	49.5	9.8	-	4.9	20.3	4.6	42.2	140.9	29.7	31.2	66	30.6	13.7
13	DH-292	-	7.8	31.2	-	141.3	24.7	33	7.5	21.4	19.6	-	-	-	-	100.3	10.2	25.5	30.5	50.5	26.8	43.1	18	32.1	13.2	97.2	52.5	27.2	53.4	45.3	40.5	25.4
14	H-100	38	23.7	13.2	-	155.6	33	31.3	-	18.5	9.2	51.8	21.5	-	-	21.2	10.8	22.5	8.8	60.8	31.2	17.3	16	28.4	-	50.7	65.3	24.9	4.8	55.1	23.6	21.5
15	H-101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	IH-0712	-	-	16.5	28.8	-	4.6	14.1	4.9	-	2	-	-	-	-	35.1	-	-	-	9.6	-	-	-	-	-	39.4	19.5	-	3.9	75.6	8.4	-
17	EH-2416	5.6	23.3	25.5	-	87.7	24.3	19.8	-	-	-	-	2.6	-	-	53.7	3.2	43.4	10.9	28.6	21.7	6.3	7.2	20.3	43.7	27.6	36.1	37.3	17.7	78.8	39.8	14.7
18	CMH12-700	-	37.4	3.1	41.4	134.8	30.8	53.1	7.7	38.7	31.1	27.6	3	-	15.2	36.9	14.3	43.3	33.6	43.2	40.6	13.3	3.6	29.4	19.9	106.5	-	25.3	51.3	110.5	51	30.2
19	KMH 13-17	8.3	-	3.8	125.4	70.5	31.1	-	-	14.8	-	7.8	-	-	-	-	-	-	0	13.6	5.4	-	15.7	1.6	-	58.8	24.5	-	24.9	55.5	7.5	3.8
20	AH1402	0.2	-	11.9	1	-	-	-	-	-	-	-	-	-	-	36.7	-	-	-	-	-	-	-	-	-	24.5	-	-	-	-	-	-
21	LMH 1115	0.5	28.1	38.6	37	23.3	26.6	10.1	-	-	-	-	-	-	-	43.3	-	-	1.7	4.2	4.9	-	-	-	-	62.1	-	-	28.2	78.8	17.5	4.1
22	CMH12-703	7.7	31.3	4.6	26.6	164.6	33.8	30.4	13.4	18.1	20	-	21.1	-	12.1	65.9	15.3	41.2	7.2	27.4	6.9	27.7	3.3	18.4	0.6	99.8	54	16.4	108.5	85.5	47.6	25.4
23	LMH 1315	4.3	41.3	15.2	20.6	74.8	26.9	20.5	1.5	-	3	-	-	-	-	56	-	37.5	-	36	6.5	12.5	-	14.5	25.3	129.8	-	24	45.1	61.6	48	15.7
24	DH-291	14.1	35.6	41.5	39.2	61.9	36.8	19.4	9.9	23	16.8	9.8	29.2	-	3.1	37.6	12.2	37.2	16.6	32.5	34.6	31.1	23.2	29.3	6	46.7	49.9	44	56.4	77.8	41.8	26.9
25	FH 3729	4.1	44.5	14.9	9.6	133.9	32.8	29.2	-	-	-	18.1	2.7	-	7.1	11	6.6	11.6	3	24.7	26.9	-	20.8	16	-	88.5	45.9	37.4	-	65.4	32.7	16.4
26	JKMH 4222	3.5	50.2	42.7	46.7	-	29.6	48	-	19.5	19	-	4.4	-	7.6	12.7	-	55.8	28.2	65.2	15	65.5	22.4	41.5	39.3	128.4	19.6	-	46.8	114.9	45.8	27.6
27	NMH-51	48.1	39.9	40.2	33	11.2	37.1	41.5	-	18.7	18.3	30.4	-	9.8	-	-	-	10	12.5	39.5	25	39	-	18.5	-	85.5	12.3	31.4	51.5	64.1	38.5	21
28	IH-0953	16.2	23.5	11.9	3.4	-	8.1	6.4	-	-	-	22.5	-	-	-	-	-	-	29.2	-	-	-	-	-	4.8	89.1	-	-	28.4	54.8	20.3	-
29	BRM 12-2	7.1	45.4	15.2	-	165.9	35.7	15.6	-	11.2	1.1	-	13.6	-	2.3	-	-	6.7	13.7	16.9	36.8	23.6	2.7	15.7	-	76.1	-	42.2	21.4	45.4	31.1	15
30	MEH-2-15	-	-	7.5	-	-	-	-	-	-	-	-	-	-	-	18.6	-	-	-	-	-	11	-	-	-	-	1.4	-	-	-	-	-
31	Khushi	2.2	33.7	14.7	40.4	166.7	38.7	27	8.5	56.4	28.7	53	16.8	8.5	14.7	30.7	23	43.7	25.3	43.6	21.9	67.2	2.9	31.5	27.1	75.7	6.2	39.3	46.5	60.1	45.6	32.8
32	LMH 1515	21.5	33.1	22.5	0.2	2.1	18.7	-	-	12.8	-	4.6	2.1	-	-	36.7	-	7.9	-	30.5	-	46.4	11.7	13.4	-	60.3	39	20.1	34.1	11.9	21.2	8.7
33	MEH-1-15	9.2	3.1	3.3	-	-	1	-	-	-	-	-	6.8	7	-	32.7	-	-	-	0.6	-	22.3	-	-	-	56.1	-	-	6.6	23.7	6.7	-
34	DH-297	6.5	-	12	-	-	-	-	-	-	-	-	-	-	-	21.2	-	-	-	-	-	-	-	-	-	-	-	-	-	39.2	-	-
35	DH-298	-	-	0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	43.2	-	-	-	-	-	-
36	APH27-B	8.8	15	24.6	-	53.6	18.4	-	-	0.2	-	-	-	-	-	-	-	-	-	-	3.5	-	-	-	-	26.3	53.1	-	-	-	-	-
	CHECKS																															
37	Vivek Hybrid-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	Vivek Hybrid-43	11.6	2.1	34.1	6.6	49.8	19.9	28	-	17.3	1.2	-	-	-	-	-	-	-	-	-	-	11.4	-	-	9.1	-	8.6	5.4	-	30.2	5.1	-
39	PMH-5	-	-	17.3	23.7	-	4.5	25.1	-	24.2	15	-	11.1	-	2.4	15.9	2.8	-	1.7	-	-	-	-	-	13.8	88.2	-	-	30.6	67.3	29.2	5.2
40	Parkash	-	18.5	20.6	3.1	-	2.4	18	-	29.9	4.1	-	11.2	-	15.5	-	-	-	-	-	-	-	-	-	-	80.7	-	-	-	23.7	7.9	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-43																															
						NHZ				NWPZ						NEPZ								PZ								CWZ	OV'L
		ALMO	BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	MEAN	MEAN
1	BRM 12-5	-	28.7	-	-	87.6	8.7	8.2	65	-	9.2	10.5	10.1	37.3	22.5	-	16.1	69.5	9.9	58.5	58.9	24.6	3.3	37.4	8.4	108.6	-	31.9	37.5	6.3	32.2	21.4
2	KMH-5510	-	35.2	-	33.1	14.1	11.9	-	9.3	-	-	-	21.6	33.7	24.7	81.2	27.8	60.3	31.3	73.8	34.5	25.1	34.1	44.9	-	87.3	21.6	37.2	55.9	13	29.6	22.8
3	AH7006	-	27.6	-	-	-	-	-	53.2	-	-	17.8	5.1	9.4	19.3	93.8	25.4	55.3	-	1.2	-	0.9	6.3	5.7	-	91.9	-	-	8.2	35.9	2.5	4.3
4	LMH 1215	16.8	10.3	-	-	-	-	-	38.2	-	-	-	2.5	14	5.2	59.2	12.3	13.8	-	11.9	-	-	-	0.6	4.7	43.6	-	-	-	19	7	1.8
5	DMRH1305	30.3	36	-	-	16.7	4.8	-	38.2	-	-	1.9	22.8	13.6	2.6	45	15.8	14.1	4.4	-	18.9	4.8	-	0.7	5.7	93.6	6.8	-	24.1	38.3	17.2	5.9
6	FH 3728	14.4	32.2	4	28.2	35.3	19.4	8	10.6	-	2	22.8	24.8	13.4	26.4	58.7	27.9	63.1	5.2	11.9	39.4	-	-	13.6	5.6	114.6	34.9	7.2	-	34.9	22.8	16.7
7	LMH 1415	-	26.1	-	34.5	-	-	7.2	66.6	-	13.5	2.4	26.1	34.2	29.2	73.6	30.8	68.5	24.7	24.6	1.8	21.7	21.1	26.3	16.3	108	18.8	49.3	50.2	19.8	43.8	21.4
8	JH 31785	-	17.4	-	35.9	-	-	2.6	52	-	8.3	2.4	25.3	8.6	43	49.8	25.2	36.4	12.7	31.6	-	12.9	7.9	16.3	2.3	85.9	5.5	22.1	30.2	30.1	27.4	14
9	FH 3754	-	21	-	26.7	-	-	-	31.2	-	-	0.2	30.5	11.9	-	2.6	9.4	7.7	-	6.4	21.7	-	51.9	13.3	-	107.3	29.2	13.1	-	1.9	9.6	6.3
10	BL 104	-	-	-	-	-	-	13.2	49	-	9.3	2.7	38.4	38	53.9	-	28.1	96.9	20.2	50.7	29.1	3	50.1	43.3	-	86.6	-	13.1	100.2	18	24	19.1
11	KMH 13-15	11.1	-	-	98.5	-	-	-	19	-	-	6.9	0.1	-	-	31.6	4.3	-	-	-	1.1	6.3	1.6	-	-	88.7	-	-	-	-	-	-
12	BL 105	-	-	-	-	40.2	-	2.6	15.9	-	-	12.1	-	43.4	4.7	81.3	24.1	55.5	15.6	58.2	17.9	-	17	27.4	-	65.3	121.9	23.1	37.2	27.6	24.2	13.8
13	DH-292	-	5.6	-	-	61	4	3.9	59.1	3.5	18.1	-	16	16.5	26.2	125.1	31.1	45.4	32.2	59.2	36.1	28.5	31.7	40	3.8	129.3	40.5	20.7	60.4	11.7	33.7	25.5
14	H-100	23.7	21.2	-	-	70.6	10.9	2.6	25.4	1	8	54.6	41	19.5	7.7	36.2	31.7	41.9	10.3	70.1	40.8	5.4	29.4	36	-	75.2	52.2	18.5	9.6	19.2	17.5	21.6
15	H-101	-	-	-	-	-	-	-	-	-	-	-	-	25.4	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
16	IH-0712	-	-	-	20.8	-	-	-	55.2	-	0.8	-	-	-	14.7	51.8	6.6	-	1	16	1.8	-	-	-	-	62	10.1	-	8.7	34.9	3.1	-
17	EH-2416	-	20.7	-	-	25.3	3.7	-	9.3	-	-	-	19	26.3	16.8	72.7	22.8	66.1	12.4	36.1	30.5	-	19.6	27.4	31.8	48.3	25.4	30.3	23.1	37.4	33	14.8
18	CMH12-700	-	34.5	-	32.6	56.7	9.1	19.6	59.4	18.3	29.5	30	19.5	31.3	50	53.8	35.9	65.9	35.4	51.5	50.9	1.8	15.6	37	10	140.1	-	18.9	58.3	61.7	43.6	30.3
19	KMH 13-17	-	-	-	111.4	13.8	9.3	-	23.5	-	-	9.8	-	-	1.6	8.1	1.5	-	1.3	20.1	13.1	-	29.2	7.7	-	84.6	14.7	-	30.6	19.5	2.3	3.8
20	AH1402	-	-	-	-	-	-	-	-	-	-	-	-	20.3	20.7	53.6	11.3	-	-	-	-	-	-	-	-	44.8	-	-	-	-	-	-
21	LMH 1115	-	25.4	3.4	28.4	-	5.6	-	20.9	-	-	-	13.5	15.4	20.3	61	15.1	15.1	3	10.2	12.6	-	-	-	-	88.4	-	-	34	37.4	11.7	4.1
22	CMH12-703	-	28.6	-	18.7	76.6	11.6	1.9	67.8	0.7	18.6	-	40.5	23.2	46	86.3	37.1	63.5	8.6	34.7	14.7	14.7	15.3	25.5	-	132.2	41.8	10.4	118	42.5	40.4	25.5
23	LMH 1315	-	38.4	-	13.1	16.6	5.9	-	50.2	-	1.8	-	8.1	-	17.3	75.3	11.4	59.2	-	43.9	14.2	1	5.6	21.3	14.9	167.1	-	17.7	51.8	24.1	40.7	15.8
24	DH-291	2.2	32.8	5.5	30.5	8	14.1	-	62.7	4.8	15.4	11.8	49.9	17.7	34.3	54.6	33.4	58.9	18.1	40.2	44.5	17.8	37.5	37	-	70.6	38.1	36.6	63.6	36.6	34.8	27
25	FH 3729	-	41.6	-	2.8	56.1	10.8	0.9	5.9	-	-	20.3	19.2	30.1	39.5	24.7	26.8	29.2	4.3	31.9	36.1	-	34.8	22.9	-	119.2	34.4	30.3	1.4	27.1	26.2	16.5
26	JKMH 4222	-	47.1	6.4	37.6	-	8.1	15.6	41.8	1.9	17.6	-	21.2	22.9	40.2	26.6	18.8	80.4	29.9	74.8	23.4	48.7	36.6	49.9	27.7	165.5	10.2	-	53.6	65.1	38.6	27.6
27	NMH-51	32.7	37.1	4.5	24.7	-	14.3	10.5	47.6	1.2	16.9	32.9	-	46.5	22.1	3.3	17	27.4	14	47.6	34.1	24.8	2.7	25.5	-	115.7	3.5	24.7	58.5	26.1	31.7	21
28	IH-0953	4.1	21	-	-	-	-	-	32.8	-	-	24.7	5.3	-	9.1	0.5	2.2	15.2	30.9	-	-	-	-	-	-	119.8	-	-	34.3	18.9	14.5	-
29	BRM 12-2	-	42.4	-	-	77.5	13.2	-	21.3	-	-	-	31.8	-	33.2	5.9	13	23.6	15.2	23.7	46.8	11	14.6	22.6	-	104.8	-	34.9	26.9	11.7	24.7	15.1
30	MEH-2-15	-	-	-	-	-	-	-	37.9	-	-	-	8.2	-	-	33.2	2.4	-	-	-	-	-	-	-	-	16.1	-	-	-	-	-	-
31	Khushi	-	30.9	-	31.7	78	15.7	-	60.6	33.4	27.2	55.8	35.5	44.8	49.4	46.8	46.2	66.5	27	51.9	30.8	50.1	14.8	39.3	16.5	104.2	-	32.2	53.2	23	38.5	32.9
32	LMH 1515	8.9	30.3	-	-	-	-	-	17.8	-	-	6.5	18.4	8	6.2	53.6	16.8	25	-	38	-	31.4	24.7	20.1	-	86.4	28.1	14	40.3	-	15.2	8.8
33	MEH-1-15	-	1	-	-	-	-	-	43.2	-	-	-	24	42.8	-	49	17	10.8	-	6.4	-	9.8	9.4	3.6	-	81.5	-	-	11.5	-	1.4	-
34	DH-297	-	-	-	-	-	-	-	31.8	-	-	-	-	0.4	10.4	36.1	-	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-
35	DH-298	-	-	-	-	-	-	-	7.3	-	-	-	-	11.8	-	7.1	-	-	-	-	-	-	1.1	-	-	66.5	-	-	-	-	-	-
36	APH27-B	-	12.6	-	-	2.5	-	-	11.5	-	-	-	3.7	33	2.8	10.9	4.4	-	-	-	11.1	-	-	-	-	46.9	41	-	-	-	-	-
	CHECKS																																
37	Vivek Hybrid-21	-	-	-	-	-	-	-	48	-	-	1.9	16	33.5	30.2	12.3	18.9	15.8	1.3	5.8	7.3	-	11.6	5.9	-	16.3	-	-	4.6	-	-	0.1
38	Vivek Hybrid-43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	PMH-5	-	-	-	16	-	-	-	48	5.9	13.7	-	28.9	20	33.4	30.2	22.2	5.4	3.1	2.2	-	-	-	-	4.4	118.8	-	-	36.6	28.5	22.9	5.3
40	Parkash	-	16.1	-	-	-	-	-	8.2	10.8	2.9	-	29.1	13.9	50.5	4.8	18	2.1	0.7	-	-	-	-	-	-	110.1	-	-	-	-	2.6	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5																																
						NHZ				NWPZ						NEPZ								PZ								CWZ	OV'L	
		ALMO	BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	MEAN	MEAN	
1	BRM 12-5	12.3	45.8	-	-	211.1	24.7	10.7	11.5	-	-	12.2	-	14.4	-	-	-	60.9	6.6	55.2	105	59.7	14.7	47.7	3.8	-	-	40.1	0.7	-	7.5	15.3		
2	KMH-5510	17.4	53.2	8.6	14.7	89.2	28.3	-	-	-	-	-	-	11.4	-	39.2	4.6	52.2	27.4	70.1	73.5	60.3	48.8	55.8	-	-	33.2	45.7	14.1	-	5.4	16.6		
3	AH7006	9.1	44.6	2.9	-	18.4	7.5	-	3.5	-	-	19.5	-	-	-	48.8	2.6	47.4	-	-	15.6	29.3	18	13.6	-	-	4.1	-	-	5.7	-	-		
4	LMH 1215	37.6	25	-	-	60	8.3	-	-	-	-	-	-	-	-	22.3	-	8	-	9.5	26.5	26.2	-	8.1	0.3	-	6.5	-	-	-	-	-		
5	DMRH1305	53.6	54	-	-	93.5	20.2	-	-	-	-	3.4	-	-	-	11.4	-	8.3	1.3	-	53.4	34.3	-	8.2	1.3	-	16.9	-	-	7.6	-	0.6		
6	FH 3728	34.8	49.8	18.9	10.5	124.3	37	10.5	-	-	-	24.6	-	-	-	21.9	4.7	54.8	2.1	9.5	79.8	5.2	-	22.1	1.1	-	47.7	13.9	-	5	-	10.8		
7	LMH 1415	4.4	42.8	-	16	47.5	13.1	9.7	12.6	-	-	3.9	-	11.9	-	33.3	7	59.9	21	21.9	31.3	56	34.5	35.7	11.4	-	30.1	58.6	10	-	17	15.3		
8	JH 31785	5.6	32.9	11.7	17.2	-	11.9	5	2.7	-	-	3.9	-	-	7.2	15	2.4	29.4	9.4	28.8	21	44.7	19.8	25	-	-	15.5	29.7	-	1.2	3.7	8.3		
9	FH 3754	-	37	8.9	9.2	54.4	14.2	-	-	-	-	1.7	1.2	-	-	-	-	2.3	-	4.2	57	-	68.6	21.8	-	-	41.5	20.1	-	-	-	1		
10	BL 104	15.8	5.7	-	-	22.1	0.7	15.8	0.7	-	-	4.2	7.3	15	15.4	-	4.8	86.9	16.7	47.6	66.5	32	66.7	54	-	-	8	20.2	46.6	-	0.9	13.1		
11	KMH 13-15	30.9	-	-	71.1	21	12.5	-	-	-	-	8.5	-	-	-	1.1	-	-	-	-	30.4	36.2	12.8	4.6	-	-	-	-	-	-	-	-		
12	BL 105	10	4	-	-	132.5	8.8	4.9	-	-	-	13.8	-	19.5	-	39.2	1.5	47.6	12.1	54.8	52	12.1	29.9	37	-	-	143	30.7	0.4	-	1.1	8.1		
13	DH-292	-	19.6	11.9	-	167	19.3	6.3	7.5	-	3.9	-	-	-	-	72.9	7.2	38	28.2	55.9	75.6	64.7	46.3	50.4	-	4.8	53.8	28.2	17.4	-	8.7	19.2		
14	H-100	45.7	37.3	-	-	182.9	27.2	4.9	-	-	-	56.9	9.4	-	-	4.6	7.8	34.7	7	66.5	81.7	35	43.7	46.1	-	-	66.7	25.9	-	-	-	15.5		
15	H-101	-	-	-	-	-	-	-	-	-	-	-	-	4.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
16	IH-0712	-	7.9	-	4.1	2.9	0.1	-	4.9	-	-	-	-	-	-	16.6	-	-	-	13.5	31.3	-	-	-	-	-	20.5	-	-	5	-	-		
17	EH-2416	11.4	36.8	7	-	107.8	19	-	-	-	-	-	-	5.3	-	32.6	0.5	57.6	9	33.2	68.4	22.3	32.8	36.9	26.2	-	37.3	38.4	-	6.9	8.2	9.1		
18	CMH12-700	-	52.4	-	14.3	159.9	25.1	22.4	7.7	11.7	13.9	32	-	9.4	12.5	18.1	11.2	57.5	31.3	48.3	94.7	30.4	28.3	47.3	5.3	9.7	-	26.3	15.9	25.8	16.8	23.8		
19	KMH 13-17	14.4	9.7	-	82.3	88.7	25.4	-	-	-	-	11.5	-	-	-	-	-	-	-	17.6	46	-	43.4	15.7	-	-	25.6	-	-	-	-	-		
20	AH1402	5.8	-	-	-	-	-	-	-	-	-	-	-	0.3	-	18	-	-	-	-	-	-	8.7	-	-	-	-	-	-	-	-	-		
21	LMH 1115	6.1	42.1	18.2	10.7	36.4	21.1	-	-	-	-	-	-	-	-	23.6	-	9.2	-	7.9	45.3	-	-	6.7	-	-	-	-	-	6.9	-	-		
22	CMH12-703	13.7	45.7	-	2.4	192.9	28	4.2	13.4	-	4.3	0.5	9	2.6	9.4	43.1	12.2	55.2	5.4	31.9	48	47	28	34.9	-	6.2	55.3	17.3	59.6	10.9	14.2	19.2		
23	LMH 1315	10.2	56.8	-	-	93.4	21.4	-	1.5	-	-	-	-	-	-	34.6	-	51.1	-	40.9	47.4	29.5	17.3	30.4	10.1	22.1	-	25	11.1	-	14.5	10		
24	DH-291	20.4	50.5	20.7	12.6	79.1	30.9	-	9.9	-	1.5	13.5	16.3	-	0.7	18.7	9.2	50.8	14.6	37.2	86.4	50.9	52.6	47.2	-	-	51.2	45.2	19.7	6.3	9.7	20.7		
25	FH 3729	9.9	60.4	-	-	158.9	27	3.2	-	-	-	22.1	-	8.4	4.6	-	3.7	22.6	1.2	29.1	75.6	10.7	49.7	32.1	-	0.2	47.1	38.4	-	-	2.7	10.7		
26	JKMH 4222	9.3	66.6	21.7	18.6	-	24	18.2	-	-	3.4	-	-	2.4	5.1	-	-	71.3	26	71.1	59.1	90.5	51.7	61.1	22.4	21.4	20.6	-	12.4	28.4	12.8	21.3		
27	NMH-51	56.3	55.3	19.5	7.5	23.1	31.2	13.1	-	-	2.8	34.8	-	22.1	-	-	-	20.9	10.6	44.5	73	60	14	34.9	-	-	13.3	32.4	16	-	7.1	15		
28	IH-0953	22.7	37	-	-	-	3.4	-	-	-	-	26.6	-	-	-	-	-	9.4	27	-	11.5	13.4	1.9	6.9	-	0.5	-	-	-	-	-	-		
29	BRM 12-2	13.1	61.3	-	-	194.3	29.8	-	-	-	-	0.1	2.3	-	-	-	-	17.3	11.8	21.1	89.4	42.2	27.2	31.7	-	-	-	43.3	-	-	1.5	9.3		
30	MEH-2-15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-	23.9	27.8	-	-	-	-	2.3	-	-	-	-	-		
31	Khushi	7.9	48.3	-	13.6	195.1	32.8	1.5	8.5	26	11.9	58.2	5.1	20.7	12	12.8	19.7	58	23.2	48.7	68.7	92.4	27.5	49.8	11.6	-	7.1	40.4	12.2	-	12.6	26.2		
32	LMH 1515	28.3	47.7	4.4	-	13	13.6	-	-	-	-	8.1	-	-	-	17.9	-	18.7	-	35.1	22.2	68.4	38.4	29.1	-	-	40.2	21.1	2.7	-	-	3.3		
33	MEH-1-15	15.3	14.4	-	-	-	-	-	-	-	-	-	-	19	-	14.5	-	5.2	-	4.1	19.6	40.8	21.5	11.3	-	-	-	-	-	-	-	-		
34	DH-297	12.5	9.3	-	-	-	-	-	-	-	-	-	-	-	-	4.6	-	-	-	-	10.4	-	-	-	-	-	-	-	-	-	-	-		
35	DH-298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.5	12.2	-	-	-	-	-	-	-	-	-		
36	APH27-B	14.9	27.6	6.2	-	70	13.3	-	-	-	-	-	-	10.8	-	-	-	-	-	-	43.3	-	9.6	1.2	-	-	54.4	-	-	-	-	-		
	CHECKS																																	
37	Vivek Hybrid-21	5.6	10.9	-	-	10.7	-	-	0	-	-	3.4	-	11.2	-	-	-	9.9	-	3.6	38.4	15.1	23.9	13.9	-	-	0.8	0.8	-	-	-	-		
38	Vivek Hybrid-43	17.8	13.3	14.3	-	65.8	14.7	2.3	-	-	-	1.5	-	-	-	-	-	-	-	-	29	28.2	11	7.5	-	-	9.5	6.2	-	-	-	-		
39	PMH-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
40	Parkash	-	31.5	2.8	-	-	-	-	-	4.6	-	-	0.1	-	12.8	-	-	-	-	-	-	6.4	5.1	-	-	-	-	-	-	-	-	-		

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Parkash																																
							NHZ				NWPZ						NEPZ								PZ							CWZ	OV'L
		ALMO	BAJA	UDHA	KANG	BARA	MEAN	LUDH	KARN	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	VAGA	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	MEAN	MEAN
1	BRM 12-5	15.2	10.9	-	-	565.4	27.2	17.4	52.4	-	6.1	31.1	-	20.6	-	-	-	66	9.2	74.6	151.4	50.1	9.1	54.1	22.2	-	37	53.9	66.1	11.8	28.8	24.1
2	KMH-5510	20.4	16.5	5.6	37.7	304.5	31	5.3	0.9	-	-	9.6	-	17.4	-	73	8.3	57	30.4	91.4	112.8	50.6	41.6	62.5	-	-	111.2	60	88.3	18.8	26.3	25.5
3	AH7006	11.9	9.9	0.1	-	153.2	9.7	-	41.5	-	-	39.7	-	-	-	84.9	6.3	52.1	-	11.5	41.8	21.6	12.2	18.5	-	-	65.1	-	30.7	42.9	-	6.6
4	LMH 1215	41.1	-	-	-	242.2	10.5	-	27.7	-	-	11.2	-	0.1	-	52	-	11.4	-	23.2	55.2	18.6	-	12.8	18	-	68.9	8.4	20.2	25.2	4.2	4
5	DMRH1305	57.5	17.1	-	-	313.7	22.7	-	27.7	-	-	20.9	-	-	-	38.4	-	11.7	3.6	2	88.1	26.2	-	12.9	19.2	-	85.5	-	49.9	45.4	14.2	8.2
6	FH 3728	38.2	13.9	15.6	32.6	379.7	39.8	17.2	2.2	-	-	45.6	-	-	-	51.5	8.4	59.7	4.5	23.2	120.5	-	-	27.4	19	2.1	134.3	25.1	16.8	41.9	19.7	19.2
7	LMH 1415	7	8.6	-	39.2	215.5	15.4	16.3	53.9	-	10.4	21.4	-	17.9	-	65.7	10.8	65	23.8	37.2	61	46.6	27.9	41.6	31.1	-	106.3	74.1	81.5	26.1	40.2	24
8	JH 31785	8.3	1.1	8.6	40.6	57.2	14.2	11.4	40.4	-	5.3	21.4	-	-	-	43	6.1	33.6	11.9	44.9	48.4	36	14	30.4	15.3	-	83.2	42.5	57.3	36.8	24.2	16.4
9	FH 3754	-	4.2	5.9	31.1	230.2	16.5	-	21.2	-	-	18.8	1.1	-	-	-	-	5.5	-	17.3	92.6	-	60.4	27.1	-	-	124.4	31.9	0.5	7.1	6.8	8.6
10	BL 104	18.7	-	-	-	161.1	2.7	22.9	37.7	-	6.3	21.8	7.2	21.1	2.3	-	8.5	92.9	19.4	66	104.2	24.1	58.5	60.7	-	-	71.3	32	141.9	24.1	20.9	21.6
11	KMH 13-15	34.2	-	-	105.4	158.8	14.8	-	9.9	-	-	26.8	-	-	-	25.6	-	-	-	7.2	59.9	28.1	7.3	9.1	-	-	-	-	-	-	-	-
12	BL 105	12.8	-	-	-	397.3	11	11.3	7	-	-	32.9	-	25.9	-	73	5.1	52.3	14.8	74.2	86.5	5.3	23.6	42.9	8.1	-	285.4	43.5	65.7	34.2	21.1	16.3
13	DH-292	-	-	8.8	-	471.1	21.7	12.7	47	-	14.9	13	-	2.3	-	114.8	11.1	42.4	31.2	75.4	115.4	54.7	39.1	56.9	17	9.1	143.9	40.8	93.8	17.5	30.3	28.2
14	H-100	49.5	4.4	-	-	505	29.8	11.3	15.8	-	4.9	83.4	9.3	4.9	-	30	11.6	39	9.5	87.4	122.8	26.9	36.7	52.5	2	-	164.4	38.2	32.5	25.4	14.5	24.2
15	H-101	-	-	-	-	28	-	-	-	-	-	-	-	10.1	-	-	-	-	-	-	1.8	-	-	-	-	-	-	-	-	-	-	-
16	IH-0712	-	-	-	24.9	120.1	2.1	-	43.4	-	-	-	-	-	-	44.9	-	-	0.3	27.7	61	-	-	0.4	-	-	91.2	2.4	31.3	41.9	0.5	-
17	EH-2416	14.3	4	4	-	344.4	21.4	1.5	1	-	-	9.5	-	10.9	-	64.8	4	62.6	11.6	49.9	106.6	14.9	26.3	42.9	48.6	-	117.7	51.9	48.7	44.5	29.6	17.3
18	CMH12-700	1.1	15.9	-	37.2	455.8	27.7	29.8	47.3	6.8	25.9	54.2	-	15.2	-	46.8	15.2	62.5	34.4	66.9	138.8	22.6	22.1	53.7	24	14.2	55.7	38.7	91.2	70.1	39.9	33.1
19	KMH 13-17	17.3	-	-	118.7	303.5	28	-	14.1	-	-	30.2	-	-	-	3.2	-	-	0.6	32.3	79	-	36.4	20.7	-	-	99.2	-	57.8	25.7	-	6.1
20	AH1402	8.5	-	-	-	14.9	-	-	-	-	-	-	-	5.6	-	46.6	-	-	-	-	-	-	3.4	-	-	-	-	-	-	-	-	-
21	LMH 1115	8.8	8	14.9	32.9	191.8	23.6	-	11.7	-	-	-	-	1.3	-	53.6	-	12.7	2.3	21.4	78.2	-	-	11.4	2.2	-	34.3	-	61.9	44.5	8.9	6.4
22	CMH12-703	16.6	10.8	-	22.8	526.4	30.6	10.5	55	-	15.3	17.4	8.8	8.1	-	77.9	16.2	60.1	7.9	48.4	81.5	38.2	21.8	40.7	3.9	10.5	146.3	28.8	163.4	49.9	36.8	28.2
23	LMH 1315	13	19.2	-	17	313.6	23.9	2.1	38.8	-	-	10.5	-	-	-	67.3	-	55.9	-	58.5	80.8	21.7	11.5	36	29.5	27.1	30.6	37.2	83.3	30.6	37.1	18.3
24	DH-291	23.5	14.4	17.3	35.1	283.1	33.6	1.2	50.3	-	12.2	32.6	16.1	3.3	-	47.6	13.1	55.6	17.3	54.4	128.6	41.8	45.2	53.6	9.6	-	139.9	59.4	97.6	43.7	31.4	29.8
25	FH 3729	12.7	21.9	-	6.3	453.6	29.6	9.5	-	-	-	42.6	-	14.2	-	19	7.4	26.5	3.6	45.3	115.4	4	42.4	37.8	-	4.3	133.4	52	22.5	33.6	23	19
26	JKMH 4222	12.1	26.7	18.3	42.3	84	26.5	25.4	31	-	14.3	-	-	7.9	-	20.9	0.7	76.7	29	92.5	95.2	79	44.3	68.1	44	26.4	91.4	-	85.5	73.7	35.1	30.4
27	NMH-51	60.3	18.1	16.2	29	163.2	33.8	20	36.3	-	13.7	57.5	-	28.6	-	-	-	24.8	13.2	62.5	112.2	50.4	8.4	40.7	-	2.6	79.7	45.4	91.5	32.6	28.4	23.7
28	IH-0953	25.8	4.2	-	0.4	47	5.5	-	22.7	-	-	47.9	-	-	-	-	-	12.8	30	2.7	36.7	6.6	-	11.6	8.3	4.6	52.6	-	62.2	25.1	11.6	1.2
29	BRM 12-2	16	22.6	-	-	529.4	32.5	-	12.1	-	-	16.9	2.1	-	-	1.1	-	21.1	14.4	36.2	132.3	33.7	21	37.4	-	-	56.9	57.3	53.4	17.5	21.5	17.6
30	MEH-2-15	-	-	-	-	63.1	-	-	27.4	-	-	3.3	-	-	-	27.1	-	-	-	3.1	52	20.1	-	-	-	-	62.2	-	19.6	-	-	-
31	Khushi	10.7	12.8	-	36.2	531.2	35.5	7.7	48.3	20.4	23.6	84.8	5	27.2	-	40.2	23.9	63	26.1	67.4	107	80.8	21.3	56.3	31.3	-	69.9	54.1	85.1	29.4	34.9	35.8
32	LMH 1515	31.5	12.3	1.5	-	141.7	15.9	-	8.8	-	-	26.3	-	-	-	46.6	-	22.4	-	52	49.8	58.3	31.7	34.7	-	-	122.4	32.9	69.5	-	12.3	11.1
33	MEH-1-15	18.3	-	-	-	101.7	-	-	32.3	-	-	-	-	25.4	-	42.3	-	8.5	-	17.2	46.6	32.3	15.6	16.1	-	-	44.3	-	34.7	-	-	1.1
34	DH-297	15.4	-	-	-	46.3	-	-	21.8	-	-	-	-	-	-	29.9	-	-	-	7.6	35.4	-	-	-	-	-	50.7	-	-	12.5	-	-
35	DH-298	-	-	-	-	29.8	-	-	-	-	-	-	-	-	-	2.3	-	-	-	-	9.1	-	6.7	-	-	-	49.6	-	-	-	-	-
36	APH27-B	17.8	-	3.3	-	263.5	15.6	-	3	-	-	-	-	16.8	-	5.8	-	-	-	-	75.7	-	4.2	5.5	-	-	144.9	-	3.3	-	-	-
	CHECKS																															
37	Vivek Hybrid-21	8.3	-	-	-	136.7	-	-	36.7	-	-	20.8	-	17.2	-	7.2	0.8	13.4	0.6	16.5	69.8	8.2	17.9	18.8	3.4	-	60	10.7	26.4	-	-	2.2
38	Vivek Hybrid-43	20.9	-	11.2	3.5	254.7	17	8.5	-	-	-	18.6	-	-	-	-	-	-	-	10.1	58.2	20.4	5.6	12.1	12.7	-	73.7	16.6	20.8	5.2	-	2.2
39	PMH-5	2.6	-	-	20	113.9	2	6.1	36.7	-	10.5	16.8	-	5.4	-	24.3	3.6	3.2	2.4	12.5	22.7	-	-	4.3	17.7	4.1	58.6	9.8	65	35.2	19.8	7.6
40	Parkash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : CHHI 33.2 %

Table No. 5 (Continued)

		GRAIN SHELLING %															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	79.9	78.5	82.1	77.5	74.2	78.4	85.3	83.5	84.0	84.2	79.5	82.4	80.4	72.0	77.0	78.2
2	KMH-5510	82.4	83.3	82.0	81.4	76.6	81.1	81.9	82.6	80.0	81.5	80.5	82.5	77.3	77.0	76.5	78.8
3	AH7006	82.6	82.6	81.8	82.7	73.6	80.7	87.4	77.2	79.6	81.4	82.0	83.8	77.3	72.0	75.6	78.1
4	LMH 1215	81.1	78.6	82.1	81.4	76.6	80.0	84.4	76.9	80.1	80.4	77.5	84.1	79.1	75.5	77.9	78.8
5	DMRH1305	82.1	79.8	83.0	83.0	73.6	80.3	88.3	78.3	88.2	84.9	83.0	83.6	77.5	78.5	77.0	79.9
6	FH 3728	83.8	79.6	82.7	84.0	76.6	81.3	85.8	79.2	81.8	82.2	81.5	83.4	77.9	78.0	77.9	79.7
7	LMH 1415	81.0	76.3	78.5	82.3	73.6	78.3	85.5	80.8	83.8	83.4	82.0	82.8	78.3	75.5	75.9	78.9
8	JH 31785	83.7	80.0	80.9	84.7	76.6	81.2	84.6	80.4	85.1	83.4	79.5	84.0	81.6	78.0	79.0	80.4
9	FH 3754	83.3	79.9	81.7	82.3	72.7	80.0	84.4	78.1	81.8	81.4	79.0	85.0	81.3	76.5	77.5	79.8
10	BL 104	82.8	81.3	81.5	83.2	68.7	79.5	85.5	77.6	85.0	82.7	79.0	81.5	79.7	80.5	74.6	79.1
11	KMH 13-15	76.2	82.2	81.5	83.5	73.9	79.4	83.9	83.6	83.2	83.6	80.5	82.7	80.0	73.5	74.0	78.1
12	BL 105	83.0	81.8	81.3	82.7	76.6	81.1	84.0	79.8	84.7	82.8	80.5	82.9	79.1	76.5	73.4	78.5
13	DH-292	79.0	77.6	81.0	78.6	73.6	78.0	84.6	78.9	84.0	82.5	82.0	80.5	78.2	75.0	79.8	79.1
14	H-100	77.1	80.0	81.0	77.0	76.6	78.4	84.6	82.1	81.2	82.6	82.5	83.1	77.4	77.0	76.0	79.2
15	H-101	81.4	67.9	81.0	85.6	73.6	77.9	86.5	78.6	80.7	81.9	80.0	84.0	78.0	79.0	76.0	79.4
16	IH-0712	83.0	82.4	82.0	84.4	76.6	81.7	83.6	81.3	77.2	80.7	82.0	82.9	78.6	79.0	78.3	80.2
17	EH-2416	83.9	80.2	80.4	83.2	77.0	80.9	87.0	84.4	83.6	85.0	81.0	84.0	81.0	78.0	78.3	80.4
18	CMH12-700	80.2	79.5	79.9	81.8	76.6	79.6	82.0	78.7	81.8	80.8	80.0	83.2	77.8	72.0	73.5	77.3
19	KMH 13-17	82.1	78.9	82.2	83.3	78.3	80.9	82.6	76.9	84.0	81.2	81.0	82.8	76.3	77.5	75.6	78.7
20	AH1402	80.6	78.5	77.7	81.1	77.0	79.0	83.0	81.5	79.6	81.4	82.0	-	76.9	75.5	76.8	77.8
21	LMH 1115	85.4	82.6	82.1	86.1	78.9	83.0	88.2	81.7	84.6	84.8	81.0	84.6	78.3	76.5	75.9	79.3
22	CMH12-703	79.5	79.2	77.8	80.0	76.6	78.6	83.4	77.5	85.1	82.0	82.0	83.5	79.0	74.5	77.2	79.2
23	LMH 1315	84.8	84.3	82.0	83.9	78.3	82.7	86.5	77.8	82.3	82.2	79.5	84.6	79.3	75.5	77.9	79.3
24	DH-291	81.2	82.2	82.0	81.5	76.7	80.7	85.6	78.5	84.3	82.8	80.0	83.5	78.0	77.5	78.5	79.5

Table No. 5 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	81.7	80.5	81.0	82.7	79.1	81.0	84.8	84.6	80.0	83.1	79.5	84.4	81.4	79.0	77.6	80.4
26	JKMH 4222	84.7	81.5	82.8	80.9	79.7	81.9	85.9	80.5	86.4	84.2	82.0	83.5	79.1	74.0	77.2	79.2
27	NMH-51	82.6	80.6	82.3	81.1	81.6	81.6	84.8	76.9	85.8	82.5	81.0	79.8	81.7	72.0	78.8	78.7
28	IH-0953	81.9	83.6	82.4	80.4	76.3	80.9	83.0	82.9	83.3	83.0	81.5	84.3	78.6	75.0	74.0	78.7
29	BRM 12-2	80.2	79.9	81.8	81.1	75.3	79.6	85.0	77.3	86.0	82.7	81.0	82.7	81.2	75.5	74.3	78.9
30	MEH-2-15	77.6	73.0	79.8	77.5	73.6	76.3	78.6	79.1	83.9	80.5	80.5	80.1	79.5	74.0	75.7	78.0
31	Khushi	80.7	78.9	77.9	78.3	76.7	78.5	84.0	82.4	88.4	84.9	80.0	83.0	79.0	76.0	74.1	78.4
32	LMH 1515	78.9	82.4	82.0	82.2	72.7	79.6	81.8	79.4	84.6	81.9	80.5	83.9	78.3	74.5	75.8	78.6
33	MEH-1-15	81.7	79.7	80.8	81.3	68.7	78.4	84.8	79.3	79.8	81.3	78.0	85.0	82.5	78.5	75.9	80.0
34	DH-297	85.5	81.2	82.5	84.3	76.3	81.9	87.8	78.2	84.1	83.4	81.5	85.7	78.8	76.5	75.8	79.6
35	DH-298	83.9	80.5	82.7	82.5	76.3	81.1	85.6	80.0	81.7	82.4	79.5	84.7	79.8	77.5	78.8	80.1
36	APH27-B	79.5	75.1	78.4	77.2	75.3	77.1	77.9	81.4	85.0	81.4	80.0	80.6	77.1	75.5	73.1	77.3
	CHECKS																
37	Vivek Hybrid-21	80.0	83.1	82.5	83.8	73.6	80.6	85.3	79.8	86.1	83.8	82.0	85.7	77.0	79.0	73.0	79.3
38	Vivek Hybrid-43	82.7	79.6	82.4	83.0	76.6	80.8	85.4	78.2	86.4	83.3	82.5	84.2	76.6	79.0	77.8	80.0
39	PMH-5	81.4	80.2	82.5	81.6	74.3	80.0	86.1	81.8	86.4	84.8	81.0	84.9	79.0	78.5	76.1	79.9
40	Parkash	85.6	85.1	83.1	84.0	76.0	82.8	87.7	78.6	83.9	83.4	81.0	85.2	79.0	76.5	77.0	79.7
	Loc. Mean	**81.7**	**80.0**	**81.3**	**81.9**	**75.6**	**80.1**	**84.7**	**79.9**	**83.4**	**82.7**	**80.7**	**83.4**	**78.9**	**76.3**	**76.4**	**79.1**
	C.D. (5%)	2.11	0.00	1.82	1.36	2.28	2.50	2.47	0.33	1.89	3.85	1.89	1.14	-	1.80	1.08	2.10
	C.V. (%)	1.59	0.00	1.38	1.02	1.85	2.50	1.80	0.25	1.40	2.86	1.44	0.83	-	1.45	0.87	2.13
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	-	0.00	0.00	0.22

Table No. 5 (Continued)

		GRAIN SHELLING %														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-5	73.1	81.0	84.9	83.6	79.2	79.0	80.1	81.8	73.9	83.8	79.8	78.3	77.2	79.1	79.7
2	KMH-5510	78.6	82.7	85.2	83.6	78.7	79.4	81.4	82.1	69.4	83.3	79.4	86.3	78.8	79.9	80.4
3	AH7006	74.5	81.7	87.1	82.1	76.9	81.6	80.6	82.4	73.9	79.6	77.8	77.6	79.7	78.5	79.7
4	LMH 1215	77.3	81.6	83.8	83.1	74.2	77.3	79.5	82.3	72.0	81.4	78.9	84.1	79.5	79.7	79.6
5	DMRH1305	76.4	82.1	87.5	83.3	74.7	82.6	81.1	83.3	75.0	81.7	79.6	87.1	78.7	80.9	81.1
6	FH 3728	78.1	81.3	84.6	84.4	76.0	77.0	80.2	82.5	76.2	84.8	79.5	84.1	76.9	80.7	80.7
7	LMH 1415	79.1	82.1	84.2	82.1	78.6	78.0	80.7	83.1	74.9	82.6	79.0	84.7	78.7	80.5	80.1
8	JH 31785	77.1	80.8	88.0	78.6	77.1	81.2	80.4	83.1	74.6	83.1	82.3	83.1	78.6	80.8	81.0
9	FH 3754	78.4	81.9	84.9	80.5	75.4	77.7	79.8	83.1	74.9	79.0	83.8	79.8	79.3	80.0	80.1
10	BL 104	80.8	81.0	86.3	82.2	75.6	80.7	81.1	82.5	72.8	76.4	80.2	87.4	81.4	80.1	80.3
11	KMH 13-15	74.9	82.1	84.5	83.4	76.8	81.6	80.5	83.0	74.9	79.0	80.0	79.2	76.9	78.8	79.8
12	BL 105	77.9	82.4	84.3	82.7	74.2	81.6	80.5	83.1	74.3	85.8	81.7	81.1	78.2	80.7	80.5
13	DH-292	78.1	82.6	84.7	84.6	78.6	82.0	81.8	82.4	76.2	83.6	80.4	84.0	77.1	80.6	80.3
14	H-100	75.0	82.0	86.0	83.8	74.9	76.3	79.6	83.0	75.6	83.2	78.0	84.4	76.1	80.1	79.7
15	H-101	77.2	81.8	84.6	82.1	75.4	80.7	80.3	83.0	67.4	80.5	80.4	85.7	80.9	79.7	79.7
16	IH-0712	74.6	82.0	83.2	82.9	71.6	78.2	78.7	82.5	72.7	83.4	79.5	83.5	77.0	79.8	80.1
17	EH-2416	81.2	82.8	86.9	80.9	76.3	79.9	81.3	83.0	71.1	83.6	79.3	82.4	81.4	80.1	81.2
18	CMH12-700	73.2	82.5	84.1	82.1	74.0	76.4	78.7	82.1	78.0	82.1	78.7	77.4	77.8	79.3	79.0
19	KMH 13-17	76.0	82.2	83.2	81.1	76.4	76.9	79.3	82.7	74.5	78.4	79.5	85.6	77.5	79.7	79.8
20	AH1402	74.9	82.5	85.3	-	71.7	78.8	78.6	82.9	70.6	77.7	78.0	87.3	79.4	79.3	79.1
21	LMH 1115	79.2	82.1	83.3	82.5	76.1	78.6	80.3	82.9	74.1	83.1	82.1	83.5	77.5	80.5	81.2
22	CMH12-703	80.9	81.4	83.3	82.4	77.0	79.1	80.7	83.1	74.6	82.6	79.3	83.1	78.0	80.1	80.0
23	LMH 1315	75.3	82.9	86.6	82.8	76.5	77.9	80.3	82.5	78.0	82.5	81.8	84.6	78.6	81.3	81.1
24	DH-291	76.9	82.3	85.5	79.8	76.1	77.9	79.7	82.8	73.4	86.1	77.9	84.5	77.0	80.3	80.4

Table No. 5 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING % HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	79.4	82.1	86.0	82.3	73.6	77.7	80.2	83.0	74.6	81.4	80.9	81.3	78.2	79.9	80.7
26	JKMH 4222	79.9	81.1	86.0	84.1	80.9	78.0	81.7	83.1	78.3	82.4	80.2	85.9	76.8	81.1	81.4
27	NMH-51	75.1	80.1	88.6	82.7	78.6	77.8	80.5	83.0	74.8	86.3	81.5	86.1	78.5	81.7	80.9
28	IH-0953	75.6	83.3	68.1	81.4	75.5	77.6	76.9	83.0	75.1	86.3	79.2	81.3	77.4	80.4	79.6
29	BRM 12-2	74.4	82.0	84.8	83.7	75.9	78.0	79.8	83.1	76.8	80.0	81.5	83.9	76.7	80.3	80.1
30	MEH-2-15	74.2	82.1	82.1	79.4	74.6	75.7	78.0	83.0	71.5	80.3	79.7	81.9	77.5	79.0	78.2
31	Khushi	76.1	81.8	85.4	82.6	79.1	75.4	80.1	83.1	75.6	83.0	76.1	83.3	76.2	79.5	79.9
32	LMH 1515	79.7	81.6	87.6	83.6	79.7	78.8	81.8	83.0	73.7	78.3	80.8	83.8	73.5	78.9	80.0
33	MEH-1-15	79.0	83.0	84.5	80.5	75.5	80.9	80.5	83.2	71.5	84.7	81.6	80.7	79.2	80.1	80.0
34	DH-297	81.5	81.4	87.4	83.6	74.3	83.0	81.8	82.5	61.3	83.0	80.3	85.6	80.2	78.8	80.9
35	DH-298	77.6	81.7	83.8	79.1	74.2	81.4	79.6	82.9	71.5	78.9	82.6	84.5	79.0	79.9	80.4
36	APH27-B	72.4	82.0	81.4	81.5	73.5	76.6	77.9	82.9	71.6	88.2	78.1	82.4	75.3	79.7	78.5
	CHECKS															
37	Vivek Hybrid-21	82.3	84.3	86.9	83.5	76.6	82.2	82.6	82.4	66.6	82.8	81.9	82.6	76.1	78.7	80.7
38	Vivek Hybrid-43	80.1	84.3	85.3	83.9	76.6	80.3	81.7	82.3	64.2	77.3	79.0	83.6	82.1	78.1	80.5
39	PMH-5	76.1	81.8	86.1	84.1	74.0	78.9	80.2	82.9	75.8	87.5	81.0	85.7	77.3	81.7	81.0
40	Parkash	80.6	81.9	86.8	80.2	75.6	81.4	81.1	82.6	77.1	82.0	81.6	82.8	78.9	80.8	81.4
	Loc. Mean	**77.3**	**82.0**	**84.8**	**81.6**	**76.0**	**79.1**	**80.2**	**82.8**	**73.3**	**82.2**	**80.1**	**83.3**	**78.1**	**80.0**	**80.2**
	C.D. (5%)	2.37	1.17	4.91	15.48	2.24	0.94	2.28	0.62	2.62	5.62	3.41	1.62	2.74	2.72	1.17
	C.V. (%)	1.89	0.87	3.56	11.57	1.82	0.73	2.49	0.46	2.20	4.21	2.62	1.19	2.16	2.99	2.62
	F (Prob)	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.84	0.00

Table No. 5 (Continued)

		MOISTURE % AT HARVEST															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	24.9	25.4	23.1	22.7	21.3	23.5	25.2	21.9	17.6	21.6	17.9	27.3	17.2	29.3	23.1	22.9
2	KMH-5510	25.5	25.1	23.5	25.0	26.7	25.1	22.8	24.6	17.6	21.6	15.5	26.6	16.9	24.0	22.4	21.1
3	AH7006	23.8	25.6	23.7	25.2	25.0	24.6	21.9	21.9	20.0	21.2	14.4	26.6	17.8	25.0	24.6	21.7
4	LMH 1215	20.2	24.7	23.3	25.2	25.0	23.7	22.4	20.4	15.2	19.3	15.2	27.5	17.2	26.3	22.9	21.8
5	DMRH1305	24.0	25.4	22.5	25.2	24.3	24.3	20.9	21.5	16.8	19.7	15.8	27.2	17.6	22.4	23.8	21.3
6	FH 3728	25.9	23.7	23.6	24.3	25.3	24.5	26.2	23.5	16.9	22.2	18.9	27.7	17.3	28.3	23.1	23.0
7	LMH 1415	24.5	25.2	23.5	23.4	22.0	23.7	22.2	19.4	21.1	20.9	19.9	27.9	16.9	28.4	23.0	23.2
8	JH 31785	24.2	23.9	23.3	20.6	28.0	24.0	22.2	22.9	20.0	21.7	11.3	28.0	17.3	25.8	19.2	20.3
9	FH 3754	23.7	24.7	23.6	25.2	25.3	24.5	20.5	23.7	15.4	19.9	17.6	28.5	16.4	24.3	22.0	21.8
10	BL 104	24.2	25.2	24.2	25.4	30.7	25.9	24.0	23.4	15.3	20.9	20.6	27.8	16.1	27.3	22.8	22.9
11	KMH 13-15	24.6	25.2	23.2	20.8	28.3	24.4	21.5	22.6	17.3	20.4	15.4	26.9	16.8	28.2	23.0	22.1
12	BL 105	23.4	22.7	23.7	21.5	24.3	23.1	19.8	23.1	16.8	19.9	15.7	27.6	16.7	23.1	24.1	21.4
13	DH-292	27.6	25.9	23.8	26.1	23.7	25.4	28.7	20.8	22.1	23.8	18.8	27.3	16.3	29.6	25.0	23.4
14	H-100	27.2	25.8	22.8	25.4	23.0	24.8	23.3	21.9	19.9	21.7	16.4	27.5	17.6	29.1	23.2	22.7
15	H-101	22.0	20.4	23.9	25.3	25.0	23.3	18.4	21.9	16.0	18.7	17.0	27.1	16.7	26.0	22.1	21.8
16	IH-0712	23.3	24.0	23.6	25.3	24.7	24.2	20.9	22.9	19.2	21.0	18.4	27.8	17.1	24.5	22.9	22.1
17	EH-2416	25.3	23.5	22.9	26.1	25.0	24.6	23.6	20.3	18.3	20.7	19.6	27.9	17.6	22.8	23.3	22.2
18	CMH12-700	29.2	25.6	23.2	25.2	22.7	25.2	26.0	22.8	19.3	22.7	19.9	26.5	16.7	29.0	24.9	23.4
19	KMH 13-17	26.0	25.3	24.3	21.2	22.0	23.7	21.2	23.9	17.6	20.9	19.2	26.8	17.1	26.3	22.2	22.3
20	AH1402	24.2	25.0	23.3	25.6	27.5	25.1	19.8	24.4	21.1	21.8	17.7	-	16.5	27.2	23.9	21.3
21	LMH 1115	27.1	24.4	23.2	24.0	24.0	24.5	21.9	24.1	16.5	20.8	20.4	27.0	16.3	25.1	23.9	22.5
22	CMH12-703	26.5	25.1	23.7	25.9	23.7	25.0	27.3	20.0	24.7	24.0	19.5	27.6	16.8	29.8	25.0	23.7
23	LMH 1315	23.2	25.7	22.9	27.0	23.7	24.5	21.7	19.5	19.1	20.1	16.5	26.9	16.7	26.5	24.1	22.1
24	DH-291	23.5	25.8	23.7	25.0	27.0	25.0	23.4	19.5	19.6	20.8	20.0	27.7	16.1	27.9	23.0	22.9

Table No. 5 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	24.2	25.0	23.8	25.6	24.3	24.6	22.1	25.0	17.9	21.7	19.8	28.2	16.4	24.6	22.9	22.4
26	JKMH 4222	25.3	23.7	23.8	24.2	28.7	25.1	25.2	23.5	15.6	21.4	20.2	28.1	17.1	27.2	23.8	23.3
27	NMH-51	25.0	24.9	22.5	26.1	25.0	24.7	21.3	20.5	16.1	19.3	17.0	28.0	16.9	27.1	22.8	22.3
28	IH-0953	23.2	25.2	23.3	24.8	22.7	23.8	21.2	22.5	16.7	20.1	19.5	27.4	17.3	26.8	22.1	22.6
29	BRM 12-2	23.7	25.4	23.3	25.6	23.7	24.3	25.8	22.4	17.1	21.8	15.7	27.5	17.6	28.5	23.3	22.5
30	MEH-2-15	21.5	23.2	23.9	24.8	24.0	23.5	19.4	24.9	16.6	20.3	16.2	27.1	16.3	20.0	23.0	20.5
31	Khushi	28.7	25.7	23.4	25.0	23.3	25.2	23.7	23.3	17.7	21.6	23.6	27.9	16.5	29.6	23.9	24.3
32	LMH 1515	26.5	23.7	23.1	24.2	24.3	24.4	20.7	20.6	17.8	19.7	21.3	27.4	16.2	29.5	22.9	23.4
33	MEH-1-15	21.9	22.3	23.9	25.1	23.0	23.2	20.7	23.4	15.7	19.9	13.2	27.3	16.1	26.7	23.9	21.4
34	DH-297	24.1	22.3	23.7	24.7	25.7	24.1	20.6	20.7	15.2	18.8	17.6	27.9	16.9	24.4	23.0	21.9
35	DH-298	24.2	22.3	23.9	22.2	25.7	23.6	21.1	24.7	15.5	20.4	19.0	27.0	16.8	23.7	21.0	21.5
36	APH27-B	24.5	22.3	23.4	25.3	24.0	23.9	19.1	24.1	16.1	19.7	18.8	27.9	16.4	26.2	24.1	22.6
	CHECKS																
37	Vivek Hybrid-21	22.0	24.4	23.5	23.6	25.7	23.8	22.7	22.9	15.8	20.4	18.8	26.8	17.5	24.9	21.9	22.0
38	Vivek Hybrid-43	22.7	25.2	23.3	20.7	24.0	23.2	20.0	24.8	17.8	20.8	14.3	28.2	16.9	26.1	23.3	21.8
39	PMH-5	20.6	23.9	22.8	24.7	25.5	23.5	21.6	24.7	18.3	21.5	18.0	27.0	16.4	24.3	22.9	21.7
40	Parkash	25.4	23.4	23.7	25.2	26.0	24.7	21.5	20.6	15.8	19.3	16.8	26.7	16.3	24.7	19.9	20.9
	Loc. Mean	**24.4**	**24.4**	**23.4**	**24.4**	**24.8**	**24.3**	**22.3**	**22.5**	**17.7**	**20.8**	**17.8**	**27.4**	**16.8**	**26.2**	**23.0**	**22.2**
	C.D. (5%)	1.87	1.15	0.61	1.10	3.18	1.95	1.67	0.33	1.34	3.35	4.46	0.93	-	1.61	1.59	1.98
	C.V. (%)	4.71	2.91	1.59	2.76	7.88	6.41	4.60	0.89	4.67	9.89	15.46	2.05	-	3.76	4.25	7.14
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	0.03

Table No. 5 (Continued)

		MOISTURE % AT HARVEST													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-5	26.4	20.8	17.6	14.5	15.1	27.9	20.4	22.4	15.5	11.2	15.8	23.0	17.6	21.1
2	KMH-5510	21.7	16.4	23.9	14.1	13.9	26.9	19.5	22.7	15.4	11.8	14.6	23.4	17.6	20.9
3	AH7006	22.5	16.3	18.9	12.8	13.5	23.9	18.0	22.6	15.4	11.1	15.8	23.9	17.7	20.5
4	LMH 1215	20.2	12.3	19.9	12.6	13.5	24.2	17.1	22.7	15.8	10.2	14.5	23.6	17.3	19.8
5	DMRH1305	22.1	14.1	16.8	12.4	13.7	16.9	16.0	22.2	15.7	11.2	15.3	23.4	17.5	19.6
6	FH 3728	24.1	18.6	21.5	14.5	13.8	24.1	19.4	23.1	15.8	10.5	13.6	23.1	17.2	21.1
7	LMH 1415	21.9	13.9	19.1	12.8	12.9	27.9	18.1	22.8	15.5	11.5	15.1	22.8	17.5	20.6
8	JH 31785	23.4	13.2	20.0	12.3	13.7	26.2	18.1	22.4	15.3	10.8	15.0	23.1	17.3	20.1
9	FH 3754	20.7	12.9	18.6	12.5	13.5	22.1	16.7	23.0	15.4	11.4	16.4	22.5	17.7	20.0
10	BL 104	20.3	14.5	15.2	13.9	13.7	25.0	17.1	22.4	15.4	10.7	14.6	22.9	17.2	20.6
11	KMH 13-15	21.2	17.6	19.7	12.6	14.9	26.1	18.7	22.7	15.6	11.0	15.8	23.7	17.7	20.6
12	BL 105	22.7	13.1	19.5	13.2	14.6	23.0	17.7	23.0	15.7	11.6	15.7	22.8	17.7	19.9
13	DH-292	26.4	20.8	20.2	14.1	13.5	27.0	20.3	22.8	15.5	11.7	16.1	23.3	17.9	21.9
14	H-100	20.6	18.1	15.4	13.6	14.8	26.9	18.2	22.4	15.6	10.9	16.0	23.5	17.7	20.9
15	H-101	19.0	12.7	17.0	11.7	14.4	26.0	16.8	23.1	15.2	10.7	16.1	22.9	17.6	19.6
16	IH-0712	20.5	14.6	18.4	12.9	13.6	23.1	17.1	22.9	15.2	11.7	17.3	23.4	18.1	20.3
17	EH-2416	21.4	13.9	17.2	12.6	13.2	19.3	16.2	22.7	15.6	10.8	15.2	24.0	17.7	20.1
18	CMH12-700	26.7	20.1	27.3	14.6	14.9	22.9	21.1	23.0	15.3	11.3	16.2	23.7	17.9	21.9
19	KMH 13-17	22.1	12.8	14.4	12.4	14.0	19.9	15.9	22.8	16.1	11.0	13.4	23.6	17.4	19.8
20	AH1402	23.3	13.1	21.5	-	13.2	24.3	19.1	22.6	15.9	11.1	15.8	23.3	17.7	20.9
21	LMH 1115	20.8	17.4	22.4	13.0	13.3	23.2	18.3	23.0	15.4	11.0	16.6	24.3	18.0	20.7
22	CMH12-703	22.6	19.5	18.5	13.8	13.4	25.4	18.8	22.8	15.3	11.1	14.4	24.3	17.6	21.5
23	LMH 1315	21.1	14.2	20.7	12.7	13.8	25.7	18.0	22.6	15.4	10.8	16.2	23.5	17.7	20.4
24	DH-291	21.1	19.2	19.7	13.4	14.2	25.2	18.8	22.4	15.3	10.8	13.9	22.9	17.1	20.8

Table No. 5 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	21.4	15.3	20.8	12.3	13.5	23.9	17.8	22.8	15.6	11.6	14.8	23.7	17.7	20.6
26	JKMH 4222	21.4	15.0	19.9	12.6	13.3	24.0	17.7	23.0	15.7	10.7	14.4	23.8	17.5	20.8
27	NMH-51	22.9	18.8	20.8	13.9	15.2	25.2	19.4	22.5	15.4	10.7	15.2	24.2	17.6	20.7
28	IH-0953	20.5	13.3	18.6	12.6	12.5	20.1	16.3	22.6	15.6	11.7	14.2	23.6	17.5	19.9
29	BRM 12-2	23.6	16.7	19.4	13.6	14.2	27.2	19.1	22.8	15.3	10.6	15.4	24.2	17.6	20.9
30	MEH-2-15	19.8	13.2	17.3	11.9	13.8	18.8	15.8	22.8	15.2	10.4	14.2	23.3	17.2	19.2
31	Khushi	19.9	19.1	20.1	16.0	15.3	24.7	19.2	22.7	15.6	12.1	14.1	23.6	17.6	21.5
32	LMH 1515	23.6	21.7	20.2	13.8	14.0	24.6	19.6	23.1	15.3	11.6	15.4	23.2	17.7	21.0
33	MEH-1-15	20.1	13.3	17.0	12.4	12.9	22.0	16.3	22.7	15.2	11.1	13.6	23.2	17.2	19.4
34	DH-297	21.5	15.1	19.2	12.3	14.5	24.0	17.8	22.5	15.2	11.6	15.3	23.9	17.7	20.1
35	DH-298	19.2	12.3	19.5	12.6	13.3	27.7	17.4	22.4	15.4	11.8	17.4	23.2	18.0	20.1
36	APH27-B	20.8	12.8	17.1	13.1	14.0	25.7	17.2	23.2	15.7	11.8	16.8	23.4	18.2	20.2
	CHECKS														
37	Vivek Hybrid-21	21.0	13.3	17.6	13.3	13.1	20.2	16.4	22.5	15.4	10.2	16.6	23.7	17.6	19.9
38	Vivek Hybrid-43	22.5	15.4	20.6	12.4	13.9	26.9	18.6	22.7	15.6	10.5	15.1	23.7	17.5	20.3
39	PMH-5	20.7	13.8	13.2	12.8	13.8	25.2	16.6	22.8	15.5	11.8	14.8	23.3	17.6	19.9
40	Parkash	18.8	13.7	18.9	12.4	13.0	24.8	16.9	22.7	15.7	11.0	14.2	23.0	17.3	19.8
	Loc. Mean	**21.7**	**15.5**	**19.1**	**13.0**	**13.8**	**24.2**	**17.9**	**22.7**	**15.5**	**11.1**	**15.3**	**23.4**	**17.6**	**20.4**
	C.D. (5%)	1.84	1.49	3.81	2.53	0.98	0.76	2.02	0.60	0.20	1.25	0.63	0.81	0.69	0.90
	C.V. (%)	5.22	5.89	12.31	11.91	4.35	1.93	9.91	1.61	0.79	6.92	2.56	2.13	3.14	7.73
	F (Prob)	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.20	0.00	0.22	0.00	0.00	0.41	0.00

Table No. 5 (Continued)

		STAND AT HARVEST ('000/ha)															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	55.6	52.8	74.3	72.9	82.2	67.6	74.3	60.0	56.7	63.7	46.7	57.7	59.0	79.9	73.6	63.4
2	KMH-5510	58.3	57.4	73.6	71.8	82.2	68.7	84.7	60.6	56.1	67.1	41.1	57.1	61.8	81.9	68.8	62.2
3	AH7006	50.0	64.8	74.3	75.2	84.4	69.8	68.8	62.2	56.7	62.5	41.1	53.6	64.6	79.2	74.3	62.5
4	LMH 1215	54.6	57.4	71.5	75.2	78.9	67.5	80.6	60.0	56.1	65.6	50.0	57.7	63.2	75.7	70.8	63.5
5	DMRH1305	60.2	59.3	73.6	76.4	76.7	69.2	77.1	61.7	56.7	65.1	48.9	67.3	62.5	75.0	67.4	64.2
6	FH 3728	56.5	62.0	77.8	71.8	84.4	70.5	81.9	57.8	56.7	65.5	54.4	66.1	64.6	79.2	60.4	64.9
7	LMH 1415	53.7	55.6	70.8	74.1	83.3	67.5	78.5	58.9	56.1	64.5	50.6	70.8	60.4	81.9	66.7	66.1
8	JH 31785	46.3	61.1	75.7	72.9	80.0	67.2	83.3	59.4	56.7	66.5	46.7	75.0	57.6	79.2	64.6	64.6
9	FH 3754	52.8	61.1	75.7	72.9	78.9	68.3	84.0	60.0	55.6	66.5	60.0	75.0	60.4	80.6	58.3	66.9
10	BL 104	46.3	51.9	70.1	75.2	83.3	65.4	80.6	59.4	56.1	65.4	45.0	72.0	62.5	76.4	59.7	63.1
11	KMH 13-15	50.9	51.9	68.1	75.2	80.0	65.2	71.5	58.9	53.9	61.4	43.3	64.3	62.5	68.8	62.5	60.3
12	BL 105	49.1	51.9	75.7	76.4	78.9	66.4	81.3	59.4	56.7	65.8	48.9	70.8	62.5	70.8	76.4	65.9
13	DH-292	56.5	61.1	73.6	78.7	76.7	69.3	84.0	64.4	55.0	67.8	48.9	63.7	61.8	70.8	68.8	62.8
14	H-100	57.4	64.8	76.4	70.6	78.9	69.6	83.3	58.3	56.7	66.1	57.8	64.9	61.1	71.5	68.1	64.7
15	H-101	52.8	28.7	70.1	77.5	73.3	60.5	75.0	61.1	51.1	62.4	50.0	54.2	64.6	77.1	61.1	61.4
16	IH-0712	54.6	62.0	72.2	75.2	81.1	69.0	81.9	61.1	56.7	66.6	44.4	70.2	59.0	79.9	60.4	62.8
17	EH-2416	50.0	56.5	75.0	71.8	81.1	66.9	75.7	59.4	55.6	63.6	52.8	71.4	61.8	76.4	72.2	66.9
18	CMH12-700	49.1	59.3	72.9	74.1	84.4	68.0	84.7	58.9	56.7	66.8	42.8	55.4	62.5	78.5	61.1	60.0
19	KMH 13-17	58.3	56.5	70.1	69.4	80.0	66.9	81.3	59.4	56.1	65.6	51.1	58.3	63.2	80.6	63.2	63.3
20	AH1402	54.6	26.9	73.6	74.1	51.1	56.1	52.8	61.1	48.3	54.1	43.9	18.5	59.0	64.6	66.7	50.5
21	LMH 1115	50.0	63.9	75.7	77.5	76.7	68.8	79.2	60.6	53.9	64.5	47.2	66.7	62.5	74.3	69.4	64.0
22	CMH12-703	53.7	61.1	75.0	69.4	87.8	69.4	77.1	60.0	56.7	64.6	53.9	58.3	59.7	78.5	60.4	62.2
23	LMH 1315	50.0	64.8	73.6	72.9	80.0	68.3	82.6	62.8	55.6	67.0	48.9	56.0	59.7	70.8	73.6	61.8
24	DH-291	57.4	68.5	76.4	74.1	75.6	70.4	83.3	60.6	55.0	66.3	54.4	69.0	62.5	82.6	68.1	67.3

Table No. 5 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	48.1	65.7	77.1	68.3	88.9	69.6	76.4	60.6	56.1	64.4	54.4	56.5	62.5	72.2	62.5	61.6
26	JKMH 4222	49.1	64.8	77.8	77.5	85.6	71.0	78.5	57.8	56.7	64.3	51.7	71.4	61.1	75.7	56.9	63.4
27	NMH-51	53.7	55.6	75.0	70.6	81.1	67.2	75.7	62.8	56.7	65.0	44.4	51.2	60.4	79.9	67.4	60.7
28	IH-0953	55.6	50.9	73.6	68.3	80.0	65.7	77.8	60.0	56.7	64.8	56.7	61.3	55.6	75.7	60.4	61.9
29	BRM 12-2	56.5	63.9	75.7	77.5	84.4	71.6	86.1	58.3	56.1	66.9	51.7	68.5	59.7	78.5	68.1	65.3
30	MEH-2-15	50.0	57.4	71.5	75.2	74.4	65.7	77.1	58.3	56.7	64.0	48.3	64.3	61.8	77.1	71.5	64.6
31	Khushi	54.6	61.1	74.3	72.9	82.2	69.0	75.7	57.8	56.7	63.4	56.7	72.0	62.5	80.6	63.2	67.0
32	LMH 1515	56.5	59.3	73.6	71.8	86.7	69.6	71.5	57.8	56.1	61.8	44.4	72.0	60.4	70.8	63.2	62.2
33	MEH-1-15	51.9	61.1	71.5	74.1	80.0	67.7	75.0	63.3	55.0	64.4	48.9	73.2	61.8	81.3	70.1	67.1
34	DH-297	59.3	53.7	71.5	77.5	73.3	67.1	81.3	57.8	55.6	64.9	46.7	56.0	61.8	75.0	60.4	60.0
35	DH-298	49.1	53.7	68.8	77.5	70.0	63.8	72.2	61.1	56.7	63.3	47.8	57.1	61.1	74.3	56.3	59.3
36	APH27-B	49.1	56.5	76.4	74.1	76.7	66.5	72.9	57.8	56.7	62.5	54.4	69.6	63.2	77.1	60.4	65.0
	CHECKS																
37	Vivek Hybrid-21	53.7	59.3	72.9	70.6	82.2	67.7	77.8	58.3	56.7	64.3	51.7	56.0	56.9	80.6	57.6	60.6
38	Vivek Hybrid-43	54.6	59.3	72.9	71.8	83.3	68.4	80.6	59.4	56.7	65.6	52.8	57.7	61.8	72.2	61.1	61.1
39	PMH-5	57.4	58.3	73.6	71.8	70.0	66.2	84.0	57.8	56.1	66.0	45.0	72.6	64.6	78.5	63.2	64.8
40	Parkash	50.0	54.6	74.3	77.5	78.9	67.1	77.8	58.9	56.7	64.4	44.4	60.1	60.4	77.8	61.8	60.9
	Loc. Mean	**53.2**	**57.4**	**73.7**	**73.8**	**79.4**	**67.5**	**78.2**	**59.8**	**55.8**	**64.6**	**49.3**	**62.8**	**61.4**	**76.5**	**65.0**	**63.0**
	C.D. (5%)	9.96	6.64	5.84	5.93	15.28	6.10	8.74	3.63	3.39	5.74	12.12	6.63	5.49	6.03	6.10	7.06
	C.V. (%)	11.52	7.11	4.88	4.94	11.84	7.23	6.88	3.73	3.74	5.47	15.12	6.49	5.51	4.84	5.78	8.97
	F (Prob)	0.37	0.00	0.16	0.02	0.12	0.02	0.00	0.02	0.01	0.19	0.24	0.00	0.38	0.00	0.00	0.08

Table No. 5 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														
		HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
1	BRM 12-5	63.9	56.7	85.4	63.7	56.9	65.3	65.3	61.8	59.7	60.6	95.1	79.2	72.6	71.5	66.7
2	KMH-5510	59.4	61.7	78.5	60.7	55.6	66.0	63.6	61.8	59.7	59.4	96.5	61.8	63.0	67.0	65.6
3	AH7006	53.3	53.3	82.6	64.9	56.9	65.3	62.7	63.2	56.3	59.4	63.2	68.8	77.8	64.8	64.6
4	LMH 1215	53.3	48.3	86.1	58.9	51.4	66.0	60.7	62.5	60.4	52.2	81.3	38.2	67.4	60.3	63.1
5	DMRH1305	43.9	59.4	66.7	57.7	59.7	66.0	58.9	61.8	59.0	64.4	77.8	57.6	64.4	64.2	64.0
6	FH 3728	51.1	61.7	79.2	56.0	52.8	66.0	61.1	63.2	59.7	60.6	88.2	77.8	65.9	69.2	66.2
7	LMH 1415	56.7	57.8	77.1	57.7	56.9	66.0	62.0	61.8	58.3	54.4	101.4	51.4	60.7	64.7	64.9
8	JH 31785	55.6	61.1	79.9	60.1	53.5	66.7	62.8	61.8	59.7	62.2	94.4	74.3	74.8	71.2	66.5
9	FH 3754	57.8	63.3	79.9	60.1	50.0	65.3	62.7	61.8	61.1	65.6	91.7	56.3	68.9	67.5	66.3
10	BL 104	62.2	63.9	79.9	66.1	53.5	66.7	65.4	61.8	60.4	52.2	88.9	65.3	65.2	65.6	65.0
11	KMH 13-15	42.8	40.6	72.2	57.1	47.9	66.7	54.5	61.8	61.8	37.8	64.6	25.7	51.1	50.5	57.7
12	BL 105	56.7	62.2	81.9	57.1	56.9	66.7	63.6	61.8	59.7	66.7	91.7	66.7	60.7	67.9	65.9
13	DH-292	50.6	53.3	72.9	58.9	52.1	66.0	59.0	63.2	61.8	62.8	87.5	59.7	70.4	67.6	64.9
14	H-100	63.9	51.7	81.3	58.3	56.3	66.0	62.9	61.8	56.9	63.3	88.9	63.9	63.0	66.3	65.8
15	H-101	40.0	40.0	73.6	58.3	45.8	66.0	54.0	61.8	48.6	51.7	65.3	54.9	44.4	54.4	57.9
16	IH-0712	47.8	60.6	86.1	58.9	43.8	66.0	60.5	61.8	57.6	62.8	77.8	67.4	74.8	67.0	65.0
17	EH-2416	58.9	62.2	81.3	65.5	54.2	66.7	64.8	61.8	55.6	65.0	95.8	49.3	68.1	65.9	65.8
18	CMH12-700	55.0	62.2	84.7	62.5	55.6	66.7	64.4	62.5	59.7	61.1	91.0	62.5	75.6	68.7	65.6
19	KMH 13-17	53.9	51.7	79.9	59.5	43.8	66.0	59.1	61.8	59.7	62.2	66.0	66.7	80.7	66.2	64.0
20	AH1402	15.0	17.2	43.1	-	27.8	66.0	33.8	61.8	59.7	11.7	71.5	14.6	44.4	44.0	47.0
21	LMH 1115	48.9	63.3	77.1	56.5	36.1	66.7	58.1	63.2	60.4	65.6	71.5	66.7	78.5	67.6	64.5
22	CMH12-703	55.0	58.3	85.4	59.5	53.5	66.7	63.1	63.2	61.1	63.3	84.7	73.6	75.6	70.3	66.1
23	LMH 1315	53.9	50.6	82.6	57.7	50.0	65.3	60.0	61.8	57.6	58.9	93.1	54.9	71.1	66.2	64.4
24	DH-291	58.3	61.1	84.0	63.7	52.1	65.3	64.1	61.8	60.4	65.0	101.4	70.8	74.1	72.3	68.2

Table No. 5 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	62.8	60.0	83.3	60.7	50.7	66.0	63.9	61.8	59.0	62.2	96.5	73.6	63.0	69.4	66.0
26	JKMH 4222	65.6	52.2	81.9	57.1	57.6	64.6	63.2	63.2	59.7	60.6	74.3	66.0	74.8	66.4	65.7
27	NMH-51	50.6	52.8	75.0	62.5	54.2	66.7	60.3	63.2	60.4	52.8	89.6	61.8	57.0	64.1	63.2
28	IH-0953	57.2	58.3	79.2	63.1	55.6	66.7	63.3	63.2	63.2	61.7	73.6	63.9	67.4	65.5	64.2
29	BRM 12-2	56.1	52.8	77.1	58.3	56.3	66.7	61.2	61.8	57.6	66.7	97.2	64.6	74.1	70.3	67.0
30	MEH-2-15	53.9	58.3	78.5	64.3	57.6	66.0	63.1	61.8	61.8	65.0	70.1	63.2	66.7	64.8	64.4
31	Khushi	56.7	62.8	79.2	55.4	57.6	66.0	62.9	63.2	58.3	61.1	96.5	62.5	66.7	68.1	66.2
32	LMH 1515	43.3	50.0	74.3	48.8	59.0	66.7	57.0	61.8	61.1	55.0	86.8	45.8	58.5	61.5	62.2
33	MEH-1-15	61.1	60.6	80.6	65.5	53.5	65.3	64.4	63.2	57.6	65.0	72.2	72.9	68.1	66.5	66.1
34	DH-297	51.1	55.0	74.3	60.1	43.8	66.7	58.5	61.8	59.0	62.8	74.3	50.7	74.8	63.9	62.6
35	DH-298	41.7	48.9	75.0	57.1	52.8	66.0	56.9	61.8	62.5	60.0	62.5	48.6	65.9	60.2	60.3
36	APH27-B	56.7	52.2	77.1	56.5	46.5	65.3	59.1	61.8	62.5	63.3	67.4	47.2	52.6	59.1	62.2
	CHECKS															
37	Vivek Hybrid-21	53.3	64.4	84.0	58.9	52.1	66.7	63.2	63.2	56.3	60.6	72.9	61.1	77.0	65.2	64.2
38	Vivek Hybrid-43	60.0	51.1	76.4	56.0	55.6	65.3	60.7	61.8	59.7	63.3	80.6	61.8	65.9	65.5	64.1
39	PMH-5	52.8	57.8	84.0	61.3	52.1	65.3	62.2	61.8	62.5	59.4	71.5	70.8	60.7	64.5	64.5
40	Parkash	48.9	56.7	83.3	49.4	48.6	66.0	58.8	63.2	62.5	57.8	72.9	73.6	60.0	65.0	63.0
	Loc. Mean	**53.2**	**55.4**	**78.6**	**58.9**	**51.9**	**66.0**	**60.7**	**62.3**	**59.5**	**59.2**	**82.2**	**60.4**	**66.7**	**65.0**	**64.0**
	C.D. (5%)	7.91	5.00	10.36	13.21	7.14	1.55	5.43	1.73	6.24	6.81	9.38	4.92	13.68	8.97	3.18
	C.V. (%)	9.14	5.56	8.11	13.68	8.47	1.44	7.86	1.71	6.46	7.08	7.02	5.01	12.62	12.11	8.95
	F (Prob)	0.00	0.00	0.00	0.91	0.00	0.36	0.00	0.37	0.14	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 50% POLLEN SHED															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	61.7	63.3	52.7	59.3	55.3	58.5	51.3	53.7	55.3	53.4	53.3	53.3	48.0	51.0	53.7	51.9
2	KMH-5510	54.0	54.0	47.7	48.7	56.0	52.1	45.7	54.0	48.7	49.4	48.3	45.3	46.3	45.0	45.3	46.1
3	AH7006	55.0	55.0	46.3	48.7	53.3	51.7	49.0	56.7	50.3	52.0	50.3	47.3	47.0	44.0	53.3	48.4
4	LMH 1215	55.0	50.7	48.0	50.7	54.0	51.7	46.7	55.0	50.3	50.7	50.3	46.7	47.0	47.0	52.3	48.7
5	DMRH1305	52.7	49.7	45.7	52.0	53.0	50.6	46.3	53.3	48.0	49.2	48.3	44.7	44.3	44.7	48.3	46.1
6	FH 3728	59.0	59.7	50.0	54.3	52.3	55.1	49.0	52.0	52.3	51.1	51.0	49.3	47.0	49.0	54.7	50.2
7	LMH 1415	55.3	57.0	50.3	51.0	51.3	53.0	51.3	56.0	52.3	53.2	52.0	48.0	48.0	50.7	50.3	49.8
8	JH 31785	56.3	54.3	47.7	51.0	49.0	51.7	47.3	54.0	51.0	50.8	48.3	45.7	47.0	45.0	49.7	47.1
9	FH 3754	53.0	53.3	44.7	49.7	51.3	50.4	44.7	52.3	48.7	48.6	47.7	43.7	42.3	45.3	48.3	45.5
10	BL 104	56.0	55.3	49.7	50.7	55.3	53.4	47.3	52.7	50.0	50.0	50.3	47.3	46.0	46.7	50.3	48.1
11	KMH 13-15	56.0	55.3	47.7	46.3	53.7	51.8	47.3	55.7	51.7	51.6	50.3	46.7	48.7	45.7	52.3	48.7
12	BL 105	55.7	56.0	46.3	51.7	53.3	52.6	47.3	54.0	49.7	50.3	50.0	48.0	46.7	47.0	50.3	48.4
13	DH-292	63.7	65.7	52.3	58.3	56.7	59.3	57.3	61.7	55.0	58.0	51.7	48.3	48.0	52.7	57.3	51.6
14	H-100	59.3	61.7	51.3	57.7	55.3	57.1	51.3	52.7	54.0	52.7	50.7	49.0	49.0	52.0	49.0	49.9
15	H-101	55.7	61.7	50.7	53.7	54.0	55.1	51.7	55.7	57.3	54.9	52.7	48.0	48.0	47.7	54.7	50.2
16	IH-0712	51.7	51.0	45.0	47.3	50.0	49.0	45.3	49.0	49.0	47.8	48.0	42.7	46.0	41.3	47.3	45.1
17	EH-2416	56.3	58.7	51.0	54.3	52.7	54.6	49.7	57.0	53.0	53.2	48.3	48.0	46.7	48.0	51.7	48.5
18	CMH12-700	59.7	59.3	51.7	56.3	57.3	56.9	51.3	55.3	52.7	53.1	52.3	50.3	48.0	49.3	53.3	50.7
19	KMH 13-17	57.3	59.0	47.7	46.3	51.0	52.3	48.3	56.0	51.7	52.0	51.0	46.0	43.0	47.0	50.3	47.5
20	AH1402	51.0	57.3	49.3	50.7	49.7	51.6	47.0	56.0	53.3	52.1	51.0	45.3	44.3	47.7	46.3	46.9
21	LMH 1115	55.3	49.7	45.0	47.3	50.0	49.5	46.0	46.7	49.3	47.3	48.3	46.7	47.0	43.7	45.3	46.2
22	CMH12-703	60.3	62.0	50.7	55.7	50.7	55.9	50.3	56.3	53.0	53.2	51.0	49.3	48.0	51.0	52.3	50.3
23	LMH 1315	55.3	54.7	46.7	52.3	54.7	52.7	50.0	57.3	51.0	52.8	51.7	48.7	48.7	48.0	53.7	50.1
24	DH-291	57.0	61.3	50.7	54.3	56.0	55.9	50.0	57.3	51.7	53.0	51.7	50.3	48.7	47.0	52.3	50.0

Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	56.3	57.0	48.3	51.3	52.7	53.1	46.7	52.3	50.0	49.7	50.3	46.7	45.7	46.0	47.3	47.2
26	JKMH 4222	56.0	55.7	45.3	52.7	52.3	52.4	48.3	56.0	51.0	51.8	49.7	48.0	48.0	46.7	51.3	48.7
27	NMH-51	55.3	52.7	49.7	50.7	52.7	52.2	46.7	57.0	48.7	50.8	50.7	48.7	46.0	47.7	52.3	49.1
28	IH-0953	54.0	49.0	45.0	47.3	50.7	49.2	47.0	51.0	48.0	48.7	48.7	44.3	44.0	43.0	48.3	45.7
29	BRM 12-2	61.0	62.7	51.7	55.7	49.7	56.1	51.7	56.0	53.0	53.6	52.7	51.7	48.0	49.7	51.3	50.7
30	MEH-2-15	53.3	51.3	44.7	47.7	51.7	49.7	46.7	54.0	48.0	49.6	47.3	43.7	42.0	42.3	50.3	45.1
31	Khushi	59.7	61.0	50.3	55.7	50.0	55.3	50.3	52.3	54.3	52.3	52.0	49.3	49.0	50.0	51.3	50.3
32	LMH 1515	57.3	56.7	49.0	51.3	52.7	53.4	50.3	50.3	51.7	50.8	51.7	46.7	49.0	47.0	52.3	49.3
33	MEH-1-15	53.3	54.3	49.0	49.3	52.0	51.6	48.0	54.0	48.7	50.2	46.7	45.3	44.0	43.7	46.7	45.3
34	DH-297	50.7	48.3	43.3	46.3	53.3	48.4	44.0	52.0	47.3	47.8	46.3	44.3	46.0	42.3	47.3	45.3
35	DH-298	49.7	47.7	44.0	47.3	53.7	48.5	43.3	51.3	45.7	46.8	44.0	42.3	41.0	41.0	42.3	42.1
36	APH27-B	55.0	57.0	48.3	51.3	53.3	53.0	48.3	53.0	49.7	50.3	53.0	47.0	47.0	46.3	53.3	49.3
	CHECKS																
37	Vivek Hybrid-21	50.3	51.0	44.3	46.3	52.0	48.8	43.3	50.0	46.3	46.6	46.3	44.0	41.0	42.7	43.7	43.5
38	Vivek Hybrid-43	52.3	54.0	45.3	51.3	54.3	51.5	45.7	55.7	48.3	49.9	47.7	43.7	45.7	44.0	48.3	45.9
39	PMH-5	54.3	50.0	45.3	49.0	51.7	50.1	46.0	53.0	48.3	49.1	47.3	45.0	48.3	43.0	44.7	45.7
40	Parkash	51.3	50.7	45.3	48.3	51.3	49.4	45.0	53.0	47.7	48.6	47.7	43.7	45.0	43.7	48.3	45.7
	Loc. Mean	**55.6**	**55.6**	**47.9**	**51.3**	**52.8**	**52.6**	**48.1**	**54.0**	**50.7**	**50.9**	**49.8**	**46.8**	**46.3**	**46.4**	**50.1**	**47.9**
	C.D. (5%)	1.43	3.27	0.98	1.51	1.51	2.59	2.10	0.99	1.98	2.67	2.25	1.60	1.66	1.35	2.34	1.86
	C.V. (%)	1.58	3.61	1.26	1.82	1.76	3.94	2.69	1.13	2.40	3.23	2.78	2.10	2.21	1.79	2.87	3.11
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 50% POLLEN SHED														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BRM 12-5	42.0	54.3	55.0	52.3	47.0	46.3	49.5	55.7	42.7	63.0	57.0	55.0	56.0	54.9	53.5
2	KMH-5510	48.0	48.3	49.7	45.7	42.0	44.3	46.3	48.7	40.7	56.7	48.3	50.3	48.7	48.9	48.4
3	AH7006	50.3	49.7	52.3	47.3	46.7	44.0	48.4	50.0	43.0	55.7	51.3	52.0	49.7	50.3	49.9
4	LMH 1215	50.0	49.3	52.0	46.0	45.7	45.7	48.1	52.3	44.0	56.7	50.0	51.0	49.3	50.6	49.8
5	DMRH1305	48.3	48.3	50.7	44.7	43.0	43.0	46.3	49.7	40.0	56.0	49.3	51.0	48.0	49.0	48.1
6	FH 3728	50.3	52.0	54.0	48.7	46.7	43.0	49.1	55.3	39.7	58.3	52.3	54.3	51.0	51.8	51.4
7	LMH 1415	49.7	51.3	53.7	47.7	48.3	48.3	49.8	55.0	44.7	58.7	52.3	54.0	52.3	52.8	51.6
8	JH 31785	52.0	50.3	52.0	46.3	46.0	44.0	48.4	53.3	40.0	58.7	50.0	52.0	50.0	50.7	49.6
9	FH 3754	45.3	44.7	49.7	43.7	43.0	44.0	45.1	51.3	40.0	55.3	46.3	51.0	48.0	48.7	47.5
10	BL 104	48.0	50.3	53.7	47.0	45.3	44.0	48.1	51.3	39.3	59.0	51.7	51.0	50.7	50.5	50.0
11	KMH 13-15	47.7	49.0	52.7	46.3	44.0	47.0	47.8	55.0	42.3	55.7	50.3	53.0	50.0	51.1	50.0
12	BL 105	49.3	50.7	52.0	47.0	47.0	43.0	48.2	49.3	39.7	56.3	51.3	51.0	48.7	49.4	49.7
13	DH-292	57.0	57.0	55.0	53.7	45.0	44.0	51.9	56.3	37.3	59.7	60.0	59.0	57.3	54.9	54.8
14	H-100	51.0	52.0	54.0	49.0	46.3	45.0	49.6	56.3	40.7	57.3	54.3	53.3	52.7	52.4	52.2
15	H-101	51.7	53.0	52.0	45.7	43.7	43.0	48.2	57.0	43.0	58.0	51.7	54.0	52.3	52.7	51.9
16	IH-0712	47.3	47.7	49.0	42.3	40.0	42.0	44.7	51.0	39.3	53.3	47.3	51.0	47.0	48.2	46.8
17	EH-2416	47.7	50.3	53.7	47.0	44.3	42.3	47.6	46.0	42.3	57.0	52.3	52.7	50.3	50.1	50.5
18	CMH12-700	54.0	53.3	53.7	50.0	46.0	46.0	50.5	55.3	43.3	60.7	57.3	53.3	53.0	53.8	52.9
19	KMH 13-17	49.0	48.7	51.7	44.7	43.3	43.0	46.7	53.7	42.7	57.3	50.7	51.7	48.7	50.8	49.6
20	AH1402	47.0	51.0	53.0	-	43.7	48.0	48.5	51.3	43.0	56.0	50.0	53.0	48.0	50.2	49.7
21	LMH 1115	48.0	49.0	49.7	46.0	43.0	43.7	46.6	50.0	41.7	55.0	48.7	51.0	47.0	48.9	47.7
22	CMH12-703	51.7	52.0	54.7	48.3	48.3	46.0	50.2	54.3	39.7	60.7	54.0	52.3	53.0	52.3	52.2
23	LMH 1315	50.7	49.3	52.3	46.0	46.3	47.7	48.7	54.0	40.7	56.7	50.7	52.0	50.3	50.7	50.8
24	DH-291	49.3	51.7	53.3	47.7	47.0	44.0	48.8	50.3	42.3	57.0	52.0	52.7	51.3	50.9	51.5

Table No. 5 (Continued)

		DAYS TO 50% POLLEN SHED														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	47.3	48.7	52.0	46.3	44.3	44.3	47.2	50.0	39.0	55.7	49.3	51.0	48.3	48.9	49.1
26	JKMH 4222	48.3	50.7	51.7	45.3	44.7	46.7	47.9	50.3	44.0	56.3	51.3	51.0	50.0	50.5	50.1
27	NMH-51	50.0	51.0	53.3	46.3	43.7	47.0	48.6	53.0	43.0	58.3	51.3	52.0	50.0	51.3	50.3
28	IH-0953	47.7	48.3	52.7	45.0	41.3	45.0	46.7	51.0	42.0	55.7	49.0	51.0	48.0	49.4	47.9
29	BRM 12-2	50.7	51.3	53.3	49.7	48.3	44.0	49.6	55.0	38.7	60.3	55.0	53.3	53.7	52.7	52.3
30	MEH-2-15	47.3	46.3	49.7	44.0	41.7	45.0	45.7	51.0	39.7	53.7	49.3	51.0	47.3	48.7	47.6
31	Khushi	51.0	51.7	54.0	48.3	46.3	47.0	49.7	55.0	44.0	60.3	55.0	52.3	52.7	53.2	52.1
32	LMH 1515	48.7	50.3	53.0	46.3	44.0	48.0	48.4	55.7	42.3	58.3	51.0	51.7	52.0	51.8	50.7
33	MEH-1-15	46.7	47.3	52.0	44.0	41.7	44.0	45.9	49.3	43.3	55.7	49.3	51.0	47.3	49.3	48.3
34	DH-297	46.7	47.0	48.3	44.0	41.0	42.0	44.8	50.0	41.3	52.3	47.7	51.0	46.0	48.1	46.8
35	DH-298	42.7	45.0	48.0	42.3	40.7	42.7	43.6	46.3	40.0	52.0	46.3	51.0	45.0	46.8	45.4
36	APH27-B	51.0	50.0	52.3	47.0	46.0	46.0	48.7	51.7	41.7	56.7	50.7	52.0	50.7	50.6	50.3
	CHECKS															
37	Vivek Hybrid-21	44.7	44.3	49.0	43.3	41.3	42.3	44.2	46.3	40.3	53.3	46.3	51.0	47.0	47.4	46.0
38	Vivek Hybrid-43	46.0	47.0	49.3	43.0	42.0	44.7	45.3	50.0	43.3	56.3	48.0	51.0	48.0	49.4	48.2
39	PMH-5	47.3	49.0	52.0	45.7	45.0	43.0	47.0	50.3	40.3	54.0	49.3	51.0	49.7	49.1	48.1
40	Parkash	48.3	48.3	50.7	46.3	46.3	44.0	47.3	49.3	39.7	56.0	46.7	51.0	50.3	48.8	47.9
	Loc. Mean	**48.7**	**49.7**	**52.0**	**46.0**	**44.5**	**44.7**	**47.7**	**51.9**	**41.4**	**56.8**	**50.9**	**52.1**	**50.0**	**50.5**	**49.8**
	C.D. (5%)	2.29	1.50	1.35	8.85	1.15	0.59	1.72	0.99	5.52	2.24	1.76	0.99	1.85	1.89	0.95
	C.V. (%)	2.89	1.86	1.59	11.72	1.58	0.82	3.17	1.17	8.21	2.43	2.13	1.17	2.27	3.29	3.45
	F (Prob)	0.00	0.00	0.00	0.95	0.00	0.00	0.00	0.00	0.74	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 50% SILKING															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	63.0	65.3	56.7	62.7	56.7	60.9	53.3	55.7	57.7	55.6	56.7	57.7	50.7	54.3	55.7	55.0
2	KMH-5510	55.0	56.0	51.7	53.0	57.7	54.7	47.0	56.0	51.3	51.4	52.3	49.3	48.7	50.0	47.3	49.5
3	AH7006	56.3	57.7	50.7	52.7	54.7	54.4	50.3	58.7	52.7	53.9	53.7	51.7	50.0	48.7	55.3	51.9
4	LMH 1215	56.3	53.7	52.0	54.0	55.7	54.3	47.3	56.3	53.0	52.2	53.7	50.7	51.0	50.7	54.3	52.1
5	DMRH1305	54.0	52.0	49.7	55.3	55.0	53.2	47.7	55.3	51.0	51.3	51.7	48.7	47.3	48.7	50.3	49.3
6	FH 3728	59.7	62.0	53.3	58.3	55.0	57.7	50.0	54.0	55.3	53.1	54.7	53.7	50.0	52.0	56.7	53.4
7	LMH 1415	56.0	59.3	54.7	55.0	54.3	55.9	53.3	58.0	55.0	55.4	56.0	53.3	51.0	54.7	52.3	53.5
8	JH 31785	57.0	57.0	52.0	54.7	50.3	54.2	49.3	56.0	53.7	53.0	51.7	50.0	50.0	50.0	51.7	50.7
9	FH 3754	53.7	54.7	49.3	53.7	52.7	52.8	45.7	55.0	51.3	50.7	51.7	47.7	45.0	48.7	50.3	48.7
10	BL 104	56.3	57.3	54.0	53.7	56.3	55.5	48.3	55.7	52.7	52.2	53.7	51.3	48.3	50.0	52.3	51.1
11	KMH 13-15	57.7	57.3	51.7	49.0	55.3	54.2	49.0	58.7	54.3	54.0	53.3	51.7	51.7	51.0	54.3	52.4
12	BL 105	56.3	58.0	50.3	54.7	55.3	54.9	48.3	56.0	52.0	52.1	52.7	52.0	49.3	50.7	52.3	51.4
13	DH-292	64.7	67.7	57.3	61.3	58.0	61.8	58.7	63.3	57.7	59.9	54.7	52.7	51.0	56.3	59.3	54.8
14	H-100	60.0	64.3	56.0	60.7	56.7	59.5	53.3	54.7	56.3	54.8	54.3	63.7	52.0	55.0	51.0	55.2
15	H-101	57.0	64.3	55.0	57.7	55.7	57.9	53.3	57.7	58.7	56.6	55.7	52.0	51.0	53.3	56.7	53.7
16	IH-0712	52.7	53.3	49.3	50.3	51.3	51.4	46.3	51.0	52.0	49.8	52.0	47.3	49.0	45.3	49.3	48.6
17	EH-2416	56.7	60.7	55.0	57.3	54.7	56.9	50.3	59.7	55.7	55.2	50.7	52.0	49.3	51.7	53.7	51.5
18	CMH12-700	59.7	61.3	55.3	59.7	58.3	58.9	53.0	57.3	55.7	55.3	55.0	52.3	51.3	52.7	55.3	53.3
19	KMH 13-17	58.3	61.3	51.3	49.0	53.0	54.6	49.7	58.7	55.0	54.4	54.0	50.0	46.0	51.3	52.3	50.7
20	AH1402	51.3	59.3	54.0	54.7	51.7	54.2	48.3	58.0	56.3	54.2	54.7	50.0	47.0	50.7	48.3	50.1
21	LMH 1115	56.0	51.7	49.0	51.3	51.3	51.9	47.3	48.7	52.0	49.3	52.0	50.7	48.3	48.0	47.3	49.3
22	CMH12-703	61.3	64.0	54.7	59.0	52.3	58.3	52.0	58.3	56.0	55.4	54.3	53.7	50.7	54.0	54.3	53.4
23	LMH 1315	56.0	57.3	51.0	56.3	57.3	55.6	51.3	59.3	53.3	54.7	54.0	53.0	51.7	50.7	55.7	53.0
24	DH-291	58.0	64.0	54.7	58.3	57.7	58.5	52.0	60.0	54.0	55.3	55.0	54.0	52.0	51.3	54.3	53.3

Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	56.0	59.0	52.0	55.3	55.0	55.5	48.3	54.3	52.3	51.7	54.0	50.7	48.0	49.3	49.3	50.3
26	JKMH 4222	57.0	57.7	49.3	55.7	54.7	54.9	49.0	57.3	53.0	53.1	53.0	52.0	51.0	50.0	53.3	51.9
27	NMH-51	56.3	55.0	53.7	54.7	54.7	54.9	48.3	59.0	51.7	53.0	54.0	53.0	48.7	51.3	54.3	52.3
28	IH-0953	54.7	51.3	48.7	51.0	53.7	51.9	48.0	53.0	51.0	50.7	52.7	49.3	47.0	47.7	50.3	49.4
29	BRM 12-2	61.7	64.7	55.7	59.7	51.7	58.7	53.3	58.0	55.7	55.7	56.3	55.7	51.0	53.3	53.3	53.9
30	MEH-2-15	54.7	53.3	49.7	51.7	53.3	52.5	48.0	57.0	51.0	52.0	50.7	48.7	45.0	46.7	52.3	48.7
31	Khushi	61.0	63.0	54.7	59.0	52.7	58.1	52.0	54.7	58.0	54.9	55.3	53.3	52.0	53.0	53.3	53.4
32	LMH 1515	58.7	59.0	52.3	55.3	54.3	55.9	52.0	53.3	54.0	53.1	55.0	52.0	52.3	53.0	54.3	53.3
33	MEH-1-15	55.7	56.7	53.3	53.3	53.3	54.5	50.0	56.7	51.7	52.8	49.7	50.0	47.0	48.3	48.7	48.7
34	DH-297	52.3	50.7	48.3	50.3	55.0	51.3	45.3	54.0	50.3	49.9	50.0	49.3	49.0	47.3	49.3	49.0
35	DH-298	51.0	50.0	48.3	50.7	55.0	51.0	44.3	53.3	48.7	48.8	47.3	47.0	44.0	44.0	44.3	45.3
36	APH27-B	54.7	59.3	52.7	54.3	55.0	55.2	49.0	55.0	52.3	52.1	55.7	51.0	49.7	50.3	55.3	52.4
	CHECKS																
37	Vivek Hybrid-21	51.7	53.3	49.0	49.3	54.0	51.5	44.3	53.0	49.3	48.9	50.3	48.7	44.0	46.7	45.7	47.1
38	Vivek Hybrid-43	53.0	56.3	49.7	54.7	56.0	53.9	47.0	57.7	51.3	52.0	52.0	48.3	48.7	49.3	50.3	49.7
39	PMH-5	55.3	52.7	50.3	52.7	54.0	53.0	47.3	55.0	51.3	51.2	50.7	50.0	51.0	47.3	46.7	49.1
40	Parkash	52.7	54.0	49.3	51.3	53.3	52.1	46.0	56.0	50.3	50.8	51.3	48.0	48.0	46.7	50.3	48.9
	Loc. Mean	**56.5**	**57.9**	**52.1**	**54.8**	**54.6**	**55.2**	**49.4**	**56.2**	**53.4**	**53.0**	**53.2**	**51.4**	**49.2**	**50.4**	**52.1**	**51.2**
	C.D. (5%)	1.51	3.21	1.03	1.44	1.45	2.58	2.37	1.01	1.88	2.77	2.19	4.84	1.70	1.90	2.34	2.05
	C.V. (%)	1.65	3.41	1.21	1.61	1.64	3.75	2.95	1.10	2.16	3.21	2.54	5.79	2.12	2.32	2.76	3.20
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 50% SILKING														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BRM 12-5	54.3	56.7	54.0	53.3	51.3	48.3	53.0	57.3	45.7	64.0	60.3	57.0	61.3	57.6	56.4
2	KMH-5510	50.0	50.3	52.0	47.3	44.7	46.3	48.4	50.3	43.7	57.7	51.0	52.3	51.7	51.1	50.9
3	AH7006	52.3	51.3	54.0	49.0	50.7	46.0	50.6	51.3	46.0	56.7	54.0	54.0	53.0	52.5	52.5
4	LMH 1215	52.0	50.3	52.0	47.0	48.3	47.7	49.6	53.3	47.0	57.7	53.3	53.0	52.3	52.8	52.1
5	DMRH1305	50.0	50.3	52.3	47.7	46.3	45.0	48.6	51.0	43.0	57.7	52.0	53.0	51.3	51.3	50.7
6	FH 3728	52.3	53.7	54.3	49.7	51.7	45.0	51.1	56.7	42.7	60.0	54.7	56.3	54.0	54.1	53.8
7	LMH 1415	51.7	53.0	54.0	50.3	52.0	50.3	51.9	56.3	47.7	60.0	55.3	56.0	57.0	55.4	54.3
8	JH 31785	54.3	52.0	53.0	50.3	50.0	46.0	50.9	54.7	43.0	59.7	52.7	54.0	53.7	52.9	52.3
9	FH 3754	47.3	46.0	50.0	45.0	46.0	46.0	46.7	52.3	46.3	57.0	49.3	53.0	50.3	51.4	49.9
10	BL 104	50.0	51.7	53.3	49.3	48.7	46.0	49.8	52.3	43.0	60.3	53.3	53.0	53.0	52.5	52.2
11	KMH 13-15	49.7	51.0	54.0	48.0	47.3	49.0	49.8	56.3	45.3	56.7	52.7	55.0	52.7	53.1	52.5
12	BL 105	51.3	51.0	52.3	48.0	50.7	45.0	49.7	50.7	42.7	57.7	53.3	53.0	50.7	51.3	51.8
13	DH-292	59.0	58.3	53.7	56.3	48.3	46.0	53.6	57.3	49.7	64.0	62.3	62.0	60.7	59.3	57.6
14	H-100	53.0	53.3	54.3	50.0	50.7	47.0	51.4	57.7	44.7	58.3	57.0	55.3	56.0	54.8	55.0
15	H-101	53.7	55.3	53.0	49.3	46.7	45.0	50.5	58.0	46.0	59.0	54.3	56.0	56.0	54.9	54.4
16	IH-0712	49.3	49.7	50.3	44.7	43.3	44.0	46.9	52.3	42.3	54.7	50.0	53.0	51.3	50.6	49.4
17	EH-2416	49.7	51.7	53.7	48.7	47.3	44.3	49.2	47.3	45.3	58.0	55.0	54.0	52.7	52.1	52.6
18	CMH12-700	56.0	55.0	53.3	51.7	49.3	48.0	52.2	56.3	46.3	62.0	60.7	55.3	56.7	56.2	55.1
19	KMH 13-17	51.0	51.0	53.3	46.7	46.0	45.0	48.8	54.7	45.7	58.0	53.0	53.7	52.0	52.8	52.0
20	AH1402	49.0	52.0	53.0	-	46.7	50.0	50.1	52.7	46.0	56.7	52.7	55.0	54.3	52.9	52.2
21	LMH 1115	50.0	50.7	52.0	47.7	46.0	45.7	48.7	51.3	44.0	56.0	51.3	53.0	50.7	51.1	50.1
22	CMH12-703	53.7	54.0	54.3	50.3	51.0	48.0	51.9	55.3	42.7	62.3	56.7	54.3	57.7	54.8	54.6
23	LMH 1315	52.3	51.0	53.0	49.3	50.0	49.7	50.9	55.3	43.7	57.7	52.3	54.0	54.0	52.8	53.2
24	DH-291	51.0	53.7	54.7	50.7	50.7	46.0	51.1	51.3	45.3	58.3	55.0	54.7	54.7	53.2	54.1

Table No. 5 (Continued)

		DAYS TO 50% SILKING														
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	49.3	50.7	52.7	48.0	47.7	46.3	49.1	51.3	42.0	56.7	52.3	53.0	51.3	51.1	51.4
26	JKMH 4222	50.3	51.3	52.3	48.3	47.7	48.7	49.8	51.7	45.3	57.3	53.3	53.0	53.7	52.4	52.2
27	NMH-51	52.3	52.3	53.7	49.0	47.0	49.0	50.6	54.3	45.3	60.0	54.3	54.0	52.7	53.4	52.7
28	IH-0953	50.3	50.0	51.0	47.7	44.7	47.0	48.4	52.3	45.0	56.7	51.3	53.0	52.3	51.8	50.4
29	BRM 12-2	52.7	53.0	53.0	51.3	52.0	46.0	51.3	56.3	48.3	62.0	57.7	55.3	60.0	56.6	55.1
30	MEH-2-15	49.3	49.0	52.7	46.3	44.7	47.0	48.2	52.3	42.7	54.7	52.3	53.0	52.0	51.2	50.3
31	Khushi	53.0	53.7	54.0	50.0	50.3	49.0	51.7	56.3	47.0	61.7	57.7	55.7	56.3	55.8	54.7
32	LMH 1515	51.0	52.3	54.3	50.0	47.3	50.0	50.8	56.7	45.3	59.7	54.0	53.7	58.3	54.6	53.5
33	MEH-1-15	48.7	49.7	53.3	47.0	45.0	46.0	48.3	50.3	46.3	57.0	52.0	53.0	52.3	51.8	51.0
34	DH-297	48.7	49.0	51.3	45.3	44.3	44.0	47.1	51.3	44.3	53.3	50.7	53.0	49.3	50.3	49.4
35	DH-298	44.7	45.3	49.0	44.3	43.7	44.7	45.3	47.7	43.0	53.0	48.7	53.0	48.0	48.9	47.7
36	APH27-B	52.7	51.3	52.7	49.0	49.3	48.0	50.5	52.7	44.0	57.7	53.0	54.0	53.7	52.5	52.5
	CHECKS															
37	Vivek Hybrid-21	46.7	45.3	52.7	44.3	44.3	44.3	46.3	47.3	43.3	56.0	48.7	53.0	50.7	49.8	48.6
38	Vivek Hybrid-43	48.3	49.0	51.7	44.7	45.3	46.7	47.6	51.3	56.3	57.0	51.7	53.0	51.0	53.4	51.2
39	PMH-5	49.3	50.3	54.3	47.7	48.3	45.0	49.2	51.7	43.3	55.0	51.3	53.0	52.7	51.2	50.7
40	Parkash	50.3	49.7	51.0	47.3	49.3	46.0	48.9	50.7	42.7	57.0	49.0	53.0	53.0	50.9	50.3
	Loc. Mean	**51.0**	**51.4**	**52.8**	**48.1**	**47.9**	**46.7**	**49.7**	**53.2**	**45.1**	**58.1**	**53.5**	**54.1**	**53.6**	**52.9**	**52.3**
	C.D. (5%)	2.20	1.82	1.64	9.27	1.29	0.59	1.66	0.57	4.91	1.84	1.81	0.82	1.94	1.96	0.97
	C.V. (%)	2.65	2.18	1.91	11.76	1.66	0.78	2.93	0.66	6.71	1.94	2.08	0.94	2.23	3.26	3.35
	F (Prob)	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 75% DRY HUSK														
							NHZ			NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	103.3	111.0	96.0	98.3	96.7	101.1	91.7	82.7	87.2	84.7	93.7	83.3	83.3	78.7	84.7
2	KMH-5510	98.0	104.7	93.0	88.7	97.7	96.4	86.0	83.0	84.5	80.3	86.3	85.0	81.0	79.3	82.4
3	AH7006	94.3	95.3	93.7	88.3	94.7	93.3	84.7	87.0	85.8	82.3	88.3	84.0	78.3	80.7	82.7
4	LMH 1215	96.0	93.0	93.7	89.7	95.7	93.6	85.0	85.0	85.0	78.7	88.0	83.0	79.0	80.7	81.9
5	DMRH1305	96.7	98.0	93.3	91.0	95.0	94.8	82.0	84.0	83.0	81.0	85.3	81.0	78.0	78.7	80.8
6	FH 3728	99.7	96.3	95.3	94.0	95.0	96.1	86.3	83.0	84.7	82.0	90.7	86.0	79.7	76.3	82.9
7	LMH 1415	94.0	104.3	94.7	90.7	94.3	95.6	86.7	84.7	85.7	83.7	88.0	84.3	83.7	79.3	83.8
8	JH 31785	96.3	97.0	94.0	90.3	90.3	93.6	85.7	80.0	82.8	83.0	87.0	80.0	79.0	77.3	81.3
9	FH 3754	98.3	102.3	93.0	89.3	92.7	95.1	86.3	81.3	83.8	82.7	83.7	79.0	83.0	79.7	81.6
10	BL 104	93.7	95.0	94.3	89.3	96.3	93.7	84.7	79.7	82.2	80.0	87.7	82.0	77.7	78.3	81.1
11	KMH 13-15	100.7	104.7	93.7	85.0	95.3	95.9	87.3	82.0	84.7	81.0	88.3	82.0	83.0	81.3	83.1
12	BL 105	96.7	95.0	93.0	90.3	95.3	94.1	83.7	80.3	82.0	78.7	88.3	80.0	77.3	76.3	80.1
13	DH-292	104.7	108.7	97.7	97.0	98.0	101.2	94.0	93.0	93.5	84.3	94.3	84.3	86.3	83.7	86.6
14	H-100	100.7	106.0	96.0	96.3	96.7	99.1	89.3	84.3	86.8	81.0	89.7	84.0	83.7	77.7	83.2
15	H-101	94.3	101.3	94.3	93.3	95.7	95.8	84.3	84.3	84.3	77.7	88.3	78.0	81.0	75.7	80.1
16	IH-0712	93.0	95.3	93.0	86.0	91.3	91.7	83.0	80.3	81.7	82.0	83.3	83.0	81.0	79.7	81.8
17	EH-2416	97.3	104.0	96.0	93.0	94.7	97.0	84.7	81.0	82.8	81.3	87.7	81.0	76.7	78.7	81.1
18	CMH12-700	99.3	102.7	95.7	95.3	98.3	98.3	90.0	82.7	86.3	82.3	91.0	83.0	81.7	81.3	83.9
19	KMH 13-17	97.0	104.3	94.0	86.0	93.0	94.9	85.3	79.0	82.2	80.7	87.0	84.0	81.3	80.7	82.7
20	AH1402	98.3	100.0	94.0	90.3	91.7	94.9	86.7	85.0	85.8	83.7	86.3	84.0	83.7	82.3	84.0
21	LMH 1115	95.3	92.7	93.0	87.0	91.3	91.9	81.7	75.7	78.7	80.3	87.3	79.0	78.7	77.7	80.6
22	CMH12-703	99.3	102.3	95.0	94.7	92.3	96.7	90.3	81.3	85.8	82.3	90.0	84.7	84.0	79.3	84.1
23	LMH 1315	95.3	99.0	93.7	92.0	97.3	95.5	86.0	88.0	87.0	82.3	89.0	82.3	82.7	81.3	83.5
24	DH-291	97.0	105.7	95.0	94.0	97.3	97.8	86.3	84.0	85.2	82.0	90.3	83.3	80.7	74.3	82.1

Table No. 5 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK														
							NHZ			NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	98.0	103.3	93.3	91.0	95.0	96.1	87.0	83.3	85.2	80.7	87.7	84.0	81.0	82.7	83.2
26	JKMH 4222	96.7	98.7	93.0	91.3	94.7	94.9	87.0	80.0	83.5	79.7	88.3	85.0	81.0	77.3	82.3
27	NMH-51	95.3	101.0	93.7	90.3	94.7	95.0	89.7	87.3	88.5	83.3	89.3	84.0	82.3	77.3	83.3
28	IH-0953	92.7	96.0	93.0	86.7	93.7	92.4	85.0	81.3	83.2	81.3	87.0	84.0	81.7	75.3	81.9
29	BRM 12-2	100.3	108.0	95.7	95.3	91.7	98.2	90.3	83.3	86.8	83.7	92.3	82.7	83.7	79.3	84.3
30	MEH-2-15	95.0	96.7	93.0	87.3	93.3	93.1	83.3	83.0	83.2	80.0	85.3	82.7	80.0	77.7	81.1
31	Khushi	100.3	105.3	95.3	94.7	92.7	97.7	90.3	85.7	88.0	82.0	89.3	85.0	83.3	78.7	83.7
32	LMH 1515	102.7	105.7	94.0	91.0	94.3	97.5	88.3	84.0	86.2	83.3	88.7	82.0	82.3	78.3	82.9
33	MEH-1-15	95.0	104.7	94.3	89.0	93.3	95.3	86.3	79.3	82.8	80.3	88.0	83.0	80.0	76.3	81.5
34	DH-297	91.3	94.3	92.7	86.0	95.0	91.9	81.3	77.3	79.3	78.7	86.0	79.0	80.7	75.3	79.9
35	DH-298	90.3	92.0	92.3	86.3	95.0	91.2	81.3	73.0	77.2	77.0	84.0	78.0	74.3	77.3	78.1
36	APH27-B	93.3	97.7	93.7	90.0	95.0	93.9	82.0	83.3	82.7	81.3	87.3	82.0	76.3	76.3	80.7
	CHECKS															
37	Vivek Hybrid-21	91.7	99.3	93.7	85.7	94.0	92.9	82.0	76.0	79.0	79.0	85.0	77.0	79.7	74.3	79.0
38	Vivek Hybrid-43	90.3	98.3	93.0	90.3	96.0	93.6	84.7	82.0	83.3	81.0	85.0	83.7	80.7	77.7	81.6
39	PMH-5	93.7	97.0	93.0	88.3	94.0	93.2	83.7	78.3	81.0	81.0	86.3	84.3	81.3	79.3	82.5
40	Parkash	98.0	97.7	93.0	87.0	93.3	93.8	86.3	84.0	85.2	79.3	84.7	83.0	82.3	79.3	81.7
	Loc. Mean	**96.6**	**100.4**	**94.0**	**90.5**	**94.6**	**95.2**	**86.0**	**82.3**	**84.2**	**81.2**	**87.9**	**82.5**	**80.9**	**78.5**	**82.2**
	C.D. (5%)	2.38	3.16	1.05	1.49	1.45	3.02	2.31	1.27	4.25	2.93	1.83	2.10	2.30	1.83	2.15
	C.V. (%)	1.52	1.94	0.69	1.01	0.94	2.54	1.65	0.95	2.50	2.22	1.28	1.57	1.75	1.43	2.10
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		DAYS TO 75% DRY HUSK												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	BRM 12-5	87.0	91.7	92.3	88.0	88.0	89.4	89.7	78.3	88.7	96.0	88.3	88.2	90.5
2	KMH-5510	81.7	80.3	90.7	82.7	86.3	84.3	81.0	75.7	90.3	94.7	83.0	84.9	86.8
3	AH7006	84.7	81.3	88.3	87.7	80.0	84.4	82.7	79.0	85.7	85.3	85.7	83.7	86.0
4	LMH 1215	84.0	80.3	87.0	87.0	85.7	84.8	86.0	78.3	86.3	85.3	82.7	83.7	85.9
5	DMRH1305	82.3	80.3	89.0	84.0	78.0	82.7	82.7	74.7	89.3	86.3	84.7	83.5	85.2
6	FH 3728	84.3	88.7	88.3	89.7	78.0	85.8	90.0	74.7	91.3	83.0	87.7	85.3	87.3
7	LMH 1415	84.0	88.0	89.0	92.0	90.0	88.6	87.7	80.3	85.7	90.0	86.7	86.1	88.3
8	JH 31785	85.7	82.0	89.0	88.0	80.0	84.9	86.0	75.7	85.7	84.3	84.7	83.3	85.5
9	FH 3754	80.0	76.0	88.3	84.7	80.0	81.8	84.0	74.3	88.7	88.3	84.7	84.0	85.5
10	BL 104	82.0	81.7	88.3	86.7	84.0	84.5	86.0	74.7	84.3	87.0	85.3	83.5	85.4
11	KMH 13-15	81.3	81.0	89.0	85.3	88.0	84.9	89.0	78.7	89.3	94.7	86.3	87.6	87.6
12	BL 105	83.7	81.0	87.3	88.7	80.0	84.1	81.7	74.7	91.3	87.3	83.3	83.7	85.2
13	DH-292	91.3	93.3	94.0	85.7	85.3	89.9	87.7	83.3	96.7	96.0	100.3	92.8	92.7
14	H-100	85.3	88.3	88.3	88.3	84.3	86.9	89.0	75.3	90.7	87.0	86.7	85.7	88.6
15	H-101	86.0	90.3	87.7	85.3	78.0	85.5	88.7	77.3	83.7	84.0	87.3	84.2	86.2
16	IH-0712	81.3	79.7	87.0	81.0	78.0	81.4	82.3	73.7	85.0	82.0	84.3	81.5	83.9
17	EH-2416	82.3	81.7	89.0	86.0	82.7	84.3	81.0	78.0	85.3	90.3	86.0	84.1	86.3
18	CMH12-700	88.0	90.0	89.7	88.3	88.0	88.8	89.0	70.0	88.7	96.0	87.0	86.1	89.0
19	KMH 13-17	83.3	81.0	89.0	85.0	78.0	83.3	86.0	77.0	86.0	88.0	85.3	84.5	86.0
20	AH1402	81.7	82.0	-	84.7	87.7	84.0	82.7	77.7	87.7	93.3	86.7	85.6	87.1
21	LMH 1115	82.0	80.7	87.7	83.0	80.0	82.7	83.0	76.7	82.7	83.0	84.3	81.9	83.8
22	CMH12-703	85.0	89.0	89.0	88.7	88.0	87.9	87.0	82.0	88.7	93.3	85.7	87.3	88.7
23	LMH 1315	84.0	81.0	89.0	86.0	88.7	85.7	85.7	76.0	86.7	89.0	85.3	84.5	87.3
24	DH-291	83.7	83.7	89.0	88.7	82.0	85.4	80.7	80.7	83.3	90.3	86.0	84.2	87.2

Table No. 5 (Continued)

		DAYS TO 75% DRY HUSK												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
25	FH 3729	81.3	80.7	90.7	86.7	84.7	84.8	83.0	73.7	88.7	92.0	84.3	84.3	86.9
26	JKMH 4222	82.7	81.3	89.0	86.0	88.0	85.4	83.0	77.3	85.0	83.3	85.0	82.7	86.1
27	NMH-51	84.3	82.3	90.7	84.3	88.3	86.0	86.0	75.7	86.7	93.7	85.7	85.5	87.5
28	IH-0953	83.0	80.0	90.7	81.3	83.7	83.7	84.0	78.3	82.3	90.0	84.3	83.8	85.2
29	BRM 12-2	84.7	83.0	89.0	89.7	85.0	86.3	87.7	81.0	85.7	93.3	85.3	86.6	88.7
30	MEH-2-15	81.7	79.0	87.7	83.0	82.0	82.7	87.7	75.3	85.0	87.0	85.0	84.0	85.0
31	Khushi	85.0	83.7	89.0	88.7	88.0	86.9	88.3	78.0	88.3	94.7	87.3	87.3	88.8
32	LMH 1515	83.3	82.3	90.7	84.3	88.3	85.8	87.3	77.0	91.3	90.0	85.3	86.2	87.9
33	MEH-1-15	80.7	79.7	88.3	83.0	82.0	82.7	82.3	78.0	82.7	88.0	84.7	83.1	85.4
34	DH-297	80.7	79.0	87.7	82.7	78.0	81.6	83.3	76.3	82.7	82.0	85.3	81.9	83.4
35	DH-298	77.3	75.3	87.0	80.0	84.3	80.8	79.0	75.3	85.0	81.3	84.3	81.0	82.3
36	APH27-B	85.3	81.3	88.3	86.3	86.0	85.5	83.3	74.7	85.7	84.0	85.0	82.5	85.4
	CHECKS													
37	Vivek Hybrid-21	78.7	73.3	87.7	82.7	78.3	80.1	79.0	82.0	82.7	87.0	84.3	83.0	83.3
38	Vivek Hybrid-43	80.7	79.0	87.7	83.0	86.0	83.3	81.3	77.7	87.3	87.0	84.3	83.5	85.3
39	PMH-5	82.0	80.3	87.7	86.0	80.0	83.2	83.3	75.3	85.3	85.0	84.7	82.7	85.0
40	Parkash	82.3	79.7	89.0	85.7	80.0	83.3	82.7	72.7	87.3	80.3	84.7	81.5	85.1
	Loc. Mean	**83.2**	**82.3**	**88.1**	**85.7**	**83.5**	**84.7**	**84.8**	**76.9**	**86.8**	**88.3**	**85.7**	**84.5**	**86.4**
	C.D. (5%)	1.90	1.82	16.80	2.21	1.45	3.10	1.57	5.12	1.02	1.16	1.62	3.38	1.37
	C.V. (%)	1.40	1.36	11.62	1.59	1.07	2.93	1.14	4.10	0.72	0.81	1.17	3.20	2.68
	F (Prob)	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		PLANT HEIGHT(cm)															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	203.3	190.0	235.4	212.7	208.8	210.0	221.7	155.0	245.7	207.4	188.0	185.1	186.0	171.7	213.3	188.8
2	KMH-5510	181.7	153.3	203.7	177.3	177.6	178.7	183.3	123.3	199.0	168.6	154.3	177.1	186.7	152.3	184.3	170.9
3	AH7006	181.7	161.7	227.9	169.3	173.5	182.8	191.7	145.0	224.0	186.9	147.3	177.1	178.3	161.0	196.6	172.1
4	LMH 1215	185.0	171.7	213.0	162.0	182.7	182.9	195.0	131.7	237.3	188.0	160.0	171.9	185.7	162.7	213.0	178.6
5	DMRH1305	188.3	181.7	195.2	151.0	154.6	174.2	166.7	120.0	208.7	165.1	138.3	163.4	178.3	137.0	176.8	158.8
6	FH 3728	196.7	155.0	203.3	169.0	178.6	180.5	216.7	145.0	244.3	202.0	166.7	169.9	199.3	174.3	208.9	183.8
7	LMH 1415	195.0	170.0	211.4	187.7	175.5	187.9	191.7	131.7	222.7	182.0	166.7	161.8	198.0	173.3	176.0	175.2
8	JH 31785	195.0	181.7	222.3	180.3	186.2	193.1	203.3	158.3	225.0	195.6	179.0	169.1	197.7	167.0	208.7	184.3
9	FH 3754	188.3	153.3	208.3	170.0	177.1	179.4	178.3	140.0	208.7	175.7	138.7	172.7	188.7	159.3	191.0	170.1
10	BL 104	228.3	181.7	227.4	212.7	205.4	211.1	216.7	185.0	260.3	220.7	182.3	192.8	205.7	178.3	228.0	197.4
11	KMH 13-15	183.3	176.7	197.3	209.3	191.5	191.6	211.7	130.0	241.0	194.2	184.0	173.9	186.0	176.0	218.9	187.8
12	BL 105	218.3	165.0	216.5	179.3	197.5	195.3	211.7	140.0	258.7	203.4	155.7	194.7	203.7	170.0	211.7	187.1
13	DH-292	188.3	140.0	189.2	179.7	174.1	174.3	186.7	130.0	240.7	185.8	169.0	166.6	186.7	166.7	194.1	176.6
14	H-100	210.0	163.3	204.3	189.0	200.9	193.5	215.0	151.7	232.0	199.6	165.7	181.0	199.7	174.3	213.8	186.9
15	H-101	161.7	130.0	201.6	159.7	152.6	161.1	151.7	83.3	147.0	127.3	141.7	173.2	176.0	148.7	155.4	159.0
16	IH-0712	180.0	153.3	211.9	206.7	186.2	187.6	223.3	163.3	233.3	206.7	180.3	167.4	191.3	182.7	204.9	185.3
17	EH-2416	200.0	178.3	216.7	223.7	217.7	207.3	223.3	126.7	256.7	202.2	143.7	177.5	211.0	189.3	229.3	190.2
18	CMH12-700	196.7	185.0	240.3	199.3	218.3	207.9	243.3	163.3	275.0	227.2	190.3	199.4	193.0	195.0	234.2	202.4
19	KMH 13-17	193.3	170.0	211.5	179.3	199.7	190.8	211.7	138.3	248.7	199.6	179.0	176.0	183.7	171.7	216.5	185.4
20	AH1402	178.3	145.0	205.7	162.7	159.2	170.2	193.3	128.3	213.3	178.3	158.0	156.5	187.3	151.0	189.2	168.4
21	LMH 1115	200.0	176.7	215.8	192.3	194.3	195.8	211.7	163.3	226.7	200.6	154.3	181.5	200.3	173.3	204.1	182.7
22	CMH12-703	225.0	175.0	240.3	217.0	226.7	216.8	223.3	188.3	266.7	226.1	178.0	218.0	209.7	202.0	241.7	209.9
23	LMH 1315	191.7	173.3	216.0	179.3	191.8	190.4	211.7	166.7	244.0	207.4	179.0	168.4	185.3	174.3	214.8	184.4
24	DH-291	196.7	158.3	205.9	200.0	194.6	191.1	195.0	180.0	219.7	198.2	165.3	168.1	193.3	167.7	200.8	179.0

Table No. 5 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)															
							NHZ				NWPZ						NEPZ
		ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	FH 3729	198.3	170.0	204.0	181.0	194.5	189.6	206.7	145.0	222.0	191.2	148.3	160.4	200.3	168.3	204.5	176.4
26	JKMH 4222	230.0	185.0	219.5	225.3	211.3	214.2	235.0	158.3	268.3	220.6	169.3	191.1	218.7	204.3	224.0	201.5
27	NMH-51	210.0	181.7	202.9	179.7	192.0	193.2	211.7	178.3	241.7	210.6	174.3	168.0	193.7	174.3	196.9	181.5
28	IH-0953	196.7	160.0	217.3	196.0	183.1	190.6	203.3	160.0	234.3	199.2	160.7	167.5	192.3	181.7	192.7	179.0
29	BRM 12-2	213.3	171.7	213.7	199.0	220.0	203.5	213.3	145.0	258.3	205.6	167.3	193.4	194.7	186.7	223.7	193.2
30	MEH-2-15	178.3	161.7	198.1	170.3	185.7	178.8	186.7	126.7	214.3	175.9	145.0	143.5	191.7	167.7	198.5	169.3
31	Khushi	203.3	173.3	217.9	186.7	198.7	196.0	190.0	160.0	250.0	200.0	172.3	189.8	185.7	178.3	216.3	188.5
32	LMH 1515	201.7	158.3	220.3	170.0	186.3	187.3	190.0	145.0	230.3	188.4	153.3	170.9	184.0	178.7	217.0	180.8
33	MEH-1-15	191.7	158.3	211.3	182.0	190.3	186.7	206.7	160.0	238.3	201.7	141.0	158.7	190.0	163.7	194.1	169.5
34	DH-297	211.7	170.0	232.7	191.7	173.3	195.9	190.0	145.0	230.7	188.6	163.0	174.3	194.3	168.3	195.9	179.2
35	DH-298	175.0	160.0	197.7	164.7	160.3	171.5	183.3	150.0	220.3	184.6	154.3	152.3	189.3	163.3	168.7	165.6
36	APH27-B	195.0	173.3	215.3	188.7	194.9	193.5	188.3	120.0	232.0	180.1	155.3	171.5	204.0	168.3	210.9	182.0
	CHECKS																
37	Vivek Hybrid-21	193.3	158.3	198.1	179.3	177.5	181.3	185.0	143.3	214.7	181.0	152.3	170.5	196.0	173.7	205.6	179.6
38	Vivek Hybrid-43	181.7	140.0	225.0	169.3	148.7	172.9	185.0	110.0	182.0	159.0	125.3	166.7	185.3	130.7	196.8	161.0
39	PMH-5	178.3	170.0	225.1	201.0	180.7	191.0	191.7	120.0	246.7	186.1	169.3	152.9	200.7	154.3	204.7	176.4
40	Parkash	190.0	163.3	199.7	192.3	171.7	183.4	216.7	161.7	239.3	205.9	163.3	150.7	190.7	186.0	214.2	181.0
	Loc. Mean	**195.4**	**166.1**	**213.0**	**186.2**	**187.4**	**189.6**	**201.5**	**145.4**	**232.6**	**193.2**	**162.0**	**173.1**	**193.1**	**170.7**	**204.8**	**180.7**
	C.D. (5%)	12.81	21.66	8.07	9.30	26.15	13.06	21.11	6.65	12.97	19.83	26.13	15.90	6.71	13.37	24.13	12.95
	C.V. (%)	4.03	8.02	2.33	3.07	8.59	5.51	6.44	2.81	3.43	6.31	9.92	5.65	2.14	4.82	7.25	5.73
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		PLANT HEIGHT(cm)														
								PZ							CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	Mean	Mean
1	BRM 12-5	218.7	171.3	222.3	222.3	161.7	191.3	197.9	163.3	166.7	135.0	255.2	153.7	153.7	171.3	193.3
2	KMH-5510	186.3	155.7	196.7	195.3	151.5	180.2	177.6	170.0	191.7	150.0	215.8	138.3	144.3	168.4	173.2
3	AH7006	201.7	170.7	192.3	192.3	150.7	174.7	180.4	180.0	155.0	128.3	231.8	145.7	145.3	164.4	176.1
4	LMH 1215	187.3	173.3	207.0	193.0	157.7	172.5	181.8	180.0	180.0	138.3	236.3	149.0	160.0	173.9	180.2
5	DMRH1305	176.0	142.3	163.7	164.3	125.3	153.0	154.1	153.3	176.0	126.7	211.1	124.7	134.0	154.3	160.4
6	FH 3728	205.3	181.7	194.7	209.0	155.8	174.4	186.8	156.7	135.0	141.7	229.4	141.3	149.0	158.8	180.1
7	LMH 1415	200.3	177.0	204.0	197.7	136.9	183.3	183.2	163.3	173.3	135.0	229.1	161.7	132.3	165.8	178.2
8	JH 31785	196.0	169.3	226.7	213.7	152.3	176.5	189.1	156.7	156.7	125.0	242.4	150.7	165.0	166.1	184.2
9	FH 3754	178.7	138.7	190.3	210.7	144.0	167.3	171.6	153.3	145.0	131.7	208.8	137.3	135.3	151.9	168.6
10	BL 104	227.7	193.0	231.7	233.7	171.7	197.0	209.1	190.0	198.3	148.3	254.5	177.7	155.7	187.4	203.3
11	KMH 13-15	204.7	168.0	205.3	201.0	161.3	178.1	186.4	170.0	178.3	148.3	226.7	146.3	152.0	170.3	184.8
12	BL 105	200.0	196.7	233.3	219.0	164.3	179.9	198.9	166.7	171.7	165.0	250.5	157.3	152.7	177.3	191.2
13	DH-292	194.3	173.0	196.3	201.0	158.7	172.7	182.7	153.3	181.7	136.7	226.7	132.3	140.3	161.8	175.2
14	H-100	190.3	177.0	218.3	202.3	155.6	181.8	187.6	156.7	157.7	146.7	256.5	143.0	142.7	167.2	185.2
15	H-101	139.7	145.3	190.7	168.3	120.7	154.3	153.2	153.3	150.0	120.0	197.1	131.0	115.7	144.5	150.7
16	IH-0712	175.0	167.3	213.7	184.3	145.7	160.5	174.4	161.7	133.3	165.0	238.1	163.3	171.3	172.1	182.6
17	EH-2416	218.7	198.3	243.7	211.0	160.0	192.6	204.0	190.0	129.7	166.7	262.5	155.0	179.0	180.5	196.0
18	CMH12-700	232.0	205.7	245.7	247.7	169.3	225.0	220.9	190.0	178.7	153.3	274.8	187.7	180.7	194.2	208.9
19	KMH 13-17	190.7	169.3	214.0	208.0	146.1	182.6	185.1	166.7	143.3	156.7	227.8	131.3	166.0	165.3	183.3
20	AH1402	186.0	165.3	213.7	-	140.5	156.8	172.5	153.3	183.3	125.0	203.1	143.0	150.7	159.7	168.7
21	LMH 1115	188.0	175.7	211.3	207.0	158.7	169.6	185.0	161.7	156.7	140.0	247.8	153.7	166.3	171.0	185.2
22	CMH12-703	231.0	212.7	237.7	231.7	180.2	194.1	214.6	203.3	183.3	166.7	281.1	175.0	157.3	194.5	210.6
23	LMH 1315	192.7	171.3	198.3	198.7	159.7	181.1	183.6	173.3	186.7	118.3	232.4	153.7	151.7	169.3	184.6
24	DH-291	197.0	175.3	206.3	223.7	161.7	185.9	191.7	168.3	176.7	130.0	242.4	139.3	143.3	166.7	183.8

Table No. 5 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	CWZ Mean	OV'L Mean
25	FH 3729	195.7	153.3	183.3	199.0	157.5	182.9	178.6	156.7	175.0	140.0	230.5	142.0	150.3	165.7	178.8
26	JKMH 4222	220.0	199.3	235.7	232.0	173.1	193.7	209.0	193.3	140.0	143.3	266.0	161.0	196.7	183.4	203.8
27	NMH-51	204.3	177.0	209.0	212.7	157.7	188.4	191.5	175.0	176.7	128.3	233.0	151.0	157.0	170.2	187.0
28	IH-0953	189.0	153.7	205.3	203.3	146.5	175.5	178.9	168.3	175.0	128.3	218.5	141.0	153.7	164.1	180.1
29	BRM 12-2	213.7	187.7	218.7	231.3	151.3	191.1	199.0	185.0	175.0	138.3	251.2	143.3	150.3	173.9	193.5
30	MEH-2-15	178.7	150.3	193.0	168.7	134.0	152.5	162.9	156.7	151.7	131.7	219.3	136.7	148.7	157.4	167.6
31	Khushi	207.0	182.0	211.3	216.3	159.7	190.0	194.4	163.3	163.3	138.3	254.7	139.3	151.3	168.4	188.0
32	LMH 1515	190.3	175.0	195.0	199.0	161.4	178.3	183.2	170.0	193.3	180.0	241.4	148.3	140.0	178.8	183.1
33	MEH-1-15	182.3	147.3	208.0	201.3	148.0	168.0	175.8	160.0	176.7	118.3	226.3	132.7	138.3	158.7	175.7
34	DH-297	171.0	147.3	191.3	201.0	143.0	170.7	170.7	178.3	130.0	140.0	234.3	127.3	153.0	160.5	177.1
35	DH-298	180.3	150.0	169.3	182.0	141.3	177.3	166.7	176.7	178.3	133.3	209.5	135.0	143.7	162.8	168.6
36	APH27-B	195.7	176.0	212.3	192.7	152.1	191.8	186.8	156.7	173.7	131.7	235.1	161.7	155.3	169.0	182.1
	CHECKS															
37	Vivek Hybrid-21	182.3	145.0	176.7	198.3	147.3	180.4	171.7	166.7	150.0	123.3	233.2	122.7	144.3	156.7	172.7
38	Vivek Hybrid-43	155.7	129.0	148.7	165.3	128.7	152.4	146.6	153.3	185.0	111.7	202.2	119.3	130.3	150.3	157.1
39	PMH-5	188.7	173.7	213.0	201.3	152.2	170.8	183.3	156.7	163.3	126.7	237.8	144.3	161.3	165.0	179.4
40	Parkash	180.7	174.0	196.0	188.0	152.0	181.2	178.6	156.7	150.0	128.3	236.5	133.3	150.7	159.2	178.7
	Loc. Mean	**193.8**	**169.9**	**205.6**	**201.6**	**152.4**	**178.3**	**183.7**	**167.7**	**166.1**	**138.5**	**235.3**	**145.8**	**151.7**	**167.5**	**181.5**
	C.D. (5%)	10.23	9.16	22.61	44.61	13.54	5.83	10.13	10.27	34.71	17.52	18.85	19.51	8.53	14.93	6.32
	C.V. (%)	3.25	3.32	6.77	13.50	5.47	2.01	4.84	3.77	12.85	7.78	4.93	8.23	3.46	7.83	6.27
	F (Prob)	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		EAR HEIGHT(cm)															
							NHZ				NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	UDHA	KANG	BARA	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	BRM 12-5	103.3	86.7	96.0	110.7	104.8	100.3	113.3	71.7	101.0	95.3	91.3	85.0	80.7	82.7	103.0	88.5
2	KMH-5510	81.7	68.3	91.7	85.0	73.3	80.0	85.0	60.0	74.7	73.2	75.0	81.0	83.0	72.0	91.6	80.5
3	AH7006	86.7	85.0	99.5	89.3	83.5	88.8	106.7	80.0	94.7	93.8	81.3	77.8	77.3	86.7	93.3	83.3
4	LMH 1215	86.7	85.0	98.8	82.0	83.5	87.2	98.3	51.7	100.3	83.4	85.7	72.5	79.3	87.0	106.6	86.2
5	DMRH1305	81.7	83.3	84.3	73.0	65.3	77.5	76.7	55.0	82.3	71.3	76.7	71.7	77.0	76.0	79.5	76.2
6	FH 3728	96.7	81.7	83.3	88.0	80.2	86.0	105.0	60.0	97.7	87.6	75.7	75.6	83.7	85.3	89.2	81.9
7	LMH 1415	95.0	85.0	78.3	87.3	87.6	86.7	101.7	51.7	94.3	82.6	87.0	66.4	89.7	87.7	65.2	79.2
8	JH 31785	98.3	90.0	101.3	99.3	96.1	97.0	100.0	65.0	92.7	85.9	96.0	80.9	98.3	88.3	105.5	93.8
9	FH 3754	90.0	66.7	91.3	80.3	80.8	81.8	88.3	70.0	80.0	79.4	71.7	78.9	82.0	93.3	82.0	81.6
10	BL 104	111.7	76.7	92.0	94.0	88.8	92.6	101.7	91.7	99.0	97.4	94.0	75.4	91.3	86.0	104.8	90.3
11	KMH 13-15	85.0	88.3	92.9	104.7	91.0	92.4	105.0	70.0	98.0	91.0	90.7	82.5	87.7	99.3	95.2	91.1
12	BL 105	96.7	66.7	85.8	89.3	78.5	83.4	85.0	55.0	87.7	75.9	64.3	84.9	77.0	74.3	86.4	77.4
13	DH-292	91.7	66.7	84.9	91.0	84.7	83.8	95.0	60.0	92.7	82.6	85.7	64.0	83.7	87.7	90.7	82.3
14	H-100	103.3	88.3	100.4	110.7	107.7	102.1	115.0	80.0	110.0	101.7	88.7	84.7	102.7	96.7	115.6	97.7
15	H-101	81.7	61.7	65.4	90.3	75.6	74.9	71.7	45.0	64.7	60.4	70.7	76.2	76.0	84.3	85.4	78.5
16	IH-0712	88.3	71.7	98.5	107.7	91.1	91.4	121.7	95.0	95.0	103.9	96.3	77.1	92.0	95.7	115.8	95.4
17	EH-2416	98.3	80.0	100.1	118.7	98.5	99.1	106.7	68.3	103.0	92.7	86.0	76.1	97.0	93.7	103.2	91.2
18	CMH12-700	93.3	95.0	99.5	113.3	117.3	103.7	128.3	78.3	112.0	106.2	88.7	88.4	95.7	96.7	116.6	97.2
19	KMH 13-17	90.0	80.0	100.6	104.3	88.7	92.7	106.7	58.3	99.7	88.2	88.3	73.2	83.0	88.3	97.3	86.0
20	AH1402	78.3	75.0	88.4	81.0	73.7	79.3	98.3	61.7	81.0	80.3	81.3	65.8	78.0	78.7	85.4	77.8
21	LMH 1115	85.0	81.7	95.0	90.0	77.8	85.9	91.7	71.7	83.7	82.3	74.3	75.9	86.7	94.3	96.4	85.5
22	CMH12-703	115.0	83.3	103.0	112.3	114.2	105.6	113.3	91.7	112.7	105.9	85.7	100.8	100.3	95.0	125.7	101.5
23	LMH 1315	101.7	88.3	85.6	98.0	87.9	92.3	111.7	80.0	104.0	98.6	99.0	72.5	84.3	90.3	97.1	88.7
24	DH-291	88.3	76.7	99.9	97.0	88.8	90.1	96.7	78.3	90.3	88.4	79.7	68.1	84.3	89.3	98.9	84.1

Table No. 5 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm) ALMO	BAJA	UDHA	KANG	BARA	NHZ Mean	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean
25	FH 3729	83.3	85.0	84.3	95.0	84.0	86.3	100.0	66.7	85.0	83.9	76.3	71.5	84.3	87.7	96.1	83.2
26	JKMH 4222	105.0	90.0	96.9	109.7	93.2	99.0	106.7	90.0	102.7	99.8	81.3	70.5	86.3	94.3	107.6	88.0
27	NMH-51	105.0	85.0	75.0	84.3	82.0	86.3	101.7	95.0	94.7	97.1	87.0	71.3	86.0	92.7	77.5	82.9
28	IH-0953	100.0	90.0	98.0	97.0	81.7	93.3	110.0	96.7	90.7	99.1	81.7	72.3	95.7	93.3	93.0	87.2
29	BRM 12-2	106.7	85.0	100.3	110.7	115.7	103.7	105.0	65.0	126.7	98.9	83.7	80.0	98.0	96.0	110.0	93.5
30	MEH-2-15	86.7	83.3	93.6	86.7	81.1	86.3	93.3	78.3	81.0	84.2	76.3	60.0	81.3	93.7	100.9	82.4
31	Khushi	106.7	85.0	94.2	105.3	104.0	99.0	96.7	75.0	101.7	91.1	82.3	82.3	86.0	86.0	94.3	86.2
32	LMH 1515	108.3	80.0	93.4	92.0	87.9	92.3	91.7	66.7	91.3	83.2	80.0	70.6	83.7	93.7	86.4	82.9
33	MEH-1-15	83.3	90.0	86.3	78.0	82.7	84.1	103.3	86.7	92.7	94.2	71.0	60.4	79.3	94.0	97.6	80.5
34	DH-297	106.7	70.0	97.3	81.0	72.9	85.6	80.0	58.3	80.7	73.0	74.0	69.7	80.3	94.3	98.5	83.4
35	DH-298	81.7	90.0	82.9	71.3	72.9	79.8	86.7	68.3	84.7	79.9	72.0	62.7	82.0	82.7	87.5	77.4
36	APH27-B	96.7	78.3	89.5	90.3	85.7	88.1	90.0	43.3	94.3	75.9	61.0	74.9	89.7	84.3	87.9	79.6
	CHECKS																
37	Vivek Hybrid-21	88.3	60.0	81.0	79.3	59.9	73.7	78.3	56.7	68.0	67.7	56.3	70.0	75.3	67.3	89.3	71.7
38	Vivek Hybrid-43	83.3	50.0	103.7	79.0	61.2	75.4	90.0	40.0	64.7	64.9	54.3	72.1	76.0	64.3	49.7	63.3
39	PMH-5	86.7	83.3	91.2	108.3	90.5	92.0	81.7	45.0	98.3	75.0	85.3	60.0	86.7	79.3	97.5	81.8
40	Parkash	90.0	76.7	82.7	100.3	90.1	88.0	108.3	70.0	100.7	93.0	90.0	67.7	85.0	99.3	99.0	88.2
	Loc. Mean	**93.7**	**79.8**	**91.7**	**94.1**	**86.6**	**89.2**	**98.7**	**68.8**	**92.7**	**86.7**	**80.7**	**74.3**	**85.7**	**87.8**	**95.1**	**84.7**
	C.D. (5%)	12.48	17.52	11.01	6.26	17.89	9.96	20.47	4.59	8.54	14.36	14.16	12.40	5.39	9.61	19.37	9.29
	C.V. (%)	8.19	13.50	7.39	4.09	12.71	8.94	12.77	4.11	5.67	10.18	10.80	10.27	3.87	6.73	12.53	8.78
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

		EAR HEIGHT(cm)													
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	BRM 12-5	86.7	81.0	112.7	111.0	68.8	102.3	93.7	85.0	72.7	53.3	101.3	68.7	76.2	90.6
2	KMH-5510	65.3	73.3	89.7	86.7	68.9	87.1	78.5	86.7	90.0	56.7	73.3	60.0	73.3	77.5
3	AH7006	82.3	78.0	95.3	94.3	80.8	94.6	87.6	78.3	73.3	53.3	88.9	69.3	72.7	84.6
4	LMH 1215	77.3	70.0	103.7	89.7	72.9	86.1	83.3	71.7	75.0	56.7	84.1	65.0	70.5	82.1
5	DMRH1305	68.0	66.7	71.7	77.3	59.9	66.5	68.3	63.3	75.0	46.7	67.3	50.0	60.5	70.6
6	FH 3728	75.3	78.7	86.3	92.7	63.9	85.2	80.3	56.7	63.3	63.3	79.3	59.0	64.3	79.4
7	LMH 1415	80.3	84.0	100.7	93.0	66.5	98.8	87.2	63.3	70.0	55.0	83.0	79.0	70.1	81.3
8	JH 31785	73.7	83.0	117.0	99.0	81.5	94.8	91.5	73.3	73.3	58.3	97.8	67.0	74.0	88.8
9	FH 3754	65.7	61.7	99.0	103.0	75.7	89.0	82.3	68.3	61.7	58.3	76.3	64.7	65.9	78.3
10	BL 104	83.0	82.0	101.0	110.7	76.6	97.3	91.8	86.7	91.0	61.7	87.3	82.3	81.8	90.3
11	KMH 13-15	82.3	79.0	98.7	103.7	72.2	94.3	88.4	76.7	81.7	60.0	97.9	64.0	76.1	87.5
12	BL 105	62.3	79.7	93.0	97.3	70.0	77.5	80.0	60.0	70.0	60.0	72.8	61.7	64.9	76.5
13	DH-292	74.7	88.7	96.7	97.3	70.1	91.6	86.5	53.3	75.0	66.7	85.4	58.7	67.8	80.7
14	H-100	77.7	97.0	111.3	104.7	83.9	98.8	95.6	65.0	66.7	68.3	113.9	65.3	75.8	94.0
15	H-101	61.0	68.7	99.3	81.7	61.6	80.8	75.5	53.3	68.3	55.0	76.7	58.3	62.3	71.4
16	IH-0712	70.0	78.0	108.7	84.0	70.3	76.8	81.3	80.0	66.7	55.0	89.3	70.7	72.3	87.3
17	EH-2416	79.0	89.7	113.7	93.7	79.0	99.7	92.4	80.0	81.7	61.7	93.4	67.3	76.8	90.3
18	CMH12-700	87.3	103.0	134.3	130.7	89.0	113.6	109.7	93.3	73.3	71.7	117.1	89.7	89.0	101.1
19	KMH 13-17	68.3	70.0	100.3	101.3	75.0	91.7	84.4	68.3	68.3	56.7	80.6	57.7	66.3	83.2
20	AH1402	67.0	80.3	101.3	-	65.9	81.5	79.2	63.3	83.3	51.7	73.3	69.3	68.2	76.7
21	LMH 1115	62.3	62.0	87.7	96.7	72.9	74.8	76.1	75.0	75.0	51.7	86.3	64.3	70.5	79.7
22	CMH12-703	91.7	109.0	120.0	119.0	84.5	110.5	105.8	93.3	85.0	80.0	111.3	77.7	89.5	101.5
23	LMH 1315	72.0	77.3	95.3	95.7	73.3	93.5	84.5	76.7	81.7	48.3	91.1	72.0	74.0	86.6
24	DH-291	74.7	81.0	92.7	112.0	85.7	92.9	89.8	73.3	80.0	51.7	92.3	57.3	70.9	84.6

Table No. 5 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	VAGA	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	FH 3729	63.7	71.0	85.0	94.7	70.1	91.7	79.4	63.3	76.7	60.0	84.1	57.3	68.3	79.9
26	JKMH 4222	77.7	87.3	106.0	116.0	86.3	104.5	96.3	86.7	68.3	65.0	100.2	66.3	77.3	91.6
27	NMH-51	79.0	80.0	104.7	105.3	81.0	92.9	90.5	73.3	75.0	53.3	86.8	66.0	70.9	84.8
28	IH-0953	69.3	70.0	96.0	101.7	76.1	85.3	83.1	76.7	83.3	53.3	83.3	59.7	71.3	85.6
29	BRM 12-2	81.0	89.7	109.0	114.7	65.3	97.0	92.8	80.0	75.0	61.7	105.7	62.0	76.9	92.7
30	MEH-2-15	68.3	65.0	91.3	84.7	65.3	76.4	75.2	63.3	71.7	51.7	87.5	65.3	67.9	78.6
31	Khushi	80.7	85.7	109.7	113.3	78.2	96.7	94.0	68.3	73.3	70.0	99.3	65.3	75.3	89.2
32	LMH 1515	71.7	85.3	95.3	92.0	82.6	98.4	87.6	86.7	85.0	80.0	83.0	67.3	80.4	85.5
33	MEH-1-15	68.0	59.3	104.0	92.7	69.5	81.5	79.2	70.0	75.0	43.3	90.3	59.0	67.5	79.9
34	DH-297	58.3	54.3	84.7	85.0	61.3	73.8	69.6	80.0	63.3	56.7	77.1	50.7	65.5	75.4
35	DH-298	63.0	66.3	77.7	80.3	65.0	86.7	73.2	76.7	80.0	53.3	77.8	48.3	67.2	75.0
36	APH27-B	73.3	81.7	94.3	95.7	70.6	94.1	84.9	60.0	73.3	55.0	81.9	66.7	67.4	79.7
	CHECKS														
37	Vivek Hybrid-21	61.3	53.0	74.0	81.7	70.5	82.8	70.6	61.7	67.3	45.0	65.0	41.7	56.1	68.1
38	Vivek Hybrid-43	54.7	49.3	60.0	64.7	67.4	65.9	60.3	53.3	97.7	41.7	58.8	54.0	61.1	64.8
39	PMH-5	72.0	80.0	98.3	88.3	68.1	80.4	81.2	66.7	71.7	51.7	86.7	61.7	67.7	80.0
40	Parkash	65.3	83.3	99.0	91.0	80.4	93.3	85.4	66.7	65.0	56.7	97.6	57.7	68.7	84.0
	Loc. Mean	**72.4**	**77.1**	**98.0**	**96.0**	**73.2**	**89.5**	**84.4**	**72.0**	**75.1**	**57.5**	**87.1**	**63.7**	**71.1**	**83.0**
	C.D. (5%)	6.34	7.89	16.94	23.70	10.26	4.88	7.26	9.12	12.16	11.95	11.78	12.97	10.08	4.42
	C.V. (%)	5.39	6.29	10.63	15.05	8.63	3.35	7.55	7.80	9.96	12.78	8.32	12.52	11.35	9.39
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 6 : **PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, UDHAMPUR, KANGRA, BERTIN, DHAULAKUAN, BARAPANI, GOSSAINGAON, POONCH, RAJOURI, IMPHAL IN AVT1 TRIAL No. TR66Z1(AVT1-M) DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		BAJA	R	UDHA	R	KANG	R	BERT	R	DHAU	R	BARA	R	GOSS	R	POON	R	RAJO	R	IMPH	R	NHZ MEAN	R
1	BH 412084	7964	5	6718	6	4991	5	9475	4	4199	5	2566	4	1097	6	4612	2	4620	3	3516	4	5407	5
2	HT 51412182	9912	2	7526	3	7528	1	10427	3	4986	1	4538	1	83	7	2836	7	4581	5	3283	6	6180	2
3	SeedTech2324(Filler)	6457	7	6432	7	4630	6	7868	7	4479	3	2287	5	3512	2	4334	6	4226	7	2220	7	4770	7
4	Bio9681(Filler)	9388	4	6930	4	5647	4	9459	5	4864	2	2886	3	2042	4	4338	5	4919	1	4271	1	5856	4
	CHECKS																						
5	HM-9	7479	6	7874	2	4154	7	8407	6	3329	7	1619	7	3539	1	4468	4	4434	6	3619	3	5043	6
6	BIO-9637	10192	1	7958	1	6543	3	10628	2	4103	6	3330	2	1729	5	4495	3	4632	2	4098	2	6220	1
7	PMH-4	9552	3	6839	5	7316	2	12308	1	4442	4	2125	6	2735	3	4750	1	4586	4	3509	5	6159	3
	Location Mean	**8706**		**7183**		**5830**		**9796**		**4343**		**2764**		**2105**		**4262**		**4571**		**3502**		**5662**	
	C.D. (5%)	558		380		330		771		678		1319		1510		751		679		785		695	
	C.V. (%)	3.57		2.95		3.15		4.38		8.68		**26.55**		**39.92**		9.81		8.27		12.47		**-**	
	F (Prob)	0		0		0		0		0.002		0.004		0.001		0.002		0.441		0.002			
	Plot Size	7.2		9.6		9.6		5.76		9.6		9.6		9.6		9.6		9.6		12		-	
	AGRONOMY DATA																						
	Sowing Date	27-06		2-07		26-06		2-07		27-06		29-06		7-08		9-07		20-07		-		-	
	Harvest Date	28-10		13-10		6-10		10-10		20-10		26-10		4-01		10-11		8-12		-		-	
	Irrigation Nos	3		-		-		-		3		-		1		-		-		-		-	
	Ferilizer Applied N	120		120		120		120		120		80		80		90		120		-		-	
	Ferilizer Applied P	60		60		60		60		60		60		40		60		60		-		-	
	Ferilizer Applied K	40		40		40		40		40		40		40		40		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : GOSS 39.9 %

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9											GRAIN YIELD % SUPERIORITY OVER THE BIO-9637										
		BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ MEAN	BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ MEAN
1	BH 412084	6.5	-	20.1	12.7	26.2	58.5	-	3.2	4.2	-	7.2	-	-	-	-	2.4	-	-	2.6	-	-	-
2	HT 51412182	32.5	-	81.2	24	49.8	180.4	-	-	3.3	-	22.5	-	-	15	-	21.5	36.3	-	-	-	-	-
3	SeedTech2324(Filler)	-	-	11.5	-	34.6	41.3	-	-	-	-	-	-	-	-	-	9.2	-	103.1	-	-	-	-
4	Bio9681(Filler)	25.5	-	36	12.5	46.1	78.3	-	-	10.9	18	16.1	-	-	-	-	18.6	-	18.1	-	6.2	4.2	-
	CHECKS																						
5	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	104.7	-	-	-	-
6	BIO-9637	36.3	1.1	57.5	26.4	23.3	105.7	-	0.6	4.5	13.2	23.3	-	-	-	-	-	-	-	-	-	-	-
7	PMH-4	27.7	-	76.1	46.4	33.5	31.3	-	6.3	3.4	-	22.1	-	-	11.8	15.8	8.3	-	58.2	5.7	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4										
		BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ MEAN
1	BH 412084	-	-	-	-	-	20.7	-	-	0.7	0.2	-
2	HT 51412182	3.8	10	2.9	-	12.2	113.5	-	-	-	-	0.3
3	SeedTech2324(Filler)	-	-	-	-	0.8	7.6	28.4	-	-	-	-
4	Bio9681(Filler)	-	1.3	-	-	9.5	35.8	-	-	7.3	21.7	-
	CHECKS											
5	HM-9	-	15.1	-	-	-	-	29.4	-	-	3.2	-
6	BIO-9637	6.7	16.4	-	-	-	56.7	-	-	1	16.8	1
7	PMH-4	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : GOSS 39.9 %

Table No. 6 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING % BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean	MOISTURE % AT HARVEST BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean
1	BH 412084	80.4	80.9	81.6	77.8	86.4	68.7	64.6	84.0	71.7	75.3	77.1	27.0	24.3	27.1	27.1	23.2	28.7	24.0	20.3	19.7	8.0	22.9
2	HT 51412182	86.4	82.0	81.6	78.6	87.5	80.0	-	80.0	68.7	71.4	79.6	27.0	24.6	23.6	26.4	22.5	21.7	-	22.0	18.0	15.7	22.4
3	SeedTech2324(Filler)	87.3	80.5	80.1	78.9	81.8	77.3	70.2	82.5	65.7	70.2	77.4	26.2	25.3	24.5	25.0	24.5	23.0	21.5	21.0	20.0	17.6	22.8
4	Bio9681(Filler)	83.2	82.1	83.3	81.0	87.0	73.3	79.2	82.0	73.0	70.5	79.4	26.0	23.7	26.7	23.7	23.5	23.7	23.7	19.1	19.8	17.0	22.7
	CHECKS																						
5	HM-9	80.6	82.2	79.5	78.2	83.3	76.7	77.6	82.0	67.7	75.7	78.3	25.8	23.6	24.4	24.4	24.2	27.3	22.0	20.9	20.3	16.7	22.9
6	BIO-9637	85.1	80.8	82.2	83.1	80.0	72.0	79.4	78.5	65.3	76.1	78.2	26.0	24.9	22.0	24.1	22.5	25.7	23.3	19.2	19.4	16.4	22.3
7	PMH-4	89.1	83.1	80.7	84.0	85.7	72.7	74.2	80.0	70.7	82.1	80.2	26.3	24.7	23.7	20.9	22.4	26.0	22.3	19.8	20.3	17.0	22.3
	Loc. Mean	**84.6**	**81.6**	**81.3**	**80.2**	**84.5**	**74.4**	**74.2**	**81.3**	**69.0**	**74.5**	**78.6**	**26.3**	**24.4**	**24.5**	**24.5**	**23.3**	**25.1**	**19.5**	**20.3**	**19.6**	**15.5**	**22.6**
	C.D. (5%)	-	1.06	1.32	2.42	-	8.91	10.17	0.85	6.12	4.90	2.87	1.08	0.36	0.69	1.08	-	4.90	3.57	1.05	1.95	2.71	1.58
	C.V. (%)	-	0.73	0.92	1.69	-	6.74	8.99	0.59	4.99	3.70	4.07	2.32	0.83	1.59	2.48	-	10.96	10.28	2.91	5.58	9.84	7.77
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.11	0.00	0.27	0.15	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.23	0.00	0.95

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean	DAYS TO 50% POLLEN SHED BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean
1	BH 412084	68.1	68.1	75.3	74.1	39.2	51.4	66.7	30.9	80.9	63.3	61.3	62.7	54.7	56.3	53.7	58.0	64.3	47.0	54.3	56.8	57.0	56.5
2	HT 51412182	64.4	70.8	76.7	73.5	39.9	50.3	11.5	17.0	81.3	60.6	59.4	59.7	54.0	54.7	51.3	55.3	61.7	62.0	55.7	59.6	57.0	57.1
3	SeedTech2324(Filler)	57.4	68.8	77.8	71.8	43.8	49.0	60.4	30.9	81.3	61.1	60.2	61.7	54.3	53.7	53.7	59.7	65.7	38.0	54.0	58.2	59.7	55.9
4	Bio9681(Filler)	73.6	68.4	80.6	75.8	48.6	51.0	57.3	34.7	83.7	71.9	65.4	56.7	52.0	50.3	48.3	59.0	58.7	60.0	51.7	55.0	55.3	54.7
	CHECKS																						
5	HM-9	66.2	69.1	75.7	71.2	40.3	48.6	59.0	34.0	83.0	70.3	62.0	57.3	51.3	52.3	47.7	60.3	61.3	49.3	51.7	58.5	55.0	54.5
6	BIO-9637	72.7	70.1	75.3	76.4	48.3	55.9	54.9	34.0	87.2	73.1	65.9	59.0	52.0	50.0	51.3	58.3	61.3	52.0	52.0	53.5	55.3	54.5
7	PMH-4	69.4	68.4	76.4	71.8	45.8	50.0	54.9	34.0	81.9	62.8	62.3	55.0	51.0	48.3	50.7	57.7	58.0	43.0	51.7	57.0	53.7	52.6
	Loc. Mean	**67.4**	**69.1**	**76.8**	**73.5**	**43.7**	**50.9**	**52.1**	**30.8**	**82.7**	**66.2**	**62.3**	**58.9**	**52.8**	**52.2**	**51.0**	**58.3**	**61.6**	**50.2**	**53.0**	**56.9**	**56.1**	**55.1**
	C.D. (5%)	4.48	2.75	2.51	4.32	3.07	5.47	32.31	6.14	6.00	2.47	2.99	1.83	1.42	1.15	0.91	1.14	1.78	12.83	1.88	4.48	2.94	2.94
	C.V. (%)	3.74	2.24	1.84	3.31	3.95	6.04	34.88	11.21	4.08	2.10	5.06	1.75	1.51	1.24	1.00	1.10	1.62	14.37	1.99	4.43	2.94	5.95
	F (Prob)	0.00	0.32	0.01	0.12	0.00	0.17	0.05	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.13	0.02	0.07

Locations Rejected due to High C.V.(i.e.> 20%) : GOSSAIGAON 34.9%

Table No. 6 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean	DAYS TO 75% DRY HUSK BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean
1	BH 412084	64.7	58.7	59.7	56.7	60.7	66.0	57.5	57.7	61.5	65.3	60.8	105.7	97.7	97.3	94.3	98.0	107.3	90.0	118.0	98.1	115.3	102.2
2	HT 51412182	63.0	58.0	58.7	54.3	58.7	63.7	67.0	59.3	60.8	65.0	60.8	107.3	97.3	96.3	92.0	96.7	106.0	92.7	125.3	96.2	121.0	103.1
3	SeedTech2324(Filler)	63.7	58.3	57.3	56.7	62.7	68.3	47.0	58.0	60.5	67.0	60.0	108.0	97.7	95.0	94.3	103.7	110.7	90.0	123.0	95.2	120.3	103.8
4	Bio9681(Filler)	59.0	56.0	53.7	51.3	62.0	61.3	67.0	55.0	59.0	61.0	58.5	103.0	96.7	91.3	89.0	107.3	107.0	90.7	114.7	96.9	114.3	101.1
	CHECKS																						
5	HM-9	59.3	55.3	56.3	50.7	63.3	64.0	57.7	55.0	58.5	60.7	58.1	105.0	96.3	94.0	88.3	107.3	110.3	91.0	119.7	96.7	108.3	101.7
6	BIO-9637	61.0	56.3	53.7	54.3	61.0	63.7	60.7	55.3	56.0	64.0	58.6	106.0	96.0	91.3	92.0	103.0	110.0	90.0	115.0	100.1	107.7	101.1
7	PMH-4	57.3	54.7	52.3	53.7	60.0	60.7	54.7	54.7	60.1	62.3	57.0	100.3	96.3	90.0	91.3	103.3	106.3	92.0	120.0	96.6	107.0	100.3
	Loc. Mean	**61.1**	**56.8**	**56.0**	**54.0**	**61.2**	**64.0**	**58.8**	**56.4**	**59.5**	**63.6**	**59.1**	**105.0**	**96.9**	**93.6**	**91.6**	**102.8**	**108.2**	**90.9**	**119.4**	**97.1**	**113.4**	**101.9**
	C.D. (5%)	2.24	1.38	0.95	0.91	1.45	1.93	10.59	1.97	5.27	3.11	2.56	2.73	1.03	0.95	0.91	2.59	1.55	3.10	5.05	3.69	3.78	2.69
	C.V. (%)	2.06	1.37	0.96	0.95	1.33	1.69	10.12	1.96	4.98	2.75	4.84	1.46	0.60	0.57	0.56	1.42	0.81	1.92	2.38	2.14	1.87	2.95
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.38	0.01	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.40	0.01	0.19	0.00	0.16

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean	EAR HEIGHT(cm) BAJA	UDHA	KANG	BERT	DHAU	BARA	GOSS	POON	RAJO	IMPH	NHZ Mean
1	BH 412084	223.3	240.7	210.3	248.3	261.3	206.2	151.3	262.3	202.7	263.3	227.0	130.0	105.4	102.7	108.3	106.7	107.2	56.0	119.7	91.7	109.3	103.7
2	HT 51412182	211.7	222.7	216.0	215.0	256.7	218.8	126.3	211.7	188.0	244.7	211.1	111.7	97.2	105.0	110.0	87.7	94.2	45.0	95.3	104.7	100.7	95.1
3	SeedTech2324(Filler)	190.0	202.1	198.3	244.0	262.0	189.8	155.6	233.3	195.3	247.0	211.7	93.3	83.6	105.3	115.0	91.0	85.5	57.0	84.7	101.7	90.7	90.8
4	Bio9681(Filler)	201.7	244.3	199.3	216.0	249.7	188.4	153.1	240.7	209.7	257.8	216.1	100.0	103.0	92.3	112.3	101.3	76.1	60.4	82.7	99.3	94.7	92.2
	CHECKS																						
5	HM-9	188.3	221.5	194.0	217.3	215.3	178.7	151.6	222.7	198.0	241.0	202.8	103.3	96.7	90.7	103.7	63.0	74.5	64.4	89.3	99.3	91.0	87.6
6	BIO-9637	215.0	240.3	220.0	234.3	259.7	209.5	145.4	266.3	197.0	267.7	225.5	110.0	99.1	112.3	115.3	95.3	100.1	53.6	115.7	99.7	101.3	100.2
7	PMH-4	185.0	240.0	189.0	208.3	212.3	166.9	145.6	229.3	201.0	227.0	200.5	96.7	106.3	91.0	104.0	80.7	79.6	61.5	94.3	98.0	93.0	90.5
	Loc. Mean	**202.1**	**230.2**	**203.9**	**226.2**	**245.3**	**194.0**	**147.0**	**238.0**	**198.8**	**249.8**	**213.5**	**106.4**	**98.8**	**99.9**	**109.8**	**89.4**	**88.2**	**56.9**	**97.4**	**99.2**	**97.2**	**94.3**
	C.D. (5%)	21.19	8.86	5.95	6.01	9.10	29.74	12.53	15.75	21.28	3.87	11.06	18.12	9.84	4.46	5.62	13.43	7.93	9.47	14.94	12.31	3.30	7.68
	C.V. (%)	5.89	2.16	1.64	1.49	2.09	8.61	4.79	3.72	6.02	0.87	5.78	9.57	5.60	2.51	2.88	8.45	5.06	9.36	8.62	6.98	1.91	9.08
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.50	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.48	0.00	0.00

TABLE No. 7 **PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BARAPANI, GOSSAINGAON, BAJAURA, UDHAMPUR, BERTIN, DHAULAKUAN, POONCH, RAJOURI IN AVT2 TRIAL No. TR71Z1 (AVT2-E)DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																NHZ MEAN	R
		BAJA	R	UDHA	R	BERT	R	DHAU	R	BARA	R	GOSS	R	POON	R	RAJO	R		
1	FH 3605	7823	3	7127	1	9511	2	6988	2	2704	4	2355	1	7811	3	2946	2	7034	1
2	FH 3626	7455	4	6520	5	7760	3	5261	5	3699	2	2186	2	8500	1	3022	1	6420	3
3	Bio 9720	7901	2	6397	7	7032	4	7318	1	4763	1	-	7	6489	4	2839	4	6329	4
4	Filler1	6455	5	6501	6	5947	7	4348	7	1599	5	677	6	5372	7	2536	6	5193	7
5	Filler2	7944	1	6817	4	6362	6	4821	6	3026	3	1629	4	8168	2	2394	7	6084	5
	CHECKS																		
6	PMH-5	4620	7	6923	3	11561	1	6289	3	249	7	1993	3	6441	5	2905	3	6457	2
7	Parkash	4903	6	6970	2	6762	5	5897	4	491	6	1403	5	5531	6	2826	5	5481	6
	Location Mean	**6729**		**6750**		**7848**		**5846**		**2362**		**1707**		**6902**		**2781**		**6143**	
	C.D. (5%)	397		283		494		501		1696		1259		2022		394		682	
	C.V. (%)	3.29		2.34		3.5		4.77		**39.97**		**47.61**		16.3		7.88		**-**	
	F (Prob)	0		0		0		0		0.001		0.018		0.015		0.086			
	Plot Size	10.8		14.4		5.28		10.8		14.4		14.4		14.4		14.4		-	
	AGRONOMY DATA																		
	Sowing Date	27-06		2-07		2-07		27-06		29-06		7-08		9-07		20-07		-	
	Harvest Date	27-10		9-10		10-10		27-10		26-10		5-01		3-11		1-12		-	
	Irrigation Nos	3		-		-		3		-		1		-		-		-	
	Ferilizer Applied N	120		120		120		120		80		80		90		120		-	
	Ferilizer Applied P	60		60		60		60		60		40		60		60		-	
	Ferilizer Applied K	40		40		40		40		40		40		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 30%) : BARA 40.0 %: GOSS 47.6 % DUE TO LOW YIELD
IMPHAL (1158 kg/ha)

TABLE No. 7 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-5									GRAIN YIELD % SUPERIORITY OVER THE Parkash								
		BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ MEAN	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ MEAN
1	FH 3605	69.3	2.9	-	11.1	987.9	18.2	21.3	1.4	8.9	59.5	2.3	40.6	18.5	450.6	67.8	41.2	4.2	28.3
2	FH 3626	61.4	-	-	-	1388.3	9.7	32	4	-	52	-	14.8	-	653.2	55.7	53.7	6.9	17.1
3	Bio 9720	71	-	-	16.4	1816.2	-	0.7	-	-	61.1	-	4	24.1	869.8	-	17.3	0.4	15.5
4	Filler1	39.7	-	-	-	543.4	-	-	-	-	31.6	-	-	-	225.6	-	-	-	-
5	Filler2	71.9	-	-	-	1117.7	-	26.8	-	-	62	-	-	-	516.3	16.1	47.7	-	11
	CHECKS																		
6	PMH-5	-	-	-	-	-	-	-	-	-	-	-	71	6.6	-	42	16.5	2.8	17.8
7	Parkash	6.1	0.7	-	-	97.6	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 40.0 %: GOSS 47.6 %

S.No.	PEDIGREE	GRAIN SHELLING %									MOISTURE % AT HARVEST								
		BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean
1	FH 3605	82.9	79.0	80.7	75.0	68.3	78.4	82.5	82.7	78.7	26.8	24.2	26.2	23.4	29.0	22.5	20.8	21.7	24.3
2	FH 3626	79.4	79.1	78.7	82.4	74.7	73.5	84.5	79.0	78.9	25.7	24.9	26.5	23.5	24.0	22.5	19.5	23.1	23.7
3	Bio 9720	80.8	79.5	78.8	85.7	75.0	-	81.5	77.3	79.8	25.9	25.2	26.7	22.4	25.0	-	20.7	23.7	24.2
4	Filler1	82.8	80.4	83.3	80.9	76.7	66.8	80.5	75.3	78.3	24.7	24.4	23.9	24.1	23.7	22.5	19.5	22.6	23.2
5	Filler2	83.1	77.0	81.5	86.7	75.0	73.2	83.5	76.7	79.6	25.9	23.7	22.9	23.4	24.0	22.4	20.8	23.6	23.3
	CHECKS																		
6	PMH-5	82.2	80.3	81.4	81.0	77.3	74.4	79.0	78.3	79.2	25.8	24.8	22.9	22.2	23.0	20.1	19.7	22.3	22.6
7	Parkash	82.1	81.0	84.9	84.6	77.7	75.4	83.0	83.0	81.5	24.5	24.9	24.2	22.3	23.7	23.6	19.4	21.5	23.0
	Loc. Mean	**81.9**	**79.5**	**81.3**	**82.3**	**75.0**	**66.8**	**82.1**	**78.9**	**79.4**	**25.6**	**24.6**	**24.7**	**23.0**	**24.6**	**22.3**	**20.0**	**22.6**	**23.5**
	C.D. (5%)	-	1.64	1.05	-	5.93	8.20	1.81	8.92	2.84	0.72	1.04	0.68	-	5.20	6.52	0.52	4.61	1.08
	C.V. (%)	-	1.16	0.73	-	4.45	7.30	1.24	6.35	3.55	1.57	2.38	1.54	-	11.88	19.20	1.47	11.44	4.55
	F (Prob)	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.45	0.40	0.00	0.10	0.00	0.00	0.28	0.00	0.00	0.91	0.02

Table No. 7 (Continued)

		STAND AT HARVEST ('000/ha)									DAYS TO 50% POLLEN SHED								
S.No.	PEDIGREE	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean
1	FH 3605	55.6	68.8	82.1	62.7	51.2	72.7	36.3	54.2	60.4	57.0	50.3	52.7	59.7	58.7	53.0	50.0	43.0	53.0
2	FH 3626	63.3	66.9	84.6	59.6	54.9	81.0	38.2	57.9	63.3	56.0	50.3	50.3	54.3	58.3	54.3	46.7	46.7	52.1
3	Bio 9720	59.0	68.1	78.3	61.1	51.9	88.2	31.0	55.6	61.6	60.0	55.3	48.7	59.0	64.3	60.5	52.0	48.0	56.0
4	Filler1	62.7	67.4	78.3	52.2	53.7	91.4	32.4	51.6	61.2	48.0	49.0	46.7	50.3	50.7	52.3	42.3	50.7	48.8
5	Filler2	63.9	66.7	77.0	49.4	50.9	77.8	34.3	50.0	58.7	53.3	48.7	50.3	52.0	54.3	51.7	46.0	44.3	50.1
	CHECKS																		
6	PMH-5	58.0	66.9	84.6	58.0	47.2	97.0	37.3	55.6	63.1	52.7	49.7	47.7	52.3	55.7	51.7	47.0	45.0	50.2
7	Parkash	61.4	67.6	78.3	55.6	47.9	87.5	42.1	51.4	61.5	51.3	50.7	47.3	50.3	55.7	54.3	46.7	49.0	50.7
	Loc. Mean	**60.5**	**67.5**	**80.4**	**56.9**	**51.1**	**85.1**	**35.9**	**53.7**	**61.4**	**54.0**	**50.6**	**49.1**	**54.0**	**56.8**	**54.0**	**47.2**	**46.7**	**51.6**
	C.D. (5%)	4.34	2.22	4.16	2.78	6.82	14.41	6.40	4.23	4.26	3.62	1.34	2.20	1.36	1.71	6.68	2.48	5.13	2.37
	C.V. (%)	4.03	1.85	2.91	2.74	7.50	9.52	10.00	4.42	6.88	3.76	1.49	2.51	1.42	1.70	6.96	2.95	6.17	4.55
	F (Prob)	0.01	0.44	0.01	0.00	0.23	0.04	0.04	0.02	0.39	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.07	0.00

		DAYS TO 50% SILKING									DAYS TO 75% DRY HUSK								
S.No.	PEDIGREE	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean	BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean
1	FH 3605	59.0	55.3	56.0	64.7	60.0	60.3	52.3	50.0	57.2	101.7	97.3	94.0	97.0	105.3	93.0	116.7	86.3	98.9
2	FH 3626	58.3	54.7	53.7	58.3	59.7	62.7	49.3	51.3	56.0	97.0	95.7	91.7	93.3	104.7	91.3	109.0	82.3	95.6
3	Bio 9720	63.0	59.0	51.7	64.3	66.0	65.5	55.7	47.0	59.0	107.7	98.3	89.7	98.0	107.3	91.7	116.3	87.7	99.6
4	Filler1	50.0	53.0	50.3	54.7	52.7	56.7	46.3	53.7	52.2	95.7	93.7	88.3	87.0	95.7	92.7	109.0	89.0	93.9
5	Filler2	56.0	53.0	53.7	56.0	56.3	61.0	50.3	51.0	54.7	97.7	93.7	91.7	88.3	100.0	90.0	115.3	86.0	95.3
	CHECKS																		
6	PMH-5	55.0	54.3	50.7	56.3	57.7	58.3	49.7	46.0	53.5	99.7	95.7	88.7	89.3	102.0	91.3	110.3	85.0	95.2
7	Parkash	53.3	54.7	50.7	55.0	58.0	58.7	48.0	50.0	53.5	97.3	95.3	88.7	91.3	102.3	93.0	110.0	84.3	95.3
	Loc. Mean	**56.4**	**54.9**	**52.4**	**58.5**	**58.6**	**60.5**	**50.2**	**49.9**	**55.2**	**99.5**	**95.7**	**90.4**	**92.0**	**102.5**	**91.9**	**112.4**	**85.8**	**96.3**
	C.D. (5%)	3.70	1.49	1.52	1.93	1.88	6.30	2.40	6.32	2.42	1.54	1.45	1.52	4.65	1.54	3.19	2.09	6.11	2.41
	C.V. (%)	3.69	1.52	1.63	1.85	1.80	5.86	2.69	7.12	4.35	0.87	0.85	0.95	2.84	0.84	1.95	1.05	4.00	2.48
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.36	0.00

Table No. 7 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean	EAR HEIGHT(cm) BAJA	UDHA	BERT	DHAU	BARA	GOSS	POON	RAJO	NHZ Mean
1	FH 3605	156.7	194.6	175.0	217.3	189.3	131.7	225.0	198.7	186.0	71.7	85.3	80.0	87.7	91.0	47.3	80.0	93.7	77.9
2	FH 3626	160.0	193.6	179.7	217.3	183.7	137.8	244.3	192.7	188.6	86.7	84.0	90.0	80.3	80.0	44.2	90.0	94.7	81.4
3	Bio 9720	195.0	196.1	182.7	257.7	168.0	132.6	266.0	192.7	198.8	95.0	86.1	102.0	85.0	74.3	50.8	99.3	93.3	87.4
4	Filler1	163.3	193.5	202.3	154.3	187.3	130.0	230.0	201.3	182.8	65.0	74.6	91.0	62.7	92.3	41.2	67.0	96.3	71.1
5	Filler2	141.7	183.3	184.0	210.7	165.3	119.0	193.0	189.7	173.3	65.0	85.3	73.7	71.3	69.0	39.6	63.0	97.0	70.7
	CHECKS																		
6	PMH-5	175.0	204.2	181.7	255.3	190.0	151.5	254.7	196.0	201.0	88.3	86.0	90.0	79.7	95.3	54.5	89.3	93.3	83.0
7	Parkash	156.7	200.1	192.0	243.7	155.7	148.8	262.0	193.3	194.0	80.0	84.0	97.0	109.0	60.0	60.4	101.3	95.0	89.5
	Loc. Mean	**164.0**	**195.1**	**185.3**	**222.3**	**177.0**	**135.9**	**239.3**	**194.9**	**189.2**	**78.8**	**83.6**	**89.1**	**82.2**	**80.3**	**48.3**	**84.3**	**94.8**	**80.2**
	C.D. (5%)	12.50	10.48	6.11	78.38	51.45	21.86	26.34	14.16	16.70	13.42	8.92	4.31	11.90	35.88	13.13	11.22	7.76	8.44
	C.V. (%)	4.28	3.02	1.85	19.82	16.33	9.04	6.19	4.08	8.74	9.58	5.99	2.72	8.13	25.12	15.28	7.49	4.60	9.71
	F (Prob)	0.00	0.03	0.00	0.15	0.67	0.08	0.00	0.61	0.02	0.00	0.15	0.00	0.00	0.33	0.05	0.00	0.90	0.00

TABLE No. 8: **PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, KANPUR, PANTNAGAR, HISAR, JHANSI, GURDASPUR, KAPURTHALA IN AVT1 TRIAL No. TR68Z2 (AVT1-EX-NWPZ) DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		LUDH	R	KARN	R	KANP	R	PANT	R	HISA	R	JHAN	R	GURD	R	KAPU	R	NWPZ MEAN	R
1	AH1317	5227	6	2972	7	4538	6	6355	5	4091	4	3546	6	5073	7	3555	6	4420	6
2	EH-2236	7430	5	4142	4	4842	1	6536	4	3830	5	4278	4	6108	6	5349	3	5314	5
3	BIO9637 (Filler)	11653	1	5243	1	4788	3	9304	1	2990	6	3552	5	9754	1	5191	5	6559	2
4	Bio9681 (Filler)	5093	7	3694	5	4753	4	1650	7	2908	7	1688	7	6431	5	1452	7	3459	7
5	Prakash (Filler)	9473	2	3644	6	4804	2	6032	6	5017	1	6445	2	6798	3	6859	2	6134	3
	CHECKS																		
6	Vivek Hybrid 21	9432	3	4631	3	4636	5	7116	3	4294	3	7319	1	7210	2	8401	1	6630	1
7	Vivek Hybrid 43	8179	4	5047	2	4347	7	8729	2	4977	2	5771	3	6591	4	5226	4	6108	4
	Location Mean	**8070**		**4196**		**4673**		**6532**		**4015**		**4657**		**6852**		**5147**		**5518**	
	C.D. (5%)	2439		197		480		1491		481		588		1841		861		1047	
	C.V. (%)	16.82		2.61		5.72		12.7		6.66		7.03		14.95		9.3		-	
	F (Prob)	0		0		0.247		0		0		0		0.002		0			
	Plot Size	9.6		12		9.6		12		12		4.8		9.6		9.6		-	
	AGRONOMY DATA																		
	Sowing Date	29-06		2-07		8-08		23-07		3-07		16-07		8-07		30-06		-	
	Harvest Date	8-10		30-09		29-11		20-11		5-10		6-10		20-10		17-10		-	
	Irrigation Nos	7		6		3		1		6		3		1		3		-	
	Ferilizer Applied N	50		150		120		120		150		120		50		125		-	
	Ferilizer Applied P	24		60		60		60		60		60		24		60		-	
	Ferilizer Applied K	12		60		50		40		60		-		12		30		-	

TABLE No. 8 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 21									GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 43								
		LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN	LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN
1	AH1317	-	-	-	-	-	-	-	-	-	-	-	4.4	-	-	-	-	-	-
2	EH-2236	-	-	4.4	-	-	-	-	-	-	-	-	11.4	-	-	-	-	2.4	-
3	BIO9637 (Filler)	23.6	13.2	3.3	30.7	-	-	35.3	-	-	42.5	3.9	10.2	6.6	-	-	48	-	7.4
4	Bio9681 (Filler)	-	-	2.5	-	-	-	-	-	-	-	-	9.4	-	-	-	-	-	-
5	Prakash (Filler)	0.4	-	3.6	-	16.8	-	-	-	-	15.8	-	10.5	-	0.8	11.7	3.1	31.3	0.4
	CHECKS																		
6	Vivek Hybrid 21	-	-	-	-	-	-	-	-	-	15.3	-	6.7	-	-	26.8	9.4	60.8	8.5
7	Vivek Hybrid 43	-	9	-	22.7	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-

S.No.	PEDIGREE	GRAIN SHELLING %									MOISTURE % AT HARVEST							
		LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	NWPZ Mean
1	AH1317	84.5	79.7	73.0	81.7	81.3	79.5	80.0	80.5	80.0	22.0	22.0	14.0	17.4	14.9	12.0	21.4	17.7
2	EH-2236	84.8	82.3	77.3	81.1	84.9	77.5	83.9	80.9	81.6	22.3	23.6	15.3	19.2	17.5	15.5	21.4	19.3
3	BIO9637 (Filler)	86.5	80.0	72.7	84.3	83.5	78.5	86.9	77.3	81.2	24.3	23.3	16.0	19.9	15.9	13.5	21.5	19.2
4	Bio9681 (Filler)	85.4	79.7	77.3	81.7	84.6	71.0	84.3	72.6	79.6	28.8	22.6	15.0	20.9	15.7	17.0	22.0	20.3
5	Prakash (Filler)	85.9	81.3	74.7	79.1	85.7	77.0	83.0	86.8	81.7	20.4	22.7	15.3	17.4	16.8	16.0	21.5	18.6
	CHECKS																	
6	Vivek Hybrid 21	87.0	81.3	76.7	81.7	85.1	78.0	84.1	85.0	82.3	21.9	21.7	17.3	16.0	16.6	15.5	21.9	18.7
7	Vivek Hybrid 43	84.5	80.6	73.7	81.7	85.1	79.0	82.3	82.1	81.1	23.5	22.6	17.0	17.3	17.4	11.5	21.5	18.7
	Loc. Mean	**85.5**	**80.7**	**75.0**	**81.6**	**84.3**	**77.2**	**83.5**	**80.7**	**81.1**	**23.3**	**22.7**	**15.7**	**18.3**	**16.4**	**14.4**	**21.6**	**18.9**
	C.D. (5%)	1.11	0.43	1.19	2.63	2.10	2.14	5.25	4.27	2.36	1.08	0.38	1.90	0.91	1.35	1.98	0.26	1.61
	C.V. (%)	0.73	0.30	0.89	1.81	1.40	1.56	3.53	2.97	2.89	2.61	0.95	6.80	2.79	4.63	7.71	0.67	7.86
	F (Prob)	0.00	0.00	0.00	0.05	0.01	0.00	0.24	0.00	0.25	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.09

Table No. 8 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	DAYS TO 50% POLLEN SHED LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	AH1317	73.6	63.9	80.2	56.1	61.4	75.7	58.7	62.2	66.5	50.0	46.3	44.3	51.0	44.0	43.3	52.0	49.0	47.5
2	EH-2236	77.8	63.3	77.8	51.9	61.1	70.8	62.5	75.3	67.6	47.7	47.0	47.7	52.3	44.0	43.7	52.0	49.0	47.9
3	BIO9637 (Filler)	84.0	62.2	77.1	51.1	60.8	74.3	69.1	76.7	69.4	51.0	52.3	44.3	56.0	47.7	43.7	57.0	53.0	50.6
4	Bio9681 (Filler)	30.9	62.2	77.8	11.1	61.4	70.1	30.6	31.9	47.0	53.3	49.0	47.7	57.3	45.0	43.0	56.3	54.3	50.8
5	Prakash (Filler)	77.4	63.1	79.5	55.6	60.8	68.8	70.1	81.3	69.6	43.3	46.0	47.0	48.3	38.7	43.7	47.7	47.3	45.3
	CHECKS																		
6	Vivek Hybrid 21	81.6	61.9	78.5	54.2	60.8	76.4	67.4	88.5	71.2	43.0	48.3	44.3	48.3	39.0	42.3	48.0	43.0	44.5
7	Vivek Hybrid 43	84.7	63.3	77.1	54.4	60.3	70.1	68.4	74.7	69.1	46.7	46.0	45.7	49.3	38.3	45.0	49.3	46.7	45.9
	Loc. Mean	**72.9**	**62.9**	**78.3**	**47.8**	**61.0**	**72.3**	**61.0**	**70.1**	**65.8**	**47.9**	**47.8**	**45.9**	**51.8**	**42.4**	**43.5**	**51.8**	**48.9**	**47.5**
	C.D. (5%)	10.32	1.44	4.73	5.57	1.69	6.54	8.24	6.40	9.43	3.07	1.13	1.23	1.58	2.84	2.22	2.17	1.62	2.09
	C.V. (%)	7.96	1.29	3.39	6.55	1.56	5.08	7.60	5.14	14.21	3.61	1.33	1.50	1.72	3.76	2.87	2.36	1.86	4.35
	F (Prob)	0.00	0.09	0.72	0.00	0.79	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00

S.No.	PEDIGREE	DAYS TO 50% SILKING LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	DAYS TO 75% DRY HUSK LUDH	KARN	KANP	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	AH1317	51.0	48.3	48.3	54.0	45.3	44.7	52.3	53.0	49.6	86.0	83.0	88.0	85.0	80.3	88.3	92.0	86.1
2	EH-2236	49.0	49.3	50.7	55.3	45.3	46.3	52.3	52.7	50.1	85.3	81.7	86.0	87.3	81.3	87.3	92.0	85.9
3	BIO9637 (Filler)	52.7	54.7	47.3	59.0	48.7	46.7	57.0	55.3	52.7	90.7	86.7	84.7	83.7	87.0	92.0	96.0	88.7
4	Bio9681 (Filler)	55.0	51.0	51.3	60.3	46.0	46.3	56.7	57.3	53.0	98.0	80.7	85.3	84.0	88.7	89.7	97.3	89.1
5	Prakash (Filler)	44.3	49.3	51.0	51.3	40.0	47.3	48.3	49.3	47.6	86.0	77.7	87.7	84.3	80.7	87.3	90.3	84.9
	CHECKS																	
6	Vivek Hybrid 21	44.0	50.3	47.7	51.3	40.0	46.7	48.7	50.0	47.3	83.3	74.0	89.3	83.7	79.3	87.0	86.0	83.2
7	Vivek Hybrid 43	48.3	48.7	49.3	52.3	39.7	46.7	50.3	50.7	48.3	84.0	73.0	86.7	80.3	84.3	87.0	89.7	83.6
	Loc. Mean	**49.2**	**50.2**	**49.4**	**54.8**	**43.6**	**46.4**	**52.2**	**52.6**	**49.8**	**87.6**	**79.5**	**86.8**	**84.0**	**83.1**	**88.4**	**91.9**	**85.9**
	C.D. (5%)	3.17	0.76	1.25	1.58	2.86	2.16	2.48	3.72	2.07	3.50	1.65	1.58	3.30	2.36	2.63	1.62	3.20
	C.V. (%)	3.63	0.85	1.42	1.63	3.69	2.62	2.67	3.97	4.13	2.25	1.16	1.03	2.21	1.59	1.67	0.99	3.44
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.01	0.00	0.00

Table No. 8 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	EAR HEIGHT(cm) LUDH	KARN	KANP	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	AH1317	186.7	130.0	169.3	226.0	201.4	188.3	190.0	231.7	190.4	95.0	65.0	54.0	92.0	90.3	83.7	96.7	115.2	86.5
2	EH-2236	221.7	161.7	171.0	254.7	215.5	185.0	190.0	265.1	208.1	118.3	81.7	64.7	88.0	93.6	77.7	93.3	127.6	93.1
3	BIO9637 (Filler)	213.3	210.0	175.0	255.3	205.0	212.3	205.0	271.7	218.5	98.3	121.7	63.0	92.0	99.0	93.7	96.7	131.3	99.4
4	Bio9681 (Filler)	213.3	170.0	185.3	270.7	236.5	228.0	215.0	269.8	223.6	85.0	80.0	69.0	86.0	93.9	89.0	103.3	119.9	90.8
5	Prakash (Filler)	200.0	170.0	185.7	236.0	223.9	195.3	203.3	233.5	206.0	98.3	93.3	73.0	85.0	103.9	75.7	100.0	102.8	91.5
	CHECKS																		
6	Vivek Hybrid 21	188.3	156.7	183.7	226.7	189.6	191.0	185.0	244.1	195.6	71.7	51.7	69.0	57.0	74.0	56.7	66.7	112.8	69.9
7	Vivek Hybrid 43	163.3	143.3	180.0	216.0	182.4	158.3	165.0	227.9	179.5	78.3	66.7	64.0	81.7	75.7	43.7	73.3	98.3	72.7
	Loc. Mean	**198.1**	**163.1**	**178.6**	**240.8**	**207.7**	**194.0**	**193.3**	**249.1**	**203.1**	**92.1**	**80.0**	**65.2**	**83.1**	**90.0**	**74.3**	**90.0**	**115.4**	**86.3**
	C.D. (5%)	27.34	6.95	4.23	7.21	7.65	4.31	23.61	5.65	12.17	21.47	4.48	1.78	7.70	9.06	2.83	27.93	4.81	10.66
	C.V. (%)	7.76	2.40	1.33	1.68	2.07	1.25	6.87	1.28	5.94	13.10	3.15	1.53	5.21	5.66	2.14	17.44	2.34	12.24
	F (Prob)	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00

TABLE No. 9: PERFORMANCE OF MEDIUM & LATE MATURING EXPERIMENTAL HYBRIDS AT LUDHIANA, KARNAL, PANTNAGAR, HISAR, JHANSI, GURDASPUR, KAPURTHALA IN AVT1&2 TRIAL No. TR66Z2(AVT1-M-NWPZ) & TR69Z2(AVT2-L-NWPZ) DURING KHARIF (2015)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE															GRAIN YIELD % SUPERIORITY OVER THE PMH-1							
Sl No	PEDIGREE	LUDH	R	KARN	R	PANT	R	HISA	R	JHAN	R	GURD	R	KAPU	R	NWPZ MEAN	R	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN
1	CP.201	10351	3	11098	6	13241	1	4813	1	3731	7	9494	4	9369	1	8871	2	-	11.1	38.8	62	-	1.8	62.7	10.9
2	X35D601	14338	1	14679	1	10741	3	4073	4	3663	8	12335	1	6765	6	9513	1	28.1	47	12.6	37.1	-	32.3	17.5	19
	CHECKS																								
3	PMH-1	11193	2	9988	7	9539	7	2971	6	7204	2	9325	5	5758	8	7997	5	-	-	-	-	-	-	-	-
4	PMH-3	10015	4	12893	3	9681	6	4515	3	6545	3	10643	2	7663	2	8851	3	-	29.1	1.5	52	-	14.1	33.1	10.7
5	Seedtech 2324	7650	8	13467	2	10728	4	2851	7	3488	9	5502	8	7390	3	7297	7	-	34.8	12.5	-	-	-	28.3	-
6	BIO 9681	9251	6	6477	9	8935	8	4766	2	5533	4	6630	7	6767	5	6908	8	-	-	-	60.4	-	-	17.5	-
7	HM-9	7290	9	11665	5	8345	9	2707	8	4994	6	4694	9	3498	9	6171	9	-	16.8	-	-	-	-	-	-
8	BIO-9637	9310	5	12007	4	11274	2	2405	9	5052	5	7835	6	6709	7	7799	6	-	20.2	18.2	-	-	-	16.5	-
9	PMH-4	9119	7	9758	8	9999	5	3605	5	7232	1	9624	3	6852	4	8027	4	-	-	4.8	21.3	0.4	3.2	19	0.4
	Location Mean	**9835**		**11337**		**10276**		**3634**		**5271**		**8454**		**6752**		**7937**									
	C.D. (5%)	1751		648		1258		261		712		2405		1568		1229									
	C.V. (%)	10.23		3.28		7.04		4.13		7.76		16.34		13.35		-									
	F (Prob)	0		0		0		0		0		0		0											
	Plot Size	9.6		12		12		12		4.8		9.6		9.6		-									
	AGRONOMY DATA																								
	Sowing Date	29-06		29-06		23-07		1-07		16-07		8-07		30-06		-									
	Harvest Date	8-10		10-10		21-11		7-10		8-10		20-10		17-10		-									
	Irrigation Nos	7		5		1		6		2		1		3		-									
	Ferilizer Applied N	50		150		120		150		120		50		125		-									
	Ferilizer Applied P	24		60		60		60		60		24		60		-									
	Ferilizer Applied K	12		60		40		60		-		12		30		-									

TABLE No. 9 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3								GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324								GRAINYIELD % SUPERIORITY OVER THE BIO 9681							
		LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN
1	CP.201	3.4	-	36.8	6.6	-	-	22.3	0.2	35.3	-	23.4	68.8	6.9	72.6	26.8	21.6	11.9	71.4	48.2	1	-	43.2	38.5	28.4
2	X35D601	43.2	13.9	11	-	-	15.9	-	7.5	87.4	9	0.1	42.8	5	124.2	-	30.4	55	126.6	20.2	-	-	86.1	-	37.7
	CHECKS																								
3	PMH-1	11.8	-	-	-	10.1	-	-	-	46.3	-	-	4.2	106.5	69.5	-	9.6	21	54.2	6.8	-	30.2	40.6	-	15.8
4	PMH-3	-	-	-	-	-	-	-	-	30.9	-	-	58.4	87.6	93.4	3.7	21.3	8.3	99.1	8.3	-	18.3	60.5	13.2	28.1
5	Seedtech 2324	-	4.5	10.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	107.9	20.1	-	-	-	9.2	5.6
6	BIO 9681	-	-	-	5.6	-	-	-	-	20.9	-	-	67.2	58.6	20.5	-	-	-	-	-	-	-	-	-	-
7	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	43.2	-	-	-	-	80.1	-	-	-	-	-	-
8	BIO-9637	-	-	16.5	-	-	-	-	-	21.7	-	5.1	-	44.8	42.4	-	6.9	0.6	85.4	26.2	-	-	18.2	-	12.9
9	PMH-4	-	-	3.3	-	10.5	-	-	-	19.2	-	-	26.4	107.3	74.9	-	10	-	50.7	11.9	-	30.7	45.2	1.3	16.2

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9								GRAIN YIELD % SUPERIORITY OVER THE BIO-9637								GRAIN YIELD % SUPERIORITY OVER THE PMH-4							
		LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ MEAN
1	CP.201	42	-	58.7	77.8	-	102.3	167.8	43.8	11.2	-	17.4	100	-	21.2	39.6	13.7	13.5	13.7	32.4	33.5	-	-	36.7	10.5
2	X35D601	96.7	25.8	28.7	50.4	-	162.8	93.4	54.2	54	22.3	-	69.3	-	57.4	0.8	22	57.2	50.4	7.4	13	-	28.2	-	18.5
	CHECKS																								
3	PMH-1	53.5	-	14.3	9.7	44.2	98.6	64.6	29.6	20.2	-	-	23.5	42.6	19	-	2.5	22.7	2.4	-	-	-	-	-	-
4	PMH-3	37.4	10.5	16	66.8	31.1	126.7	119	43.4	7.6	7.4	-	87.7	29.6	35.8	14.2	13.5	9.8	32.1	-	25.2	-	10.6	11.8	10.3
5	Seedtech 2324	4.9	15.5	28.6	5.3	-	17.2	111.2	18.3	-	12.2	-	18.5	-	-	10.1	-	-	38	7.3	-	-	-	7.8	-
6	BIO 9681	26.9	-	7.1	76.1	10.8	41.2	93.4	12	-	-	-	98.2	9.5	-	0.9	-	1.4	-	-	32.2	-	-	-	-
7	HM-9	-	-	-	-	-	-	-	-	-	-	-	12.6	-	-	-	-	-	19.5	-	-	-	-	-	-
8	BIO-9637	27.7	2.9	35.1	-	1.2	66.9	91.8	26.4	-	-	-	-	-	-	-	-	2.1	23	12.8	-	-	-	-	-
9	PMH-4	25.1	-	19.8	33.2	44.8	105	95.9	30.1	-	-	-	49.9	43.2	22.8	2.1	2.9	-	-	-	-	-	-	-	-

Table No. 9 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %								MOISTURE % AT HARVEST							STAND AT HARVEST ('000/ha)							
		LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	LUDH	KARN	PANT	HISA	JHAN	GURD	NWPZ Mean	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	CP.201	86.9	80.9	85.5	85.1	77.0	84.6	82.5	83.2	23.0	20.5	19.1	17.5	11.5	21.4	18.8	83.3	63.1	53.1	61.7	75.0	69.8	89.2	70.7
2	X35D601	89.6	78.4	81.4	85.8	74.5	87.1	81.8	82.7	26.2	21.2	20.9	21.0	14.0	21.8	20.8	83.7	61.7	53.3	61.1	75.7	70.1	76.7	68.9
	CHECKS																							
3	PMH-1	84.9	79.7	81.1	80.5	78.0	86.8	77.8	81.3	26.4	21.3	20.0	18.9	15.0	21.7	20.5	80.2	62.8	54.2	61.1	75.0	66.0	81.3	68.6
4	PMH-3	85.2	80.1	79.1	85.3	74.5	85.4	78.5	81.2	27.4	20.9	19.8	26.9	16.0	21.5	22.1	76.4	62.8	53.3	61.9	74.3	69.1	88.9	69.5
5	Seedtech 2324	85.0	78.6	80.9	79.1	72.5	81.9	81.3	79.9	28.0	21.7	18.9	14.5	13.5	21.6	19.7	64.6	62.8	51.9	61.1	71.5	47.2	84.0	63.3
6	BIO 9681	86.3	79.5	81.7	81.7	73.5	78.9	82.8	80.6	23.7	21.4	19.1	16.9	15.5	21.5	19.7	75.7	62.2	53.1	61.4	74.3	60.4	82.3	67.1
7	HM-9	84.3	82.6	80.0	75.2	72.0	81.8	76.4	78.9	24.5	19.7	18.0	10.4	15.0	21.7	18.2	79.9	63.3	56.9	60.8	75.7	55.2	49.7	63.1
8	BIO-9637	85.3	80.7	81.3	80.4	74.0	84.0	78.5	80.6	25.8	21.3	20.6	18.5	15.5	21.5	20.5	84.0	63.3	53.6	61.1	79.9	53.8	83.0	68.4
9	PMH-4	89.5	81.8	83.3	82.7	76.5	83.3	84.0	83.0	26.0	20.2	21.0	12.4	13.0	21.7	19.0	71.2	62.5	56.1	60.3	70.8	71.9	74.3	66.7
	Loc. Mean	**86.3**	**80.3**	**81.6**	**81.8**	**74.7**	**83.8**	**80.4**	**81.3**	**25.7**	**20.9**	**19.7**	**17.4**	**14.3**	**21.6**	**19.9**	**77.7**	**62.7**	**54.0**	**61.2**	**74.7**	**62.6**	**78.8**	**67.4**
	C.D. (5%)	1.12	0.28	2.39	5.15	2.23	7.43	5.80	2.16	1.80	0.38	1.54	2.59	1.68	0.60	2.42	6.96	2.13	3.58	1.63	6.59	10.47	9.48	6.56
	C.V. (%)	0.75	0.20	1.69	3.64	1.72	5.13	4.17	2.47	4.05	1.06	4.52	8.57	6.78	1.60	10.41	5.18	1.97	3.83	1.54	5.10	9.66	6.95	9.07
	F (Prob)	0.00	0.00	0.00	0.01	0.00	0.40	0.14	0.00	0.00	0.00	0.01	0.00	0.00	0.89	0.08	0.00	0.79	0.16	0.63	0.27	0.00	0.00	0.25

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED								DAYS TO 50% SILKING								DAYS TO 75% DRY HUSK							
		LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	LUDH	KARN	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	CP.201	51.3	55.3	53.7	45.7	44.3	56.7	53.3	51.5	52.3	58.0	56.7	46.7	51.3	60.3	55.3	54.4	95.0	89.3	80.7	84.7	94.0	98.3	90.3
2	X35D601	54.0	56.0	57.7	50.0	45.3	56.3	55.0	53.5	55.3	58.0	60.7	52.0	49.0	57.0	58.0	55.7	96.7	89.7	87.0	89.7	94.7	100.0	92.9
	CHECKS																							
3	PMH-1	50.0	51.3	57.0	50.0	46.0	54.7	52.0	51.6	52.0	53.3	60.0	51.7	51.7	55.3	56.3	54.3	86.7	88.0	86.7	87.0	91.7	97.0	89.5
4	PMH-3	52.7	52.7	57.0	46.0	43.7	57.0	53.0	51.7	54.0	55.3	60.0	47.7	49.7	57.3	57.3	54.5	92.7	84.3	88.0	88.7	93.7	98.0	90.9
5	Seedtech 2324	51.3	56.7	55.3	43.0	43.7	55.0	53.0	51.1	53.3	60.0	58.3	47.3	47.3	56.0	56.7	54.1	89.7	91.7	80.3	85.7	89.0	98.0	89.1
6	BIO 9681	46.3	54.0	54.3	44.0	43.7	52.0	48.0	48.9	47.3	56.7	57.3	45.0	49.0	52.0	54.7	51.7	85.3	86.0	81.0	85.0	89.3	93.0	86.6
7	HM-9	48.0	56.0	52.0	46.0	44.3	51.7	48.0	49.4	49.3	58.0	55.0	47.7	52.3	52.0	55.3	52.8	87.3	84.3	77.7	85.3	91.0	93.0	86.4
8	BIO-9637	52.3	52.7	56.0	45.0	44.3	55.3	53.0	51.2	54.0	55.3	59.0	46.3	50.0	56.0	56.0	53.8	93.3	89.7	80.0	85.3	92.0	98.0	89.7
9	PMH-4	50.7	57.0	54.7	45.7	44.7	52.3	49.0	50.6	52.7	60.7	58.0	47.3	53.0	52.3	55.0	54.1	92.0	87.7	79.0	86.3	89.7	94.0	88.1
	Loc. Mean	**50.7**	**54.6**	**55.3**	**46.1**	**44.4**	**54.6**	**51.6**	**51.1**	**52.3**	**57.3**	**58.3**	**48.0**	**50.4**	**55.4**	**56.1**	**53.9**	**91.0**	**87.9**	**82.3**	**86.4**	**91.7**	**96.6**	**89.3**
	C.D. (5%)	2.73	1.05	2.17	2.58	2.36	1.53	3.23	1.86	2.62	0.88	2.23	1.96	2.53	3.97	1.96	2.16	3.26	1.03	1.94	2.00	2.55	3.23	2.63
	C.V. (%)	3.11	1.11	2.27	3.23	3.07	1.62	3.62	3.39	2.89	0.89	2.20	2.37	2.90	4.14	2.02	3.73	2.07	0.68	1.36	1.33	1.61	1.93	2.53
	F (Prob)	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 9 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean	EAR HEIGHT(cm) LUDH	KARN	PANT	HISA	JHAN	GURD	KAPU	NWPZ Mean
1	CP.201	216.7	180.0	291.3	203.7	208.7	206.7	260.4	223.9	105.0	95.0	119.0	90.4	90.0	95.0	113.8	101.2
2	X35D601	245.0	205.0	265.7	215.0	217.3	233.3	286.4	238.3	123.3	118.3	138.0	103.9	104.7	115.0	114.5	116.8
	CHECKS																
3	PMH-1	255.0	190.0	305.0	211.6	222.7	205.0	280.5	238.5	136.7	98.3	132.0	96.0	106.7	125.0	147.3	120.3
4	PMH-3	240.0	195.0	304.7	242.7	237.0	225.0	283.4	246.8	116.7	110.0	123.0	114.9	115.7	115.0	133.0	118.3
5	Seedtech 2324	196.7	180.0	262.7	182.5	189.0	198.3	247.9	208.2	108.3	111.7	117.3	83.6	97.0	100.0	117.5	105.1
6	BIO 9681	231.7	181.7	294.7	231.5	220.7	213.3	242.4	230.8	113.3	90.0	114.3	94.8	103.3	100.0	112.9	104.1
7	HM-9	195.0	170.0	262.0	174.5	176.3	210.0	220.5	201.2	100.0	90.0	112.3	72.5	64.3	118.3	106.4	94.8
8	BIO-9637	221.7	166.7	269.3	167.4	196.7	205.0	255.5	211.7	118.3	93.3	114.0	77.5	98.0	113.3	124.4	105.6
9	PMH-4	203.3	153.3	265.0	185.3	179.7	200.0	253.4	205.7	96.7	85.0	114.0	78.7	83.0	105.0	105.6	95.4
	Loc. Mean	**222.8**	**180.2**	**280.0**	**201.6**	**205.3**	**210.7**	**258.9**	**222.8**	**113.1**	**99.1**	**120.4**	**90.2**	**95.9**	**109.6**	**119.5**	**106.8**
	C.D. (5%)	26.30	8.99	13.82	35.63	5.96	41.25	21.21	12.64	16.87	5.36	8.96	18.20	4.60	14.77	9.33	9.08
	C.V. (%)	6.82	2.88	2.85	10.21	1.68	11.31	4.73	5.28	8.62	3.13	4.30	11.65	2.77	7.78	4.51	7.90
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00

TABLE No. 10: PERFORMANCE OF LATE & MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DHOLI, RANCHI, BHUBANESHWAR, VARANASI, BAHRAICH, KORAPUT, SABOUR, KALYANI IN AVT1 TRIAL No. TR65Z3(AVT1-L-NEPZ) & TR66Z3(AVT1-M-NEPZ) DURING KHARIF (2015)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	KORA	R	SABO	R	KALY	R	NEPZ MEAN	R
1	CMH12-663	3693	3	8081	2	6717	1	6383	2	9867	1	8414	11	6176	1	9862	10	7928	1
2	GOLD1166	3451	4	7724	8	6224	2	5965	4	5302	7	8656	9	5082	4	12181	2	7305	4
3	DAS-MH-306	3983	1	8013	3	4196	10	4572	8	6677	3	9282	3	5755	2	12150	3	7235	6
4	GK3120	3366	6	7426	11	5554	5	4417	9	6479	4	8794	8	4324	8	10759	7	6822	8
	CHECKS																		
5	HM-9	2095	11	7816	6	4089	11	3353	11	4631	11	9285	2	4029	10	8168	11	5910	11
6	BIO-9637	2160	10	7869	5	5118	8	4662	7	4680	10	9135	4	4816	6	10831	6	6730	9
7	PMH-4	3964	2	9219	1	5691	3	6742	1	5124	8	8492	10	5548	3	10509	8	7332	2
8	PMH-1	3425	5	7807	7	5560	4	5384	6	5511	6	8962	5	5024	5	10130	9	6911	7
9	PMH-3	2834	8	7595	9	5541	6	5747	5	7627	2	8945	6	4119	9	11716	4	7327	3
10	Seedtech-2324	2950	7	7557	10	5275	7	6086	3	5604	5	8855	7	4657	7	13039	1	7296	5
11	BIO-9681	2507	9	7884	4	4198	9	4209	10	4806	9	9468	1	3817	11	11261	5	6520	10
	Location Mean	**3130**		**7908**		**5288**		**5229**		**6028**		**8935**		**4850**		**10964**		**7029**	
	C.D. (5%)	1407		1259		373		678		627		1137		735		1898		958	
	C.V. (%)	**26.3**		9.32		4.13		7.59		6.08		7.45		8.87		10.13		**-**	
	F (Prob)	0.062		0.278		0		0		0		0.617		0		0.002			
	Plot Size	12		11.2		9.6		9.6		9.6		9.6		12		9.6		-	
	AGRONOMY DATA																		
	Sowing Date	6-07		7-08		27-06		25-06		4-07		30-06		18-07		18-08		-	
	Harvest Date	6-10		25-11		29-10		29-09		6-10		10-11		19-10		25-11		-	
	Irrigation Nos	1		-		-		1		-		2		-		-		-	
	Ferilizer Applied N	120		120		120		120		120		120		-		150		-	
	Ferilizer Applied P	60		60		60		60		60		60		-		60		-	
	Ferilizer Applied K	40		40		60		40		60		60		-		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.3 %

TABLE No. 10 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9								NEPZ MEAN	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637								NEPZ MEAN
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	
1	CMH12-663	76.2	3.4	64.3	90.4	113	-	53.3	20.7	34.1	71	2.7	31.2	36.9	110.8	-	28.2	-	17.8
2	GOLD1166	64.7	-	52.2	77.9	14.5	-	26.1	49.1	23.6	59.8	-	21.6	28	13.3	-	5.5	12.5	8.5
3	DAS-MH-306	90.1	2.5	2.6	36.4	44.2	-	42.8	48.7	22.4	84.4	1.8	-	-	42.7	1.6	19.5	12.2	7.5
4	GK3120	60.6	-	35.8	31.7	39.9	-	7.3	31.7	15.4	55.8	-	8.5	-	38.5	-	-	-	1.4
	CHECKS																		
5	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1.6	-	-	-
6	BIO-9637	3.1	0.7	25.2	39	1	-	19.5	32.6	13.9	-	-	-	-	-	-	-	-	-
7	PMH-4	89.2	18	39.2	101.1	10.6	-	37.7	28.7	24.1	83.6	17.2	11.2	44.6	9.5	-	15.2	-	8.9
8	PMH-1	63.5	-	36	60.6	19	-	24.7	24	16.9	58.6	-	8.6	15.5	17.8	-	4.3	-	2.7
9	PMH-3	35.3	-	35.5	71.4	64.7	-	2.2	43.4	24	31.2	-	8.3	23.3	63	-	-	8.2	8.9
10	Seedtech-2324	40.8	-	29	81.5	21	-	15.6	59.6	23.4	36.6	-	3.1	30.5	19.8	-	-	20.4	8.4
11	BIO-9681	19.7	0.9	2.7	25.5	3.8	2	-	37.9	10.3	16.1	0.2	-	-	2.7	3.6	-	4	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637								NEPZ MEAN	GRAIN YIELD % SUPERIORITY OVER THE PMH-1								NEPZ MEAN
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	
1	CMH12-663	71	2.7	31.2	36.9	110.8	-	28.2	-	17.8	7.8	3.5	20.8	18.6	79	-	22.9	-	14.7
2	GOLD1166	59.8	-	21.6	28	13.3	-	5.5	12.5	8.5	0.8	-	11.9	10.8	-	-	1.2	20.2	5.7
3	DAS-MH-306	84.4	1.8	-	-	42.7	1.6	19.5	12.2	7.5	16.3	2.6	-	-	21.2	3.6	14.6	19.9	4.7
4	GK3120	55.8	-	8.5	-	38.5	-	-	-	1.4	-	-	-	-	17.6	-	-	6.2	-
	CHECKS																		
5	HM-9	-	-	-	-	-	1.6	-	-	-	-	0.1	-	-	-	3.6	-	-	-
6	BIO-9637	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	1.9	-	6.9	-
7	PMH-4	83.6	17.2	11.2	44.6	9.5	-	15.2	-	8.9	15.7	18.1	2.4	25.2	-	-	10.4	3.7	6.1
8	PMH-1	58.6	-	8.6	15.5	17.8	-	4.3	-	2.7	-	-	-	-	-	-	-	-	-
9	PMH-3	31.2	-	8.3	23.3	63	-	-	8.2	8.9	-	-	-	6.8	38.4	-	-	15.7	6
10	Seedtech-2324	36.6	-	3.1	30.5	19.8	-	-	20.4	8.4	-	-	-	13	1.7	-	-	28.7	5.6
11	BIO-9681	16.1	0.2	-	-	2.7	3.6	-	4	-	-	1	-	-	-	5.6	-	11.2	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.3 %

TABLE No. 10 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3									GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324								
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ MEAN	DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ MEAN
1	CMH12-663	30.3	6.4	21.2	11.1	29.4	-	49.9	-	8.2	25.2	6.9	27.3	4.9	76.1	-	32.6	-	8.7
2	GOLD1166	21.7	1.7	12.3	3.8	-	-	23.4	4	-	17	2.2	18	-	-	-	9.1	-	0.1
3	DAS-MH-306	40.5	5.5	-	-	-	3.8	39.7	3.7	-	35	6	-	-	19.2	4.8	23.6	-	-
4	GK3120	18.7	-	0.2	-	-	-	5	-	-	14.1	-	5.3	-	15.6	-	-	-	-
	CHECKS																		
5	HM-9	-	2.9	-	-	-	3.8	-	-	-	-	3.4	-	-	-	4.9	-	-	-
6	BIO-9637	-	3.6	-	-	-	2.1	16.9	-	-	-	4.1	-	-	-	3.2	3.4	-	-
7	PMH-4	39.9	21.4	2.7	17.3	-	-	34.7	-	0.1	34.4	22	7.9	10.8	-	-	19.1	-	0.5
8	PMH-1	20.8	2.8	0.3	-	-	0.2	21.9	-	-	16.1	3.3	5.4	-	-	1.2	7.9	-	-
9	PMH-3	-	-	-	-	-	-	-	-	-	-	0.5	5	-	36.1	1	-	-	0.4
10	Seedtech-2324	4.1	-	-	5.9	-	-	13	11.3	-	-	-	-	-	-	-	-	-	-
11	BIO-9681	-	3.8	-	-	-	5.8	-	-	-	-	4.3	-	-	-	6.9	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681								
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ MEAN
1	CMH12-663	47.3	2.5	60	51.6	105.3	-	61.8	-	21.6
2	GOLD1166	37.6	-	48.3	41.7	10.3	-	33.2	8.2	12
3	DAS-MH-306	58.9	1.6	-	8.6	38.9	-	50.8	7.9	11
4	GK3120	34.2	-	32.3	4.9	34.8	-	13.3	-	4.6
	CHECKS									
5	HM-9	-	-	-	-	-	-	5.6	-	-
6	BIO-9637	-	-	21.9	10.7	-	-	26.2	-	3.2
7	PMH-4	58.1	16.9	35.6	60.2	6.6	-	45.4	-	12.4
8	PMH-1	36.6	-	32.4	27.9	14.7	-	31.6	-	6
9	PMH-3	13.1	-	32	36.5	58.7	-	7.9	4	12.4
10	Seedtech-2324	17.7	-	25.7	44.6	16.6	-	22	15.8	11.9
11	BIO-9681	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.3 %

Table No. 10 (Continued)

GRAIN SHELLING %

S.No.	PEDIGREE	DHOL	RANC	BHUB	VARA	BAHR	KORA	KALY	NEPZ Mean
1	CMH12-663	76.5	82.3	81.0	74.0	81.0	77.1	81.9	79.1
2	GOLD1166	73.0	80.2	83.8	75.0	74.6	78.9	85.0	78.6
3	DAS-MH-306	75.0	85.1	78.2	77.5	73.6	78.9	87.0	79.3
4	GK3120	83.0	84.2	81.8	78.0	79.0	76.7	89.4	81.7
	CHECKS								
5	HM-9	81.0	81.1	78.4	73.0	78.0	79.0	83.8	79.2
6	BIO-9637	74.5	80.8	78.9	73.0	78.2	84.4	87.1	79.5
7	PMH-4	77.5	85.7	82.2	78.0	73.1	76.6	87.7	80.1
8	PMH-1	79.0	82.2	81.1	76.0	73.8	78.6	83.2	79.1
9	PMH-3	73.0	82.6	79.6	75.0	75.3	79.1	87.2	78.8
10	Seedtech-2324	70.5	82.2	82.5	75.0	72.5	84.7	87.5	79.3
11	BIO-9681	76.0	84.3	80.8	73.5	75.0	78.5	83.9	78.9
	Loc. Mean	**76.3**	**82.8**	**80.8**	**75.3**	**75.8**	**79.3**	**85.8**	**79.4**
	C.D. (5%)	6.51	1.31	-	0.88	1.86	3.87	1.59	2.74
	C.V. (%)	5.01	0.93	-	0.69	1.44	2.86	1.09	3.22
	F (Prob)	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.64

MOISTURE % AT HARVEST

S.No.	PEDIGREE	DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean
1	CMH12-663	18.3	26.2	20.7	33.0	27.2	23.2	25.2	14.1	23.5
2	GOLD1166	21.7	26.6	20.6	33.6	26.0	22.3	26.4	14.4	23.9
3	DAS-MH-306	20.5	27.3	20.4	32.6	25.2	23.0	29.2	14.4	24.1
4	GK3120	18.6	26.1	19.7	28.9	26.7	23.1	26.0	14.3	22.9
	CHECKS									
5	HM-9	17.6	27.4	20.2	28.4	23.9	23.1	23.1	14.5	22.3
6	BIO-9637	14.8	26.8	21.0	30.9	24.1	23.0	26.2	14.1	22.6
7	PMH-4	17.7	26.9	20.8	30.4	24.4	23.0	29.1	14.2	23.3
8	PMH-1	22.9	27.7	19.7	31.5	26.9	22.9	29.2	14.5	24.4
9	PMH-3	20.8	27.0	20.0	31.1	27.0	22.6	29.5	14.2	24.0
10	Seedtech-2324	16.4	26.8	18.9	33.6	24.0	21.9	27.3	14.6	22.9
11	BIO-9681	21.1	26.6	21.0	29.6	23.9	22.7	29.1	14.6	23.6
	Loc. Mean	**19.1**	**26.9**	**20.3**	**31.2**	**25.4**	**22.8**	**27.3**	**14.3**	**23.4**
	C.D. (5%)	2.67	1.66	-	1.39	1.13	0.78	0.00	0.63	1.36
	C.V. (%)	8.19	3.64	-	2.62	2.61	2.00	0.00	2.60	5.82
	F (Prob)	0.00	0.66	-	0.00	0.00	0.07	0.00	0.67	0.05

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean
1	CMH12-663	45.0	55.1	62.5	66.0	69.8	69.8	77.2	66.7	64.0
2	GOLD1166	53.3	57.7	61.8	69.1	60.1	76.4	78.6	63.2	65.0
3	DAS-MH-306	58.3	58.9	57.3	67.0	65.3	71.5	78.3	62.5	64.9
4	GK3120	54.2	56.8	60.4	67.4	64.6	75.0	78.9	63.2	65.1
	CHECKS									
5	HM-9	40.6	59.5	58.3	67.0	62.5	75.3	78.3	59.7	62.7
6	BIO-9637	41.9	59.5	60.8	63.9	60.8	66.0	78.6	64.6	62.0
7	PMH-4	51.9	61.9	59.0	67.7	62.8	74.3	77.8	63.2	64.8
8	PMH-1	43.9	58.6	59.7	67.7	61.8	75.0	77.8	65.3	63.7
9	PMH-3	42.5	56.5	59.4	61.1	69.8	74.7	78.3	62.5	63.1
10	Seedtech-2324	40.6	56.5	58.7	69.4	62.8	73.3	78.3	63.9	62.9
11	BIO-9681	45.8	61.3	57.6	69.4	66.3	76.0	78.3	66.7	65.2
	Loc. Mean	**47.1**	**58.4**	**59.6**	**66.9**	**64.2**	**73.4**	**78.2**	**63.8**	**64.0**
	C.D. (5%)	15.29	5.54	3.86	6.03	4.42	8.95	1.71	4.14	3.09
	C.V. (%)	19.06	5.57	3.80	5.29	4.04	7.16	1.28	3.81	4.84
	F (Prob)	0.23	0.32	0.18	0.21	0.00	0.42	0.75	0.08	0.39

DAYS TO 50% SILKING

S.No.	PEDIGREE	DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean
1	CMH12-663	56.3	59.7	58.0	64.3	59.7	62.0	61.3	61.3	60.3
2	GOLD1166	57.3	59.0	56.7	62.0	57.7	60.3	62.7	63.0	59.8
3	DAS-MH-306	54.7	57.0	55.0	62.3	57.7	67.3	57.0	56.3	58.4
4	GK3120	53.7	53.3	49.0	58.0	53.3	65.3	55.7	55.3	55.5
	CHECKS									
5	HM-9	55.0	55.0	53.0	58.7	53.7	61.7	55.7	55.0	56.0
6	BIO-9637	56.3	57.7	57.7	62.0	53.7	58.3	58.7	55.7	57.5
7	PMH-4	53.0	56.3	55.7	57.7	51.7	65.0	55.3	54.7	56.2
8	PMH-1	49.0	57.0	54.7	62.0	59.7	66.0	58.7	62.3	58.7
9	PMH-3	57.7	58.7	57.0	62.7	57.7	64.7	63.0	63.7	60.6
10	Seedtech-2324	49.3	59.3	54.0	62.3	51.3	60.7	59.3	62.3	57.3
11	BIO-9681	53.7	55.0	53.7	59.0	51.7	63.3	57.0	54.0	55.9
	Loc. Mean	**54.2**	**57.1**	**54.9**	**61.0**	**55.2**	**63.2**	**58.6**	**58.5**	**57.8**
	C.D. (5%)	7.75	1.77	2.20	1.30	1.59	2.94	2.62	1.28	2.31
	C.V. (%)	8.40	1.82	2.35	1.25	1.69	2.73	2.62	1.28	4.01
	F (Prob)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 10 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING									DAYS TO 75% DRY HUSK							
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	KORA	KALY	NEPZ Mean
1	CMH12-663	56.3	59.7	58.0	64.3	59.7	62.0	61.3	61.3	60.3	83.3	96.7	96.0	94.3	91.7	103.0	84.7	92.8
2	GOLD1166	57.3	59.0	56.7	62.0	57.7	60.3	62.7	63.0	59.8	82.0	96.0	96.0	93.0	90.3	103.0	84.3	92.1
3	DAS-MH-306	54.7	57.0	55.0	62.3	57.7	67.3	57.0	56.3	58.4	83.7	94.7	93.0	94.7	82.7	107.7	85.0	91.6
4	GK3120	53.7	53.3	49.0	58.0	53.3	65.3	55.7	55.3	55.5	83.0	90.7	87.3	90.3	79.7	107.0	83.0	88.7
	CHECKS																	
5	HM-9	55.0	55.0	53.0	58.7	53.7	61.7	55.7	55.0	56.0	83.7	91.7	89.3	88.7	81.7	103.0	84.0	88.9
6	BIO-9637	56.3	57.7	57.7	62.0	53.7	58.3	58.7	55.7	57.5	83.3	92.7	94.3	95.3	85.0	101.0	84.3	90.9
7	PMH-4	53.0	56.3	55.7	57.7	51.7	65.0	55.3	54.7	56.2	83.7	92.3	95.0	90.3	81.7	105.0	83.7	90.2
8	PMH-1	49.0	57.0	54.7	62.0	59.7	66.0	58.7	62.3	58.7	83.0	94.0	94.0	91.3	84.7	107.0	85.3	91.3
9	PMH-3	57.7	58.7	57.0	62.7	57.7	64.7	63.0	63.7	60.6	82.0	94.0	96.0	94.0	89.3	106.7	84.3	92.3
10	Seedtech-2324	49.3	59.3	54.0	62.3	51.3	60.7	59.3	62.3	57.3	83.0	97.3	93.0	94.0	84.7	102.0	83.0	91.0
11	BIO-9681	53.7	55.0	53.7	59.0	51.7	63.3	57.0	54.0	55.9	81.7	91.3	92.0	93.0	79.7	105.0	83.3	89.4
	Loc. Mean	**54.2**	**57.1**	**54.9**	**61.0**	**55.2**	**63.2**	**58.6**	**58.5**	**57.8**	**82.9**	**93.8**	**93.3**	**92.6**	**84.6**	**104.6**	**84.1**	**90.8**
	C.D. (5%)	7.75	1.77	2.20	1.30	1.59	2.94	2.62	1.28	2.31	2.42	1.94	2.33	1.88	0.48	3.14	1.21	2.31
	C.V. (%)	8.40	1.82	2.35	1.25	1.69	2.73	2.62	1.28	4.01	1.72	1.21	1.47	1.19	0.33	1.76	0.85	2.38
	F (Prob)	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00	0.01	0.00

S.No.	PEDIGREE	PLANT HEIGHT(cm)									EAR HEIGHT(cm)							
		DHOL	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean	RANC	BHUB	VARA	BAHR	KORA	SABO	KALY	NEPZ Mean
1	CMH12-663	214.7	204.2	162.0	197.7	216.1	209.0	185.0	246.0	204.3	99.1	76.3	107.7	98.7	64.7	85.8	92.0	89.2
2	GOLD1166	173.0	181.9	178.0	159.7	227.3	217.0	155.8	246.5	192.4	80.6	78.7	85.3	100.8	71.0	68.3	124.3	87.0
3	DAS-MH-306	194.0	208.9	163.7	170.3	229.4	238.3	161.7	244.9	201.4	90.5	70.0	92.7	125.1	96.0	71.7	61.0	86.7
4	GK3120	164.0	188.9	159.3	152.7	210.0	229.7	149.2	219.1	184.1	77.5	67.3	73.3	102.9	90.0	65.8	70.3	78.2
	CHECKS																	
5	HM-9	153.0	182.5	155.7	143.7	209.0	245.7	140.0	204.6	179.3	75.4	66.0	74.3	94.2	93.3	57.5	70.7	75.9
6	BIO-9637	184.3	205.2	158.7	179.3	224.6	210.3	187.5	238.3	198.5	98.4	70.3	91.0	96.9	75.7	80.0	88.7	85.9
7	PMH-4	166.3	180.1	155.7	163.0	204.8	231.7	137.5	209.3	181.0	85.8	72.0	88.0	107.6	78.3	63.3	91.0	83.7
8	PMH-1	216.3	200.8	181.3	176.0	218.2	228.7	192.5	251.0	208.1	94.1	81.7	99.3	101.2	73.3	90.8	82.0	88.9
9	PMH-3	202.7	209.4	170.0	182.0	227.3	234.3	167.5	265.8	207.4	102.9	80.3	99.3	115.3	96.3	76.7	118.3	98.4
10	Seedtech-2324	182.0	177.5	156.7	157.0	221.2	223.3	150.8	222.3	186.4	88.1	69.0	93.0	111.7	67.7	75.0	86.7	84.4
11	BIO-9681	192.3	203.5	155.7	171.7	228.1	221.3	144.2	226.0	192.8	88.2	64.0	79.7	99.1	76.7	58.3	88.3	79.2
	Loc. Mean	**185.7**	**194.8**	**163.3**	**168.5**	**219.6**	**226.3**	**161.1**	**234.0**	**194.2**	**89.1**	**72.3**	**89.4**	**104.9**	**80.3**	**72.1**	**88.5**	**85.2**
	C.D. (5%)	18.14	15.08	7.65	12.44	30.03	23.78	21.48	22.66	11.77	12.64	3.64	12.18	3.18	14.38	15.34	14.66	11.24
	C.V. (%)	5.73	4.54	2.75	4.34	8.03	6.17	7.83	5.69	6.08	8.33	2.96	7.99	1.78	10.51	12.49	9.72	12.34
	F (Prob)	0.00	0.00	0.00	0.00	0.69	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02

TABLE No. 11: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT HYDERABAD, SHEGAL F, KARIMNAGAR, VRDC KSSC, DHARWAD, ARBHAVI, MANDYA, VAGARAI, COIMBATORE, DHULE, PARBHANI, RAHURI IN AVT1&2 TRIAL No. TR65Z4(AVT1-L-PZ) & TR69Z4(AVT2-L-PZ) DURING KHARIF (2015)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
Sl No	PEDIGREE	HYDE	R	SHEG	R	KARI	R	VRDC	R	DHAR	R	ARBH	R	MAND	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R	PZ MEAN	R
1	CMH10-555	8877	13	8361	18	8151	14	8434	17	7902	25	8799	26	8810	15	4993	22	11153	15	8195	6	8913	15	4325	11	8417	20
2	CMH11-618	8982	11	8361	17	7591	21	8142	19	8098	24	9541	23	9205	9	6011	13	12013	10	5317	23	9067	11	4038	16	8394	21
3	NMH-1247	9760	4	9344	11	7979	17	8799	11	8733	22	11205	11	10320	1	7283	2	12468	7	6605	14	10542	2	5491	1	9367	5
4	PRMH-189	9564	6	7608	22	7690	20	8092	20	9142	18	11302	7	9805	6	6535	6	12546	5	6436	18	10562	1	4384	10	9026	10
5	DMH 192	9831	3	10094	5	8052	15	8361	18	11157	4	11252	8	8819	14	6286	11	9833	22	9626	2	9963	4	5432	2	9389	4
6	HT51412616	8435	18	10435	3	7569	22	7589	25	18548	1	17404	2	10115	3	6319	10	10211	20	6512	17	8146	21	4295	13	10117	2
7	CMH12-663	9395	8	8400	16	8468	12	8546	16	9484	14	10337	17	8544	16	6418	7	10171	21	6020	21	8898	17	4521	7	8607	17
8	DAS-MH-106	6466	26	9900	8	8753	6	9792	2	9641	10	9556	22	10061	4	6234	12	11724	12	7564	10	9059	12	3748	21	8977	11
9	PM14101L	8228	20	8766	13	9535	2	8864	8	11087	5	9438	25	10130	2	4980	23	10980	16	6412	19	8971	13	3674	22	8854	12
10	DKC9151(IN8902)	9709	5	10016	6	9290	3	9226	5	9046	20	10732	13	8434	17	4633	24	10727	17	6569	16	8491	20	3795	20	8807	15
11	DKC9159(IN8570)	9456	7	7259	23	8447	13	7431	26	8422	23	10460	15	9071	12	5848	16	8584	26	6057	20	10267	3	4447	9	8300	23
12	KH-2192	7649	24	9576	10	8694	7	9752	3	11263	3	12624	3	9642	8	8263	1	12077	9	4164	26	9084	10	4557	5	9344	7
13	115-08-01	7212	25	8680	14	7302	24	8552	15	9655	9	10344	16	7762	23	5051	21	10504	18	7773	8	8916	14	3841	19	8341	22
14	ADV 0990293	10824	1	9917	7	8630	8	8988	7	10469	6	11207	10	8889	13	5956	14	10455	19	6593	15	8855	18	3963	17	9162	8
15	ADV 0990296	10621	2	10220	4	8525	10	7746	23	10254	8	10487	14	9719	7	6640	4	12531	6	8952	3	9619	6	4772	3	9574	3
16	ADV 1190384	8648	16	8609	15	8997	4	9146	6	9207	17	11352	6	8118	19	5883	15	11549	13	8064	7	7194	24	3870	18	8797	16
17	Super-1177	8307	19	9688	9	6409	26	8846	9	9516	13	10221	18	9127	10	6379	9	12973	2	6622	13	8913	16	4088	15	8818	13
18	GK3118	9025	10	7790	20	7948	18	8724	13	9295	16	11600	5	8078	21	6691	3	9218	25	7581	9	7685	23	4552	6	8512	18
19	KMH-3981	9120	9	10488	2	7519	23	9413	4	9387	15	10078	21	8311	18	5193	20	13145	1	5141	24	9163	8	2998	26	8814	14
20	DMRH1308	8939	12	7649	21	8510	11	8734	12	10367	7	12393	4	8094	20	6401	8	12864	4	7238	12	9426	7	4492	8	9147	9
21	HTMH 5108	7922	22	10540	1	8552	9	7942	21	17566	2	17586	1	9935	5	5262	19	12243	8	7260	11	9715	5	3668	23	10411	1
22	X35D601	8565	17	8996	12	9977	1	10054	1	9022	21	10740	12	9080	11	6555	5	12903	3	8575	5	8555	19	4301	12	9366	6
	CHECKS																										
23	PMH-1	8789	14	8101	19	8047	16	7595	24	9579	12	11216	9	6870	24	5656	17	9650	24	9687	1	8042	22	4187	14	8476	19
24	PMH-3	7726	23	6567	25	8817	5	8817	10	7700	26	9466	24	6649	25	5631	18	11810	11	5761	22	7183	25	4634	4	7830	25
25	Seedtech-2324	8700	15	6311	26	7091	25	7813	22	9089	19	10085	20	7911	22	4433	25	11230	14	8621	4	9157	9	3657	24	8222	24
26	BIO-9681	8172	21	6726	24	7758	19	8648	14	9634	11	10138	19	5635	26	3872	26	9800	23	4944	25	6764	26	3296	25	7463	26
	Location Mean	**8805**		**8785**		**8242**		**8617**		**10125**		**11137**		**8736**		**5900**		**11283**		**7011**		**8890**		**4193**		**8867**	
	C.D. (5%)	1484		849		791		1819		2018		2483		641		925		488		1006		870		1559		1216	
	C.V. (%)	10.27		5.89		5.85		12.86		12.15		13.59		4.47		9.55		2.63		8.75		5.96		**22.65**		**-**	
	F (Prob)	0		0		0		0.241		0		0		0		0		0		0		0		0.348			
	Plot Size	18		6		18		14.4				14.4		14		14.4		14.4		18		18		18		-	
	AGRONOMY DATA																										
	Sowing Date	29-06		10-07		19-07		2-07		3-08		15-07		23-07		16-07		16-07		27-07		8-07		22-07		-	
	Harvest Date	22-10		8-11		23-11		7-12		16-12		19-11		21-12		16-11		-		18-11		28-10		31-12		-	
	Irrigation Nos	4		-		6		3		3		6		7		12		-		-		-		-		-	
	Ferilizer Applied N	200		-		200		150		150		150		150		150		150		120		-		120		-	
	Ferilizer Applied P	60		-		60		75		75		75		75		75		75		60		-		60		-	
	Ferilizer Applied K	50		-		50		37.5		37.5		37.5		40		75		75		40		-		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : RAHU 22.7 %

TABLE No. 11 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1													GRAIN YIELD % SUPERIORITY OVER THE PMH-3											
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ MEAN	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ MEAN
1	CMH10-555	1	3.2	1.3	11	-	-	28.2	-	15.6	-	10.8	3.3	-	14.9	27.3	-	-	2.6	-	32.5	-	-	42.2	24.1	-	7.5
2	CMH11-618	2.2	3.2	-	7.2	-	-	34	6.3	24.5	-	12.8	-	-	16.3	27.3	-	-	5.2	0.8	38.4	6.8	1.7	-	26.2	-	7.2
3	NMH-1247	11	15.3	-	15.8	-	-	50.2	28.8	29.2	-	31.1	31.1	10.5	26.3	42.3	-	-	13.4	18.4	55.2	29.4	5.6	14.6	46.8	18.5	19.6
4	PRMH-189	8.8	-	-	6.5	-	0.8	42.7	15.5	30	-	31.3	4.7	6.5	23.8	15.8	-	-	18.7	19.4	47.5	16.1	6.2	11.7	47	-	15.3
5	DMH 192	11.9	24.6	0.1	10.1	16.5	0.3	28.4	11.1	1.9	-	23.9	29.7	10.8	27.2	53.7	-	-	44.9	18.9	32.6	11.6	-	67.1	38.7	17.2	19.9
6	HT51412616	-	28.8	-	-	93.6	55.2	47.2	11.7	5.8	-	1.3	2.6	19.4	9.2	58.9	-	-	140.9	83.9	52.1	12.2	-	13	13.4	-	29.2
7	CMH12-663	6.9	3.7	5.2	12.5	-	-	24.4	13.5	5.4	-	10.6	8	1.6	21.6	27.9	-	-	23.2	9.2	28.5	14	-	4.5	23.9	-	9.9
8	DAS-MH-106	-	22.2	8.8	28.9	0.6	-	46.4	10.2	21.5	-	12.6	-	5.9	-	50.7	-	11.1	25.2	1	51.3	10.7	-	31.3	26.1	-	14.7
9	PM14101L	-	8.2	18.5	16.7	15.7	-	47.4	-	13.8	-	11.6	-	4.5	6.5	33.5	8.1	0.5	44	-	52.3	-	-	11.3	24.9	-	13.1
10	DKC9151(IN8902)	10.5	23.6	15.4	21.5	-	-	22.8	-	11.2	-	5.6	-	3.9	25.7	52.5	5.4	4.6	17.5	13.4	26.8	-	-	14	18.2	-	12.5
11	DKC9159(IN8570)	7.6	-	5	-	-	-	32	3.4	-	-	27.7	6.2	-	22.4	10.5	-	-	9.4	10.5	36.4	3.9	-	5.1	42.9	-	6
12	KH-2192	-	18.2	8	28.4	17.6	12.6	40.3	46.1	25.1	-	13	8.8	10.2	-	45.8	-	10.6	46.3	33.4	45	46.7	2.3	-	26.5	-	19.3
13	115-08-01	-	7.1	-	12.6	0.8	-	13	-	8.9	-	10.9	-	-	-	32.2	-	-	25.4	9.3	16.7	-	-	34.9	24.1	-	6.5
14	ADV 0990293	23.2	22.4	7.2	18.3	9.3	-	29.4	5.3	8.3	-	10.1	-	8.1	40.1	51	-	1.9	35.9	18.4	33.7	5.8	-	14.4	23.3	-	17
15	ADV 0990296	20.8	26.2	5.9	2	7	-	41.5	17.4	29.9	-	19.6	14	13	37.5	55.6	-	-	33.2	10.8	46.2	17.9	6.1	55.4	33.9	3	22.3
16	ADV 1190384	-	6.3	11.8	20.4	-	1.2	18.2	4	19.7	-	-	-	3.8	11.9	31.1	2	3.7	19.6	19.9	22.1	4.5	-	40	0.2	-	12.4
17	Super-1177	-	19.6	-	16.5	-	-	32.8	12.8	34.4	-	10.8	-	4	7.5	47.5	-	0.3	23.6	8	37.3	13.3	9.8	14.9	24.1	-	12.6
18	GK3118	2.7	-	-	14.9	-	3.4	17.6	18.3	-	-	-	8.7	0.4	16.8	18.6	-	-	20.7	22.5	21.5	18.8	-	31.6	7	-	8.7
19	KMH-3981	3.8	29.5	-	23.9	-	-	21	-	36.2	-	13.9	-	4	18	59.7	-	6.8	21.9	6.5	25	-	11.3	-	27.6	-	12.6
20	DMRH1308	1.7	-	5.7	15	8.2	10.5	17.8	13.2	33.3	-	17.2	7.3	7.9	15.7	16.5	-	-	34.6	30.9	21.7	13.7	8.9	25.6	31.2	-	16.8
21	HTMH 5108	-	30.1	6.3	4.6	83.4	56.8	44.6	-	26.9	-	20.8	-	22.8	2.5	60.5	-	-	128.1	85.8	49.4	-	3.7	26	35.3	-	33
22	X35D601	-	11	24	32.4	-	-	32.2	15.9	33.7	-	6.4	2.7	10.5	10.9	37	13.1	14	17.2	13.5	36.6	16.4	9.3	48.8	19.1	-	19.6
	CHECKS																										
23	PMH-1	-	-	-	-	-	-	-	-	-	-	-	-	-	13.8	23.4	-	-	24.4	18.5	3.3	0.4	-	68.1	12	-	8.2
24	PMH-3	-	-	9.6	16.1	-	-	-	-	22.4	-	-	10.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
25	Seedtech-2324	-	-	-	2.9	-	-	15.2	-	16.4	-	13.9	-	-	12.6	-	-	-	18	6.5	19	-	-	49.6	27.5	-	5
26	BIO-9681	-	-	-	13.9	0.6	-	-	-	1.5	-	-	-	-	5.8	2.4	-	-	25.1	7.1	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : RAHU 22.7 %

TABLE No. 11 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324												PZ MEAN	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681											PZ MEAN
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	
1	CMH10-555	2	32.5	15	7.9	-	-	11.4	12.6	-	-	-	18.3	2.4	8.6	24.3	5.1	-	-	-	56.3	29	13.8	65.7	31.8	31.2	12.8
2	CMH11-618	3.2	32.5	7.1	4.2	-	-	16.4	35.6	7	-	-	10.4	2.1	9.9	24.3	-	-	-	-	63.4	55.2	22.6	7.5	34	22.5	12.5
3	NMH-1247	12.2	48.1	12.5	12.6	-	11.1	30.4	64.3	11	-	15.1	50.2	13.9	19.4	38.9	2.8	1.7	-	10.5	83.1	88.1	27.2	33.6	55.8	66.6	25.5
4	PRMH-189	9.9	20.6	8.5	3.6	0.6	12.1	23.9	47.4	11.7	-	15.3	19.9	9.8	17	13.1	-	-	-	11.5	74	68.8	28	30.2	56.1	33	20.9
5	DMH 192	13	59.9	13.6	7	22.7	11.6	11.5	41.8	-	11.7	8.8	48.5	14.2	20.3	50.1	3.8	-	15.8	11	56.5	62.3	0.3	94.7	47.3	64.8	25.8
6	HT51412616	-	65.3	6.7	-	104	72.6	27.9	42.5	-	-	-	17.4	23	3.2	55.2	-	-	92.5	71.7	79.5	63.2	4.2	31.7	20.4	30.3	35.6
7	CMH12-663	8	33.1	19.4	9.4	4.3	2.5	8	44.8	-	-	-	23.6	4.7	15	24.9	9.2	-	-	2	51.6	65.7	3.8	21.8	31.5	37.2	15.3
8	DAS-MH-106	-	56.9	23.4	25.3	6.1	-	27.2	40.6	4.4	-	-	2.5	9.2	-	47.2	12.8	13.2	0.1	-	78.5	61	19.6	53	33.9	13.7	20.3
9	PM14101L	-	38.9	34.5	13.4	22	-	28	12.3	-	-	-	0.5	7.7	0.7	30.3	22.9	2.5	15.1	-	79.8	28.6	12.1	29.7	32.6	11.5	18.6
10	DKC9151(IN8902)	11.6	58.7	31	18.1	-	6.4	6.6	4.5	-	-	-	3.8	7.1	18.8	48.9	19.8	6.7	-	5.9	49.7	19.7	9.5	32.9	25.5	15.1	18
11	DKC9159(IN8570)	8.7	15	19.1	-	-	3.7	14.7	31.9	-	-	12.1	21.6	1	15.7	7.9	8.9	-	-	3.2	61	51	-	22.5	51.8	34.9	11.2
12	KH-2192	-	51.7	22.6	24.8	23.9	25.2	21.9	86.4	7.5	-	-	24.6	13.7	-	42.4	12.1	12.8	16.9	24.5	71.1	113	23.2	-	34.3	38.3	25.2
13	115-08-01	-	37.5	3	9.5	6.2	2.6	-	13.9	-	-	-	5	1.4	-	29.1	-	-	0.2	2	37.8	30.4	7.2	57.2	31.8	16.5	11.8
14	ADV 0990293	24.4	57.1	21.7	15	15.2	11.1	12.4	34.3	-	-	-	8.4	11.4	32.5	47.4	11.2	3.9	8.7	10.6	57.8	53.8	6.7	33.3	30.9	20.2	22.8
15	ADV 0990296	22.1	61.9	20.2	-	12.8	4	22.8	49.8	11.6	3.8	5.1	30.5	16.4	30	51.9	9.9	-	6.4	3.4	72.5	71.5	27.9	81.1	42.2	44.8	28.3
16	ADV 1190384	-	36.4	26.9	17.1	1.3	12.6	2.6	32.7	2.8	-	-	5.8	7	5.8	28	16	5.8	-	12	44.1	51.9	17.8	63.1	6.4	17.4	17.9
17	Super-1177	-	53.5	-	13.2	4.7	1.3	15.4	43.9	15.5	-	-	11.8	7.2	1.7	44	-	2.3	-	0.8	62	64.7	32.4	33.9	31.8	24	18.2
18	GK3118	3.7	23.4	12.1	11.7	2.3	15	2.1	50.9	-	-	-	24.5	3.5	10.4	15.8	2.5	0.9	-	14.4	43.4	72.8	-	53.3	13.6	38.1	14.1
19	KMH-3981	4.8	66.2	6	20.5	3.3	-	5	17.1	17	-	0.1	-	7.2	11.6	55.9	-	8.8	-	-	47.5	34.1	34.1	4	35.5	-	18.1
20	DMRH1308	2.8	21.2	20	11.8	14.1	22.9	2.3	44.4	14.5	-	2.9	22.8	11.2	9.4	13.7	9.7	1	7.6	22.2	43.6	65.3	31.3	46.4	39.4	36.3	22.6
21	HTMH 5108	-	67	20.6	1.6	93.3	74.4	25.6	18.7	9	-	6.1	0.3	26.6	-	56.7	10.2	-	82.3	73.5	76.3	35.9	24.9	46.8	43.6	11.3	39.5
22	X35D601	-	42.5	40.7	28.7	-	6.5	14.8	47.9	14.9	-	-	17.6	13.9	4.8	33.8	28.6	16.3	-	5.9	61.1	69.3	31.7	73.4	26.5	30.5	25.5
	CHECKS																										
23	PMH-1	1	28.4	13.5	-	5.4	11.2	-	27.6	-	12.4	-	14.5	3.1	7.6	20.4	3.7	-	-	10.6	21.9	46.1	-	95.9	18.9	27.1	13.6
24	PMH-3	-	4.1	24.4	12.9	-	-	-	27	5.2	-	-	26.7	-	-	-	13.7	2	-	-	18	45.4	20.5	16.5	6.2	40.6	4.9
25	Seedtech-2324	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-	-	-	-	40.4	14.5	14.6	74.4	35.4	11	10.2
26	BIO-9681	-	6.6	9.4	10.7	6	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : RAHU 22.7 %

Table No. 11 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %													MOISTURE % AT HARVEST											
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	CMH10-555	76.0	80.7	82.2	87.3	85.2	84.5	83.6	75.3	80.1	78.1	83.0	82.4	81.5	21.1	18.3	14.5	12.2	11.3	18.8	17.0	14.1	22.0	12.9	18.1	15.5	16.3
2	CMH11-618	75.5	80.7	81.4	88.1	84.2	85.1	82.1	77.8	82.8	77.8	82.2	83.2	81.7	22.7	19.9	17.5	12.8	16.1	19.4	17.4	13.7	20.8	18.3	18.9	15.5	17.7
3	NMH-1247	78.4	80.9	83.2	89.9	86.0	88.8	82.6	78.6	82.6	80.8	82.3	87.3	83.4	21.7	18.1	15.3	12.6	13.7	21.9	16.2	13.9	21.8	11.7	18.0	14.9	16.6
4	PRMH-189	77.3	78.2	82.9	89.5	86.1	90.5	82.3	79.5	82.9	80.1	82.8	88.8	83.4	21.0	16.4	12.5	12.6	11.5	8.2	16.0	14.1	22.4	18.4	18.4	16.2	15.6
5	DMH 192	81.1	81.0	83.7	91.2	85.0	89.8	83.9	78.6	79.7	79.8	82.1	86.2	83.5	23.6	21.2	17.7	12.7	12.7	14.5	17.7	14.0	25.1	11.8	18.3	15.0	17.0
6	HT51412616	78.1	83.1	82.6	89.2	89.9	90.4	83.3	77.4	82.1	77.2	84.1	84.5	83.5	20.9	20.6	17.3	13.5	14.1	15.7	16.1	14.1	23.8	13.8	18.6	16.0	17.0
7	CMH12-663	76.7	79.5	78.1	84.8	82.9	82.1	80.5	76.0	77.0	74.0	82.9	84.9	79.9	23.2	21.1	16.3	13.3	14.5	20.8	17.8	14.2	24.8	13.1	18.7	15.2	17.7
8	DAS-MH-106	77.7	79.6	83.3	90.8	87.5	86.5	84.9	80.4	83.0	79.2	80.9	84.7	83.2	20.4	21.4	13.2	13.3	13.6	11.8	15.7	15.6	23.8	12.1	18.1	16.1	16.2
9	PM14101L	74.4	82.3	82.7	87.1	87.2	86.0	81.4	76.4	81.8	78.9	80.0	85.4	81.9	22.2	20.9	18.1	13.8	14.6	17.4	17.1	14.9	22.8	13.1	17.8	17.3	17.5
10	DKC9151(IN8902)	76.7	82.7	84.0	88.3	85.8	82.0	83.9	73.6	80.6	77.9	81.4	84.8	81.8	21.4	19.4	14.4	12.1	18.6	17.4	15.9	13.8	22.0	12.6	20.5	17.4	17.1
11	DKC9159(IN8570)	77.5	82.1	84.0	86.6	84.9	87.0	81.9	78.9	82.0	78.3	83.8	86.0	82.7	21.6	21.4	16.2	13.6	13.9	22.6	16.8	15.1	23.9	12.8	18.2	15.6	17.6
12	KH-2192	75.7	81.3	82.1	88.1	85.2	86.5	82.6	79.6	79.1	78.9	79.8	84.3	81.9	23.7	20.9	15.3	12.3	11.1	15.3	16.2	13.2	23.8	11.6	18.9	16.5	16.6
13	115-08-01	75.8	80.7	83.5	87.9	85.4	86.6	83.1	76.5	80.6	79.8	79.4	86.3	82.1	20.9	19.7	17.1	12.9	13.7	18.8	17.8	14.4	24.5	12.2	18.4	13.0	16.9
14	ADV 0990293	82.6	81.1	83.2	89.2	87.0	89.1	83.0	77.4	82.3	79.9	79.3	88.7	83.6	24.1	22.1	16.8	14.2	15.2	20.3	16.5	14.4	23.4	17.9	19.3	13.2	18.1
15	ADV 0990296	79.8	81.4	83.6	89.0	88.6	90.6	83.7	78.3	82.8	80.5	77.5	88.5	83.7	21.4	22.2	21.2	16.9	17.8	20.7	17.3	14.2	23.9	19.1	19.5	14.5	19.1
16	ADV 1190384	81.0	81.5	83.7	90.4	85.9	88.1	83.4	77.9	82.9	78.9	79.7	85.7	83.2	20.7	20.8	17.3	13.8	18.9	19.8	18.0	14.4	24.4	12.5	20.0	17.3	18.1
17	Super-1177	75.7	81.9	83.0	87.3	83.6	85.0	82.6	75.6	82.0	77.9	80.8	86.1	81.8	21.6	18.8	16.6	13.8	16.9	15.1	18.7	14.6	21.0	15.7	17.8	16.3	17.2
18	GK3118	81.1	80.5	82.4	90.0	86.6	88.3	83.0	80.4	79.2	73.8	80.7	85.6	82.6	21.8	17.6	13.4	13.2	17.0	15.3	16.4	14.1	24.5	13.8	15.8	15.6	16.5
19	KMH-3981	74.8	80.3	83.1	88.3	85.3	81.5	83.1	74.1	80.0	74.5	80.0	83.6	80.7	22.4	20.7	12.4	12.2	11.0	19.1	16.1	14.9	19.2	18.3	18.7	16.7	16.8
20	DMRH1308	77.6	82.8	82.1	87.4	84.0	86.0	82.3	78.2	82.7	77.8	78.9	85.0	82.1	21.2	19.7	13.7	12.8	11.5	16.1	17.4	13.0	20.3	17.9	18.8	14.9	16.4
21	HTMH 5108	78.3	80.9	82.8	90.3	90.0	91.3	83.4	78.4	80.5	78.7	82.2	86.1	83.6	21.3	21.5	14.8	13.0	13.8	16.4	17.3	15.1	22.0	11.8	19.0	12.7	16.5
22	X35D601	76.9	81.8	83.3	91.3	88.6	83.6	82.6	81.4	82.7	80.9	80.7	86.0	83.3	21.0	19.1	14.9	12.8	16.5	17.6	16.2	13.4	23.6	15.8	18.6	13.8	16.9
	CHECKS																										
23	PMH-1	74.9	80.0	80.1	86.9	85.7	85.5	80.1	75.5	80.1	80.0	80.7	85.9	81.3	22.6	20.4	18.9	13.3	16.2	19.7	16.5	14.1	22.9	12.8	18.8	14.0	17.5
24	PMH-3	78.8	79.3	83.1	89.9	85.4	87.9	80.6	76.1	82.8	79.0	78.8	87.2	82.4	22.4	21.3	18.4	13.0	16.3	19.5	17.8	13.9	23.1	15.8	19.6	14.5	18.0
25	Seedtech-2324	75.4	79.5	82.2	89.5	86.3	88.8	82.9	78.2	81.0	80.4	80.6	86.1	82.6	21.8	20.2	15.8	12.8	17.6	18.4	17.3	14.8	20.9	17.8	17.7	13.3	17.3
26	BIO-9681	78.1	81.2	83.5	89.7	85.7	85.4	82.9	74.9	82.7	76.2	81.9	85.8	82.3	20.6	16.1	13.1	12.5	14.8	19.3	15.7	14.1	19.9	15.8	17.6	13.2	16.0
	Loc. Mean	**77.5**	**81.0**	**82.7**	**88.8**	**86.1**	**86.8**	**82.7**	**77.5**	**81.4**	**78.4**	**81.0**	**85.7**	**82.5**	**21.8**	**20.0**	**15.9**	**13.1**	**14.7**	**17.7**	**16.9**	**14.2**	**22.7**	**14.6**	**18.5**	**15.1**	**17.1**
	C.D. (5%)	2.69	1.64	0.87	3.67	1.51	1.93	1.41	1.78	0.76	1.80	3.11	2.66	1.24	1.07	1.89	1.34	1.47	4.14	4.22	0.53	1.31	0.84	0.77	1.90	1.52	1.35
	C.V. (%)	2.12	1.24	0.64	2.52	1.07	1.36	1.04	1.40	0.57	1.40	2.34	1.89	1.87	3.00	5.76	5.15	6.83	17.15	14.56	1.93	5.64	2.26	3.21	6.25	6.14	9.83
	F (Prob)	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.04	0.00	0.00

Table No. 11 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)													DAYS TO 50% POLLEN SHED											
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	CMH10-555	52.4	31.1	65.6	53.0	66.0	59.7	65.2	47.9	66.4	64.6	65.7	67.5	58.8	56.7	52.7	52.7	58.0	60.3	59.3	55.0	46.3	52.3	57.0	55.0	60.3	55.5
2	CMH11-618	51.3	31.7	52.4	52.8	63.4	69.2	62.4	52.5	66.4	62.2	65.6	58.6	57.4	56.7	52.7	52.3	59.0	60.3	42.3	54.3	47.0	52.0	57.7	54.7	54.3	53.6
3	NMH-1247	54.8	33.9	66.5	53.0	72.9	71.1	67.6	50.9	66.2	62.4	65.7	62.2	60.6	54.7	50.3	53.0	56.5	61.3	57.3	54.7	46.3	52.3	56.3	52.7	58.0	54.5
4	PRMH-189	53.3	32.2	62.4	48.4	67.8	69.2	67.1	50.5	66.0	63.9	65.7	81.1	60.6	53.7	52.3	52.7	55.0	60.7	58.0	53.3	46.7	53.0	52.7	52.0	59.7	54.1
5	DMH 192	55.0	33.6	62.8	50.2	84.0	68.3	61.7	52.5	66.4	64.6	65.7	73.1	61.5	58.0	52.3	52.7	60.0	60.7	58.7	54.7	47.0	53.0	53.7	54.3	67.3	56.0
6	HT51412616	49.4	33.9	66.7	48.6	96.5	95.8	59.5	54.9	66.4	64.8	66.3	74.2	64.8	58.0	52.3	54.7	61.5	60.3	61.3	55.3	49.7	54.0	56.3	53.3	58.0	56.2
7	CMH12-663	53.0	31.9	66.3	54.9	77.5	75.9	58.6	51.9	66.4	64.6	65.7	77.2	62.0	58.3	55.3	53.7	60.5	61.0	61.3	55.7	48.3	55.0	51.0	55.3	59.7	56.3
8	DAS-MH-106	59.6	32.8	61.3	56.0	80.3	70.4	65.2	52.1	66.4	60.0	66.5	82.5	62.8	55.7	52.7	51.7	59.5	63.0	60.0	54.3	47.3	52.0	50.3	52.7	54.7	54.5
9	PM14101L	52.4	32.2	65.6	52.3	75.0	63.4	62.1	51.4	66.7	60.2	66.7	74.7	60.2	59.7	55.3	55.3	59.0	59.0	62.0	56.0	47.3	53.0	53.3	57.0	60.7	56.5
10	DKC9151(IN8902)	57.2	33.1	55.4	55.3	70.6	64.1	59.8	49.5	66.4	63.9	65.4	82.2	60.2	56.7	55.3	54.0	59.5	60.3	61.7	55.0	49.7	57.0	54.0	55.0	62.3	56.7
11	DKC9159(IN8570)	57.8	32.2	65.7	56.0	80.1	71.3	67.9	50.7	66.7	63.1	65.2	80.8	63.1	56.7	53.3	53.7	60.0	62.3	61.3	55.0	49.3	52.0	55.0	54.3	61.7	56.2
12	KH-2192	50.0	31.7	62.6	50.7	70.8	61.3	62.4	52.5	66.7	60.9	65.9	74.2	59.1	54.7	50.3	52.0	57.5	62.0	58.3	53.7	47.7	54.0	50.7	54.0	57.0	54.3
13	115-08-01	51.7	32.5	66.3	55.3	70.6	68.3	61.0	52.8	66.7	62.6	65.4	68.6	60.1	58.3	53.0	53.3	57.0	59.0	60.0	54.3	50.0	52.0	51.0	55.0	62.0	55.4
14	ADV 0990293	61.5	31.9	66.7	54.6	78.2	74.3	62.9	55.6	66.4	63.9	66.5	85.3	64.0	57.7	55.0	55.3	61.5	62.0	62.0	56.0	48.0	54.3	56.0	57.3	58.3	57.0
15	ADV 0990296	59.1	32.2	59.6	47.0	79.2	69.7	62.9	53.2	66.7	64.8	66.1	72.5	61.1	57.7	53.3	54.0	59.5	60.7	62.0	55.3	50.0	54.0	56.3	55.0	55.3	56.1
16	ADV 1190384	59.3	32.8	66.5	52.8	83.1	66.4	58.3	53.2	66.2	60.9	65.6	84.7	62.5	58.7	54.0	54.7	61.0	61.7	62.7	56.0	47.0	54.3	55.0	56.0	58.7	56.6
17	Super-1177	54.3	32.8	56.1	52.1	69.2	63.4	61.0	50.2	66.4	57.0	65.6	66.7	57.9	54.0	50.0	52.7	55.0	59.7	57.0	53.0	46.3	53.7	54.0	55.3	60.0	54.2
18	GK3118	55.2	33.3	66.3	54.6	81.7	72.7	62.4	54.4	66.7	58.3	65.9	64.2	61.3	57.7	51.7	52.3	58.5	62.3	59.7	55.0	46.7	52.0	52.0	53.7	60.0	55.1
19	KMH-3981	56.5	33.6	60.0	54.6	65.0	65.7	61.7	56.7	66.7	62.0	66.3	72.2	60.1	58.0	53.7	55.0	61.5	62.0	62.3	55.7	48.3	54.3	54.0	55.3	63.3	57.0
20	DMRH1308	57.8	30.8	61.7	54.4	73.6	81.5	61.9	54.2	66.4	62.0	66.1	66.9	61.4	55.3	52.0	52.0	59.5	61.0	58.0	54.7	46.7	52.3	52.3	53.3	62.0	54.9
21	HTMH 5108	54.1	33.6	60.6	50.0	96.8	95.6	61.2	49.3	66.7	62.8	65.7	69.4	63.8	54.0	52.0	52.7	56.5	60.7	56.7	53.0	47.0	53.3	55.0	53.3	55.3	54.1
22	X35D601	57.4	32.8	65.0	52.5	71.5	75.5	61.2	51.6	66.7	62.6	65.7	78.1	61.7	58.3	54.0	54.0	60.0	63.0	62.3	55.3	50.3	55.0	56.0	54.7	62.0	57.1
	CHECKS																										
23	PMH-1	57.0	31.4	63.1	53.0	77.5	66.4	61.2	47.9	66.7	57.8	65.9	75.8	60.3	57.0	52.0	52.0	59.0	58.7	58.0	53.3	49.7	52.0	58.7	42.7	62.0	54.6
24	PMH-3	51.1	29.7	65.4	52.1	59.5	61.3	57.6	50.0	66.4	60.4	65.6	77.5	58.1	57.7	53.3	53.7	60.0	60.0	60.7	53.0	47.3	53.7	58.3	57.3	60.0	56.3
25	Seedtech-2324	52.8	31.1	57.0	52.3	71.8	74.1	63.3	47.9	66.4	62.4	65.7	76.7	60.1	57.3	54.0	52.7	59.5	59.0	58.7	53.3	47.3	52.7	58.0	52.0	58.0	55.2
26	BIO-9681	55.4	32.5	66.3	53.5	72.2	61.6	60.5	45.6	66.2	64.6	66.1	60.3	58.7	53.0	50.3	48.7	55.0	61.3	55.7	50.7	46.7	51.7	56.7	52.7	60.0	53.5
	Loc. Mean	**55.0**	**32.4**	**62.8**	**52.7**	**75.2**	**70.6**	**62.2**	**51.5**	**66.5**	**62.2**	**65.9**	**73.4**	**60.9**	**56.7**	**52.8**	**53.1**	**58.8**	**60.9**	**59.1**	**54.4**	**47.8**	**53.3**	**54.7**	**54.0**	**59.6**	**55.4**
	C.D. (5%)	4.34	2.38	2.60	6.07	13.25	14.29	3.85	3.92	0.50	2.94	0.90	21.04	3.63	1.98	0.99	1.05	1.74	3.80	10.35	1.35	1.49	0.86	1.51	6.01	5.97	1.56
	C.V. (%)	4.81	4.49	2.53	7.03	10.75	12.34	3.78	4.63	0.46	2.88	0.83	17.49	7.41	2.13	1.14	1.21	1.81	3.81	10.68	1.52	1.90	0.98	1.69	6.79	6.10	3.49
	F (Prob)	0.00	0.11	0.00	0.25	0.00	0.00	0.00	0.00	0.37	0.00	0.17	0.48	0.00	0.00	0.00	0.00	0.00	0.69	0.29	0.00	0.00	0.00	0.00	0.06	0.02	0.00

Table No. 11 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING													DAYS TO 75% DRY HUSK											
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean	HYDE	SHEG	KARI	VRDC	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	CMH10-555	57.3	54.7	54.7	59.0	61.7	59.7	55.3	50.3	54.3	60.0	59.7	62.0	57.4	100.3	90.0	94.7	102.5	100.7	95.3	93.7	98.7	81.0	119.3	86.0	96.6
2	CMH11-618	58.7	54.7	54.3	60.0	60.3	61.0	55.7	50.0	54.0	60.7	59.3	57.0	57.1	100.7	90.7	94.3	102.0	100.3	95.3	94.0	99.7	83.7	119.0	81.0	96.4
3	NMH-1247	56.7	52.3	54.7	58.5	61.7	57.3	55.0	49.3	54.3	59.0	59.3	60.3	56.5	98.7	90.0	94.7	102.5	98.0	95.7	94.0	100.0	83.0	119.7	82.3	96.2
4	PRMH-189	55.0	54.3	54.7	57.0	62.7	58.0	54.3	50.7	55.3	55.7	58.0	61.3	56.4	97.7	89.3	94.7	103.5	99.3	95.3	96.0	102.0	84.0	118.0	82.0	96.5
5	DMH 192	60.3	54.3	54.7	61.0	61.0	60.3	57.0	50.3	55.0	56.7	61.0	59.3	57.6	101.7	91.3	94.7	107.0	104.0	99.7	94.7	100.0	83.0	120.7	83.3	98.2
6	HT51412616	60.3	54.3	56.3	62.5	60.3	61.7	56.3	53.0	56.0	59.0	60.7	60.0	58.4	102.3	92.0	96.3	105.0	103.0	97.0	96.3	102.0	82.0	121.0	84.3	98.3
7	CMH12-663	60.3	57.3	56.3	62.0	61.7	62.3	57.3	51.7	57.0	54.0	60.7	61.3	58.5	102.3	94.0	96.3	106.0	101.0	101.7	95.3	101.7	83.0	120.3	84.3	98.7
8	DAS-MH-106	57.3	54.7	53.7	61.0	63.0	61.0	55.3	50.7	54.0	53.3	60.0	56.0	56.7	99.0	92.7	93.7	103.5	98.0	100.0	95.0	100.0	82.0	120.0	81.3	96.8
9	PM14101L	61.3	57.3	57.3	61.0	61.3	62.3	57.3	50.3	56.3	56.3	62.0	63.3	58.9	103.7	96.0	97.3	108.5	103.7	100.7	94.3	102.0	81.7	120.7	86.0	99.5
10	DKC9151(IN8902)	58.7	57.3	56.7	60.5	62.0	62.7	57.7	52.7	59.0	57.0	60.0	64.3	59.0	101.0	98.0	96.7	106.5	102.3	104.0	96.0	105.0	83.0	120.0	87.0	100.0
11	DKC9159(IN8570)	58.7	55.3	56.3	61.0	62.7	62.3	56.3	53.0	54.0	57.7	60.3	63.7	58.4	100.0	94.7	96.3	105.0	102.0	100.7	96.7	100.0	82.3	120.3	87.0	98.6
12	KH-2192	56.3	52.3	54.3	58.5	63.3	59.7	59.0	50.7	56.0	53.7	60.0	60.0	57.0	98.7	91.3	94.3	105.0	102.0	99.3	94.3	102.0	82.0	120.0	83.0	97.5
13	115-08-01	61.0	55.0	56.3	59.0	60.7	60.7	56.3	53.3	54.0	54.0	61.7	63.3	57.9	102.3	93.3	96.3	102.5	101.3	97.3	96.7	98.0	82.0	121.7	85.0	97.9
14	ADV 0990293	59.7	56.7	57.3	62.5	62.7	62.0	57.3	51.0	56.7	59.0	63.7	61.3	59.2	101.0	96.0	97.3	107.5	102.3	100.7	95.3	102.0	85.0	122.7	83.7	99.4
15	ADV 0990296	60.0	55.3	56.7	62.5	62.3	62.0	57.7	53.3	56.0	59.3	59.0	57.7	58.5	101.7	92.0	96.7	109.0	105.7	104.0	97.7	105.0	83.7	119.0	83.0	99.8
16	ADV 1190384	61.0	56.0	57.0	62.0	62.3	63.3	57.3	50.3	56.3	58.3	60.7	60.3	58.8	102.3	92.0	97.0	107.5	104.3	103.3	94.0	102.0	83.7	120.7	84.3	99.2
17	Super-1177	56.0	52.0	55.3	56.5	60.3	57.7	54.0	49.3	55.7	56.7	61.7	61.3	56.4	97.7	91.3	95.3	103.5	101.3	99.0	93.7	102.0	85.3	121.7	83.3	97.7
18	GK3118	60.0	53.7	54.7	59.5	63.0	59.7	56.0	49.7	54.3	55.0	60.3	61.3	57.3	102.0	91.3	94.7	103.5	103.3	97.3	92.7	100.0	84.3	120.3	84.7	97.7
19	KMH-3981	60.3	55.7	57.3	63.0	63.7	62.3	57.7	51.3	57.0	57.0	63.3	64.3	59.4	102.3	91.3	97.3	106.0	100.0	100.0	95.7	102.3	85.3	122.0	89.0	99.2
20	DMRH1308	57.7	54.0	54.0	60.0	61.7	58.0	56.0	50.0	55.0	55.3	57.3	63.0	56.8	99.3	91.3	94.0	107.5	103.3	100.3	93.7	100.0	84.0	117.3	88.0	98.1
21	HTMH 5108	56.0	55.3	55.0	58.0	61.7	57.7	54.0	51.3	55.3	58.0	58.7	57.3	56.5	98.0	92.0	95.0	105.0	103.3	104.7	94.7	101.0	82.7	118.7	82.0	97.9
22	X35D601	60.3	56.0	56.7	61.0	62.7	60.3	58.0	53.0	57.0	59.0	60.0	63.0	58.9	102.0	94.0	96.7	107.0	103.7	102.3	96.3	105.0	85.3	120.0	86.0	99.8
	CHECKS																									
23	PMH-1	59.0	54.0	54.0	61.5	61.0	58.3	55.0	52.7	54.3	61.7	58.3	64.7	57.9	101.0	90.0	94.0	103.5	96.0	95.3	96.3	98.7	82.3	118.3	88.7	96.7
24	PMH-3	59.7	56.0	56.3	61.0	60.0	61.3	56.3	51.0	55.7	61.3	63.0	62.0	58.6	102.0	92.0	96.3	103.5	99.7	96.0	95.0	101.3	82.3	122.0	87.3	98.0
25	Seedtech-2324	60.0	58.3	55.0	60.5	60.0	59.3	55.0	50.7	55.3	60.7	57.7	60.3	57.7	101.3	94.0	95.0	105.5	101.0	97.3	93.7	100.0	79.7	117.7	84.0	97.2
26	BIO-9681	55.0	52.3	51.3	57.0	62.7	56.0	52.3	49.7	53.7	59.7	59.0	61.3	55.8	97.0	87.3	91.3	98.5	97.3	95.7	94.0	99.3	83.3	119.0	86.7	95.4
	Loc. Mean	**58.7**	**55.0**	**55.4**	**60.2**	**61.8**	**60.3**	**56.1**	**51.1**	**55.4**	**57.6**	**60.2**	**61.2**	**57.8**	**100.6**	**92.2**	**95.4**	**104.9**	**101.4**	**99.2**	**95.0**	**101.1**	**83.1**	**120.0**	**84.7**	**98.0**
	C.D. (5%)	2.33	1.04	1.17	1.80	3.24	2.06	2.56	1.47	0.74	1.43	2.92	0.95	1.19	2.55	1.70	1.17	2.45	2.90	3.65	1.69	1.13	4.75	2.44	1.14	1.40
	C.V. (%)	2.42	1.16	1.29	1.82	3.19	2.09	2.78	1.76	0.81	1.51	2.95	0.94	2.57	1.54	1.13	0.75	1.43	1.74	2.25	1.09	0.68	3.48	1.24	0.82	1.71
	F (Prob)	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.85	0.00	0.00	0.00

Table No. 11 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)													EAR HEIGHT(cm)												
		HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	CMH10-555	235.0	221.3	202.7	140.0	215.3	215.5	234.0	198.1	216.2	235.9	220.0	188.3	210.2	99.0	121.3	98.7	66.9	110.7	113.0	119.0	92.4	123.4	83.8	131.3	93.7	104.4
2	CMH11-618	246.3	227.3	202.7	172.8	214.0	214.5	244.3	193.2	227.5	196.5	253.0	202.3	216.2	105.0	125.0	89.3	80.0	106.7	109.0	128.0	95.4	129.6	83.1	147.7	101.3	108.3
3	NMH-1247	225.0	220.7	180.0	160.3	214.0	210.5	233.0	194.5	205.6	234.7	242.3	204.0	210.4	90.3	123.0	74.3	70.6	102.0	107.0	122.3	93.9	112.2	85.0	145.7	104.0	102.5
4	PRMH-189	217.7	210.7	177.0	150.4	205.7	209.5	231.0	171.1	214.4	236.1	245.3	201.7	205.9	82.3	116.3	78.0	73.2	103.3	102.0	126.7	80.3	115.7	91.7	125.0	105.7	100.0
5	DMH 192	238.0	237.3	196.3	157.5	210.7	206.5	227.7	179.3	214.9	223.5	275.0	194.0	213.4	97.0	128.3	85.0	74.8	102.7	101.5	112.7	83.1	123.3	87.9	122.3	100.7	101.6
6	HT51412616	219.7	231.0	179.7	160.0	197.3	194.0	212.7	175.7	226.2	166.9	241.0	177.7	198.5	98.7	136.7	85.3	78.9	104.7	102.0	111.3	81.6	120.9	83.0	147.0	94.7	103.7
7	CMH12-663	237.3	239.7	215.3	161.8	227.0	218.5	251.0	195.1	244.7	230.7	249.3	197.7	222.3	101.7	140.0	98.7	77.0	110.7	119.0	135.7	85.9	138.4	91.2	156.7	103.3	113.2
8	DAS-MH-106	254.3	240.0	201.0	178.9	233.3	235.5	256.0	203.3	241.6	208.1	240.7	198.3	224.3	104.0	135.0	89.3	83.4	117.3	125.5	141.7	101.0	131.8	85.7	176.3	97.0	115.7
9	PM14101L	246.7	246.0	227.3	174.3	244.0	232.0	247.7	206.0	247.3	226.3	248.0	229.3	231.2	95.7	133.0	101.3	92.4	128.7	129.5	139.3	95.3	140.6	84.2	131.0	110.0	115.1
10	DKC9151(IN8902)	250.7	235.3	217.7	175.2	243.3	227.5	245.7	190.2	243.9	238.5	265.3	217.7	229.2	103.0	126.7	86.7	86.3	114.0	116.0	134.0	88.6	132.5	85.7	146.7	96.3	109.7
11	DKC9159(IN8570)	258.0	226.0	210.7	178.8	219.3	224.0	240.7	194.5	227.1	239.8	245.3	204.7	222.4	112.3	123.3	90.0	91.6	128.7	120.0	132.7	96.3	126.2	85.9	148.3	96.0	112.6
12	KH-2192	227.7	240.7	183.7	168.9	227.7	219.5	228.0	194.3	222.9	218.2	248.3	217.3	216.4	84.7	121.3	74.0	77.0	107.3	110.5	110.7	84.0	118.1	81.7	132.3	104.7	100.5
13	115-08-01	214.7	207.3	180.7	132.1	205.0	188.5	218.7	177.6	207.9	223.1	232.7	191.7	198.3	85.3	112.0	77.3	65.5	98.0	93.0	112.0	89.3	121.2	82.5	140.7	98.7	98.0
14	ADV 0990293	236.3	217.3	202.0	164.6	225.3	212.0	233.3	199.3	213.7	176.9	255.3	186.3	210.2	98.0	124.3	87.0	84.6	113.3	107.0	122.3	99.0	114.4	73.4	147.3	100.7	105.9
15	ADV 0990296	211.0	216.3	190.0	143.4	204.0	194.0	214.7	179.5	195.4	221.1	226.7	182.3	198.2	84.0	120.0	80.0	65.1	101.3	92.5	111.0	83.6	106.3	83.7	133.0	96.3	96.4
16	ADV 1190384	241.7	235.7	189.3	173.9	234.7	224.5	236.7	175.3	214.4	228.1	251.0	181.3	215.5	95.3	133.3	77.0	85.6	113.3	113.5	124.0	79.1	120.7	81.3	144.7	97.0	105.4
17	Super-1177	218.3	223.7	149.3	170.0	222.0	202.5	226.0	165.3	226.5	248.2	258.3	182.0	207.7	85.3	117.7	52.7	84.5	111.3	108.0	119.0	81.5	117.5	89.8	172.0	94.3	102.8
18	GK3118	242.7	251.7	189.7	159.9	230.7	224.5	243.0	187.9	218.8	225.0	268.7	213.3	221.3	88.3	123.3	71.3	76.7	114.7	103.5	124.3	81.4	117.9	80.2	135.3	99.3	101.4
19	KMH-3981	264.7	269.0	243.0	173.3	259.7	232.0	257.7	222.0	250.9	256.5	269.0	208.0	242.1	104.3	144.0	102.3	87.7	129.3	127.0	138.3	102.7	143.5	100.1	137.7	101.7	118.2
20	DMRH1308	231.3	217.0	206.0	161.4	224.7	218.0	236.0	174.6	228.1	221.7	247.0	210.3	214.7	94.3	110.3	90.0	77.8	106.0	113.0	119.7	82.3	124.0	94.9	136.0	106.7	104.6
21	HTMH 5108	205.0	196.0	179.7	140.9	195.7	193.5	230.7	167.0	189.2	186.9	236.0	180.7	191.8	81.3	106.3	84.3	65.4	96.0	95.5	116.0	74.9	97.4	80.0	129.7	100.7	94.0
22	X35D601	231.0	251.7	200.0	169.6	208.7	223.5	235.3	190.9	228.2	234.1	265.0	198.7	219.7	108.3	148.7	107.0	83.8	109.7	124.0	135.0	88.7	127.9	95.5	156.3	115.3	116.7
	CHECKS																										
23	PMH-1	242.3	262.7	206.7	179.8	239.3	236.0	247.0	191.5	232.9	253.3	236.3	217.7	228.8	109.0	165.7	103.0	84.3	126.7	138.5	138.0	92.6	134.0	108.2	146.0	113.0	121.6
24	PMH-3	249.3	259.3	203.3	158.9	225.3	221.0	242.3	182.3	239.5	221.9	263.3	200.0	222.2	110.0	150.7	99.3	81.8	120.7	111.5	133.7	84.7	139.2	86.3	143.3	118.0	114.9
25	Seedtech-2324	209.7	189.0	166.7	134.9	203.0	187.5	224.0	172.5	196.9	210.5	229.3	178.0	191.8	91.3	109.0	91.7	69.4	110.0	104.5	118.0	84.1	122.2	84.7	139.3	107.7	102.7
26	BIO-9681	228.3	227.3	191.3	158.8	227.7	205.0	220.3	172.9	227.4	246.8	283.3	184.3	214.5	85.0	109.3	73.0	77.6	108.0	86.5	108.3	74.9	111.1	93.6	140.7	103.7	97.6
	Loc. Mean	**233.9**	**230.8**	**195.8**	**161.6**	**221.4**	**214.2**	**235.3**	**186.7**	**223.2**	**223.4**	**249.8**	**198.0**	**214.5**	**95.9**	**127.1**	**86.4**	**78.5**	**111.3**	**110.5**	**124.4**	**87.6**	**123.5**	**87.0**	**142.8**	**102.3**	**106.4**
	C.D. (5%)	10.78	35.32	9.32	25.55	24.32	10.40	18.00	16.78	10.36	2.62	18.07	24.40	8.89	5.81	24.36	7.72	19.80	21.19	9.91	11.56	13.27	5.99	10.30	15.08	19.45	6.06
	C.V. (%)	2.81	9.33	2.90	9.64	6.70	2.96	4.67	5.48	2.83	0.72	4.41	7.51	5.16	3.70	11.69	5.45	15.38	11.60	5.47	5.67	9.24	2.96	7.22	6.44	11.59	7.08
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.21	0.09	0.00	0.00	0.00	0.00	0.00	0.00	0.60	0.00

TABLE No. 12 **PERFORMANCE OF MEDIUM MATRURING EXPERIMENTAL HYBRIDS AT HYDERABAD, SHEGAL F, KARIMNAGAR, VRDC KSSC, DHARWAD, ARBHAVI, MANDYA, VAGARAI, COIMBATORE, DHULE, PARBHANI, RAHURI IN AET1&2 TRIAL No. TR66Z4(AET1-M-PZ) AND TR70Z4(AET2-M-PZ) DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																										PZ MEAN	R
		HYDE	R	SHEG	R	KARI	R	VRDC	R	DHAR	R	ARBH	R	MAND	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R		
1	JH 31605	8044	6	9632	5	6553	4	7260	6	9769	6	9909	5	6772	9	6002	3	10806	4	6572	4	6553	5	3838	2	7642	5
2	BL 897	8980	4	10491	3	7056	2	6734	9	10499	2	10101	3	7783	7	4586	7	9711	6	6639	3	6744	4	3736	3	7755	4
3	JKMH 4848	9173	2	9818	4	6301	5	7094	7	9881	4	9936	4	8729	1	5480	4	12423	2	5669	8	7085	3	4182	1	7981	3
4	GK3120	7924	7	8380	7	5661	7	7532	2	9775	5	8370	7	8114	5	5465	5	10101	5	7565	1	5559	8	3731	4	7348	6
5	HTMH 5402	9114	3	10922	1	6672	3	6840	8	16855	1	16483	1	8177	4	6523	2	12746	1	6991	2	7409	1	3051	7	9315	1
6	DKC9144(IM8478)	10034	1	10863	2	7654	1	7340	5	9709	7	10350	2	8335	2	7780	1	11100	3	3452	9	7218	2	3238	5	8089	2
	CHECKS																										
7	HM-9	8590	5	8273	8	3755	9	7822	1	7733	8	6793	9	7908	6	4597	6	8197	9	6353	5	6484	6	2752	8	6605	9
8	BIO-9637	6310	9	8063	9	6197	6	7396	4	10089	3	7557	8	8178	3	4087	9	8946	8	6307	6	5632	7	2739	9	6792	7
9	PMH-4	6424	8	9262	6	5541	8	7407	3	6928	9	8921	6	7624	8	4531	8	9560	7	6021	7	5149	9	3228	6	6716	8
	Location Mean	**8288**		**9523**		**6155**		**7269**		**10138**		**9824**		**7958**		**5450**		**10399**		**6174**		**6426**		**3388**		**7583**	
	C.D. (5%)	1427		1002		620		1629		2191		1302		589		1121		818		1000		791		676		1097	
	C.V. (%)	9.89		6.05		5.79		12.88		12.42		7.62		4.25		11.82		4.52		9.31		7.07		11.47		-	
	F (Prob)	0		0		0		0.911		0		0		0.001		0		0		0		0		0.001			
	Plot Size	18		6		18		14.4		14.4		14.4		16.8		14.4		14.4		18		18		18		-	
	AGRONOMY DATA																										
	Sowing Date	27-06		10-07		19-07		3-07		3-08		15-07		29-07		13-07		9-07		29-07		4-07		22-07		-	
	Harvest Date	7-10		8-11		24-11		8-12		16-12		20-11		21-12		6-11		-		6-11		14-10		31-12		-	
	Irrigation Nos	4		-		8		3		2		6		7		11		-		-		-		-		-	
	Ferilizer Applied N	200		-		200		150		150		150		150		150		150		120		-		120		-	
	Ferilizer Applied P	60		-		60		75		75		75		75		75		75		60		-		60		-	
	Ferilizer Applied K	50		-		50		37.5		37.5		37.5		40		75		75		40		-		40		-	

TABLE No. 12 (Cont..)

Sl		GRAIN YIELD % SUPERIORITY OVER THE HM-9												PZ
No	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	MEAN
1	JH 31605	-	16.4	74.5	-	26.3	45.9	-	30.6	31.8	3.4	1.1	39.4	15.7
2	BL 897	4.5	26.8	87.9	-	35.8	48.7	-	-	18.5	4.5	4	35.7	17.4
3	JKMH 4848	6.8	18.7	67.8	-	27.8	46.3	10.4	19.2	51.6	-	9.3	51.9	20.8
4	GK3120	-	1.3	50.7	-	26.4	23.2	2.6	18.9	23.2	19.1	-	35.6	11.3
5	HTMH 5402	6.1	32	77.7	-	118	142.6	3.4	41.9	55.5	10	14.3	10.9	41
6	DKC9144(IM8478)	16.8	31.3	103.8	-	25.6	52.4	5.4	69.2	35.4	-	11.3	17.6	22.5
	CHECKS													
7	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-
8	BIO-9637	-	-	65	-	30.5	11.2	3.4	-	9.1	-	-	-	2.8
9	PMH-4	-	12	47.6	-	-	31.3	-	-	16.6	-	-	17.3	1.7

Sl		GRAIN YIELD % SUPERIORITY OVER THE BIO-9637												PZ
No	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	MEAN
1	JH 31605	27.5	19.5	5.8	-	-	31.1	-	46.8	20.8	4.2	16.3	40.1	12.5
2	BL 897	42.3	30.1	13.9	-	4.1	33.7	-	12.2	8.6	5.3	19.7	36.4	14.2
3	JKMH 4848	45.4	21.8	1.7	-	-	31.5	6.7	34.1	38.9	-	25.8	52.7	17.5
4	GK3120	25.6	3.9	-	1.8	-	10.8	-	33.7	12.9	19.9	-	36.2	8.2
5	HTMH 5402	44.4	35.5	7.7	-	67.1	118.1	-	59.6	42.5	10.8	31.5	11.4	37.2
6	DKC9144(IM8478)	59	34.7	23.5	-	-	37	1.9	90.3	24.1	-	28.1	18.2	19.1
	CHECKS													
7	HM-9	36.1	2.6	-	5.8	-	-	-	12.5	-	0.7	15.1	0.5	-
8	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-
9	PMH-4	1.8	14.9	-	0.1	-	18.1	-	10.8	6.9	-	-	17.8	-

Sl		GRAIN YIELD % SUPERIORITY OVER THE PMH-4												PZ
No	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	MEAN
1	JH 31605	25.2	4	18.3	-	41	11.1	-	32.5	13	9.1	27.3	18.9	13.8
2	BL 897	39.8	13.3	27.3	-	51.5	13.2	2.1	1.2	1.6	10.3	31	15.8	15.5
3	JKMH 4848	42.8	6	13.7	-	42.6	11.4	14.5	20.9	30	-	37.6	29.6	18.8
4	GK3120	23.4	-	2.2	1.7	41.1	-	6.4	20.6	5.7	25.6	8	15.6	9.4
5	HTMH 5402	41.9	17.9	20.4	-	143.3	84.8	7.3	44	33.3	16.1	43.9	-	38.7
6	DKC9144(IM8478)	56.2	17.3	38.1	-	40.1	16	9.3	71.7	16.1	-	40.2	0.3	20.4
	CHECKS													
7	HM-9	33.7	-	-	5.6	11.6	-	3.7	1.5	-	5.5	25.9	-	-
8	BIO-9637	-	-	11.8	-	45.6	-	7.3	-	-	4.7	9.4	-	1.1
9	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 12 (Continued)

GRAIN SHELLING %

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	80.3	80.4	84.0	89.9	85.7	87.2	82.1	76.5	83.6	77.9	80.9	85.7	82.8
2	BL 897	77.6	81.5	82.7	87.4	86.6	86.8	82.1	74.9	82.8	76.5	80.8	86.0	82.1
3	JKMH 4848	80.1	81.8	83.0	88.7	88.6	88.1	82.1	79.4	83.7	78.1	84.0	87.1	83.7
4	GK3120	74.4	82.5	82.2	89.1	87.5	88.5	84.3	76.5	82.6	75.2	76.3	86.8	82.1
5	HTMH 5402	83.2	81.0	82.7	87.4	89.9	89.9	79.8	80.4	83.2	77.8	82.1	88.3	83.8
6	DKC9144(IM8478)	79.3	81.3	82.8	88.2	85.0	85.6	78.8	79.8	81.1	74.0	81.5	83.2	81.7
	CHECKS													
7	HM-9	86.3	79.0	78.3	90.8	86.0	83.6	79.7	76.3	81.1	74.2	84.3	90.4	82.5
8	BIO-9637	70.9	80.9	83.6	89.4	86.6	86.5	81.4	75.6	82.9	79.5	82.3	87.6	82.2
9	PMH-4	75.3	82.5	82.3	87.4	89.8	88.8	82.8	77.0	81.9	77.4	78.1	87.7	82.6
	Loc. Mean	**78.6**	**81.2**	**82.4**	**88.7**	**87.3**	**87.2**	**81.4**	**77.4**	**82.5**	**76.7**	**81.1**	**87.0**	**82.6**
	C.D. (5%)	3.01	2.29	1.02	3.82	1.75	0.67	1.77	2.33	0.62	1.60	5.43	2.56	1.73
	C.V. (%)	2.21	1.63	0.71	2.49	1.16	0.45	1.26	1.74	0.43	1.20	3.87	1.70	2.57
	F (Prob)	0.00	0.10	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.22

MOISTURE % AT HARVEST

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	19.8	18.9	15.9	14.6	16.1	17.6	15.7	14.3	18.9	12.3	19.6	14.8	16.5
2	BL 897	21.6	19.9	15.0	11.8	15.7	16.4	15.8	14.1	18.2	12.7	19.9	14.4	16.3
3	JKMH 4848	21.9	16.9	13.0	14.1	13.0	17.0	14.0	14.0	20.3	12.0	18.6	14.8	15.8
4	GK3120	18.0	15.1	13.2	12.3	15.2	11.2	15.5	14.6	18.1	12.2	18.4	15.4	14.9
5	HTMH 5402	25.1	20.7	19.1	12.8	14.7	14.8	16.8	15.0	23.1	13.0	21.9	14.2	17.6
6	DKC9144(IM8478)	22.9	21.4	18.7	11.5	15.7	24.1	16.3	15.1	21.2	11.6	20.0	13.8	17.7
	CHECKS													
7	HM-9	19.3	18.7	13.6	12.6	14.7	15.0	14.0	14.1	18.9	11.0	18.7	14.5	15.4
8	BIO-9637	21.7	18.1	15.4	11.9	13.2	17.0	15.7	13.6	19.6	11.0	18.0	13.8	15.7
9	PMH-4	21.3	19.0	13.2	12.5	12.5	12.3	16.0	14.0	18.0	11.5	21.8	13.4	15.5
	Loc. Mean	**21.3**	**18.7**	**15.2**	**12.7**	**14.5**	**16.1**	**15.5**	**14.3**	**19.6**	**11.9**	**19.6**	**14.3**	**16.1**
	C.D. (5%)	2.17	1.92	1.22	2.21	2.75	3.72	0.71	0.62	0.93	0.95	1.92	1.14	1.24
	C.V. (%)	5.90	5.91	4.65	10.08	10.93	13.32	2.63	2.49	2.74	4.63	5.65	4.61	9.43
	F (Prob)	0.00	0.00	0.00	0.13	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00

Table No. 12 (Continued)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	48.5	66.7	59.6	50.5	66.7	62.7	51.6	54.4	66.4	63.0	66.1	63.0	59.9
2	BL 897	58.0	71.1	57.2	45.1	71.1	69.4	55.0	57.6	66.2	63.5	65.9	68.0	62.3
3	JKMH 4848	57.4	67.2	59.8	45.4	66.7	60.9	58.1	58.8	66.4	64.8	64.8	66.3	61.4
4	GK3120	52.6	67.8	57.2	45.6	71.8	60.4	56.9	62.7	66.2	63.9	65.2	64.6	61.2
5	HTMH 5402	60.4	65.6	55.7	46.5	83.8	83.1	57.3	59.5	66.7	63.3	65.9	55.0	63.6
6	DKC9144(IM8478)	58.1	66.1	65.0	48.8	70.8	67.8	60.1	61.3	66.2	64.6	66.5	70.4	63.8
	CHECKS													
7	HM-9	59.8	62.8	52.2	49.3	64.4	72.0	56.5	47.9	66.4	62.6	65.6	63.9	60.3
8	BIO-9637	54.6	63.9	57.4	47.0	69.4	61.3	60.5	53.2	66.4	61.9	65.9	62.6	60.4
9	PMH-4	48.9	66.1	51.7	48.8	53.2	60.9	56.0	56.5	66.2	63.7	65.9	53.9	57.6
	Loc. Mean	**55.4**	**66.4**	**57.3**	**47.5**	**68.6**	**66.5**	**56.9**	**56.9**	**66.4**	**63.5**	**65.8**	**63.1**	**61.2**
	C.D. (5%)	5.70	3.81	2.54	11.70	16.63	9.37	3.38	6.24	0.69	2.99	1.48	12.32	3.30
	C.V. (%)	5.95	3.32	2.56	14.25	13.99	8.14	3.43	6.33	0.60	2.72	1.30	11.28	6.65
	F (Prob)	0.00	0.02	0.00	0.97	0.10	0.00	0.00	0.00	0.84	0.55	0.45	0.16	0.01

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	55.0	48.7	51.3	56.0	56.3	55.7	51.7	47.3	50.0	48.3	52.7	55.7	52.4
2	BL 897	55.3	52.0	52.3	55.0	58.0	58.3	50.7	48.3	52.3	47.7	57.0	54.7	53.5
3	JKMH 4848	53.0	48.0	51.3	57.5	57.3	56.3	50.3	48.3	49.0	44.0	53.0	58.0	52.2
4	GK3120	52.7	50.0	51.7	58.5	57.0	55.3	50.7	48.0	50.3	41.7	55.7	53.0	52.0
5	HTMH 5402	55.0	49.7	51.7	57.5	54.3	59.3	53.0	48.7	52.0	43.3	54.0	52.3	52.6
6	DKC9144(IM8478)	55.0	51.7	51.7	54.5	55.7	60.0	52.3	49.0	52.0	44.7	54.0	61.7	53.5
	CHECKS													
7	HM-9	55.7	50.0	51.3	55.0	58.0	57.7	51.3	48.3	50.0	42.0	57.3	55.7	52.7
8	BIO-9637	55.3	50.3	52.3	55.0	56.7	57.0	52.3	47.0	49.3	44.3	54.0	55.0	52.4
9	PMH-4	55.0	50.0	51.7	56.0	56.3	56.3	50.0	48.0	51.7	43.0	56.7	54.7	52.4
	Loc. Mean	**54.7**	**50.0**	**51.7**	**56.1**	**56.6**	**57.3**	**51.4**	**48.1**	**50.7**	**44.3**	**54.9**	**55.6**	**52.6**
	C.D. (5%)	1.35	1.09	0.93	1.68	2.84	1.21	1.20	0.76	0.70	1.64	1.59	1.30	1.22
	C.V. (%)	1.43	1.26	1.04	1.73	2.90	1.22	1.35	0.92	0.79	2.14	1.67	1.35	2.86
	F (Prob)	0.00	0.00	0.21	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18

Table No. 12 (Continued)

DAYS TO 50% SILKING

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	56.3	50.7	53.3	57.5	57.0	55.3	52.7	50.3	52.0	51.0	60.7	57.7	54.5
2	BL 897	58.0	54.0	54.7	56.0	58.3	59.0	54.7	51.7	54.7	51.0	63.0	56.7	56.0
3	JKMH 4848	54.7	52.7	53.3	59.0	58.7	56.0	52.3	52.0	51.0	47.0	60.0	60.0	54.7
4	GK3120	54.7	52.0	54.3	60.0	59.0	55.3	52.7	51.0	53.0	44.7	63.3	56.0	54.7
5	HTMH 5402	57.0	51.7	54.0	58.5	55.7	59.3	55.7	52.3	54.0	46.3	61.7	56.0	55.2
6	DKC9144(IM8478)	57.3	53.7	54.0	55.5	56.0	60.3	55.0	53.0	54.7	47.3	62.0	61.3	55.8
	CHECKS													
7	HM-9	57.7	52.0	53.7	56.0	58.0	58.3	53.3	51.0	53.0	44.7	64.7	56.0	54.9
8	BIO-9637	57.7	52.3	54.7	56.0	57.3	59.0	53.3	50.0	52.3	47.3	62.0	56.7	54.9
9	PMH-4	57.0	52.0	53.7	57.5	57.7	56.7	52.3	51.0	53.7	45.7	65.3	56.3	54.9
	Loc. Mean	**56.7**	**52.3**	**54.0**	**57.3**	**57.5**	**57.7**	**53.6**	**51.4**	**53.1**	**47.2**	**62.5**	**57.4**	**55.1**
	C.D. (5%)	1.54	2.84	1.27	1.68	3.06	1.33	2.17	1.01	0.56	1.80	1.70	2.99	1.19
	C.V. (%)	1.56	3.14	1.36	1.70	3.08	1.33	2.34	1.14	0.61	2.20	1.57	3.01	2.66
	F (Prob)	0.00	0.39	0.24	0.00	0.33	0.00	0.03	0.00	0.00	0.00	0.00	0.01	0.18

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	94.0	89.3	88.3	98.0	97.7	91.7	91.7	90.0	79.3	106.7	81.7	91.7
2	BL 897	95.7	91.3	89.7	97.5	101.7	95.0	92.7	95.0	78.3	108.0	82.7	93.4
3	JKMH 4848	93.0	86.0	88.3	103.0	97.7	92.3	93.3	90.0	75.3	106.7	86.7	92.0
4	GK3120	93.3	88.0	89.3	100.0	98.3	93.0	93.0	95.0	71.7	106.0	78.7	91.5
5	HTMH 5402	95.3	90.0	89.0	99.0	102.0	93.0	94.3	98.0	74.7	105.7	73.3	92.2
6	DKC9144(IM8478)	95.3	91.3	89.0	98.0	103.3	93.0	95.3	95.3	75.3	108.0	87.7	93.8
	CHECKS												
7	HM-9	96.3	88.7	88.7	97.5	99.3	92.3	91.3	95.0	72.0	108.3	82.0	92.0
8	BIO-9637	95.7	91.3	89.7	98.0	98.0	93.0	92.3	95.0	76.0	107.0	81.3	92.5
9	PMH-4	94.7	92.0	88.7	99.5	99.0	91.7	92.7	95.7	73.3	107.0	80.0	92.2
	Loc. Mean	**94.8**	**89.8**	**89.0**	**98.9**	**99.7**	**92.8**	**93.0**	**94.3**	**75.1**	**107.0**	**81.6**	**92.4**
	C.D. (5%)	1.69	1.53	1.27	2.08	2.64	1.61	1.92	0.46	2.95	2.28	3.24	1.73
	C.V. (%)	1.03	0.98	0.82	1.21	1.53	1.00	1.19	0.28	2.27	1.23	2.29	2.21
	F (Prob)	0.01	0.00	0.24	0.00	0.00	0.02	0.01	0.00	0.00	0.24	0.00	0.15

Table No. 12 (Continued)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	230.7	247.0	168.3	171.7	226.7	216.5	213.3	185.0	208.8	212.3	241.4	185.7	209.0
2	BL 897	243.7	237.7	180.3	181.2	239.7	215.5	204.7	182.0	196.3	235.5	249.1	200.7	213.9
3	JKMH 4848	219.3	240.0	170.0	181.4	223.0	201.5	204.3	156.0	212.3	188.5	244.7	196.3	203.1
4	GK3120	218.7	225.0	165.7	181.1	230.0	198.0	192.0	157.7	194.9	224.9	243.8	194.0	202.1
5	HTMH 5402	209.3	224.3	154.0	179.7	231.7	212.0	179.7	179.5	228.1	211.2	230.7	193.3	202.8
6	DKC9144(IM8478)	220.7	240.7	164.7	170.7	231.3	209.5	209.7	156.0	224.2	227.9	233.3	196.0	207.1
	CHECKS													
7	HM-9	201.7	190.0	128.3	172.8	213.3	192.5	173.0	159.4	209.6	198.1	224.4	181.0	187.0
8	BIO-9637	230.0	242.7	181.3	182.9	232.7	217.0	204.7	165.7	198.5	230.1	240.0	206.0	211.0
9	PMH-4	208.0	216.7	150.0	180.0	216.0	183.0	202.7	152.7	208.9	214.3	226.3	172.0	194.2
	Loc. Mean	**220.2**	**229.3**	**162.5**	**177.9**	**227.1**	**205.1**	**198.2**	**166.0**	**209.1**	**215.9**	**237.1**	**191.7**	**203.3**
	C.D. (5%)	14.33	30.18	9.16	15.57	17.15	4.48	28.22	10.93	7.12	1.55	19.00	10.95	7.97
	C.V. (%)	3.76	7.60	3.26	5.06	4.36	1.26	8.22	3.80	1.97	0.41	4.63	3.30	4.83
	F (Prob)	0.00	0.02	0.00	0.58	0.09	0.00	0.09	0.00	0.00	0.00	0.13	0.00	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	JH 31605	91.3	132.3	88.3	84.6	106.3	107.0	104.0	99.0	119.3	75.7	131.7	113.0	104.4
2	BL 897	103.0	129.3	78.7	87.7	109.3	116.5	95.7	83.3	110.6	95.9	138.0	104.3	104.4
3	JKMH 4848	84.0	115.7	74.0	93.0	104.0	95.5	93.3	78.7	112.5	57.6	128.0	99.7	94.7
4	GK3120	85.0	109.3	64.7	93.3	92.7	93.5	85.3	75.3	99.8	62.6	114.4	86.3	88.5
5	HTMH 5402	88.0	119.3	69.0	86.4	108.0	105.0	84.3	74.0	108.6	85.0	127.2	100.3	96.3
6	DKC9144(IM8478)	95.7	135.3	84.7	89.9	122.7	106.5	100.3	86.0	116.3	81.2	135.7	107.0	105.1
	CHECKS													
7	HM-9	78.7	94.7	62.3	86.8	96.7	95.5	80.7	81.3	112.6	75.3	111.7	90.3	88.9
8	BIO-9637	90.3	131.7	73.7	91.0	118.7	109.0	98.0	90.0	104.4	87.7	126.6	109.0	102.5
9	PMH-4	83.3	116.0	71.7	90.2	107.0	94.0	96.7	73.0	112.7	83.5	118.8	88.7	94.6
	Loc. Mean	**88.8**	**120.4**	**74.1**	**89.2**	**107.3**	**102.5**	**93.1**	**82.3**	**110.8**	**78.3**	**125.8**	**99.9**	**97.7**
	C.D. (5%)	5.26	15.40	7.48	11.96	12.95	5.07	14.57	18.61	5.87	1.63	9.12	16.32	5.09
	C.V. (%)	3.42	7.39	5.83	7.75	6.98	2.86	9.04	13.06	3.06	1.20	4.19	9.44	6.42
	F (Prob)	0.00	0.00	0.00	0.78	0.00	0.00	0.04	0.14	0.00	0.00	0.00	0.03	0.00

TABLE No. 13: **PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT HYDERABAD, SHEGAL F. PATENCHERU, KARIMNAGAR, VRDC KSSC, DHARWAD, MANDYA, VAGARAI, COIMBATORE, DHULE, PARBHANI, ARBHAVI, RAHURI IN AVT1&2 TRIAL No. TR67Z4(AVT1-E-PZ) & TR71Z4(AVT2-E-PZ) DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
Sl No	PEDIGREE	HYDE	R	SHEG	R	KARI	R	VRDC	R	DHAR	R	ARBH	R	MAND	R	VAGA	R	COIM	R	DHUL	R	PARB	R	RAHU	R	PZ MEAN	R
1	AH9001	5762	3	8103	3	5694	3	7589	2	12088	1	5564	3	7090	4	5592	3	9369	3	4011	7	6892	3	5459	2	7219	3
2	FH 3605	6283	1	7817	4	6727	1	8368	1	10575	5	6741	1	7963	2	6314	1	10018	1	8036	1	8378	2	4365	6	8048	1
3	FH 3664	4662	5	8312	2	5860	2	6944	4	10743	4	5146	7	7584	3	5376	5	8420	5	6401	4	8567	1	5906	1	7287	2
4	SeedTech2324(Filler)	4649	6	7352	5	4884	6	7197	3	10983	3	5264	5	8721	1	5230	6	8191	6	7030	2	6392	5	4558	5	7063	4
5	Bio9681(Filler)	3592	7	8883	1	2296	7	5772	5	11539	2	5184	6	-	-	1524	7	7733	7	4097	6	4294	7	3407	7	5526	7
	CHECKS																										
6	PMH-5	5225	4	6807	7	4963	5	5014	7	9959	6	5497	4	5868	6	5419	4	9822	2	5982	5	6752	4	5022	4	6581	5
7	Parkash	6026	2	6990	6	5424	4	5143	6	8568	7	5837	2	6178	5	5618	2	8807	4	6439	3	6124	6	5310	3	6532	6
	Location Mean	**5171**		**7752**		**5121**		**6575**		**10637**		**5605**		**7234**		**5010**		**8909**		**5999**		**6771**		**4861**		**6894**	
	C.D. (5%)	985		1250		828		1723		3671		3306		801		437		453		551		739		2179		1144	
	C.V. (%)	10.6		8.97		9		14.58		19.21		**32.82**		7.17		4.85		2.83		5.11		6.07		**24.95**		**-**	
	F (Prob)	0		0.018		0		0.003		0.592		0.914		0		0		0		0		0		0.277			
	Plot Size	18		6		18		14.4		14.4		14.4		14		14.4		14.4		18		18		18		-	
	AGRONOMY DATA																										
	Sowing Date	27-06		10-07		29-06		2-07		3-08		15-07		29-07		21-07		16-07		29-07		4-07		22-07		-	
	Harvest Date	5-10		8-11		26-10		7-12		2-11		19-11		20-12		6-11		-		1-11		15-10		30-12		-	
	Irrigation Nos	4		-		7		3		3		6		7		10		-		-		-		-		-	
	Ferilizer Applied N	200		-		200		150		150		150		150		150		150		120		-		100		-	
	Ferilizer Applied P	60		-		60		75		75		75		75		75		75		60		-		50		-	
	Ferilizer Applied K	50		-		50		37.5		37.5		37.5		40		75		75		40		-		30		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : ARBH 32.8 %: RAHU 24.9 %

TABLE No. 13 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PMH-5

Sl No	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ MEAN
1	AH9001	10.3	19	14.7	51.3	21.4	1.2	20.8	3.2	-	-	2.1	8.7	9.7
2	FH 3605	20.2	14.8	35.5	66.9	6.2	22.6	35.7	16.5	2	34.3	24.1	-	22.3
3	FH 3664	-	22.1	18.1	38.5	7.9	-	29.3	-	-	7	26.9	17.6	10.7
4	SeedTech2324(Filler)	-	8	-	43.5	10.3	-	48.6	-	-	17.5	-	-	7.3
5	Bio9681(Filler)	-	30.5	-	15.1	15.9	-	-	-	-	-	-	-	-
	CHECKS													
6	PMH-5	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Parkash	15.3	2.7	9.3	2.6	-	6.2	5.3	3.7	-	7.7	-	5.7	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : ARBH 32.8 %: RAHU 24.9 %

GRAIN YIELD % SUPERIORITY OVER THE Parkash

Sl No	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ MEAN
1	AH9001	-	15.9	5	47.5	41.1	-	14.8	-	6.4	-	12.5	2.8	10.5
2	FH 3605	4.3	11.8	24	62.7	23.4	15.5	28.9	12.4	13.7	24.8	36.8	-	23.2
3	FH 3664	-	18.9	8	35	25.4	-	22.8	-	-	-	39.9	11.2	11.6
4	SeedTech2324(Filler)	-	5.2	-	39.9	28.2	-	41.2	-	-	9.2	4.4	-	8.1
5	Bio9681(Filler)	-	27.1	-	12.2	34.7	-	-	-	-	-	-	-	-
	CHECKS													
6	PMH-5	-	-	-	-	16.2	-	-	-	11.5	-	10.3	-	0.8
7	Parkash	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : ARBH 32.8 %: RAHU 24.9 %

Table No. 13 (Continued)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	59.4	61.1	60.6	52.8	79.4	48.4	65.2	55.6	66.7	61.9	66.5	56.5	62.3
2	FH 3605	53.3	62.8	56.1	50.7	72.0	64.4	66.0	56.3	66.7	58.1	65.7	47.8	59.6
3	FH 3664	59.1	65.6	62.6	48.4	76.9	58.3	65.7	56.3	66.0	61.9	65.9	55.0	62.1
4	SeedTech2324(Filler)	62.2	63.9	52.0	53.0	74.5	46.3	63.1	44.4	66.7	61.1	66.3	58.9	60.6
5	Bio9681(Filler)	26.5	61.7	18.0	29.6	50.5	64.6	-	10.6	66.2	62.6	51.1	28.7	40.5
	CHECKS													
6	PMH-5	58.1	67.2	57.8	53.5	77.3	61.1	58.3	54.4	66.2	63.9	66.3	61.1	62.2
7	Parkash	56.5	60.0	54.4	51.6	75.9	46.1	59.3	53.7	66.7	62.2	65.9	52.2	59.9
	Loc. Mean	**53.6**	**63.2**	**51.6**	**48.5**	**72.4**	**55.6**	**62.9**	**47.3**	**66.4**	**61.7**	**64.0**	**51.5**	**58.2**
	C.D. (5%)	2.98	4.02	3.70	6.80	11.64	30.53	4.10	4.36	0.35	3.75	1.46	0.81	5.38
	C.V. (%)	3.13	3.58	4.02	7.88	9.04	30.87	3.31	5.17	0.29	3.42	1.29	0.89	10.84
	F (Prob)	0.00	0.02	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.13	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : ARBHAVI 30.9%

GRAIN SHELLING %

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	76.5	83.6	83.4	90.3	85.4	84.3	78.5	80.3	82.2	74.8	81.8	85.3	82.2
2	FH 3605	82.5	82.5	81.4	91.1	83.7	84.0	80.5	78.3	83.1	77.7	81.9	85.6	82.7
3	FH 3664	61.5	81.4	82.8	89.2	86.8	84.6	80.5	77.2	82.9	71.8	81.8	84.2	80.4
4	SeedTech2324(Filler)	78.1	80.4	80.8	90.6	83.5	86.6	81.0	76.1	82.1	75.4	80.8	84.6	81.7
5	Bio9681(Filler)	83.4	80.7	82.5	91.6	83.4	87.0	-	76.3	78.6	72.1	76.1	86.9	81.7
	CHECKS													
6	PMH-5	78.0	82.2	82.3	89.1	84.8	73.0	80.5	77.5	82.8	74.2	81.4	84.3	80.8
7	Parkash	82.1	81.9	82.1	90.7	88.9	85.8	82.5	77.2	81.6	75.5	78.8	92.3	83.3
	Loc. Mean	**77.4**	**81.8**	**82.2**	**90.4**	**85.2**	**83.6**	**80.6**	**77.5**	**81.9**	**74.5**	**80.4**	**86.1**	**81.8**
	C.D. (5%)	10.27	2.53	1.43	3.12	1.42	7.96	1.20	1.88	0.81	0.76	2.73	2.92	2.42
	C.V. (%)	7.45	1.74	0.98	1.94	0.94	5.35	0.76	1.36	0.56	0.57	1.91	1.91	3.64
	F (Prob)	0.01	0.18	0.03	0.56	0.00	0.03	0.00	0.01	0.00	0.00	0.00	0.00	0.24

Table No. 13 (Continued)

MOISTURE % AT HARVEST

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	19.6	18.1	17.4	12.8	19.5	16.1	13.1	15.3	20.1	18.0	16.9	12.9	16.6
2	FH 3605	21.7	19.9	20.6	12.7	22.9	17.9	15.1	15.5	19.0	18.0	18.8	13.6	18.0
3	FH 3664	18.1	16.5	15.6	12.9	24.7	20.7	12.4	15.0	18.0	17.9	17.0	13.5	16.9
4	SeedTech2324(Filler)	23.1	20.1	19.8	13.3	23.1	20.0	14.8	14.1	21.5	11.5	19.4	13.6	17.8
5	Bio9681(Filler)	23.7	22.0	22.4	13.0	22.8	16.5	-	15.0	19.0	10.8	21.9	12.2	18.1
	CHECKS													
6	PMH-5	19.0	12.2	16.0	12.2	20.1	12.7	14.7	14.1	19.3	10.8	17.8	13.7	15.2
7	Parkash	20.5	15.7	15.3	12.7	21.3	19.0	12.9	14.3	18.7	11.0	17.8	13.3	16.0
	Loc. Mean	**20.8**	**17.8**	**18.1**	**12.8**	**22.0**	**17.5**	**13.8**	**14.7**	**19.3**	**14.0**	**18.5**	**13.2**	**16.9**
	C.D. (5%)	0.83	1.59	1.36	0.86	5.64	3.21	0.70	0.83	0.29	1.09	1.64	0.91	1.60
	C.V. (%)	2.24	5.04	4.23	3.79	14.39	10.30	2.59	3.18	0.83	4.37	4.99	3.88	11.56
	F (Prob)	0.00	0.00	0.00	0.28	0.46	0.00	0.00	0.01	0.00	0.00	0.00	0.04	0.00

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	47.0	46.3	48.7	51.5	50.0	57.3	46.3	46.3	45.0	45.3	47.7	55.3	48.9
2	FH 3605	47.7	48.0	48.0	52.0	50.0	54.7	46.7	48.3	45.7	43.3	47.7	52.3	48.7
3	FH 3664	47.0	47.3	48.7	51.5	50.0	55.7	46.3	46.7	45.3	43.7	47.7	50.0	48.3
4	SeedTech2324(Filler)	54.0	50.7	54.3	52.0	56.0	57.0	50.3	53.0	52.0	47.7	50.3	56.0	52.8
5	Bio9681(Filler)	52.7	56.0	58.3	59.0	59.0	53.0	-	56.7	53.7	44.7	52.7	53.0	54.4
	CHECKS													
6	PMH-5	47.7	48.0	49.0	51.0	49.0	53.7	46.3	50.3	45.0	44.0	48.0	50.7	48.6
7	Parkash	46.0	46.3	48.3	52.0	50.3	60.3	46.3	46.3	44.7	45.0	48.7	47.0	48.4
	Loc. Mean	**48.9**	**49.0**	**50.8**	**52.7**	**52.0**	**56.0**	**47.1**	**49.7**	**47.3**	**44.8**	**49.0**	**52.0**	**50.0**
	C.D. (5%)	1.23	1.03	1.35	1.24	1.94	6.28	1.17	1.25	0.87	1.21	2.07	2.31	1.68
	C.V. (%)	1.41	1.18	1.50	1.33	2.10	6.31	1.27	1.41	1.03	1.51	2.37	2.49	4.13
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 13 (Continued)

DAYS TO 50% SILKING

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	49.0	48.3	50.3	53.0	51.3	57.0	48.7	49.3	47.3	48.3	55.0	57.0	51.2
2	FH 3605	49.7	50.0	49.7	53.5	51.3	55.3	48.7	51.7	48.0	45.3	56.7	54.0	51.2
3	FH 3664	48.7	49.3	50.0	53.0	50.7	56.3	48.3	50.7	48.0	46.0	55.0	52.0	50.7
4	SeedTech2324(Filler)	56.0	52.7	57.0	54.0	57.3	59.0	53.3	56.7	55.7	50.7	56.7	58.0	55.6
5	Bio9681(Filler)	54.7	58.0	60.3	60.5	59.0	53.3	-	60.0	57.3	47.0	62.3	53.0	56.9
	CHECKS													
6	PMH-5	50.3	50.0	50.7	52.5	50.3	54.0	48.0	53.0	48.0	46.3	56.3	51.0	50.9
7	Parkash	47.7	48.3	50.0	53.5	51.3	61.0	48.0	49.7	47.7	47.3	56.0	49.0	50.8
	Loc. Mean	**50.9**	**51.0**	**52.6**	**54.3**	**53.0**	**56.6**	**49.2**	**53.0**	**50.3**	**47.3**	**56.9**	**53.4**	**52.5**
	C.D. (5%)	1.54	1.03	1.30	1.53	1.97	6.59	1.29	1.09	1.04	1.59	1.58	1.60	1.77
	C.V. (%)	1.71	1.13	1.39	1.58	2.09	6.55	1.34	1.15	1.16	1.89	1.57	1.68	4.15
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	80.7	86.0	80.3	100.0	95.3	91.0	91.3	87.3	76.3	95.0	84.7	88.0
2	FH 3605	81.3	91.3	79.7	99.0	95.3	90.3	93.7	88.0	73.3	96.7	74.7	87.6
3	FH 3664	81.0	91.3	80.0	98.5	95.0	91.0	92.7	90.0	73.7	95.3	73.0	87.4
4	SeedTech2324(Filler)	87.0	92.7	87.0	102.5	94.3	92.3	97.3	97.7	79.7	97.7	80.0	91.7
5	Bio9681(Filler)	86.0	96.0	90.3	106.0	89.3	-	101.7	98.0	75.0	106.0	75.7	92.4
	CHECKS												
6	PMH-5	82.0	86.0	80.7	97.5	90.3	89.0	95.0	88.7	73.7	96.3	76.7	86.9
7	Parkash	79.3	88.0	80.0	99.0	95.0	91.0	92.0	90.0	75.7	97.7	68.0	86.9
	Loc. Mean	**82.5**	**90.2**	**82.6**	**100.4**	**93.5**	**90.8**	**94.8**	**91.4**	**75.3**	**97.8**	**76.1**	**88.7**
	C.D. (5%)	1.31	1.42	1.30	0.99	9.88	2.63	1.27	0.94	3.22	2.08	4.38	2.38
	C.V. (%)	0.89	0.88	0.88	0.55	5.94	1.47	0.75	0.58	2.40	1.19	3.24	3.15
	F (Prob)	0.00	0.00	0.00	0.00	0.70	0.17	0.00	0.00	0.01	0.00	0.00	0.00

Table No. 13 (Continued)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	173.0	189.0	150.7	150.5	202.3	197.0	167.7	166.7	188.8	181.7	211.7	177.7	179.7
2	FH 3605	196.7	203.0	157.7	142.3	199.3	153.5	179.0	173.7	185.6	178.3	214.4	178.0	180.1
3	FH 3664	186.7	212.0	159.0	152.5	217.0	184.0	173.7	166.0	195.3	182.3	239.4	186.7	187.9
4	SeedTech2324(Filler)	214.0	231.0	186.7	166.5	223.0	199.0	193.0	182.3	199.3	171.2	251.1	200.3	201.5
5	Bio9681(Filler)	220.7	251.7	192.0	175.0	248.3	172.5	-	176.3	211.7	206.3	255.8	208.7	210.8
	CHECKS													
6	PMH-5	191.3	220.7	169.0	154.1	218.0	155.5	183.0	176.0	187.5	200.7	226.8	185.7	189.0
7	Parkash	184.3	209.7	168.3	146.0	207.3	218.5	168.0	177.7	202.5	197.8	238.9	189.3	192.4
	Loc. Mean	**195.2**	**216.7**	**169.0**	**155.3**	**216.5**	**182.9**	**177.4**	**174.1**	**195.8**	**188.3**	**234.0**	**189.5**	**191.6**
	C.D. (5%)	16.70	12.70	10.43	17.50	27.38	21.69	22.40	10.05	6.31	40.06	13.05	15.36	9.03
	C.V. (%)	4.81	3.29	3.47	6.34	7.11	6.67	6.43	3.25	1.81	11.96	3.13	4.56	5.78
	F (Prob)	0.00	0.00	0.00	0.02	0.03	0.00	0.14	0.04	0.00	0.45	0.00	0.01	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	HYDE	SHEG	KARI	VRDC	DHAR	ARBH	MAND	VAGA	COIM	DHUL	PARB	RAHU	PZ Mean
1	AH9001	60.0	104.7	68.3	56.5	102.7	101.5	78.3	66.3	91.8	68.5	113.3	85.7	83.1
2	FH 3605	63.3	106.3	75.7	59.8	91.7	72.0	82.0	76.3	104.2	62.1	120.7	88.3	83.5
3	FH 3664	67.0	110.3	80.3	69.0	103.0	85.0	81.7	75.0	103.2	63.2	120.0	90.0	87.3
4	SeedTech2324(Filler)	72.7	116.7	83.3	76.2	104.7	84.5	91.3	78.7	105.6	82.4	134.4	95.3	93.8
5	Bio9681(Filler)	80.7	128.0	84.3	86.0	110.7	88.0	-	85.7	122.8	64.3	138.3	91.3	98.2
	CHECKS													
6	PMH-5	80.3	112.3	70.7	64.6	104.3	78.0	87.0	77.3	94.2	86.1	122.8	94.0	89.3
7	Parkash	71.3	114.7	85.3	56.2	102.0	110.0	81.7	86.7	119.4	79.1	136.7	106.0	95.8
	Loc. Mean	**70.8**	**113.3**	**78.3**	**66.9**	**102.7**	**88.4**	**83.7**	**78.0**	**105.9**	**72.2**	**126.6**	**93.0**	**90.2**
	C.D. (5%)	8.63	9.93	7.45	21.04	14.68	13.00	16.46	5.67	5.39	1.10	10.03	21.61	5.75
	C.V. (%)	6.86	4.93	5.35	17.68	8.04	8.26	10.01	4.09	2.86	0.85	4.45	13.07	7.82
	F (Prob)	0.00	0.00	0.00	0.07	0.29	0.00	0.50	0.00	0.00	0.00	0.00	0.53	0.00

TABLE No. 14 **PERFORMANCE OF LATE & MEDIUM MATURING EXPERIMENTAL HYBRIDSAT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA, BHILODA, DAHOD, RAIPUR, JAGDALPUR, UJJAIN, KOTA IN AET 1 TRIAL No. TR6566Z5 (AET1-LM-CWZ) DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																								CWZ MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGD	R	UJJA	R	KOTA	R		
1	JH 13270	7678	2	7454	3	10216	5	8474	13	12409	1	4616	12	6121	5	6577	9	6723	14	6114	15	3750	7	7498	5	7303	7
2	JH 13252	7133	5	6641	11	9728	8	11162	7	10424	7	5722	6	6165	4	7571	2	7553	10	6973	6	4007	4	6608	9	7474	5
3	JH 13282	7623	3	6381	14	10420	4	10310	10	10454	6	6013	2	5490	11	6854	7	7579	9	6502	12	4179	2	7514	4	7443	6
4	JH 12010	8106	1	6664	10	9212	12	8390	15	9780	9	4899	9	5153	13	6192	12	6528	16	5987	16	3086	17	7328	6	6777	13
5	HT 51412607	5913	10	7294	5	9065	13	12225	4	12047	2	4323	14	6613	3	7049	5	7134	11	6874	7	3770	6	4893	16	7267	8
6	DKC9151(IN8902)	6027	9	8619	1	10041	7	13338	1	7738	16	5252	7	5930	9	7159	4	7899	3	6839	8	4410	1	8038	1	7607	4
7	KH-2192	6448	8	6454	13	10118	6	13051	2	11804	3	5235	8	5958	8	6882	6	7939	2	7002	5	4056	3	7320	7	7689	2
8	ADV 0990296	7034	7	7002	7	10452	3	12940	3	10473	5	3846	16	7153	1	8886	1	7894	4	8075	2	3516	11	7820	3	7924	1
9	VNR-4325	5219	13	6273	16	9034	14	8195	16	8251	13	3130	17	5519	10	6295	11	7020	12	7196	3	3389	14	6591	10	6343	16
10	HT51412607	7365	4	6858	9	10574	2	11442	6	10617	4	4214	15	6637	2	7264	3	7656	6	8331	1	3432	13	7021	8	7618	3
	CHECKS																										
11	HM-9	5141	14	6505	12	6960	17	6915	17	7046	17	4652	11	3877	17	3987	17	5328	17	5602	17	3628	10	4551	17	5349	17
12	BIO-9637	4450	16	6036	17	9291	10	10803	8	8494	11	5802	4	4728	15	5433	16	8172	1	7076	4	3305	15	5582	14	6598	14
13	PMH-4	5666	11	7998	2	8770	15	8443	14	10154	8	5984	3	4731	14	6773	8	6949	13	6604	11	3480	12	6531	13	6840	11
14	PMH-1	4482	15	6294	15	11432	1	9638	12	8318	12	5769	5	6013	7	6434	10	7707	5	6319	14	3669	8	6565	11	6887	10
15	PMH-3	7060	6	7339	4	9620	9	10081	11	8764	10	4655	10	6111	6	5502	15	6682	15	6774	9	3638	9	6551	12	6898	9
16	Seedtech-2324	3989	17	7217	6	9225	11	11586	5	7946	15	4434	13	5485	12	5709	13	7647	8	6692	10	3849	5	7956	2	6811	12
17	BIO 9681	5479	12	6860	8	8119	16	10722	9	8178	14	6037	1	4692	16	5613	14	7655	7	6435	13	3279	16	5509	15	6548	15
	Location Mean	**6166**		**6935**		**9546**		**10454**		**9582**		**4976**		**5669**		**6481**		**7298**		**6788**		**3673**		**6699**		**7022**	
	C.D. (5%)	573		617		1467		1518		376		534		950		339		809		923		155		1215		790	
	C.V. (%)	5.58		5.34		9.23		8.72		1.84		6.44		10.07		3.14		6.65		8.16		2.53		10.89		-	
	F (Prob)	0		0		0		0		0		0		0		0		0		0		0		0			
	Plot Size	9.6		9.6		12		12		9.6		12		12		10		12		12		12		9.6		-	
	AGRONOMY DATA																										
	Sowing Date	26-06		5-07		9-07		2-07		3-07		18-07		2-07		1-07		5-07		2-07		14-07		6-07		-	
	Harvest Date	10-10		24-10		15-11		-		1-10		3-11		15-10		19-10		-		-		15-11		24-10		-	
	Irrigation Nos	3		1		-		-		3		-		-		2		-		-		-		1		-	
	Ferilizer Applied N	120		150		120		120		100		120		-		100		120		120		100		90		-	
	Ferilizer Applied P	90		80		60		60		50		60		-		50		60		60		60		30		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-		40		40		40		-		-	

LOCATIONS REJECTED DUE TO LOW YIELD (i.e.<1506kg/ha) and LOW PLANT STAND: INDORE 1353_ kg/ha

TABLE No. 14 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9													GRAIN YIELD % SUPERIORITY OVER THE BIO-9637											
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ MEAN	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ MEAN
1	JH 13270	49.3	14.6	46.8	22.5	76.1	-	57.9	64.9	26.2	9.1	3.4	64.8	36.5	72.6	23.5	10	-	46.1	-	29.5	21.1	-	-	13.5	34.3	10.7
2	JH 13252	38.7	2.1	39.8	61.4	47.9	23	59	89.9	41.8	24.5	10.4	45.2	39.7	60.3	10	4.7	3.3	22.7	-	30.4	39.4	-	-	21.2	18.4	13.3
3	JH 13282	48.3	-	49.7	49.1	48.4	29.2	41.6	71.9	42.3	16.1	15.2	65.1	39.1	71.3	5.7	12.2	-	23.1	3.6	16.1	26.2	-	-	26.4	34.6	12.8
4	JH 12010	57.7	2.4	32.4	21.3	38.8	5.3	32.9	55.3	22.5	6.9	-	61	26.7	82.2	10.4	-	-	15.1	-	9	14	-	-	-	31.3	2.7
5	HT 51412607	15	12.1	30.2	76.8	71	-	70.6	76.8	33.9	22.7	3.9	7.5	35.8	32.9	20.8	-	13.2	41.8	-	39.9	29.8	-	-	14.1	-	10.1
6	DKC9151(IN8902)	17.2	32.5	44.3	92.9	9.8	12.9	53	79.5	48.3	22.1	21.5	76.6	42.2	35.4	42.8	8.1	23.5	-	-	25.4	31.8	-	-	33.4	44	15.3
7	KH-2192	25.4	-	45.4	88.8	67.5	12.5	53.7	72.6	49	25	11.8	60.8	43.7	44.9	6.9	8.9	20.8	39	-	26	26.7	-	-	22.7	31.1	16.5
8	ADV 0990296	36.8	7.6	50.2	87.1	48.6	-	84.5	122.9	48.2	44.2	-	71.8	48.1	58.1	16	12.5	19.8	23.3	-	51.3	63.6	-	14.1	6.4	40.1	20.1
9	VNR-4325	1.5	-	29.8	18.5	17.1	-	42.4	57.9	31.8	28.5	-	44.8	18.6	17.3	3.9	-	-	-	-	16.7	15.9	-	1.7	2.5	18.1	-
10	HT51412607	43.2	5.4	51.9	65.5	50.7	-	71.2	82.2	43.7	48.7	-	54.3	42.4	65.5	13.6	13.8	5.9	25	-	40.4	33.7	-	17.7	3.9	25.8	15.5
	CHECKS																										
11	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	15.5	7.8	-	-	-	-	-	-	-	-	9.8	-	-
12	BIO-9637	-	-	33.5	56.2	20.6	24.7	21.9	36.2	53.4	26.3	-	22.7	23.3	-	-	-	-	-	-	-	-	-	-	-	-	-
13	PMH-4	10.2	23	26	22.1	44.1	28.6	22	69.9	30.4	17.9	-	43.5	27.9	27.3	32.5	-	-	19.5	3.2	0.1	24.7	-	-	5.3	17	3.7
14	PMH-1	-	-	64.2	39.4	18.1	24	55.1	61.4	44.7	12.8	1.1	44.2	28.7	0.7	4.3	23.1	-	-	-	27.2	18.4	-	-	11	17.6	4.4
15	PMH-3	37.3	12.8	38.2	45.8	24.4	0.1	57.6	38	25.4	20.9	0.2	43.9	29	58.7	21.6	3.5	-	3.2	-	29.3	1.3	-	-	10.1	17.4	4.6
16	Seedtech-2324	-	10.9	32.5	67.6	12.8	-	41.5	43.2	43.5	19.5	6.1	74.8	27.3	-	19.6	-	7.2	-	-	16	5.1	-	-	16.5	42.5	3.2
17	BIO 9681	6.6	5.5	16.6	55.1	16.1	29.8	21	40.8	43.7	14.9	-	21	22.4	23.1	13.7	-	-	-	4.1	-	3.3	-	-	-	-	-

LOCATIONS REJECTED DUE TO LOW YIELD (i.e.<1506kg/ha) and LOW PLANT STAND: INDORE 1353_ kg/ha

TABLE No. 14 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-4												CWZ MEAN	GRAIN YIELD % SUPERIORITY OVER THE PMH-1											CWZ MEAN
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	
1	JH 13270	35.5	-	16.5	0.4	22.2	-	29.4	-	-	-	7.8	14.8	6.8	71.3	18.4	-	-	49.2	-	1.8	2.2	-	-	2.2	14.2	6
2	JH 13252	25.9	-	10.9	32.2	2.7	-	30.3	11.8	8.7	5.6	15.2	1.2	9.3	59.2	5.5	-	15.8	25.3	-	2.5	17.7	-	10.3	9.2	0.7	8.5
3	JH 13282	34.5	-	18.8	22.1	3	0.5	16.1	1.2	9.1	-	20.1	15	8.8	70.1	1.4	-	7	25.7	4.2	-	6.5	-	2.9	13.9	14.5	8.1
4	JH 12010	43.1	-	5.1	-	-	-	8.9	-	-	-	-	12.2	-	80.9	5.9	-	-	17.6	-	-	-	-	-	-	11.6	-
5	HT 51412607	4.4	-	3.4	44.8	18.6	-	39.8	4.1	2.7	4.1	8.3	-	6.2	31.9	15.9	-	26.8	44.8	-	10	9.6	-	8.8	2.8	-	5.5
6	DKC9151(IN8902)	6.4	7.8	14.5	58	-	-	25.4	5.7	13.7	3.5	26.7	23.1	11.2	34.5	36.9	-	38.4	-	-	-	11.3	2.5	8.2	20.2	22.4	10.5
7	KH-2192	13.8	-	15.4	54.6	16.2	-	25.9	1.6	14.3	6	16.6	12.1	12.4	43.9	2.5	-	35.4	41.9	-	-	7	3	10.8	10.6	11.5	11.7
8	ADV 0990296	24.1	-	19.2	53.3	3.1	-	51.2	31.2	13.6	22.3	1	19.7	15.8	56.9	11.2	-	34.3	25.9	-	19	38.1	2.4	27.8	-	19.1	15.1
9	VNR-4325	-	-	3	-	-	-	16.7	-	1	9	-	0.9	-	16.5	-	-	-	-	-	-	-	-	13.9	-	0.4	-
10	HT51412607	30	-	20.6	35.5	4.6	-	40.3	7.2	10.2	26.1	-	7.5	11.4	64.3	9	-	18.7	27.6	-	10.4	12.9	-	31.8	-	7	10.6
	CHECKS																										
11	HM-9	-	-	-	-	-	-	-	-	-	-	4.3	-	-	14.7	3.3	-	-	-	-	-	-	-	-	-	-	-
12	BIO-9637	-	-	5.9	28	-	-	-	-	17.6	7.1	-	-	-	-	-	-	12.1	2.1	0.6	-	-	6	12	-	-	-
13	PMH-4	-	-	-	-	-	-	-	-	-	-	-	-	-	26.4	27.1	-	-	22.1	3.7	-	5.3	-	4.5	-	-	-
14	PMH-1	-	-	30.4	14.2	-	-	27.1	-	10.9	-	5.4	0.5	0.7	-	-	-	-	-	-	-	-	-	-	-	-	-
15	PMH-3	24.6	-	9.7	19.4	-	-	29.2	-	-	2.6	4.5	0.3	0.8	57.5	16.6	-	4.6	5.4	-	1.6	-	-	7.2	-	-	0.2
16	Seedtech-2324	-	-	5.2	37.2	-	-	16	-	10.1	1.3	10.6	21.8	-	-	14.6	-	20.2	-	-	-	-	-	5.9	4.9	21.2	-
17	BIO 9681	-	-	-	27	-	0.9	-	-	10.2	-	-	-	-	22.3	9	-	11.2	-	4.7	-	-	-	1.8	-	-	-

LOCATIONS REJECTED DUE TO LOW YIELD (i.e.<1506kg/ha) : INDO 1353_ kg/ha

TABLE No. 14 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-3												CWZ MEAN	GRAIN YIELD % SUPERIORITY OVER THE Seedtech-2324											CWZ MEAN
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	
1	JH 13270	8.8	1.6	6.2	-	41.6	-	0.2	19.5	0.6	-	3.1	14.5	5.9	92.5	3.3	10.7	-	56.2	4.1	11.6	15.2	-	-	-	-	7.2
2	JH 13252	1	-	1.1	10.7	18.9	22.9	0.9	37.6	13	2.9	10.2	0.9	8.3	78.8	-	5.5	-	31.2	29.1	12.4	32.6	-	4.2	4.1	-	9.7
3	JH 13282	8	-	8.3	2.3	19.3	29.2	-	24.6	13.4	-	14.9	14.7	7.9	91.1	-	13	-	31.6	35.6	0.1	20.1	-	-	8.6	-	9.3
4	JH 12010	14.8	-	-	-	11.6	5.2	-	12.5	-	-	-	11.8	-	103.2	-	-	-	23.1	10.5	-	8.5	-	-	-	-	-
5	HT 51412607	-	-	-	21.3	37.5	-	8.2	28.1	6.8	1.5	3.6	-	5.3	48.2	1.1	-	5.5	51.6	-	20.6	23.5	-	2.7	-	-	6.7
6	DKC9151(IN8902)	-	17.4	4.4	32.3	-	12.8	-	30.1	18.2	1	21.2	22.7	10.3	51.1	19.4	8.8	15.1	-	18.5	8.1	25.4	3.3	2.2	14.6	1	11.7
7	KH-2192	-	-	5.2	29.5	34.7	12.5	-	25.1	18.8	3.4	11.5	11.7	11.5	61.6	-	9.7	12.6	48.6	18.1	8.6	20.5	3.8	4.6	5.4	-	12.9
8	ADV 0990296	-	-	8.6	28.4	19.5	-	17	61.5	18.1	19.2	-	19.4	14.9	76.3	-	13.3	11.7	31.8	-	30.4	55.6	3.2	20.7	-	-	16.3
9	VNR-4325	-	-	-	-	-	-	-	14.4	5.1	6.2	-	0.6	-	30.8	-	-	-	3.8	-	0.6	10.3	-	7.5	-	-	-
10	HT51412607	4.3	-	9.9	13.5	21.1	-	8.6	32	14.6	23	-	7.2	10.4	84.6	-	14.6	-	33.6	-	21	27.2	0.1	24.5	-	-	11.8
	CHECKS																										
11	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	28.9	-	-	-	-	4.9	-	-	-	-	-	-	-
12	BIO-9637	-	-	-	7.2	-	24.6	-	-	22.3	4.5	-	-	-	11.5	-	0.7	-	6.9	30.8	-	-	6.9	5.7	-	-	-
13	PMH-4	-	9	-	-	15.9	28.5	-	23.1	4	-	-	-	-	42	10.8	-	-	27.8	35	-	18.6	-	-	-	-	0.4
14	PMH-1	-	-	18.8	-	-	23.9	-	16.9	15.3	-	0.9	0.2	-	12.4	-	23.9	-	4.7	30.1	9.6	12.7	0.8	-	-	-	1.1
15	PMH-3	-	-	-	-	-	-	-	-	-	-	-	-	-	77	1.7	4.3	-	10.3	5	11.4	-	-	1.2	-	-	1.3
16	Seedtech-2324	-	-	-	14.9	-	-	-	3.8	14.4	-	5.8	21.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
17	BIO 9681	-	-	-	6.4	-	29.7	-	2	14.6	-	-	-	-	37.4	-	-	-	2.9	36.2	-	-	0.1	-	-	-	-

LOCATIONS REJECTED DUE TO LOW YIELD (i.e.<1506kg/ha) : INDO 1353_ kg/ha

TABLE No. 14 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE BIO 9681												
Sl No	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ MEAN
1	JH 13270	40.1	8.7	25.8	-	51.7	-	30.5	17.2	-	-	14.4	36.1	11.5
2	JH 13252	30.2	-	19.8	4.1	27.5	-	31.4	34.9	-	8.4	22.2	19.9	14.1
3	JH 13282	39.1	-	28.3	-	27.8	-	17	22.1	-	1	27.4	36.4	13.7
4	JH 12010	47.9	-	13.5	-	19.6	-	9.8	10.3	-	-	-	33	3.5
5	HT 51412607	7.9	6.3	11.7	14	47.3	-	40.9	25.6	-	6.8	15	-	11
6	DKC9151(IN8902)	10	25.6	23.7	24.4	-	-	26.4	27.5	3.2	6.3	34.5	45.9	16.2
7	KH-2192	17.7	-	24.6	21.7	44.3	-	27	22.6	3.7	8.8	23.7	32.9	17.4
8	ADV 0990296	28.4	2.1	28.7	20.7	28.1	-	52.4	58.3	3.1	25.5	7.2	41.9	21
9	VNR-4325	-	-	11.3	-	0.9	-	17.6	12.2	-	11.8	3.3	19.6	-
10	HT51412607	34.4	-	30.2	6.7	29.8	-	41.5	29.4	0	29.5	4.7	27.4	16.3
	CHECKS													
11	HM-9	-	-	-	-	-	-	-	-	-	-	10.6	-	-
12	BIO-9637	-	-	14.4	0.8	3.9	-	0.8	-	6.8	10	0.8	1.3	0.8
13	PMH-4	3.4	16.6	8	-	24.2	-	0.8	20.7	-	2.6	6.1	18.6	4.5
14	PMH-1	-	-	40.8	-	1.7	-	28.2	14.6	0.7	-	11.9	19.2	5.2
15	PMH-3	28.9	7	18.5	-	7.2	-	30.2	-	-	5.3	10.9	18.9	5.3
16	Seedtech-2324	-	5.2	13.6	8.1	-	-	16.9	1.7	-	4	17.4	44.4	4
17	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO LOW YIELD (i.e.<1506kg/ha) : INDO 1353_ kg/ha

TABLE No. 14 (Cont..)

S.No.	PEDIGREE	GRAIN SHELLING %												MOISTURE % AT HARVEST								
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	CWZ Mean	UDAI	BANS	CHHI	GODH	JHAB	BHIL	DAHO	KOTA	CWZ Mean
1	JH 13270	81.8	78.9	87.7	78.8	83.9	70.4	69.3	82.0	71.6	74.0	77.2	77.8	21.6	17.2	16.1	14.1	25.6	22.2	17.6	18.4	19.1
2	JH 13252	80.2	77.9	88.2	78.8	81.2	76.7	69.6	83.3	74.9	76.1	70.5	77.9	22.2	16.8	16.8	16.2	26.6	24.9	18.1	17.3	19.9
3	JH 13282	80.8	78.1	89.6	78.1	77.8	78.6	79.0	85.8	79.9	80.9	74.5	80.3	21.2	17.2	15.0	16.3	27.2	25.2	14.4	16.7	19.1
4	JH 12010	81.0	76.6	83.9	75.7	81.9	74.4	74.0	78.7	74.2	76.2	74.4	77.3	23.2	17.7	17.5	14.9	25.5	20.5	16.0	16.8	19.0
5	HT 51412607	80.2	78.4	87.8	79.5	82.9	71.1	77.9	86.3	79.0	80.8	78.6	80.2	20.1	18.2	17.8	15.3	25.0	25.4	17.3	17.2	19.5
6	DKC9151(IN8902)	80.2	78.5	87.5	78.1	80.2	80.6	78.0	84.1	76.0	78.1	83.6	80.5	22.4	17.8	14.2	15.8	25.8	24.7	13.9	16.9	18.9
7	KH-2192	80.4	77.4	88.2	78.1	83.6	76.3	69.2	84.3	76.2	78.3	85.2	79.7	22.4	17.1	15.0	15.9	26.0	25.0	14.7	16.1	19.0
8	ADV 0990296	80.3	76.1	90.4	81.3	85.8	76.5	82.0	88.4	81.2	82.9	73.3	81.7	22.6	17.6	19.2	14.5	25.4	26.1	18.3	17.2	20.1
9	VNR-4325	79.2	77.7	89.8	80.0	82.7	76.4	77.2	87.7	81.7	83.8	77.5	81.2	19.7	17.8	15.0	15.2	25.0	25.0	14.4	14.9	18.4
10	HT51412607	83.2	78.1	90.3	78.3	82.0	74.1	79.9	87.2	78.5	82.0	77.9	81.0	20.2	17.6	16.0	14.8	24.9	23.7	17.6	16.4	18.9
	CHECKS																					
11	HM-9	79.8	79.0	91.9	76.6	83.9	78.0	76.6	81.2	74.7	77.0	77.6	79.7	19.2	16.8	14.1	15.4	25.3	18.5	9.9	12.7	16.5
12	BIO-9637	81.5	76.8	89.4	78.4	81.2	83.1	77.7	84.3	78.7	80.1	70.0	80.1	23.4	17.4	14.5	15.9	25.3	22.1	14.4	12.9	18.2
13	PMH-4	80.5	76.5	91.2	80.3	80.1	77.7	79.7	86.6	82.8	83.6	75.7	81.3	23.8	16.9	14.0	15.9	25.7	21.7	12.9	12.2	17.9
14	PMH-1	75.8	76.3	90.8	79.3	84.9	79.7	75.5	82.4	78.0	80.5	79.2	80.2	21.2	17.5	17.3	14.5	26.5	22.4	15.6	13.6	18.6
15	PMH-3	81.5	75.9	88.3	80.6	82.5	80.9	78.2	84.9	77.2	78.7	69.4	79.8	21.6	16.8	16.8	14.6	24.9	24.2	15.7	16.0	18.8
16	Seedtech-2324	83.2	76.9	90.8	80.7	82.8	71.1	75.4	83.7	79.3	79.5	80.4	80.4	23.8	17.0	15.7	15.8	25.2	25.6	13.0	15.8	19.0
17	BIO 9681	80.8	76.1	89.2	80.2	82.9	78.1	80.0	84.9	79.7	81.9	75.6	80.8	18.9	17.9	13.4	16.1	27.2	19.5	14.0	13.1	17.5
	Loc. Mean	**80.6**	**77.3**	**89.1**	**79.0**	**82.4**	**76.7**	**76.4**	**84.4**	**77.9**	**79.7**	**76.5**	**80.0**	**21.6**	**17.4**	**15.8**	**15.4**	**25.7**	**23.3**	**15.2**	**15.5**	**18.7**
	C.D. (5%)	0.51	1.72	3.74	2.76	-	5.63	5.89	1.32	2.87	3.22	0.73	2.17	0.37	0.80	0.97	0.00	0.66	1.62	0.77	0.38	1.40
	C.V. (%)	0.38	1.34	2.52	2.10	-	4.41	4.63	0.94	2.22	2.43	0.58	3.22	1.03	2.76	3.68	0.00	1.53	4.18	3.05	1.48	7.55
	F (Prob)	0.00	0.00	0.03	0.02	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 14 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)														DAYS TO 50% POLLEN SHED													
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	INDO	KOTA	CWZ Mean	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	INDO	KOTA	CWZ Mean
1	JH 13270	49.0	67.4	59.2	58.9	74.5	53.9	61.7	55.3	60.6	61.1	58.6	26.9	64.9	57.8	59.0	51.0	58.0	58.3	50.0	55.0	56.0	53.7	56.0	55.3	51.0	44.3	58.3	54.3
2	JH 13252	53.5	61.1	60.3	63.1	71.9	54.7	61.9	64.0	53.9	62.8	60.3	26.7	60.8	58.1	60.0	51.3	58.3	61.0	50.0	54.0	55.3	55.0	53.3	55.0	54.0	43.0	59.0	54.6
3	JH 13282	59.0	62.5	62.2	62.5	82.8	62.5	55.6	59.0	56.4	56.1	58.3	27.5	63.2	59.0	58.3	49.0	56.0	54.0	48.0	54.0	52.3	51.3	51.7	56.0	53.0	45.7	57.0	52.8
4	JH 12010	59.4	65.6	59.7	59.4	69.3	64.4	55.3	61.0	55.3	56.1	61.4	26.7	62.2	58.1	60.7	53.0	58.0	58.0	49.0	52.7	53.0	52.0	56.7	60.7	52.0	48.3	59.3	54.9
5	HT 51412607	55.2	65.6	62.2	65.0	82.3	61.1	69.4	69.0	61.9	57.2	60.3	25.6	64.2	61.5	60.0	51.0	58.0	57.0	51.0	54.3	53.7	53.0	56.0	56.0	54.0	48.7	60.3	54.8
6	DKC9151(IN8902)	51.7	66.3	66.7	67.8	78.6	65.6	54.4	64.3	60.3	60.3	58.9	26.9	64.6	60.5	62.0	53.0	59.3	57.3	49.5	50.3	55.0	52.7	57.0	57.0	54.0	47.0	59.7	54.9
7	KH-2192	56.3	61.1	58.9	66.4	82.3	62.5	54.7	65.3	57.2	56.7	60.3	25.8	62.2	59.2	59.7	52.0	56.3	54.3	48.0	53.0	51.0	51.0	56.0	59.0	53.0	44.7	56.3	53.4
8	ADV 0990296	60.4	65.3	62.2	65.3	81.3	63.3	57.2	60.3	60.0	63.1	60.8	25.0	65.3	60.7	63.7	56.0	58.0	57.0	50.0	54.0	52.3	53.7	54.0	58.3	52.0	45.0	60.3	54.9
9	VNR-4325	53.8	62.8	62.5	56.4	79.7	58.3	58.1	48.3	55.0	56.1	58.9	25.6	59.7	56.6	59.7	48.3	56.3	57.0	47.0	51.7	51.3	52.7	56.0	55.3	52.0	46.0	56.7	53.1
10	HT51412607	61.8	70.1	63.6	65.0	77.6	64.4	53.6	59.7	61.9	61.4	60.3	26.7	60.8	60.5	60.3	50.7	58.3	60.0	49.0	54.0	53.7	51.7	58.3	61.3	53.0	49.3	59.7	55.3
	CHECKS																												
11	HM-9	55.9	63.9	61.9	54.7	73.4	57.5	55.0	56.3	53.9	56.1	58.6	26.7	46.2	55.4	58.7	50.3	55.3	48.3	45.0	52.3	51.3	50.0	52.0	55.7	54.0	48.3	55.0	52.0
12	BIO-9637	52.8	66.3	63.6	66.1	76.6	66.7	45.8	57.7	64.7	63.1	59.2	25.0	57.6	58.9	59.7	51.7	56.7	52.3	47.0	53.7	50.3	49.7	56.7	57.3	52.0	47.3	56.0	53.1
13	PMH-4	45.5	64.6	59.4	56.9	75.5	66.1	48.9	57.7	62.2	55.3	60.3	25.8	59.7	56.8	58.0	55.3	54.7	50.0	44.0	51.3	48.3	49.7	53.3	61.0	53.0	49.0	55.0	52.5
14	PMH-1	52.1	64.6	62.5	62.5	67.7	61.9	60.3	50.3	57.5	54.7	59.7	26.4	60.1	56.9	61.0	48.3	56.7	55.0	50.0	53.3	51.0	52.0	55.3	56.0	52.0	48.7	59.0	53.7
15	PMH-3	49.7	60.4	58.1	61.9	65.1	55.8	53.1	56.7	53.1	53.6	58.3	24.7	61.5	54.8	61.0	56.0	57.0	59.0	50.0	52.7	54.3	53.3	56.0	55.0	54.0	48.3	59.0	55.1
16	Seedtech-2324	54.2	66.7	61.7	63.3	72.9	52.5	58.6	61.7	63.1	62.8	60.3	24.2	64.9	59.0	59.3	52.0	57.0	55.3	49.0	54.7	52.3	52.3	55.3	61.0	53.0	49.0	57.7	54.5
17	BIO 9681	54.5	66.0	64.2	64.2	77.6	68.6	52.2	60.0	62.8	55.8	59.7	26.1	57.3	59.2	58.7	50.7	56.0	50.0	47.5	50.3	49.3	47.7	55.7	61.0	55.0	50.3	55.7	52.9
	Loc. Mean	**54.4**	**64.7**	**61.7**	**62.3**	**75.8**	**61.2**	**56.2**	**59.2**	**58.8**	**58.4**	**59.7**	**26.0**	**60.9**	**58.4**	**60.0**	**51.7**	**57.1**	**55.5**	**48.5**	**53.0**	**52.4**	**51.8**	**55.3**	**57.7**	**53.0**	**47.2**	**57.9**	**53.9**
	C.D. (5%)	3.61	5.50	5.84	4.57	4.11	8.83	8.75	4.46	6.47	6.21	0.93	3.86	2.61	2.76	1.91	1.06	1.35	0.87	0.90	2.55	2.39	2.01	2.67	1.30	-	0.93	1.11	1.41
	C.V. (%)	3.99	5.11	5.69	4.40	2.56	8.68	9.36	4.52	6.62	6.40	0.93	8.93	2.57	6.11	1.91	1.23	1.42	0.94	0.88	2.89	2.75	2.34	2.90	1.36	-	1.19	1.16	3.38
	F (Prob)	0.00	0.09	0.32	0.00	0.00	0.01	0.00	0.00	0.01	0.02	0.00	0.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00

Plant stand of Indore is very low - it may be rejected

TABLE No. 14 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% SILKING														DAYS TO 75% DRY HUSK											
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	INDO	KOTA	CWZ Mean	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	JH 13270	61.3	54.0	59.0	61.3	52.0	57.0	60.3	56.0	59.3	60.0	56.0	48.0	60.0	57.3	98.0	92.7	97.7	105.7	84.0	89.3	84.3	91.3	100.0	91.0	96.3	93.7
2	JH 13252	61.3	54.3	59.3	63.3	52.0	56.3	59.7	57.7	55.3	62.0	58.0	47.3	60.3	57.5	99.3	94.0	97.3	102.3	85.0	89.3	82.7	87.0	102.0	92.0	93.0	93.1
3	JH 13282	59.7	52.0	57.0	57.0	50.0	55.7	56.0	54.0	53.7	61.0	57.0	50.7	58.3	55.5	96.7	91.0	95.0	99.0	82.5	88.7	83.7	92.7	100.0	91.0	94.7	92.3
4	JH 12010	62.0	56.0	59.0	61.0	51.0	55.0	56.7	55.0	60.3	63.0	57.7	53.0	61.0	57.7	98.7	94.0	97.3	99.3	84.0	88.7	83.3	95.3	98.3	90.0	96.0	93.2
5	HT 51412607	61.3	54.0	59.0	60.0	52.0	57.0	57.7	56.7	60.0	61.7	58.0	51.7	62.7	57.8	95.7	91.7	97.3	101.0	85.0	87.7	86.3	92.7	99.7	91.0	97.3	93.2
6	DKC9151(IN8902)	63.7	56.3	60.3	60.3	52.0	53.0	59.7	56.0	60.0	63.0	57.7	52.0	61.3	58.1	99.3	94.0	97.3	100.7	84.0	90.7	88.7	98.7	104.0	92.0	96.0	95.0
7	KH-2192	60.7	55.0	57.3	57.3	50.0	55.3	54.7	54.7	59.0	61.7	58.0	49.7	58.0	56.3	99.0	94.7	95.3	137.7	84.5	89.0	88.0	91.3	103.0	93.0	92.7	97.1
8	ADV 0990296	64.7	59.0	59.0	60.3	52.0	56.3	56.0	56.3	56.7	62.0	57.3	48.0	63.0	57.7	99.7	95.0	99.3	99.0	78.5	90.0	87.3	93.0	99.7	91.0	96.0	93.5
9	VNR-4325	62.3	51.3	57.3	60.3	49.0	54.0	55.0	55.7	58.0	57.7	56.0	48.3	59.0	55.7	95.7	90.0	94.7	100.3	77.0	87.7	84.7	95.7	97.7	91.0	93.7	91.6
10	HT51412607	62.0	53.7	59.3	63.0	51.0	56.7	58.0	54.0	61.0	65.0	58.0	53.0	62.7	58.3	98.7	92.7	98.7	103.7	83.0	89.7	83.7	95.0	104.3	91.0	96.7	94.3
	CHECKS																										
11	HM-9	60.0	53.3	56.3	51.3	47.0	54.7	55.0	53.7	54.0	61.0	59.0	52.7	57.0	55.0	96.7	80.7	93.7	93.3	80.5	86.3	84.3	92.0	99.0	93.0	92.7	90.2
12	BIO-9637	60.7	54.7	57.7	55.7	50.0	56.0	54.0	53.3	59.0	61.0	56.0	51.0	57.7	55.9	94.3	91.0	93.7	97.0	80.0	85.0	86.0	93.0	103.7	90.0	89.0	91.2
13	PMH-4	59.3	58.3	55.7	53.3	46.5	54.3	53.7	52.0	55.7	64.0	58.0	52.3	56.3	55.3	98.0	95.3	94.3	95.0	80.5	87.3	87.0	96.3	98.7	91.0	94.0	92.5
14	PMH-1	63.3	51.3	57.7	58.3	52.0	55.7	54.0	56.0	58.0	58.0	57.0	51.3	60.0	56.4	91.0	90.3	95.0	97.3	80.5	87.0	84.0	95.3	95.7	90.0	89.7	90.5
15	PMH-3	63.3	59.0	58.0	62.0	52.0	54.7	59.0	57.0	58.7	61.0	58.0	52.3	61.7	58.2	97.7	95.0	97.0	102.0	78.5	87.0	84.3	94.0	96.0	90.7	94.7	92.4
16	Seedtech-2324	61.7	55.0	58.0	58.7	51.0	56.3	56.7	56.0	58.7	64.0	57.7	51.0	60.0	57.3	95.3	92.0	97.3	100.3	83.5	90.3	85.3	95.0	103.7	91.0	93.0	93.3
17	BIO 9681	60.3	53.7	57.0	53.7	50.0	52.3	53.7	52.0	58.0	65.0	59.0	53.0	57.7	55.8	94.0	90.7	93.7	97.7	78.0	85.7	83.3	94.3	103.0	92.0	88.3	91.0
	Loc. Mean	**61.6**	**54.8**	**58.1**	**58.6**	**50.6**	**55.3**	**56.5**	**55.1**	**58.0**	**61.8**	**57.5**	**50.9**	**59.8**	**56.8**	**96.9**	**92.0**	**96.2**	**101.8**	**81.7**	**88.2**	**85.1**	**93.7**	**100.5**	**91.2**	**93.7**	**92.8**
	C.D. (5%)	1.90	1.07	1.22	1.11	0.36	2.65	2.58	1.91	2.40	1.58	0.45	1.44	1.40	1.34	2.62	8.58	1.77	28.18	1.40	1.89	2.73	3.28	1.74	0.23	1.47	2.90
	C.V. (%)	1.85	1.17	1.26	1.14	0.34	2.89	2.74	2.09	2.49	1.54	0.48	1.70	1.40	3.05	1.62	5.61	1.11	16.63	0.81	1.29	1.93	2.10	1.04	0.15	0.94	3.70
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.24	0.00	0.49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 14 (Cont..)

S.No.	PEDIGREE	PLANT HEIGHT(cm)													EAR HEIGHT(cm)										
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	JH 13270	183.3	193.3	225.0	277.5	180.5	180.0	177.3	286.3	245.8	210.8	216.5	206.7	215.3	95.0	111.7	110.0	100.6	77.5	78.7	122.0	101.6	81.6	77.0	106.7	96.6
2	JH 13252	208.3	198.3	226.7	279.3	162.5	181.3	191.7	311.0	237.5	202.5	225.0	205.0	219.1	108.3	98.3	108.3	111.6	66.0	91.7	133.3	102.7	82.7	75.3	106.7	98.6
3	JH 13282	193.3	196.7	211.7	278.4	174.0	169.0	182.3	277.7	245.8	210.8	204.7	198.3	211.9	111.7	95.3	105.0	102.9	75.0	83.0	137.0	108.6	88.6	83.3	96.7	98.8
4	JH 12010	181.7	210.0	220.0	292.5	172.0	192.0	198.0	311.7	264.6	229.6	210.3	198.3	223.4	93.3	105.0	108.3	107.3	76.0	93.0	144.0	106.0	86.0	83.7	96.7	99.9
5	HT 51412607	173.3	205.0	201.7	258.3	198.0	167.3	164.3	267.7	219.5	184.5	203.7	193.3	203.0	83.3	105.0	105.0	103.7	98.0	82.0	130.3	99.5	79.5	77.0	96.7	96.4
6	DKC9151(IN8902)	221.7	205.0	225.0	303.1	166.5	175.3	194.7	288.0	259.2	224.2	208.7	211.7	223.6	105.0	105.0	103.3	106.7	70.5	88.7	133.7	102.0	82.0	87.3	105.0	99.0
7	KH-2192	180.0	198.3	205.0	271.9	169.0	167.7	176.3	273.3	239.2	204.2	226.0	200.0	209.3	73.3	106.7	90.0	136.7	73.5	74.3	103.7	98.1	78.1	85.3	98.3	92.6
8	ADV 0990296	173.3	203.3	195.0	247.4	166.5	181.7	164.7	259.3	223.7	188.7	203.9	190.0	199.8	73.3	106.7	91.7	95.1	71.5	70.7	106.3	99.1	79.1	75.0	91.7	87.3
9	VNR-4325	165.0	205.0	186.7	231.3	174.0	164.3	161.7	239.3	225.2	190.2	197.7	175.0	193.0	66.7	103.3	95.0	91.7	79.0	71.7	102.7	98.1	78.1	80.3	81.7	86.2
10	HT51412607	165.0	203.3	206.7	269.0	179.0	187.7	174.0	261.3	213.4	178.4	209.1	186.7	202.8	73.3	106.7	101.7	108.3	81.0	75.7	121.3	100.1	80.1	75.0	88.3	92.0
	CHECKS																									
11	HM-9	171.7	145.0	176.7	239.7	175.0	168.0	173.3	250.0	213.5	178.5	203.0	180.0	189.5	75.0	108.3	78.3	84.7	78.0	80.0	109.3	76.6	56.6	68.3	85.0	81.8
12	BIO-9637	205.0	203.3	216.7	292.9	179.0	194.7	202.3	267.7	261.0	226.0	200.3	200.0	220.7	95.0	100.0	101.7	101.7	82.5	84.0	105.7	115.8	95.8	79.3	95.0	96.0
13	PMH-4	176.7	201.7	183.3	235.4	177.0	187.0	157.0	253.0	211.5	176.5	203.0	178.3	195.0	85.0	101.7	91.7	83.9	79.0	69.0	110.0	93.0	73.0	80.0	78.3	85.9
14	PMH-1	206.7	208.3	221.7	306.3	176.5	187.3	198.7	295.0	241.3	206.3	203.0	206.7	221.5	91.7	113.3	115.0	138.7	82.0	93.7	139.3	109.9	89.9	77.7	111.7	105.7
15	PMH-3	213.3	205.0	226.7	305.2	176.5	193.7	195.0	298.3	258.8	223.8	211.6	201.7	225.8	105.0	106.7	110.0	136.1	81.5	90.3	140.7	112.1	92.1	95.0	100.0	106.3
16	Seedtech-2324	161.7	196.7	191.7	255.9	166.0	169.3	179.7	255.3	209.1	174.1	209.0	185.0	196.1	91.7	108.3	96.7	104.8	72.5	84.0	115.0	98.7	78.7	79.3	91.7	92.8
17	BIO 9681	193.3	205.0	195.0	268.5	162.5	199.3	181.7	248.7	235.9	200.9	205.1	195.0	207.6	76.7	108.3	85.0	82.3	69.0	80.0	109.7	102.7	82.7	78.0	90.0	87.7
	Loc. Mean	**186.7**	**199.0**	**206.8**	**271.3**	**173.8**	**180.3**	**180.7**	**273.2**	**235.6**	**200.6**	**208.3**	**194.8**	**209.3**	**88.4**	**105.3**	**99.8**	**105.7**	**77.2**	**81.8**	**121.4**	**101.4**	**81.4**	**79.8**	**95.3**	**94.3**
	C.D. (5%)	12.54	45.24	12.63	29.09	18.34	9.55	13.42	19.74	22.03	22.03	2.72	7.77	9.28	9.69	11.73	11.32	30.63	19.49	8.97	14.29	9.64	9.64	2.75	7.17	6.96
	C.V. (%)	4.04	13.67	3.67	6.45	4.98	3.18	4.46	4.34	5.62	6.60	0.79	2.40	5.51	6.59	6.70	6.82	17.43	11.91	6.60	7.08	5.72	7.12	2.07	4.52	8.76
	F (Prob)	0.00	0.61	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.00	0.01	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 15 **PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA, BHILODA, RAIPUR, JAGDALPUR, UJJAIN, KOTA, DAHOD IN AVT1&2 TRIAL No. TR67Z5(AVT1-E-CWZ) & TR71Z5 (AVT2-E-CWZ) DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGD	R	UJJA	R	KOTA	R	CWZ MEAN	R
1	GYH-0656	4922	5	5094	4	5454	4	7847	7	4147	4	3527	4	3375	7	4126	1	6557	7	6559	5	2494	7	6024	6	5091	7
2	AH9001	1884	7	5174	3	7350	2	9719	3	3989	5	3821	2	4060	5	2920	6	6845	6	7187	2	2878	6	7530	4	5494	4
3	FH 3664	6488	3	4887	6	5492	3	10421	1	3701	6	4881	1	4118	4	3740	2	6901	5	7128	3	3009	5	8327	1	5941	2
4	JH 31613	6023	4	4472	7	5201	5	8546	5	3539	7	3293	5	4349	2	2848	7	7009	4	7014	4	3149	4	5830	7	5312	5
5	CMH10-531	6536	2	5619	1	8507	1	9998	2	4150	3	3087	6	5602	1	3297	4	7548	2	7924	1	3392	2	7758	3	6375	1
	CHECKS																												
6	PMH-5	7285	1	5032	5	4966	6	9349	4	5949	1	2657	7	4243	3	3356	3	7908	1	5926	7	3647	1	8052	2	5910	3
7	Parkash	3942	6	5299	2	4804	7	8030	6	4499	2	3610	3	3717	6	3151	5	7128	3	6172	6	3387	3	6471	5	5187	6
	Location Mean	**5297**		**5082**		**5968**		**9130**		**4282**		**3554**		**4209**		**3348**		**7128**		**6844**		**3136**		**7142**		**5616**	
	C.D. (5%)	926		471		1112		1408		280		419		903		2208		1065		975		275		433		752	
	C.V. (%)	9.73		5.16		10.37		8.58		3.63		6.57		11.94		**36.69**		8.31		7.93		4.88		3.38		-	
	F (Prob)	0		0.004		0		0.005		0		0		0.004		0.784		0.16		0.007		0		0			
	Plot Size	14.4		14.4		18		14.4		14.4		18		18		14		14.4		14.4		18		9.6		-	
	AGRONOMY DATA																												
	Sowing Date	26-06		15-07		9-07		1-07		2-07		18-07		2-07		2-07		7-07		1-07		15-07		6-07		-	
	Harvest Date	10-10		27-10		16-11		-		1-10		1-11		13-10		19-10		-		-		16-11		25-10		-	
	Irrigation Nos	3		1		-		-		3		2		-		2		-		-		-		2		-	
	Ferilizer Applied N	90		150		120		100		100		120		-		10		100		100		100		90		-	
	Ferilizer Applied P	60		80		60		50		50		60		-		50		50		50		60		30		-	
	Ferilizer Applied K	-		-		40		30		-		60		-		-		30		30		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DAHO 36.7 %

TABLE No. 15 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PMH-5

Sl No	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ MEAN
1	GYH-0656	-	1.2	9.8	-	-	32.8	-	22.9	-	10.7	-	-	-
2	AH9001	-	2.8	48	4	-	43.8	-	-	-	21.3	-	-	-
3	FH 3664	-	-	10.6	11.5	-	83.7	-	11.4	-	20.3	-	3.4	0.5
4	JH 31613	-	-	4.7	-	-	23.9	2.5	-	-	18.4	-	-	-
5	CMH10-531	-	11.7	71.3	6.9	-	16.2	32	-	-	33.7	-	-	7.9
	CHECKS													
6	PMH-5	-	-	-	-	-	-	-	-	-	-	-	-	-
7	Parkash	-	5.3	-	-	-	35.9	-	-	-	4.2	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DAHO 36.7 %

GRAIN YIELD % SUPERIORITY OVER THE Parkash

Sl No	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ MEAN
1	GYH-0656	24.9	-	13.5	-	-	-	-	31	-	6.3	-	-	-
2	AH9001	-	-	53	21	-	5.8	9.2	-	-	16.4	-	16.4	5.9
3	FH 3664	64.6	-	14.3	29.8	-	35.2	10.8	18.7	-	15.5	-	28.7	14.5
4	JH 31613	52.8	-	8.3	6.4	-	-	17	-	-	13.6	-	-	2.4
5	CMH10-531	65.8	6	77.1	24.5	-	-	50.7	4.6	5.9	28.4	0.1	19.9	22.9
	CHECKS													
6	PMH-5	84.8	-	3.4	16.4	32.2	-	14.2	6.5	10.9	-	7.7	24.4	13.9
7	Parkash	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DAHO 36.7 %

Table No. 15 (Continued)

GRAIN SHELLING %

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	CWZ Mean
1	GYH-0656	82.6	76.1	88.8	84.3	81.8	78.6	78.7	82.5	84.3	84.3	78.3	81.8
2	AH9001	83.1	75.0	89.3	82.6	77.7	76.8	80.3	68.4	82.6	82.5	79.0	80.9
3	FH 3664	82.6	77.3	80.9	82.6	80.8	76.2	79.3	65.5	82.6	82.0	80.4	80.5
4	JH 31613	82.8	77.1	85.2	84.1	79.5	78.0	78.4	63.4	84.1	83.5	80.6	81.3
5	CMH10-531	82.7	78.8	88.6	80.5	75.5	78.1	74.9	60.3	80.5	80.5	80.3	80.0
	CHECKS												
6	PMH-5	83.3	75.5	84.4	81.9	79.9	78.0	75.8	59.6	81.9	81.5	79.0	80.1
7	Parkash	82.9	78.1	87.9	86.5	80.0	79.0	82.9	61.6	86.5	85.2	79.3	82.8
	Loc. Mean	**82.8**	**76.8**	**86.4**	**83.2**	**79.3**	**77.8**	**78.6**	**65.9**	**83.2**	**82.8**	**79.6**	**81.1**
	C.D. (5%)	0.67	0.99	6.08	1.44	3.66	2.31	4.60	26.51	1.44	2.08	1.53	1.49
	C.V. (%)	0.45	0.72	3.96	0.97	2.60	1.67	3.29	22.62	0.97	1.41	1.08	2.05
	F (Prob)	0.33	0.00	0.09	0.00	0.04	0.21	0.04	0.56	0.00	0.00	0.04	0.00

MOISTURE % AT HARVEST

S.No.	PEDIGREE	UDAI	BANS	CHHI	GODH	JHAB	BHIL	DAHO	KOTA	CWZ Mean
1	GYH-0656	22.4	16.1	13.0	16.2	25.1	24.6	11.3	16.4	18.1
2	AH9001	22.1	15.8	12.9	15.0	24.9	21.0	13.5	16.1	17.6
3	FH 3664	22.5	16.0	12.8	13.7	26.5	21.1	12.6	17.0	17.8
4	JH 31613	22.4	15.9	12.4	15.3	24.5	22.4	12.4	15.3	17.6
5	CMH10-531	22.6	16.1	16.1	14.9	24.4	26.3	17.7	16.7	19.3
	CHECKS									
6	PMH-5	22.2	16.0	11.4	15.1	24.7	19.3	11.8	18.3	17.3
7	Parkash	22.4	15.8	12.7	15.7	25.3	18.2	10.6	14.7	16.9
	Loc. Mean	**22.4**	**15.9**	**13.0**	**15.1**	**25.1**	**21.8**	**12.8**	**16.3**	**17.8**
	C.D. (5%)	0.58	0.48	1.41	0.69	0.79	1.33	0.35	0.39	1.40
	C.V. (%)	1.46	1.70	6.10	2.58	1.77	3.42	1.54	1.33	7.78
	F (Prob)	0.62	0.67	0.00	0.00	0.00	0.00	0.00	0.00	0.04

Locations Rejected due to High C.V.(i.e.> 20%) : DAHOD 22.6%

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	64.4	56.5	64.3	81.3	62.0	53.5	56.9	47.1	79.6	77.8	61.4	89.9	66.2
2	AH9001	63.7	58.3	65.9	85.6	79.2	53.5	60.6	39.5	80.3	80.8	60.9	92.7	68.4
3	FH 3664	64.1	55.6	64.1	86.1	58.1	58.9	61.5	51.4	78.7	80.1	61.5	96.9	68.1
4	JH 31613	63.7	58.3	60.0	82.6	59.3	50.7	63.9	42.4	75.2	78.9	60.9	90.6	65.6
5	CMH10-531	63.7	54.2	64.4	84.7	63.7	43.7	60.2	41.0	75.2	81.9	60.7	95.8	65.8
	CHECKS													
6	PMH-5	64.4	56.3	63.5	86.3	65.5	45.6	59.6	56.7	77.5	76.2	60.9	96.5	67.4
7	Parkash	63.7	56.5	62.8	82.2	66.0	47.2	51.7	49.8	70.1	71.8	61.1	91.3	64.5
	Loc. Mean	**63.9**	**56.5**	**63.6**	**84.1**	**64.8**	**50.4**	**59.2**	**46.8**	**76.7**	**78.2**	**61.1**	**93.4**	**66.6**
	C.D. (5%)	0.71	3.08	7.28	4.34	2.53	11.03	5.49	7.96	4.90	4.29	0.87	2.80	3.00
	C.V. (%)	0.63	3.06	6.44	2.90	2.20	12.29	5.21	9.55	3.60	3.08	0.80	1.68	5.54
	F (Prob)	0.12	0.12	0.72	0.12	0.00	0.11	0.01	0.00	0.01	0.00	0.51	0.00	0.11

DAYS TO 50% POLLEN SHED

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	50.0	38.7	52.7	46.0	49.0	47.0	49.3	47.3	40.3	43.3	49.0	51.0	47.0
2	AH9001	49.7	38.7	52.3	46.7	45.0	46.3	49.7	48.0	43.3	45.0	47.7	52.0	47.0
3	FH 3664	49.7	39.0	52.3	47.0	47.0	48.0	49.0	45.3	45.0	44.3	47.3	50.7	47.1
4	JH 31613	51.0	39.0	53.3	47.7	46.0	48.7	49.7	48.7	45.0	47.0	49.0	54.3	48.3
5	CMH10-531	55.7	39.7	57.3	54.0	48.0	55.7	50.0	50.3	49.0	49.3	50.0	55.3	51.2
	CHECKS													
6	PMH-5	50.3	39.0	52.0	47.0	51.0	49.0	50.3	48.0	45.3	54.3	49.7	51.0	48.9
7	Parkash	50.3	40.3	51.3	45.3	46.0	47.3	49.3	46.7	44.0	53.0	48.7	50.3	47.7
	Loc. Mean	**51.0**	**39.2**	**53.0**	**47.7**	**47.4**	**48.9**	**49.6**	**47.8**	**44.6**	**48.0**	**48.8**	**52.1**	**48.2**
	C.D. (5%)	1.11	2.18	1.52	1.88	-	2.43	1.68	1.46	2.18	1.16	1.65	1.32	1.48
	C.V. (%)	1.22	3.13	1.61	2.21	-	2.80	1.90	1.72	2.75	1.36	1.90	1.42	3.78
	F (Prob)	0.00	0.63	0.00	0.00	-	0.00	0.67	0.00	0.00	0.00	0.04	0.00	0.00

Table No. 15 (Continued)

DAYS TO 50% SILKING

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	51.3	41.7	53.7	49.0	51.0	50.0	54.0	50.7	42.3	47.3	53.0	53.7	49.8
2	AH9001	51.0	41.7	53.3	49.0	48.0	49.3	54.3	50.7	45.7	48.3	52.3	53.3	49.8
3	FH 3664	51.0	42.0	53.3	49.3	50.0	49.7	53.3	51.7	47.3	49.0	53.3	52.7	50.2
4	JH 31613	53.0	41.7	54.3	50.3	49.0	51.0	53.0	51.7	48.0	50.7	54.0	55.3	51.0
5	CMH10-531	57.7	42.7	58.3	57.0	51.0	58.0	53.3	54.0	51.0	53.0	54.7	57.0	54.0
	CHECKS													
6	PMH-5	52.0	42.0	53.0	49.0	53.0	51.0	53.7	53.3	47.3	57.7	54.7	52.7	51.6
7	Parkash	51.7	43.3	52.3	48.3	49.0	50.3	53.0	50.0	46.3	56.7	53.7	51.7	50.5
	Loc. Mean	**52.5**	**42.1**	**54.0**	**50.3**	**50.1**	**51.3**	**53.5**	**51.7**	**46.9**	**51.8**	**53.7**	**53.8**	**51.0**
	C.D. (5%)	0.81	2.19	1.52	2.25	-	2.01	1.92	4.56	2.51	1.44	1.14	1.54	1.45
	C.V. (%)	0.86	2.92	1.58	2.51	-	2.20	2.02	4.95	3.01	1.56	1.20	1.62	3.50
	F (Prob)	0.00	0.59	0.00	0.00	0.00	0.00	0.69	0.47	0.00	0.00	0.01	0.00	0.00

DAYS TO 75% DRY HUSK

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	83.0	71.0	88.3	85.0	83.3	84.7	81.3	78.0	85.0	90.0	86.3	83.3
2	AH9001	82.7	74.0	89.7	89.7	80.0	84.0	84.3	81.3	85.3	90.7	87.3	84.5
3	FH 3664	81.7	73.0	89.7	90.7	82.3	84.3	85.0	88.0	85.3	90.0	90.3	85.5
4	JH 31613	84.0	71.3	90.7	91.0	81.0	84.7	87.3	88.7	87.7	89.3	87.0	85.7
5	CMH10-531	87.7	72.3	94.7	92.3	83.0	86.7	89.0	85.3	88.3	89.7	91.0	87.3
	CHECKS												
6	PMH-5	82.0	72.3	85.0	87.0	83.0	84.3	87.7	81.7	91.0	91.0	87.3	84.8
7	Parkash	82.0	74.0	85.7	82.7	82.3	84.3	88.0	86.3	90.0	90.3	88.0	84.9
	Loc. Mean	**83.3**	**72.6**	**89.1**	**88.3**	**82.1**	**84.7**	**86.1**	**84.2**	**87.5**	**90.1**	**88.2**	**85.1**
	C.D. (5%)	1.32	1.29	1.01	1.03	0.67	1.26	4.13	2.72	1.82	1.07	2.44	1.84
	C.V. (%)	0.89	1.00	0.64	0.65	0.46	0.83	2.69	1.82	1.17	0.67	1.56	2.53
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.00	0.00	0.07	0.01	0.00

PLANT HEIGHT(cm)

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	190.0	190.0	163.3	220.1	165.7	162.0	166.3	206.7	215.5	191.6	196.5	183.3	187.6
2	AH9001	170.0	186.7	156.7	205.9	169.0	143.7	132.3	182.3	210.5	182.8	186.3	183.3	175.8
3	FH 3664	170.0	185.0	171.7	224.2	171.3	175.0	148.7	207.0	237.9	194.3	193.3	171.7	187.5
4	JH 31613	163.3	190.0	166.7	221.5	166.7	152.4	149.3	199.7	237.3	201.8	196.7	183.3	185.7
5	CMH10-531	211.7	183.3	218.3	271.3	155.0	193.7	187.0	240.7	244.4	211.2	193.0	211.7	210.1
	CHECKS													
6	PMH-5	181.7	186.7	181.7	225.7	177.3	158.7	156.0	238.3	240.7	204.1	193.0	191.7	194.6
7	Parkash	170.0	188.3	158.3	222.9	169.0	166.0	158.3	215.3	216.5	216.4	191.7	176.7	187.5
	Loc. Mean	**179.5**	**187.1**	**173.8**	**227.4**	**167.7**	**164.5**	**156.9**	**212.9**	**228.9**	**200.3**	**192.9**	**186.0**	**189.8**
	C.D. (5%)	7.1	10.4	16.1	11.2	27.3	12.4	15.0	43.5	21.7	15.8	8.9	7.5	9.1
	C.V. (%)	2.2	3.1	5.2	2.8	9.2	4.2	5.4	11.5	5.3	4.4	2.6	2.3	5.9
	F (Prob)	0.00	0.76	0.00	0.00	0.74	0.00	0.00	0.12	0.02	0.01	0.28	0.00	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	CWZ Mean
1	GYH-0656	80.0	81.7	90.0	87.5	70.0	70.0	89.3	102.5	91.3	58.0	85.0	83.5
2	AH9001	63.3	71.7	81.7	77.6	74.0	61.7	76.7	94.4	80.0	61.3	83.3	75.2
3	FH 3664	75.0	80.0	76.7	86.3	75.0	63.0	90.3	92.3	78.4	62.3	73.3	77.8
4	JH 31613	63.3	81.7	81.7	82.0	67.0	69.0	88.3	101.8	88.8	62.0	90.0	80.9
5	CMH10-531	90.0	91.7	110.0	114.5	62.3	89.0	108.3	115.8	96.4	66.0	111.7	99.3
	CHECKS												
6	PMH-5	83.3	93.3	78.3	77.0	77.3	64.3	106.7	98.3	87.7	64.3	91.7	84.5
7	Parkash	80.0	90.0	76.7	93.1	70.0	72.3	89.0	99.3	89.6	64.3	81.7	83.6
	Loc. Mean	**76.4**	**84.3**	**85.0**	**88.3**	**70.8**	**69.9**	**92.7**	**100.6**	**87.5**	**62.6**	**88.1**	**83.5**
	C.D. (5%)	4.3	5.9	13.9	9.7	26.4	10.6	17.2	9.3	11.1	5.3	6.6	5.4
	C.V. (%)	3.2	4.0	9.2	6.2	21.0	8.6	10.4	5.2	7.1	4.8	4.2	7.2
	F (Prob)	0.00	0.00	0.00	0.00	0.89	0.00	0.02	0.00	0.05	0.10	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GODHRA 21.0%

TABLE No. 16: PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSAWARA, CHHINDWARA, AMBIKAPUR, GODHRA, JHABUA, BHILODA, DAHOD, RAIPUR, JAGDALPUR, UJJAIN, KOTA IN AVT2 TRIAL No. TR69Z5(AVT2-L-CWZ) DURING KHARIF (2015)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																								ZN 5 MEAN	R
		UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	JHAB	R	BHIL	R	DAHO	R	RAIP	R	JAGD	R	UJJA	R	KOTA	R		
1	Siri-4527	5040	8	3954	13	9385	5	12034	1	3274	12	3981	7	5725	6	7013	8	7572	4	6240	4	3677	1	5666	4	6130	5
2	HTMH 5202	3222	13	4576	8	9630	4	10689	4	4638	7	4463	4	5948	5	7000	9	8004	2	6297	3	2984	8	5486	10	6078	6
3	DAS-MH-105	5282	6	4133	11	9011	9	11088	3	6014	2	4125	6	6321	2	7979	3	8160	1	5493	10	2810	12	5702	2	6343	3
4	X35D601	6100	3	6152	2	9278	6	9802	7	4682	5	4276	5	6543	1	8804	1	6937	6	6120	7	2951	10	5493	8	6428	1
5	DKC9133	5455	5	4181	10	9062	8	11178	2	4646	6	4986	1	6261	3	8127	2	7660	3	6460	1	3039	5	5689	3	6395	2
6	IM8556	6269	2	6243	1	8727	10	9991	6	4021	9	3344	11	5164	11	7764	5	6551	7	6326	2	3133	3	5239	13	6064	7
7	CP.999	4290	11	5968	3	9722	2	8499	10	5381	3	4645	2	6179	4	7698	6	5920	10	6137	6	2646	13	5619	5	6059	8
8	PRO-392	4621	9	4388	9	9117	7	8483	11	4759	4	4614	3	5451	9	7927	4	5883	11	5920	9	2974	9	5783	1	5827	9
9	DKC9141(IM8539)	6361	1	5659	4	9744	1	10641	5	6080	1	3253	12	5198	10	7108	7	6353	8	6144	5	3150	2	5606	6	6275	4
	CHECKS																										
10	PMH-1	5097	7	3983	12	8543	11	8634	9	4238	8	3591	9	5527	8	6606	11	4743	13	5402	12	2885	11	5340	12	5383	12
11	PMH-3	5582	4	5110	6	8038	13	8313	12	3693	10	3204	13	5539	7	6809	10	5596	12	5300	13	3019	7	5486	9	5474	10
12	Seedtech 2324	4089	12	4748	7	9659	3	6425	13	3374	11	3497	10	4664	12	6085	12	6310	9	5489	11	3031	6	5511	7	5240	13
13	BIO 9681	4586	10	5494	5	8417	12	8801	8	2541	13	3863	8	3960	13	5335	13	7431	5	5935	8	3118	4	5482	11	5414	11
	Location Mean	**5076**		**4968**		**9102**		**9583**		**4411**		**3988**		**5575**		**7250**		**6702**		**5943**		**3032**		**5546**		**5932**	
	C.D. (5%)	371		555		1535		1486		260		590		930		774		1007		805		132		278		727	
	C.V. (%)	4.33		6.62		9.99		9.18		3.49		8.76		9.88		6.32		8.9		8.02		2.57		2.96		-	
	F (Prob)	0		0		0.377		0		0		0		0		0		0		0.044		0		0.016			
	Plot Size	14.4		14.4		18		18		14.4		18		18		14		18		18		18		14.4		-	
	AGRONOMY DATA																										
	Sowing Date	27-06		10-07		9-07		3-07		16-07		18-07		2-07		1-07		7-07		1-07		16-07		6-07		-	
	Harvest Date	9-10		27-10		15-11		-		27-10		6-11		13-10		19-10		-		-		16-11		25-10		-	
	Irrigation Nos	3		1		-		-		-		2		-		2		-		-		-		2		-	
	Ferilizer Applied N	120		150		120		120		100		120		-		100		120		120		100		90		-	
	Ferilizer Applied P	60		80		60		60		50		60		-		50		60		60		60		30		-	
	Ferilizer Applied K	-		-		40		40		-		60		-		-		40		40		40		-		-	

TABLE No.16 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH-1												ZN 5 MEAN	GRAIN YIELD % SUPERIORITY OVER THE PMH-3											ZN 5 MEAN
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	
1	Siri-4527	-	-	9.9	39.4	-	10.9	3.6	6.2	59.6	15.5	27.4	6.1	13.9	-	-	16.7	44.8	-	24.3	3.4	3	35.3	17.7	21.8	3.3	12.0
2	HTMH 5202	-	14.9	12.7	23.8	9.4	24.3	7.6	6	68.8	16.6	3.4	2.7	12.9	-	-	19.8	28.6	25.6	39.3	7.4	2.8	43	18.8	-	-	11.0
3	DAS-MH-105	3.6	3.7	5.5	28.4	41.9	14.9	14.4	20.8	72	1.7	-	6.8	17.8	-	-	12.1	33.4	62.8	28.8	14.1	17.2	45.8	3.6	-	3.9	15.9
4	X35D601	19.7	54.5	8.6	13.5	10.5	19.1	18.4	33.3	46.3	13.3	2.3	2.9	19.4	9.3	20.4	15.4	17.9	26.8	33.5	18.1	29.3	24	15.5	-	0.1	17.4
5	DKC9133	7	5	6.1	29.5	9.6	38.9	13.3	23	61.5	19.6	5.3	6.5	18.8	-	-	12.7	34.5	25.8	55.6	13	19.3	36.9	21.9	0.7	3.7	16.8
6	IM8556	23	56.7	2.1	15.7	-	-	-	17.5	38.1	17.1	8.6	-	12.7	12.3	22.2	8.6	20.2	8.9	4.4	-	14	17.1	19.4	3.8	-	10.8
7	CP.999	-	49.8	13.8	-	27	29.3	11.8	16.5	24.8	13.6	-	5.2	12.6	-	16.8	20.9	2.2	45.7	45	11.6	13.1	5.8	15.8	-	2.4	10.7
8	PRO-392	-	10.2	6.7	-	12.3	28.5	-	20	24	9.6	3.1	8.3	8.3	-	-	13.4	2	28.9	44	-	16.4	5.1	11.7	-	5.4	6.4
9	DKC9141(IM8539)	24.8	42.1	14.1	23.2	43.5	-	-	7.6	34	13.7	9.2	5	16.6	14	10.8	21.2	28	64.6	1.5	-	4.4	13.5	15.9	4.4	2.2	14.6
	CHECKS																										
10	PMH-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6.3	3.9	14.8	12.1	-	-	-	1.9	-	-	-
11	PMH-3	9.5	28.3	-	-	-	-	0.2	3.1	18	-	4.6	2.7	1.7	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Seedtech 2324	-	19.2	13.1	-	-	-	-	-	33	1.6	5.1	3.2	-	-	-	20.2	-	-	9.2	-	-	12.8	3.6	0.4	0.4	-
13	BIO 9681	-	37.9	-	1.9	-	7.6	-	-	56.7	9.9	8.1	2.6	0.6	-	7.5	4.7	5.9	-	20.6	-	-	32.8	12	3.3	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtech 2324												ZN 5 MEAN	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681											ZN 5 MEAN
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	
1	Siri-4527	23.3	-	-	87.3	-	13.8	22.7	15.2	20	13.7	21.3	2.8	17	9.9	-	11.5	36.7	28.9	3	44.6	31.4	1.9	5.2	17.9	3.4	13.2
2	HTMH 5202	-	-	-	66.4	37.5	27.6	27.5	15	26.8	14.7	-	-	16	-	-	14.4	21.5	82.5	15.5	50.2	31.2	7.7	6.1	-	0.1	12.3
3	DAS-MH-105	29.2	-	-	72.6	78.2	18	35.5	31.1	29.3	0.1	-	3.5	21	15.2	-	7.1	26	136.7	6.8	59.6	49.5	9.8	-	-	4	17.2
4	X35D601	49.2	29.6	-	52.6	38.8	22.3	40.3	44.7	9.9	11.5	-	-	22.7	33	12	10.2	11.4	84.3	10.7	65.2	65	-	3.1	-	0.2	18.7
5	DKC9133	33.4	-	-	74	37.7	42.6	34.2	33.5	21.4	17.7	0.3	3.2	22	19	-	7.7	27	82.9	29.1	58.1	52.3	3.1	8.8	-	3.8	18.1
6	IM8556	53.3	31.5	-	55.5	19.2	-	10.7	27.6	3.8	15.3	3.4	-	15.7	36.7	13.6	3.7	13.5	58.2	-	30.4	45.5	-	6.6	0.5	-	12
7	CP.999	4.9	25.7	0.7	32.3	59.5	32.8	32.5	26.5	-	11.8	-	2	15.6	-	8.6	15.5	-	111.8	20.2	56	44.3	-	3.4	-	2.5	11.9
8	PRO-392	13	-	-	32	41	31.9	16.9	30.3	-	7.9	-	4.9	11.2	0.8	-	8.3	-	87.3	19.4	37.6	48.6	-	-	-	5.5	7.6
9	DKC9141(IM8539)	55.5	19.2	0.9	65.6	80.2	-	11.4	16.8	0.7	11.9	3.9	1.7	19.7	38.7	3	15.8	20.9	139.3	-	31.3	33.2	-	3.5	1	2.3	15.9
	CHECKS																										
10	PMH-1	24.6	-	-	34.4	25.6	2.7	18.5	8.6	-	-	-	-	2.7	11.1	-	1.5	-	66.8	-	39.6	23.8	-	-	-	-	-
11	PMH-3	36.5	7.6	-	29.4	9.5	-	18.7	11.9	-	-	-	-	4.5	21.7	-	-	-	45.4	-	39.9	27.6	-	-	-	0.1	1.1
12	Seedtech 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.8	-	32.8	-	17.8	14.1	-	-	-	0.5	-
13	BIO 9681	12.1	15.7	-	37	-	10.5	-	-	17.8	8.1	2.9	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 16 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING % UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	ZN 5 Mean	MOISTURE % AT HARVEST UDAI	BANS	CHHI	GODH	JHAB	BHIL	DAHO	KOTA	ZN 5 Mean
1	Siri-4527	81.5	74.8	89.6	84.5	78.5	76.8	73.8	84.2	84.5	83.4	77.2	80.8	21.6	17.5	15.5	15.9	26.1	25.4	15.2	18.1	19.4
2	HTMH 5202	77.3	77.4	87.2	80.6	81.3	78.7	80.5	86.9	80.6	81.7	76.0	80.7	20.3	17.2	12.9	17.2	26.4	25.1	14.7	16.2	18.7
3	DAS-MH-105	80.5	75.3	89.9	81.2	81.2	77.7	79.3	86.8	81.2	81.5	74.2	80.8	22.2	17.6	17.1	14.5	26.0	25.2	18.6	18.0	19.9
4	X35D601	81.8	81.4	86.4	81.0	77.6	77.5	76.7	87.2	81.0	82.0	73.9	80.6	20.2	18.3	15.4	14.2	26.3	21.6	16.4	17.6	18.7
5	DKC9133	82.2	75.3	87.7	82.1	77.6	77.2	78.8	85.3	82.1	82.7	73.9	80.4	21.4	17.9	17.7	16.4	27.2	26.5	17.8	17.8	20.3
6	IM8556	80.5	79.6	88.4	81.9	87.8	77.2	76.0	86.2	81.9	82.9	75.1	81.6	21.7	18.1	16.8	14.6	24.7	24.3	15.1	16.5	19.0
7	CP.999	81.0	80.9	88.6	80.0	82.2	75.6	75.8	85.9	80.0	81.7	72.9	80.4	21.3	18.4	15.4	16.0	26.3	25.0	16.0	18.3	19.6
8	PRO-392	80.1	75.3	91.7	78.3	79.7	76.3	76.9	86.4	78.3	80.3	72.7	79.6	22.3	18.0	15.2	15.4	26.6	24.5	15.6	18.5	19.5
9	DKC9141(IM8539) CHECKS	80.5	79.1	87.9	80.9	84.6	74.2	72.0	82.4	80.9	81.8	72.7	79.7	22.0	17.9	12.7	14.6	24.5	25.6	14.3	18.7	18.8
10	PMH-1	80.2	74.3	88.6	78.3	82.1	75.0	75.7	82.9	78.3	80.1	72.6	78.9	21.5	17.5	18.4	15.4	25.3	25.3	19.8	17.1	20.0
11	PMH-3	80.2	78.6	87.8	77.1	83.3	79.1	75.6	86.6	77.1	79.3	74.9	80.0	22.1	17.9	17.8	14.7	24.0	24.8	20.9	18.1	20.0
12	Seedtech 2324	80.2	77.0	87.7	75.9	78.0	76.8	77.7	84.3	75.9	79.0	72.1	78.6	20.3	17.9	14.3	16.4	24.7	23.7	15.8	18.0	18.9
13	BIO 9681	81.4	77.8	90.1	80.8	81.7	76.8	78.1	84.7	80.8	81.5	75.2	80.8	20.5	17.8	12.9	17.2	25.2	24.3	13.6	17.1	18.6
	Loc. Mean	**80.6**	**77.4**	**88.6**	**80.2**	**81.2**	**76.8**	**76.7**	**85.4**	**80.2**	**81.4**	**74.1**	**80.2**	**21.3**	**17.8**	**15.6**	**15.6**	**25.6**	**24.7**	**16.4**	**17.7**	**19.3**
	C.D. (5%)	0.42	2.06	4.02	2.62	1.85	2.84	2.04	1.69	2.62	2.31	0.30	1.57	0.24	0.34	1.98	0.53	0.88	1.80	0.35	0.31	1.22
	C.V. (%)	0.31	1.58	2.70	1.94	1.35	2.20	1.58	1.18	1.94	1.69	0.24	2.31	0.66	1.12	7.55	2.03	2.04	4.32	1.25	1.03	6.32
	F (Prob)	0.00	0.00	0.43	0.00	0.00	0.08	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean	DAYS TO 50% POLLEN SHED UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean
1	Siri-4527	50.5	60.6	64.8	70.6	60.0	53.0	63.0	39.5	64.6	61.5	61.3	65.3	59.5	56.0	52.3	57.0	52.0	54.0	53.0	53.0	48.3	52.0	57.0	53.7	55.0	53.6
2	HTMH 5202	56.3	60.2	60.7	70.4	59.0	47.0	60.6	45.7	64.6	62.6	60.4	61.3	59.1	55.7	51.0	55.0	57.0	53.3	52.0	52.7	49.0	51.0	51.3	58.0	53.3	53.3
3	DAS-MH-105	56.3	60.2	58.5	70.6	70.8	50.0	52.8	42.1	63.0	55.0	61.3	63.9	58.7	58.7	51.0	56.3	54.0	52.3	53.0	55.0	51.3	49.7	53.3	53.0	56.0	53.6
4	X35D601	50.7	61.6	61.1	68.9	51.6	49.6	55.6	43.6	63.0	58.7	62.0	63.7	57.5	59.3	51.3	59.0	60.3	54.0	54.0	55.3	53.7	53.0	56.0	54.3	57.3	55.6
5	DKC9133	57.9	59.7	64.8	71.3	73.1	54.4	62.6	49.3	64.1	63.7	60.9	63.9	62.1	57.3	51.0	56.0	53.3	57.0	53.0	54.0	52.7	50.7	60.3	55.0	57.3	54.8
6	IM8556	50.5	61.6	62.0	66.7	53.5	47.0	55.7	47.1	62.6	59.3	60.2	61.3	57.3	59.7	52.0	59.0	59.0	52.7	54.3	55.3	53.7	54.7	51.3	57.0	59.0	55.6
7	CP.999	48.6	62.5	62.4	64.1	62.3	52.4	58.3	44.5	64.4	59.4	62.0	65.5	58.9	59.0	52.7	57.7	61.0	57.0	53.3	56.3	56.0	52.3	56.0	53.7	59.7	56.2
8	PRO-392	57.2	61.8	65.4	63.0	62.7	50.0	51.5	43.1	65.6	58.5	61.3	64.6	58.7	56.3	52.7	55.0	54.0	55.0	50.7	53.0	50.3	51.0	54.0	56.7	54.0	53.6
9	DKC9141(IM8539) CHECKS	49.3	62.5	60.9	68.3	53.7	43.5	56.1	34.5	63.1	61.5	62.0	65.0	56.7	62.3	52.0	59.3	61.0	52.0	55.7	55.7	59.0	54.3	56.0	57.0	59.0	56.9
10	PMH-1	52.5	59.7	60.6	65.7	38.7	48.7	57.6	36.7	60.7	58.3	60.7	63.0	55.2	58.7	54.0	56.3	58.0	63.0	48.0	54.0	54.3	50.0	54.3	56.0	57.3	55.3
11	PMH-3	49.3	57.9	45.9	65.9	57.9	42.6	49.3	40.5	62.4	62.0	60.2	64.4	54.9	58.0	52.0	57.3	59.0	55.0	54.3	54.3	54.3	50.0	53.3	53.7	56.7	54.8
12	Seedtech 2324	59.0	58.3	46.7	61.9	45.4	47.6	54.3	39.3	64.4	63.0	61.1	63.0	55.3	57.7	53.0	55.3	57.0	55.0	54.7	53.7	52.0	52.0	56.0	53.3	55.3	54.6
13	BIO 9681	55.8	60.9	60.9	64.6	31.5	46.9	47.8	39.8	64.4	62.2	60.9	63.7	54.9	56.3	51.0	55.3	51.7	52.0	52.7	51.7	49.3	50.0	54.0	54.0	51.7	52.5
	Loc. Mean	**53.4**	**60.6**	**59.6**	**67.1**	**55.4**	**48.7**	**55.8**	**42.0**	**63.6**	**60.4**	**61.1**	**63.7**	**57.6**	**58.1**	**52.0**	**56.8**	**56.7**	**54.8**	**53.0**	**54.2**	**52.6**	**51.6**	**54.8**	**55.0**	**56.3**	**54.7**
	C.D. (5%)	3.55	5.09	7.00	2.93	2.62	7.16	6.46	6.71	3.51	3.72	0.54	2.02	3.52	0.89	1.89	1.09	1.81	2.64	2.44	2.24	2.64	2.22	1.31	1.03	1.34	1.51
	C.V. (%)	3.95	4.99	6.97	2.59	2.80	8.73	6.88	9.49	3.27	3.66	0.52	1.89	7.56	0.91	2.15	1.14	1.90	2.85	2.73	2.45	2.98	2.56	1.42	1.11	1.41	3.43
	F (Prob)	0.00	0.75	0.00	0.00	0.00	0.07	0.00	0.01	0.37	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 16 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING													DAYS TO 75% DRY HUSK										
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean
1	Siri-4527	57.3	55.3	58.0	55.3	56.0	55.0	57.0	51.0	55.0	60.3	59.0	56.7	56.3	89.7	94.3	93.3	94.3	88.0	88.7	87.0	96.0	104.7	94.7	91.0	92.9
2	HTMH 5202	57.3	54.0	56.0	60.0	55.3	54.0	56.3	51.0	53.0	55.0	60.0	56.0	55.7	94.3	92.7	96.0	100.7	86.0	88.7	85.3	91.0	98.3	93.0	92.0	92.5
3	DAS-MH-105	60.7	54.0	57.7	57.0	54.3	56.0	59.7	53.0	54.0	57.7	57.7	57.3	56.6	93.3	92.7	96.0	97.7	86.0	90.7	87.7	95.0	100.3	94.0	94.3	93.4
4	X35D601	61.7	54.3	60.0	63.3	56.0	56.7	60.0	57.3	58.3	59.7	59.0	59.0	58.8	95.0	94.0	97.3	102.7	86.0	90.7	86.7	97.0	103.0	95.0	93.3	94.6
5	DKC9133	58.7	54.0	57.3	56.7	59.0	55.3	58.3	55.7	54.0	63.3	59.3	58.3	57.5	95.7	92.3	95.7	96.3	90.0	88.3	83.0	95.7	105.0	94.0	91.0	93.4
6	IM8556	62.3	55.0	60.3	62.0	54.7	57.3	60.0	58.3	58.7	55.7	61.3	61.7	58.9	94.0	93.3	98.7	97.7	86.3	98.3	87.0	99.3	99.7	95.0	96.7	95.1
7	CP.999	61.7	55.7	58.7	63.7	59.0	55.7	61.0	60.0	56.0	59.7	58.7	62.7	59.4	96.0	94.7	97.0	104.3	90.0	91.3	85.7	94.3	104.7	93.0	94.7	95.1
8	PRO-392	57.3	55.7	56.0	57.0	57.0	53.0	56.7	55.0	53.0	58.0	59.7	55.3	56.1	90.7	93.3	94.7	100.0	88.0	88.7	86.0	85.0	104.3	92.0	89.0	92.0
9	DKC9141(IM8539)	64.0	55.0	60.3	64.0	54.0	59.0	60.3	59.7	58.7	60.0	61.3	63.0	59.9	98.0	93.0	98.0	104.7	85.0	91.3	87.0	97.0	104.0	95.0	96.7	95.4
	CHECKS																									
10	PMH-1	61.0	57.0	57.3	61.7	62.0	51.3	59.0	59.3	52.3	58.3	61.3	59.7	58.4	94.0	94.0	95.3	97.3	97.0	88.7	85.0	83.0	103.0	94.0	89.0	92.8
11	PMH-3	59.7	55.0	58.3	62.0	57.0	57.0	58.7	58.3	53.0	57.3	59.0	58.7	57.8	94.3	92.7	96.3	101.0	88.0	88.3	86.0	85.3	95.0	93.0	92.0	92.0
12	Seedtech 2324	60.3	56.0	56.3	60.0	57.0	56.7	58.3	57.3	54.0	60.7	57.7	57.0	57.6	95.3	93.3	92.7	97.7	88.0	88.7	81.3	84.3	98.0	95.0	91.7	91.5
13	BIO 9681	57.7	54.0	56.3	54.7	54.0	54.7	56.0	53.3	52.3	57.7	59.3	53.0	55.3	82.3	92.3	91.0	92.7	84.7	87.0	82.3	83.7	98.7	94.3	87.7	88.8
	Loc. Mean	**60.0**	**55.0**	**57.9**	**59.8**	**56.6**	**55.5**	**58.6**	**56.1**	**54.8**	**58.7**	**59.5**	**58.3**	**57.6**	**93.3**	**93.3**	**95.5**	**99.0**	**87.9**	**89.9**	**85.4**	**91.3**	**101.4**	**94.0**	**92.2**	**93.0**
	C.D. (5%)	1.19	1.89	1.07	2.32	1.22	2.41	2.24	3.81	1.97	1.57	2.82	1.34	1.45	8.42	1.84	2.36	6.81	0.58	1.76	3.25	3.18	1.72	0.40	1.89	2.34
	C.V. (%)	1.18	2.03	1.09	2.31	1.28	2.58	2.27	4.03	2.13	1.59	2.81	1.36	3.12	5.36	1.17	1.47	4.08	0.39	1.16	2.26	2.07	1.01	0.25	1.22	2.97
	F (Prob)	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.10	0.20	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

S.No.	PEDIGREE	PLANT HEIGHT(cm)													EAR HEIGHT(cm)										
		UDAI	BANS	CHHI	AMBI	GODH	JHAB	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean	UDAI	BANS	CHHI	AMBI	GODH	BHIL	DAHO	RAIP	JAGD	UJJA	KOTA	ZN 5 Mean
1	Siri-4527	182	175	203	267	170	178	171	248	273	220	197	203	207	77	82	100	106	83	81	96	112	81	69	100	90
2	HTMH 5202	150	192	187	279	167	170	170	229	275	225	201	195	203	82	83	90	104	86	78	100	131	102	65	97	92
3	DAS-MH-105	150	177	190	257	154	182	173	242	269	215	197	183	199	72	78	93	95	80	80	99	122	94	78	83	89
4	X35D601	192	212	212	286	170	184	183	259	242	207	199	195	212	102	98	110	120	84	89	127	112	86	80	98	101
5	DKC9133	191	195	220	294	191	189	169	262	268	220	230	210	220	77	83	103	112	86	76	106	124	100	81	102	96
6	IM8556	195	203	210	294	178	156	175	296	247	207	203	193	213	85	92	110	113	79	83	129	114	89	65	95	96
7	CP.999	183	201	215	286	174	176	175	289	261	211	206	195	214	83	92	103	101	77	72	110	106	83	81	97	91
8	PRO-392	200	200	205	273	167	167	179	267	261	216	207	195	211	90	93	90	102	89	82	110	108	82	58	93	91
9	DKC9141(IM8539)	218	213	250	314	169	183	155	308	315	248	226	203	234	103	108	105	121	78	74	127	133	106	88	100	104
	CHECKS																									
10	PMH-1	195	190	213	303	195	179	194	292	272	222	200	192	221	92	77	117	131	81	89	125	119	92	76	95	99
11	PMH-3	193	200	220	308	182	186	187	264	269	227	205	207	221	97	88	113	134	91	81	109	128	99	81	102	102
12	Seedtech 2324	155	205	193	256	185	162	172	250	225	206	220	190	202	82	90	107	93	74	70	112	111	87	86	92	91
13	BIO 9681	195	187	197	279	143	168	179	241	245	212	202	195	203	93	93	85	93	75	82	92	92	73	75	97	86
	Loc. Mean	**185**	**196**	**209**	**284**	**173**	**176**	**175**	**265**	**263**	**218**	**207**	**197**	**212**	**87**	**89**	**102**	**110**	**82**	**80**	**111**	**116**	**90**	**76**	**96**	**94**
	C.D. (5%)	10.5	26.4	16.9	30.5	21.3	10.9	12.3	31.5	26.2	18.5	5.0	10.1	10.3	5.8	15.9	14.5	11.6	21.1	10.4	12.6	12.8	9.8	3.5	8.8	6.9
	C.V. (%)	3.4	8.0	4.8	6.4	7.3	3.7	4.2	7.0	5.9	5.0	1.4	3.0	6.0	4.0	10.6	8.4	6.3	15.3	7.7	6.8	6.5	6.4	2.8	5.4	8.7
	F (Prob)	0.00	0.12	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.86	0.02	0.00	0.00	0.00	0.00	0.02	0.00

TABLE No. 17: PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, BARAPANI, LUDHIANA, KARNAL, KANPUR, PANTNAGAR, DHOLI, RANCHI, BHUBANESWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. QPM123 DURING KHARIF (2015)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																													
SI										NHZ									NWPZ											NEPZ	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
1	IIMRQPMH 1506	5108	26	6664	8	4316	22	2734	32	5363	21	6527	32	9291	7	4929	25	8443	15	7297	26	3080	20	7914	9	5417	11	4952	13	4649	29	5733	19
2	LQPMH 215	3965	39	7298	3	4422	17	3862	14	5229	25	6945	26	8683	19	5453	9	8070	24	7287	27	2403	37	6997	24	5366	13	3334	30	5743	20	5360	26
3	AQH8(EDV)	5309	22	6532	14	4786	11	3016	26	5542	12	9829	6	8676	20	5727	2	10984	2	8804	1	5057	2	8633	5	4642	31	5667	5	7567	3	6627	3
4	VEHQ14-1	5293	23	5973	25	3606	38	3383	21	4957	31	10067	4	8032	29	4945	24	10341	3	8346	6	2644	34	7086	20	6039	5	5150	12	6871	10	6286	6
5	PMSQ5	5615	16	6023	23	3502	39	3582	20	5046	30	5233	37	8279	23	4747	30	7595	32	6463	36	3319	16	7031	23	5153	20	2903	35	4354	30	4860	31
6	LQPMH 415	6411	3	5617	32	5710	4	4123	8	5913	6	6592	30	8771	15	5193	17	7679	29	7059	28	2571	35	5799	36	5097	24	2664	38	5421	23	4745	33
7	IIMRQPMH 1504	5189	25	6271	20	3936	32	1496	39	5132	29	8283	17	8272	24	5387	11	8545	14	7622	15	3413	15	6959	25	4745	29	3700	27	5384	25	5197	27
8	IIMRQPMH 1502	6350	5	6625	12	6221	2	3747	15	6399	1	7031	25	11197	1	5007	22	9258	9	8123	8	3215	17	7952	8	4443	33	4382	20	6659	12	5859	17
9	AQH4 (EDV)	4883	29	5507	34	5930	3	3934	11	5440	17	6825	28	6876	36	5466	7	8179	20	6836	32	3561	10	7315	15	4694	30	5530	6	7498	5	6260	8
10	MHQPM-10-15	5678	15	4838	38	4097	27	5165	1	4871	34	2826	39	8696	18	5605	6	6002	37	5782	38	2512	36	5897	34	4559	32	3126	34	4746	28	4582	35
11	APQH9(EDV)	6212	6	6652	11	3835	35	2757	31	5566	10	9319	8	9490	4	5316	13	7466	33	7898	13	2650	33	7185	19	5237	16	6054	1	5918	18	6098	11
12	IIMRQPMH 1510	4829	31	5845	27	4084	28	5050	2	4919	33	9135	13	7618	33	5328	12	8078	23	7540	19	3190	18	6629	29	6204	2	4844	15	7378	6	6264	7
13	AQH9(EDV)	4840	30	6663	9	4196	25	3629	17	5233	24	9184	12	9097	13	4854	27	9162	11	8074	10	3776	5	8568	7	4768	28	4192	22	3950	36	5369	25
14	BAUQMH-18	4807	32	4808	39	3877	33	2771	30	4497	39	6162	34	7888	31	4878	26	8044	25	6743	33	2177	38	7646	14	5117	22	3376	29	5576	22	5429	23
15	IIMRQPMH 1505	4164	38	5940	26	3804	36	3092	24	4636	37	9198	11	9248	8	5389	10	7854	26	7922	12	3725	7	7040	22	5736	7	4541	18	7606	2	6231	9
16	FQH 106	6052	7	6189	21	6257	1	2594	36	6166	3	5506	36	10379	2	6012	1	7630	31	7382	21	2878	27	5830	35	5110	23	2804	36	4170	33	4479	36
17	BQPMH 36	5916	12	6303	18	4369	20	2813	29	5529	14	9962	5	9436	6	5055	21	8184	19	8159	7	5059	1	7665	13	6130	4	4406	19	3377	38	5395	24
18	EHQ-63	4203	37	6417	16	3872	34	3957	10	4831	35	10464	3	6853	37	5251	16	11096	1	8416	5	3031	24	5969	33	4302	35	3238	32	3969	35	4369	37
19	IIMRQPMH 1507	6019	9	5712	30	4578	14	2998	27	5436	19	6562	31	9554	3	4682	36	8663	12	7365	24	3017	25	4938	38	5318	14	3201	33	6432	15	4972	29
20	IHQ-091	4285	35	5451	36	4017	29	2664	34	4584	38	5041	38	5357	39	4608	37	5968	38	5244	39	1967	39	5349	37	4433	34	2336	39	4814	27	4233	38
21	BQPMH 141 (EDV	6413	2	7762	1	4701	13	5029	3	6292	2	9667	7	9217	10	5459	8	10199	4	8635	2	3068	22	8903	2	5300	15	5247	10	4225	31	5919	15
22	IIMRQPMH 1508	4279	36	6171	22	5520	6	2686	33	5323	23	8053	20	9485	5	5083	19	7772	28	7598	17	3515	12	5992	32	5378	12	4160	24	3725	37	4814	32
23	LQPMH 315	5947	11	6291	19	4141	26	3060	25	5460	16	6050	35	8057	28	4520	38	5763	39	6098	37	2824	30	4938	39	3731	39	3314	31	4200	32	4046	39
24	IIMRQPMH 1503	6033	8	6503	15	5672	5	1918	38	6069	5	8706	15	8745	16	5155	18	9408	8	8003	11	3134	19	6563	30	5776	6	5426	7	5832	19	5899	16
25	VEHQ15-1	5774	14	6905	4	3635	37	3887	13	5438	18	8956	14	8105	27	4705	35	9789	7	7889	14	3796	4	7841	10	5528	9	4310	21	6515	14	6048	13
26	LQPMH 115	5483	18	5656	31	4506	15	3896	12	5215	26	6228	33	8255	25	4732	33	7320	34	6634	35	3458	14	7196	18	3807	38	3665	28	4097	34	4691	34
27	EHQ-64	5291	24	7491	2	4715	12	3639	16	5832	7	7874	21	9126	12	4791	28	8155	21	7487	20	3055	23	8953	1	5211	18	5681	4	7368	7	6803	2
28	IIMRQPMH 1501	5330	19	5983	24	5246	7	3336	23	5520	15	7392	24	9141	11	4740	31	8230	18	7376	22	2839	28	8575	6	6310	1	5718	3	8536	1	7285	1
29	IIMRQPMH 1509	4723	33	6372	17	4377	19	4052	9	5158	28	8083	19	5844	38	5658	5	7264	35	6712	34	3538	11	7292	16	5179	19	4009	25	6161	16	5660	20
30	HQPM 26	6006	10	5825	28	4857	10	2661	35	5563	11	8266	18	7430	34	5692	4	8107	22	7374	23	3607	8	7796	11	5431	10	4712	17	5279	26	5805	18
	CHECKS																																

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																															
		NHZ										NWPZ																		NEPZ			
		ALMO	R	BAJA	R	KANG	R	BARA	R	MEAN	R	LUDH	R	KARN	R	KANP	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
31	HM8	4721	34	6828	6	4423	16	4648	5	5324	22	9309	9	8563	21	4738	32	7654	30	7566	18	4256	3	6740	26	4941	27	4184	23	6628	13	5623	21
32	HM9	5319	21	6659	10	5069	9	3363	22	5682	9	11427	1	7311	35	5722	3	9886	5	8586	3	3013	26	6370	31	5211	17	2677	37	5392	24	4913	30
33	HM4	5592	17	5595	33	4384	18	3594	19	5191	27	6615	29	8140	26	4758	29	8289	16	6951	30	2828	29	6660	27	5071	25	5422	8	7113	9	6066	12
34	DHM117	6391	4	6905	5	5100	8	4380	6	6132	4	10529	2	9225	9	5294	14	9169	10	8554	4	2798	31	8867	3	5148	21	5196	11	7264	8	6619	4
35	Vivek QPM9	7040	1	5761	29	4295	24	2411	37	5699	8	6855	27	7678	32	5056	20	8232	17	6955	29	3757	6	7223	17	3968	37	4752	16	6006	17	5487	22
36	HQPM1	4952	27	5489	35	4342	21	4168	7	4928	32	7631	22	7920	30	5253	15	8588	13	7348	25	3469	13	7691	12	5669	8	4853	14	5671	21	5971	14
37	HQPM4	4933	28	5435	37	3947	31	4785	4	4771	36	9293	10	8453	22	4710	34	9851	6	8077	9	2744	32	7063	21	6144	3	6042	2	6796	11	6511	5
38	HQPM5	5883	13	6765	7	3954	30	3626	18	5534	13	8685	16	8985	14	4951	23	7847	27	7617	16	3077	21	8848	4	4139	36	3788	26	3291	39	5017	28
39	HQPM7	5327	20	6584	13	4315	23	2994	28	5409	20	7620	23	8744	17	4355	39	7061	36	6945	31	3588	9	6634	28	5002	26	5369	9	7549	4	6138	10
	Location Mean	**5399**		**6213**		**4529**		**3474**		**5380**		**7896**		**8465**		**5108**		**8354**		**7456**		**3221**		**7142**		**5114**		**4331**		**5737**		**5581**	
	C.D. (5%)	728		725		545		2466		666		1229		254		403		1243		782		1366		1467		443		754		872		884	
	C.V. (%)	8.29		7.18		5.94		**43.64**		**-**		9.57		1.85		4.85		9.15		**-**		**26.08**		12.63		5.33		10.71		9.35		**-**	
	F (Prob)	0		0		0		0.551				0		0		0		0				0.014		0		0		0		0			
	Plot Size	5.4		7.2		5.76		4.8		-		9.6		12		9.6		12		-		12		11.2		9.6		9.6		9.6		-	
	AGRONOMY DATA																																
	Sowing Date	15-07		6-07		23-06		7-01		-		3-07		29-06		8-08		24-06		-		9-07		4-07		30-06		26-06		5-07		-	
	Harvest Date	12-11		5-11		4-10		25-10		-		8-10		30-09		11-29		15-10		-		16-10		15-10		28-10		5-10		3-10		-	
	Irrigation Nos	-		3		-		-		-		5		5		3		1		-		1		-		-		1		-		-	
	Ferilizer Applied N	100		120		120		80		-		50		150		120		120		-		120		120		120		120		120		-	
	Ferilizer Applied P	60		60		60		60		-		24		60		60		60		-		60		60		60		60		60		-	
	Ferilizer Applied K	40		40		40		40		-		12		60		50		40		-		40		40		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17: (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ MEAN	R	OV'L MEAN	R
1	IIMRQPMH 1506	6376	15	7245	1	7399	22	8029	24	7307	13	7271	13	7655	10	6626	22	5608	30	6914	21	5118	5	6384	19	6499	19
2	LQPMH 215	6103	21	4653	30	8040	15	7589	31	7090	22	6695	22	7233	24	6374	27	5378	33	7331	18	4390	13	6141	28	6212	26
3	AQH8(EDV)	4047	34	5741	11	7109	27	7206	35	7956	5	6412	25	7791	5	7140	9	7702	1	9026	1	5170	3	7366	1	7011	2
4	VEHQ14-1	6687	11	6263	6	9029	3	7161	37	9078	1	7644	5	7791	6	6648	21	6714	18	6390	29	3511	32	6211	27	6794	8
5	PMSQ5	3540	38	4252	33	6418	34	7945	27	6809	27	5793	34	7081	27	6352	29	5081	35	5785	34	4311	15	5722	33	5620	35
6	LQPMH 415	3262	39	5008	24	7406	21	7494	32	5771	33	5788	35	6269	33	6190	31	5649	29	6612	25	5197	2	5983	31	5896	33
7	IIMRQPMH 1504	5214	30	5430	16	8101	12	8390	20	7244	17	6876	21	7209	25	7122	11	7269	6	6598	26	3651	29	6370	21	6328	24
8	IIMRQPMH 1502	6342	16	5879	9	9510	1	9496	5	7940	6	7833	4	6789	28	6903	16	6797	15	8250	7	2507	36	6249	26	6930	5
9	AQH4 (EDV)	6282	17	5685	14	6843	30	10046	1	7034	23	7178	14	7519	16	6963	15	6575	20	6573	27	2816	34	6089	29	6430	21
10	MHQPM-10-15	5460	28	3341	38	5904	38	8187	22	5483	38	5675	37	5439	39	5948	34	3483	39	4423	39	4280	16	4715	38	5144	38
11	APQH9(EDV)	4723	31	5092	23	7370	23	8540	17	5540	35	6253	31	7543	15	6069	32	6954	10	7508	13	3989	22	6413	18	6477	20
12	IIMRQPMH 1510	5515	27	5324	18	6165	37	7943	28	6879	25	6365	26	7146	26	6390	25	5211	34	7473	14	3871	24	6018	30	6281	25
13	AQH9(EDV)	6592	12	6039	8	8804	6	9226	9	7252	16	7583	7	7325	23	8212	1	7214	7	8262	5	3707	28	6944	2	6767	10
14	BAUQMH-18	5590	25	4167	34	6184	36	6989	38	7175	20	6021	33	7371	22	7136	10	5075	36	5748	35	4429	11	5952	32	5812	34
15	IIMRQPMH 1505	7340	3	5418	17	7833	16	9025	13	7190	18	7361	11	7728	9	7714	4	6158	25	7332	17	4163	18	6619	7	6687	12
16	FQH 106	4356	33	4852	29	7289	24	7186	36	7589	10	6254	30	5510	38	7587	5	6736	17	7398	16	5440	1	6534	14	6185	29
17	BQPMH 36	6924	7	5727	12	8961	4	9357	6	8570	2	7908	3	7480	17	6382	26	6872	13	8047	10	3791	27	6514	15	6805	7
18	EHQ-63	7839	2	6772	2	8444	10	9248	8	8137	3	8088	2	7841	3	6368	28	7045	9	8193	8	4623	7	6814	5	6673	14
19	IIMRQPMH 1507	5607	24	5162	21	7285	25	7978	26	7302	14	6667	23	6260	34	5916	35	6255	23	8722	3	4185	17	6268	25	6206	28
20	IHQ-091	3599	37	3255	39	5328	39	5676	39	5498	37	4671	39	5835	37	3726	38	5040	37	4580	38	2450	39	4326	39	4602	39
21	BQPMH 141 (EDV	6698	10	4884	27	8048	14	9353	7	8088	4	7414	9	6571	31	5445	37	7433	3	8254	6	4543	9	6449	16	6972	4
22	IIMRQPMH 1508	5825	22	4337	32	6883	29	7473	33	7101	21	6324	29	7441	19	7931	3	6582	19	6998	19	4158	19	6622	6	6207	27
23	LQPMH 315	4592	32	3882	37	6430	33	8236	21	5520	36	5732	36	5972	36	6773	19	3718	38	4696	37	2456	38	4723	37	5201	37
24	IIMRQPMH 1503	6394	14	4489	31	7147	26	7713	29	6737	28	6496	24	7469	18	6900	17	6497	22	6915	20	4336	14	6423	17	6591	15
25	VEHQ15-1	5715	23	5198	20	8459	9	9650	2	6835	26	7171	15	7550	14	7502	6	6915	12	6666	24	4447	10	6616	9	6714	11
26	LQPMH 115	3954	35	4160	35	6709	31	7289	34	4509	39	5324	38	6622	30	2181	39	5492	31	6222	32	4065	20	4916	36	5340	36
27	EHQ-64	7152	4	6059	7	8222	11	9531	4	6658	30	7524	8	8647	1	6281	30	7353	4	6804	23	3933	23	6604	10	6919	6
28	IIMRQPMH 1501	6866	8	5435	15	7655	18	8138	23	7281	15	7075	17	7644	11	6853	18	5482	32	7445	15	4428	12	6370	20	6782	9
29	IIMRQPMH 1509	5294	29	4015	36	7568	19	8631	14	6146	31	6331	28	7432	21	6738	20	6944	11	5829	33	4619	8	6313	24	6104	31
30	HQPM 26	5535	26	5131	22	8880	5	8590	15	7382	11	7104	16	7823	4	7398	7	5915	26	6529	28	4062	21	6345	23	6507	18
	CHECKS																										

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
		HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	PZ MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	CWZ MEAN	R	OV'L MEAN	R
31	HM8	6150	19	4895	25	6378	35	8532	18	5824	32	6356	27	6688	29	7057	13	6851	14	8726	2	3515	31	6567	11	6350	23
32	HM9	8753	1	6534	4	9062	2	9627	3	7850	8	8365	1	7905	2	7014	14	6520	21	7607	12	5127	4	6835	4	7002	3
33	HM4	6126	20	6337	5	7556	20	9195	10	7844	9	7411	10	7440	20	6494	24	6175	24	7807	11	4880	6	6559	12	6547	17
34	DHM117	6734	9	5763	10	8554	7	9071	12	7874	7	7599	6	7642	12	7099	12	7111	8	8719	4	3838	26	6882	3	7214	1
35	Vivek QPM9	3950	36	5712	13	7824	17	8026	25	5603	34	6223	32	6306	32	5867	36	5894	27	6374	30	2499	37	5388	34	5949	32
36	HQPM1	6428	13	6665	3	6687	32	7671	30	6987	24	6888	20	7782	7	6576	23	7304	5	6862	22	3294	33	6363	22	6396	22
37	HQPM4	7073	6	4888	26	7082	28	8473	19	7307	12	6965	19	7771	8	7963	2	6762	16	6362	31	3861	25	6544	13	6677	13
38	HQPM5	6166	18	4868	28	8091	13	8585	16	7183	19	6978	18	5974	35	5960	33	5830	28	5305	36	3634	30	5340	35	6130	30
39	HQPM7	7130	5	5201	19	8479	8	9115	11	6733	29	7332	12	7620	13	7156	8	7636	2	8054	9	2622	35	6618	8	6586	16
	Location Mean	**5844**		**5225**		**7568**		**8349**		**6982**		**6794**		**7157**		**6589**		**6288**		**7009**		**3998**		**6208**		**6347**	
	C.D. (5%)	904		627		1734		698		464		885		1181		1163		1580		1120		428		1094		884	
	C.V. (%)	9.51		7.38		14.09		5.14		4.08		-		10.15		10.85		15.44		9.82		6.58		-		-	
	F (Prob)	0		0		0		0		0				0		0		0		0		0					
	Plot Size	12		12		9.6		11.2		12		-		9.6		9.6		12		12		4.8		-		-	
	AGRONOMY DAT/																										
	Sowing Date	29-06		29-06		3-08		29-07		7-07		-		6-07		25-06		9-07		1-07		16-07		-		-	
	Harvest Date	21-10		27-10		14-12		21-12		23-10		-		20-10		20-10		18-11		-		28-10		-		-	
	Irrigation Nos	3		8		3		7		9		-		3		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		-		120		150		120		120		100		-		-	
	Ferilizer Applied P	60		60		75		75		75		-		90		80		60		60		50		-		-	
	Ferilizer Applied K	50		50		37.5		40		75		-		-		-		40		40		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ					NWPZ											NEPZ						PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	8.2	-	-	-	0.7	-	8.5	4	10.3	-	-	17.4	9.6	18.3	-	2	3.7	48	16	-	25.5	14.4	14.5	-	-	-	45.6	-	2.4
2	LQPMH 215	-	6.9	-	-	-	-	1.4	15.1	5.4	-	-	3.8	8.6	-	-	-	-	-	26.1	-	21.7	5.3	8.1	-	-	-	24.9	-	-
3	AQH8(EDV)	12.4	-	8.2	-	4.1	5.6	1.3	20.9	43.5	16.4	18.8	28.1	-	35.5	14.2	17.9	-	17.3	11.5	-	36.6	0.9	16.5	1.2	12.4	3.4	47.1	12.2	10.4
4	VEHQ14-1	12.1	-	-	-	-	8.1	-	4.4	35.1	10.3	-	5.1	22.2	23.1	3.7	11.8	8.7	28	41.6	-	55.9	20.3	16.5	-	-	-	-	-	7
5	PMSQ5	18.9	-	-	-	-	-	-	0.2	-	-	-	4.3	4.3	-	-	-	-	-	0.6	-	16.9	-	5.9	-	-	-	22.6	-	-
6	LQPMH 415	35.8	-	29.1	-	11.1	-	2.4	9.6	0.3	-	-	-	3.2	-	-	-	-	2.3	16.1	-	-	-	-	-	-	-	47.8	-	-
7	IIMRQPMH 1504	9.9	-	-	-	-	-	-	13.7	11.6	0.7	-	3.2	-	-	-	-	-	10.9	27	-	24.4	8.2	7.8	0.9	6.1	-	3.9	-	-
8	IIMRQPMH 1502	34.5	-	40.7	-	20.2	-	30.8	5.7	21	7.4	-	18	-	4.7	0.5	4.2	3.1	20.1	49.1	11.3	36.3	23.3	1.5	-	-	-	-	-	9.1
9	AQH4 (EDV)	3.4	-	34.1	-	2.2	-	-	15.4	6.9	-	-	8.5	-	32.2	13.1	11.3	2.2	16.1	7.3	17.8	20.8	12.9	12.4	-	-	-	-	-	1.3
10	MHQPM-10-15	20.3	-	-	11.1	-	-	1.6	18.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21.8	-	-
11	APQH9(EDV)	31.6	-	-	-	4.6	0.1	10.8	12.2	-	4.4	-	6.6	6	44.7	-	8.4	-	4	15.5	0.1	-	-	12.8	-	1.5	-	13.5	-	2
12	IIMRQPMH 1510	2.3	-	-	8.7	-	-	-	12.5	5.5	-	-	-	25.6	15.8	11.3	11.4	-	8.8	-	-	18.1	0.2	6.9	-	-	-	10.1	-	-
13	AQH9(EDV)	2.5	-	-	-	-	-	6.2	2.5	19.7	6.7	-	27.1	-	0.2	-	-	7.2	23.4	38	8.1	24.5	19.3	9.5	16.4	5.3	-	5.5	5.7	6.6
14	BAUQMH-18	1.8	-	-	-	-	-	-	2.9	5.1	-	-	13.4	3.6	-	-	-	-	-	-	-	23.2	-	10.2	1.1	-	-	26	-	-
15	IIMRQPMH 1505	-	-	-	-	-	-	8	13.7	2.6	4.7	-	4.4	16.1	8.5	14.8	10.8	19.3	10.7	22.8	5.8	23.5	15.8	15.6	9.3	-	-	18.4	0.8	5.3
16	FQH 106	28.2	-	41.5	-	15.8	-	21.2	26.9	-	-	-	-	3.4	-	-	-	-	-	14.3	-	30.3	-	-	7.5	-	-	54.8	-	-
17	BQPMH 36	25.3	-	-	-	3.9	7	10.2	6.7	6.9	7.8	18.9	13.7	24.1	5.3	-	-	12.6	17	40.5	9.7	47.2	24.4	11.9	-	0.3	-	7.8	-	7.2
18	EHQ-63	-	-	-	-	-	12.4	-	10.8	45	11.2	-	-	-	-	-	-	27.5	38.4	32.4	8.4	39.7	27.3	17.2	-	2.8	-	31.5	3.8	5.1
19	IIMRQPMH 1507	27.5	-	3.5	-	2.1	-	11.6	-	13.2	-	-	-	7.6	-	-	-	-	5.5	14.2	-	25.4	4.9	-	-	-	-	19	-	-
20	IHQ-091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	35.8	13.7	6.3	8.2	18.2	3.9	7.6	15.2	33.2	14.1	-	32.1	7.3	25.4	-	5.3	8.9	-	26.2	9.6	38.9	16.7	-	-	8.5	-	29.2	-	9.8
22	IIMRQPMH 1508	-	-	24.8	-	-	-	10.8	7.3	1.5	0.4	-	-	8.9	-	-	-	-	-	7.9	-	21.9	-	11.3	12.4	-	-	18.3	0.8	-
23	LQPMH 315	26	-	-	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-	-	-	-
24	IIMRQPMH 1503	27.8	-	28.3	-	14	-	2.1	8.8	22.9	5.8	-	-	16.9	29.7	-	4.9	4	-	12.1	-	15.7	2.2	11.7	-	-	-	23.4	-	3.8
25	VEHQ15-1	22.3	1.1	-	-	2.1	-	-	-	27.9	4.3	-	16.3	11.9	3	-	7.6	-	6.2	32.6	13.1	17.4	12.8	12.9	6.3	0.9	-	26.5	0.7	5.7
26	LQPMH 115	16.1	-	1.9	-	-	-	-	-	-	-	-	6.8	-	-	-	-	-	-	5.2	-	-	-	-	-	-	-	15.6	-	-
27	EHQ-64	12.1	9.7	6.6	-	9.6	-	6.6	1.1	6.5	-	-	32.8	5.5	35.8	11.2	21	16.3	23.8	28.9	11.7	14.3	18.4	29.3	-	7.3	-	11.9	0.6	9
28	IIMRQPMH 1501	12.9	-	18.6	-	3.7	-	6.8	0	7.5	-	-	27.2	27.7	36.7	28.8	29.5	11.6	11	20	-	25	11.3	14.3	-	-	-	26	-	6.8
29	IIMRQPMH 1509	0	-	-	-	-	-	-	19.4	-	-	-	8.2	4.8	-	-	0.7	-	-	18.7	1.2	5.5	-	11.1	-	1.4	-	31.4	-	-
30	HQPM 26	27.2	-	9.8	-	4.5	-	-	20.1	5.9	-	-	15.7	9.9	12.6	-	3.2	-	4.8	39.2	0.7	26.8	11.8	17	4.8	-	-	15.6	-	2.5
	CHECKS																													
31	HM8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
32	HM9	12.7	-	14.6	-	6.7	22.8	-	20.8	29.2	13.5	-	-	5.5	-	-	-	42.3	33.5	42.1	12.8	34.8	31.6	18.2	-	-	-	45.9	4.1	10.3
33	HM4	18.4	-	-	-	-	-	-	0.4	8.3	-	-	-	2.6	29.6	7.3	7.9	-	29.5	18.5	7.8	34.7	16.6	11.3	-	-	-	38.8	-	3.1
34	DHM117	35.4	1.1	15.3	-	15.2	13.1	7.7	11.7	19.8	13.1	-	31.5	4.2	24.2	9.6	17.7	9.5	17.7	34.1	6.3	35.2	19.6	14.3	0.6	3.8	-	9.2	4.8	13.6
35	Vivek QPM9	49.1	-	-	-	7	-	-	6.7	7.6	-	-	7.2	-	13.6	-	-	-	16.7	22.7	-	-	-	-	-	-	-	-	-	-
36	HQPM1	4.9	-	-	-	-	-	-	10.9	12.2	-	-	14.1	14.7	16	-	6.2	4.5	36.2	4.9	-	20	8.4	16.4	-	6.6	-	-	-	0.7
37	HQPM4	4.5	-	-	3	-	-	-	-	28.7	6.8	-	4.8	24.4	44.4	2.5	15.8	15	-	11	-	25.5	9.6	16.2	12.8	-	-	9.8	-	5.1
38	HQPM5	24.6	-	-	-	3.9	-	4.9	4.5	2.5	0.7	-	31.3	-	-	-	-	0.3	-	26.9	0.6	23.3	9.8	-	-	-	-	3.4	-	-
39	HQPM7	12.8	-	-	-	1.6	-	2.1	-	-	-	-	-	1.2	28.3	13.9	9.2	15.9	6.3	32.9	6.8	15.6	15.4	13.9	1.4	11.5	-	-	0.8	3.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ							NWPZ									NEPZ						PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	0.1	-	-	-	-	27.1	-	-	-	2.2	24.2	3.9	84.9	-	16.7	-	10.9	-	-	-	-	-	-	-	-	-	-	-	-
2	LQPMH 215	-	9.6	-	14.8	-	-	18.8	-	-	-	-	9.8	3	24.5	6.5	9.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	AQH8(EDV)	-	-	-	-	-	-	18.7	0.1	11.1	2.5	67.8	35.5	-	111.7	40.3	34.9	-	-	-	-	1.3	-	-	1.8	18.1	18.6	0.8	7.8	0.1
4	VEHQ14-1	-	-	-	0.6	-	-	9.9	-	4.6	-	-	11.2	15.9	92.3	27.4	28	-	-	-	-	15.6	-	-	-	3	-	-	-	-
5	PMSQ5	5.6	-	-	6.5	-	-	13.2	-	-	-	10.1	10.4	-	8.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	LQPMH 415	20.5	-	12.7	22.6	4.1	-	20	-	-	-	-	-	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-
7	IIMRQPMH 1504	-	-	-	-	-	-	13.2	-	-	-	13.3	9.2	-	38.2	-	5.8	-	-	-	-	-	-	-	1.5	11.5	-	-	-	-
8	IIMRQPMH 1502	19.4	-	22.7	11.4	12.6	-	53.2	-	-	-	6.7	24.8	-	63.6	23.5	19.3	-	-	4.9	-	1.1	-	-	-	4.2	8.4	-	-	-
9	AQH4 (EDV)	-	-	17	17	-	-	-	-	-	-	18.2	14.8	-	106.5	39.1	27.4	-	-	-	4.4	-	-	-	-	0.9	-	-	-	-
10	MHQPM-10-15	6.7	-	-	53.6	-	-	18.9	-	-	-	-	-	-	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	APQH9(EDV)	16.8	-	-	-	-	-	29.8	-	-	-	-	12.8	0.5	126.1	9.8	24.1	-	-	-	-	-	-	-	-	6.7	-	-	-	-
12	IIMRQPMH 1510	-	-	-	50.2	-	-	4.2	-	-	-	5.9	4.1	19	80.9	36.8	27.5	-	-	-	-	-	-	-	-	-	-	-	-	-
13	AQH9(EDV)	-	0.1	-	7.9	-	-	24.4	-	-	-	25.3	34.5	-	56.6	-	9.3	-	-	-	-	-	-	-	17.1	10.6	8.6	-	1.6	-
14	BAUQMH-18	-	-	-	-	-	-	7.9	-	-	-	-	20	-	26.1	3.4	10.5	-	-	-	-	-	-	-	1.7	-	-	-	-	-
15	IIMRQPMH 1505	-	-	-	-	-	-	26.5	-	-	-	23.6	10.5	10.1	69.6	41.1	26.8	-	-	-	-	-	-	-	10	-	-	-	-	-
16	FQH 106	13.8	-	23.4	-	8.5	-	42	5.1	-	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	8.2	3.3	-	6.1	-	-
17	BQPMH 36	11.2	-	-	-	-	-	29.1	-	-	-	67.9	20.3	17.6	64.6	-	9.8	-	-	-	-	9.2	-	-	-	5.4	5.8	-	-	-
18	EHQ-63	-	-	-	17.6	-	-	-	-	12.2	-	0.6	-	-	20.9	-	-	-	3.6	-	-	3.7	-	-	-	8.1	7.7	-	-	-
19	IIMRQPMH 1507	13.1	-	-	-	-	-	30.7	-	-	-	0.1	-	2.1	19.5	19.3	1.2	-	-	-	-	-	-	-	-	-	14.7	-	-	-
20	IHQ-091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	20.6	16.6	-	49.5	10.7	-	26.1	-	3.2	0.6	1.8	39.8	1.7	96	-	20.5	-	-	-	-	3	-	-	-	14	8.5	-	-	-
22	IIMRQPMH 1508	-	-	8.9	-	-	-	29.7	-	-	-	16.6	-	3.2	55.4	-	-	-	-	-	-	-	-	-	13.1	1	-	-	-	-
23	LQPMH 315	11.8	-	-	-	-	-	10.2	-	-	-	-	-	-	23.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	IIMRQPMH 1503	13.4	-	11.9	-	6.8	-	19.6	-	-	-	4	3	10.8	102.7	8.2	20.1	-	-	-	-	-	-	-	-	-	-	-	-	-
25	VEHQ15-1	8.5	3.7	-	15.6	-	-	10.9	-	-	-	26	23.1	6.1	61	20.8	23.1	-	-	-	0.2	-	-	-	7	6.1	-	-	-	-
26	LQPMH 115	3.1	-	-	15.8	-	-	12.9	-	-	-	14.8	13	-	36.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	EHQ-64	-	12.5	-	8.2	2.6	-	24.8	-	-	-	1.4	40.5	-	112.2	36.7	38.5	-	-	-	-	-	-	9.4	-	12.8	-	-	-	-
28	IIMRQPMH 1501	0.2	-	3.5	-	-	-	25	-	-	-	-	34.6	21.1	113.6	58.3	48.3	-	-	-	-	-	-	-	-	-	-	-	-	-
29	IIMRQPMH 1509	-	-	-	20.5	-	-	-	-	-	-	17.4	14.5	-	49.7	14.3	15.2	-	-	-	-	-	-	-	-	6.5	-	-	-	-
30	HQPM 26	12.9	-	-	-	-	-	1.6	-	-	-	19.7	22.4	4.2	76	-	18.2	-	-	-	-	-	-	-	5.5	-	-	-	-	-
	CHECKS																													
31	HM8	-	2.5	-	38.2	-	-	17.1	-	-	-	41.2	5.8	-	56.3	22.9	14.5	-	-	-	-	-	-	-	0.6	5.1	14.7	-	-	-
32	HM9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	HM4	5.1	-	-	6.9	-	-	11.4	-	-	-	-	4.5	-	102.5	31.9	23.5	-	-	-	-	-	-	-	-	-	2.6	-	-	-
34	DHM117	20.2	3.7	0.6	30.2	7.9	-	26.2	-	-	-	-	39.2	-	94.1	34.7	34.7	-	-	-	-	0.3	-	-	1.2	9.1	14.6	-	0.7	3
35	Vivek QPM9	32.4	-	-	-	0.3	-	5	-	-	-	24.7	13.4	-	77.5	11.4	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	-	23.9	-	-	8.3	-	-	-	15.1	20.7	8.8	81.2	5.2	21.5	-	2	-	-	-	-	-	-	12	-	-	-	-
37	HQPM4	-	-	-	42.3	-	-	15.6	-	-	-	-	10.9	17.9	125.7	26.1	32.5	-	-	-	-	-	-	-	13.5	3.7	-	-	-	-
38	HQPM5	10.6	1.6	-	7.8	-	-	22.9	-	-	-	2.1	38.9	-	41.5	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
39	HQPM7	0.1	-	-	-	-	-	19.6	-	-	-	19.1	4.1	-	100.5	40	25	-	-	-	-	-	-	-	2	17.1	5.9	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ										NWPZ						NEPZ						PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	19.1	-	-	3.3	-	14.1	3.6	1.9	5	8.9	18.8	6.8	-	-	-	4.1	14.3	-	-	-	-	2.9	2	-	-	4.9	-	-
2	LQPMH 215	-	30.4	0.9	7.5	0.7	5	6.7	14.6	-	4.8	-	5.1	5.8	-	-	-	-	-	6.4	-	-	-	-	-	-	-	-	-	-	-
3	AQH8(EDV)	-	16.7	9.1	-	6.8	48.6	6.6	20.4	32.5	26.7	78.8	29.6	-	4.5	6.4	9.3	-	-	-	-	1.4	-	4.7	10	24.7	15.6	5.9	12.3	7.1
4	VEHQ14-1	-	6.7	-	-	-	52.2	-	3.9	24.7	20.1	-	6.4	19.1	-	-	3.6	9.2	-	19.5	-	15.7	3.1	4.7	2.4	8.7	-	-	-	3.8
5	PMSQ5	0.4	7.6	-	-	-	-	1.7	-	-	-	17.3	5.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	LQPMH 415	14.6	0.4	30.2	14.7	13.9	-	7.7	9.2	-	1.6	-	-	0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	6.5	-	-
7	IIMRQPMH 1504	-	12.1	-	-	-	25.2	1.6	13.2	3.1	9.7	20.7	4.5	-	-	-	-	-	-	7.2	-	-	-	-	9.7	17.7	-	-	-	-
8	IIMRQPMH 1502	13.6	18.4	41.9	4.2	23.3	6.3	37.5	5.2	11.7	16.9	13.7	19.4	-	-	-	-	3.5	-	25.9	3.3	1.2	5.7	-	6.3	10.1	5.7	-	-	5.9
9	AQH4 (EDV)	-	-	35.3	9.5	4.8	3.2	-	14.9	-	-	25.9	9.8	-	2	5.4	3.2	2.6	-	-	9.3	-	-	1.1	7.2	6.5	-	-	-	-
10	MHQPM-10-15	1.5	-	-	43.7	-	-	6.8	17.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	APQH9(EDV)	11.1	18.9	-	-	7.2	40.9	16.6	11.7	-	13.6	-	7.9	3.3	11.7	-	0.5	-	-	-	-	-	-	1.4	-	12.6	-	-	-	-
12	IIMRQPMH 1510	-	4.5	-	40.5	-	38.1	-	12	-	8.5	12.8	-	22.3	-	3.7	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-
13	AQH9(EDV)	-	19.1	-	1	0.8	38.8	11.8	2	10.5	16.2	33.5	28.7	-	-	-	-	7.6	-	16.5	0.3	-	2.3	-	26.5	16.8	5.8	-	5.9	3.4
14	BAUQMH-18	-	-	-	-	-	-	-	2.5	-	-	-	14.8	0.9	-	-	-	-	-	-	-	-	-	-	9.9	-	-	-	-	-
15	IIMRQPMH 1505	-	6.2	-	-	-	39	13.6	13.3	-	14	31.7	5.7	13.1	-	6.9	2.7	19.8	-	3.7	-	-	-	3.9	18.8	-	-	-	0.9	2.1
16	FQH 106	8.2	10.6	42.7	-	18.8	-	27.5	26.4	-	6.2	1.7	-	0.8	-	-	-	-	-	-	-	-	-	-	16.8	9.1	-	11.5	-	-
17	BQPMH 36	5.8	12.6	-	-	6.5	50.6	15.9	6.2	-	17.4	78.8	15.1	20.9	-	-	-	13	-	18.6	1.8	9.3	6.7	0.5	-	11.3	3.1	-	-	3.9
18	EHQ-63	-	14.7	-	10.1	-	58.2	-	10.4	33.9	21.1	7.2	-	-	-	-	-	28	6.9	11.8	0.6	3.7	9.1	5.4	-	14.1	4.9	-	3.9	1.9
19	IIMRQPMH 1507	7.6	2.1	4.4	-	4.7	-	17.4	-	4.5	6	6.7	-	4.9	-	-	-	-	-	-	-	-	-	-	-	1.3	11.7	-	-	-
20	IHQ-091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	14.7	38.7	7.2	39.9	21.2	46.1	13.2	14.7	23	24.2	8.5	33.7	4.5	-	-	-	9.3	-	6.5	1.7	3.1	0	-	-	20.4	5.7	-	-	6.5
22	IIMRQPMH 1508	-	10.3	25.9	-	2.6	21.7	16.5	6.8	-	9.3	24.3	-	6.1	-	-	-	-	-	-	-	-	-	0	22.1	6.6	-	-	1	-
23	LQPMH 315	6.3	12.4	-	-	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.3	-	-	-	-	-
24	IIMRQPMH 1503	7.9	16.2	29.4	-	16.9	31.6	7.4	8.3	13.5	15.1	10.8	-	13.9	0.1	-	-	4.4	-	-	-	-	-	0.4	6.3	5.2	-	-	-	0.7
25	VEHQ15-1	3.2	23.4	-	8.2	4.8	35.4	-	-	18.1	13.5	34.2	17.7	9	-	-	-	-	-	12	4.9	-	-	1.5	15.5	12	-	-	0.9	2.6
26	LQPMH 115	-	1.1	2.8	8.4	0.5	-	1.4	-	-	-	22.3	8.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	EHQ-64	-	33.9	7.5	1.3	12.4	19	12.1	0.7	-	7.7	8	34.4	2.8	4.8	3.6	12.2	16.8	-	8.8	3.6	-	1.5	16.2	-	19.1	-	-	0.7	5.7
28	IIMRQPMH 1501	-	6.9	19.7	-	6.3	11.7	12.3	-	-	6.1	0.4	28.8	24.5	5.5	20	20.1	12.1	-	1.3	-	-	-	2.7	5.5	-	-	-	-	3.6
29	IIMRQPMH 1509	-	13.9	-	12.7	-	22.2	-	18.9	-	-	25.1	9.5	2.1	-	-	-	-	-	0.2	-	-	-	-	3.8	12.5	-	-	-	-
30	HQPM 26	7.4	4.1	10.8	-	7.2	25	-	19.6	-	6.1	27.5	17.1	7.1	-	-	-	-	-	17.5	-	-	-	5.2	13.9	-	-	-	-	-
	CHECKS																													
31	HM8	-	22	0.9	29.3	2.6	40.7	5.2	-	-	8.9	50.5	1.2	-	-	-	-	0.4	-	-	-	-	-	-	8.7	10.9	11.8	-	0.1	-
32	HM9	-	19	15.6	-	9.5	72.8	-	20.3	19.3	23.5	6.5	-	2.8	-	-	-	42.9	3.1	19.9	4.7	0.1	12.9	6.3	8	5.6	-	5.1	4.2	6.9
33	HM4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	DHM117	14.3	23.4	16.3	21.9	18.1	59.2	13.3	11.3	10.6	23.1	-	33.1	1.5	-	2.1	9.1	9.9	-	13.2	-	0.4	2.5	2.7	9.3	15.1	11.7	-	4.9	10.2
35	Vivek QPM9	25.9	3	-	-	9.8	3.6	-	6.3	-	0.1	32.8	8.5	-	-	-	-	-	-	3.6	-	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	-	16	-	15.4	-	10.4	3.6	5.7	22.6	15.5	11.8	-	-	-	4.9	5.2	-	-	-	-	4.6	1.3	18.3	-	-	-	-
37	HQPM4	-	-	-	33.1	-	40.5	3.8	-	18.8	16.2	-	6.1	21.2	11.4	-	7.3	15.5	-	-	-	-	-	4.5	22.6	9.5	-	-	-	2
38	HQPM5	5.2	20.9	-	0.9	6.6	31.3	10.4	4.1	-	9.6	8.8	32.9	-	-	-	-	0.7	-	7.1	-	-	-	-	-	-	-	-	-	-
39	HQPM7	-	17.7	-	-	4.2	15.2	7.4	-	-	-	26.8	-	-	-	6.1	1.2	16.4	-	12.2	-	-	-	2.4	10.2	23.7	3.2	-	0.9	0.6

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ							NWPZ								NEPZ							PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	-	-	-	-	-	0.7	-	-	-	10.1	-	5.2	-	-	-	-	25.7	-	-	-	-	0.2	-	-	-	33.3	-	-
2	LQPMH 215	-	5.7	-	-	-	-	-	3	-	-	-	-	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	14.4	-	-
3	AQH8(EDV)	-	-	-	-	-	-	-	8.2	19.8	2.9	80.7	-	-	9.1	4.2	0.1	-	-	-	-	1	-	2	0.6	8.3	3.5	34.7	7	-
4	VEHQ14-1	-	-	-	-	-	-	-	-	12.8	-	-	-	17.3	-	-	-	-	8.7	5.6	-	15.3	0.6	2	-	-	-	-	-	-
5	PMSQ5	-	-	-	-	-	-	-	-	-	-	18.6	-	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	12.3	-	-
6	LQPMH 415	0.3	-	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35.4	-	-
7	IIMRQPMH 1504	-	-	-	-	-	-	-	1.8	-	-	22	-	-	-	-	-	-	-	-	-	-	-	-	0.3	2.2	-	-	-	-
8	IIMRQPMH 1502	-	-	22	-	4.4	-	21.4	-	1	-	14.9	-	-	-	-	-	-	2	11.2	4.7	0.8	3.1	-	-	-	-	-	-	-
9	AQH4 (EDV)	-	-	16.3	-	-	-	-	3.3	-	-	27.3	-	-	6.4	3.2	-	-	-	-	10.8	-	-	-	-	-	-	-	-	-
10	MHQPM-10-15	-	-	-	17.9	-	-	-	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.5	-	-
11	APQH9(EDV)	-	-	-	-	-	-	2.9	0.4	-	-	-	-	1.7	16.5	-	-	-	-	-	-	-	-	-	-	-	-	3.9	-	-
12	IIMRQPMH 1510	-	-	-	15.3	-	-	-	0.7	-	-	14	-	20.5	-	1.6	-	-	-	-	-	-	-	-	-	-	-	0.9	-	-
13	AQH9(EDV)	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	4.8	2.9	1.7	-	-	-	15.7	1.5	-	-	0.9	-
14	BAUQMH-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.5	-	-	15.4	-	-
15	IIMRQPMH 1505	-	-	-	-	-	-	0.2	1.8	-	-	33.1	-	11.4	-	4.7	-	9	-	-	-	-	-	1.1	8.7	-	-	8.5	-	-
16	FQH 106	-	-	22.7	-	0.6	-	12.5	13.6	-	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	6.9	-	-	41.7	-	-
17	BQPMH 36	-	-	-	-	-	-	2.3	-	-	-	80.8	-	19.1	-	-	-	2.8	-	4.8	3.2	8.8	4.1	-	-	-	-	-	-	-
18	EHQ-63	-	-	-	-	-	-	-	-	21	-	8.3	-	-	-	-	-	16.4	17.5	-	2	3.3	6.4	2.6	-	-	-	20.4	-	-
19	IIMRQPMH 1507	-	-	-	-	-	-	3.6	-	-	-	7.8	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	0	9	-	-
20	IHQ-091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	0.3	12.4	-	14.8	2.6	-	-	3.1	11.2	1	9.7	0.4	3	1	-	-	-	-	-	3.1	2.7	-	-	-	4.5	-	18.4	-	-
22	IIMRQPMH 1508	-	-	8.2	-	-	-	2.8	-	-	-	25.6	-	4.5	-	-	-	-	-	-	-	-	-	-	11.7	-	-	8.3	-	-
23	LQPMH 315	-	-	-	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	IIMRQPMH 1503	-	-	11.2	-	-	-	-	-	2.6	-	12	-	12.2	4.4	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-
25	VEHQ15-1	-	0	-	-	-	-	-	-	6.8	-	35.7	-	7.4	-	-	-	-	-	-	6.4	-	-	-	5.7	-	-	15.9	-	-
26	LQPMH 115	-	-	-	-	-	-	-	-	-	-	23.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	-	-
27	EHQ-64	-	8.5	-	-	-	-	-	-	-	-	9.2	1	1.2	9.3	1.4	2.8	6.2	5.1	-	5.1	-	-	13.2	-	3.4	-	2.5	-	-
28	IIMRQPMH 1501	-	-	2.9	-	-	-	-	-	-	-	1.5	-	22.6	10	17.5	10.1	2	-	-	-	-	-	0	-	-	-	15.4	-	-
29	IIMRQPMH 1509	-	-	-	-	-	-	-	6.9	-	-	26.5	-	0.6	-	-	-	-	-	-	-	-	-	-	-	-	-	20.3	-	-
30	HQPM 26	-	-	-	-	-	-	-	7.5	-	-	28.9	-	5.5	-	-	-	-	-	3.8	-	-	-	2.4	4.2	-	-	5.8	-	-
	CHECKS																													
31	HM8	-	-	-	6.1	-	-	-	-	-	-	52.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1	-	-	-
32	HM9	-	-	-	-	-	8.5	-	8.1	7.8	0.4	7.7	-	1.2	-	-	-	30	13.4	5.9	6.1	-	10.1	3.4	-	-	-	33.6	-	-
33	HM4	-	-	-	-	-	-	-	-	-	-	1.1	-	-	4.3	-	-	-	10	-	1.4	-	-	-	-	-	-	27.1	-	-
34	DHM117	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	Vivek QPM9	10.2	-	-	-	-	-	-	-	-	-	34.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	-	-	-	-	-	-	-	-	24	-	10.1	-	-	-	-	15.6	-	-	-	-	1.8	-	2.7	-	-	-	-
37	HQPM4	-	-	-	9.3	-	-	-	-	7.4	-	-	-	19.3	16.3	-	-	5	-	-	-	-	-	1.7	12.2	-	-	0.6	-	-
38	HQPM5	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	HQPM7	-	-	-	-	-	-	-	-	-	-	28.2	-	-	3.3	3.9	-	5.9	-	-	0.5	-	-	-	0.8	7.4	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ					NWPZ											NEPZ						PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	15.7	0.5	13.4	-	-	21	-	2.6	4.9	-	9.6	36.5	4.2	-	4.5	61.4	26.8	-	0	30.4	16.8	21.4	12.9	-	8.5	104.8	18.5	9.3
2	LQPMH 215	-	26.7	3	60.1	-	1.3	13.1	7.8	-	4.8	-	-	35.2	-	-	-	54.5	-	2.8	-	26.5	7.6	14.7	8.6	-	15	75.6	14	4.4
3	AQH8(EDV)	-	13.4	11.4	25.1	-	43.4	13	13.3	33.4	26.6	34.6	19.5	17	19.3	26	20.8	2.5	0.5	-	-	42	3	23.6	21.7	30.7	41.6	106.9	36.7	17.9
4	VEHQ14-1	-	3.7	-	40.3	-	46.9	4.6	-	25.6	20	-	-	52.2	8.4	14.4	14.6	69.3	9.6	15.4	-	62	22.8	23.6	13.3	13.9	0.3	40.5	15.3	14.2
5	PMSQ5	-	4.5	-	48.5	-	-	7.8	-	-	-	-	-	29.9	-	-	-	-	-	-	-	21.5	-	12.3	8.3	-	-	72.5	6.2	-
6	LQPMH 415	-	-	33	71	3.8	-	14.2	2.7	-	1.5	-	-	28.5	-	-	-	-	-	-	-	3	-	-	5.5	-	3.7	107.9	11	-
7	IIMRQPMH 1504	-	8.9	-	-	-	20.8	7.7	6.5	3.8	9.6	-	-	19.6	-	-	-	32	-	3.5	4.5	29.3	10.5	14.3	21.4	23.3	3.5	46.1	18.2	6.4
8	IIMRQPMH 1502	-	15	44.8	55.4	12.3	2.6	45.8	-	12.5	16.8	-	10.1	12	-	10.9	6.8	60.6	2.9	21.5	18.3	41.7	25.9	7.7	17.6	15.3	29.4	0.3	16	16.5
9	AQH4 (EDV)	-	-	38.1	63.1	-	-	-	8.1	-	-	-	1.3	18.3	16.4	24.8	14.1	59	-	-	25.2	25.5	15.3	19.2	18.7	11.5	3.1	12.7	13	8.1
10	MHQPM-10-15	-	-	-	114.2	-	-	13.3	10.9	-	-	-	-	14.9	-	-	-	38.2	-	-	2	-	-	-	1.4	-	-	71.3	-	-
11	APQH9(EDV)	-	15.5	-	14.3	-	35.9	23.6	5.2	-	13.6	-	-	32	27.4	-	11.1	19.6	-	-	6.4	-	0.5	19.6	3.4	18	17.8	59.6	19	8.9
12	IIMRQPMH 1510	-	1.5	-	109.4	-	33.3	-	5.4	-	8.4	-	-	56.4	1.9	22.8	14.1	39.6	-	-	-	22.8	2.3	13.3	8.9	-	17.2	54.9	11.7	5.6
13	AQH9(EDV)	-	15.7	-	50.5	-	34	18.5	-	11.3	16.1	0.5	18.6	20.2	-	-	-	66.9	5.7	12.5	14.9	29.4	21.8	16.2	40	22.4	29.6	48.3	28.9	13.8
14	BAUQMH-18	-	-	-	14.9	-	-	2.7	-	-	-	-	5.9	29	-	-	-	41.5	-	-	-	28	-	16.9	21.6	-	-	77.2	10.5	-
15	IIMRQPMH 1505	-	3.1	-	28.2	-	34.2	20.4	6.6	-	13.9	-	-	44.6	-	26.6	13.5	85.8	-	0.1	12.4	28.3	18.3	22.6	31.5	4.5	15	66.6	22.8	12.4
16	FQH 106	-	7.4	45.7	7.6	8.2	-	35.2	18.9	-	6.1	-	-	28.8	-	-	-	10.3	-	-	-	35.4	0.5	-	29.3	14.3	16.1	117.7	21.3	4
17	BQPMH 36	-	9.4	1.7	16.7	-	45.3	22.9	-	-	17.3	34.6	6.1	54.5	-	-	-	75.3	0.3	14.5	16.6	53	27.1	18.6	8.8	16.6	26.2	51.7	20.9	14.4
18	EHQ-63	-	11.4	-	64.1	-	52.6	-	3.8	34.8	21	-	-	8.4	-	-	-	98.5	18.5	7.9	15.2	45.2	30	24.3	8.5	19.5	28.5	85	26.5	12.2
19	IIMRQPMH 1507	-	-	6.6	24.3	-	-	24.4	-	5.2	5.9	-	-	34	-	7.1	-	42	-	-	-	30.3	7.1	-	0.8	6.1	36.8	67.4	16.3	4.3
20	IHQ-091	-	-	-	10.5	-	-	-	-	-	-	-	-	11.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	-	34.7	9.4	108.6	10.4	41	20	8	23.9	24.2	-	23.3	33.6	10.4	-	7.9	69.6	-	2.9	16.5	44.4	19.1	4.2	-	26.1	29.5	81.8	19.7	17.2
22	IIMRQPMH 1508	-	7.1	28.5	11.4	-	17.5	23.5	0.5	-	9.2	-	-	35.5	-	-	-	47.5	-	-	-	26.7	1.6	18	35.2	11.7	9.8	66.4	22.9	4.3
23	LQPMH 315	-	9.2	-	26.9	-	-	4.9	-	-	-	-	-	-	-	-	-	16.3	-	-	2.6	-	-	-	15.4	-	-	-	-	-
24	IIMRQPMH 1503	-	12.9	32.1	-	6.5	27	13.9	2	14.3	15.1	-	-	45.6	14.2	-	7.5	61.9	-	-	-	20.2	4.4	18.4	17.6	10.2	8.5	73.5	19.2	10.8
25	VEHQ15-1	-	19.9	-	61.2	-	30.7	5.6	-	18.9	13.4	1	8.5	39.3	-	8.5	10.2	44.7	-	8.1	20.2	22	15.2	19.7	27.9	17.3	4.6	77.9	22.8	12.9
26	LQPMH 115	-	-	4.9	61.6	-	-	7.5	-	-	-	-	-	-	-	-	-	0.1	-	-	-	-	-	5	-	-	-	62.6	-	-
27	EHQ-64	-	30	9.8	50.9	2.3	14.9	18.9	-	-	7.6	-	23.9	31.3	19.5	22.7	24	81.1	6.1	5.1	18.7	18.8	20.9	37.1	7	24.7	6.7	57.4	22.6	16.3
28	IIMRQPMH 1501	-	3.8	22.1	38.3	-	7.8	19.1	-	-	6	-	18.7	59	20.3	42.1	32.8	73.8	-	-	1.4	30	13.7	21.2	16.8	-	16.8	77.2	18.2	14
29	IIMRQPMH 1509	-	10.6	1.9	68	-	17.9	-	11.9	-	-	-	0.9	30.5	-	2.6	3.2	34	-	-	7.5	9.7	1.7	17.9	14.8	17.8	-	84.8	17.2	2.6
30	HQPM 26	-	1.1	13.1	10.3	-	20.6	-	12.6	-	6	-	7.9	36.9	-	-	5.8	40.1	-	13.5	7	31.7	14.1	24.1	26.1	0.3	2.4	62.5	17.8	9.4
	CHECKS																													
31	HM8	-	18.5	3	92.7	-	35.8	11.5	-	-	8.8	13.3	-	24.5	-	10.4	2.5	55.7	-	-	6.3	3.9	2.1	6.1	20.3	16.2	36.9	40.6	21.9	6.7
32	HM9	-	15.6	18	39.5	-	66.7	-	13.2	20.1	23.5	-	-	31.3	-	-	-	121.6	14.4	15.8	19.9	40.1	34.4	25.4	19.5	10.6	19.3	105.1	26.8	17.7
33	HM4	-	-	2.1	49	-	-	6	-	0.7	-	-	-	27.8	14.1	18.4	10.5	55.1	10.9	-	14.6	40	19.1	18	10.7	4.8	22.5	95.3	21.7	10.1
34	DHM117	-	19.8	18.7	81.6	7.6	53.6	20.1	4.7	11.4	23	-	22.8	29.8	9.3	20.9	20.6	70.5	0.9	9.3	13	40.5	22.1	21.2	21	20.6	36.8	53.6	27.7	21.3
35	Vivek QPM9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	1.1	72.8	-	11.3	3.2	3.9	4.3	5.6	-	6.5	42.9	2.1	-	8.8	62.7	16.7	-	-	24.7	10.7	23.4	12.1	23.9	7.7	31.8	18.1	7.5
37	HQPM4	-	-	-	98.4	-	35.6	10.1	-	19.7	16.1	-	-	54.9	27.1	13.2	18.7	79.1	-	-	5.6	30.4	11.9	23.2	35.7	14.7	-	54.5	21.4	12.2
38	HQPM5	-	17.4	-	50.4	-	26.7	17	-	-	9.5	-	22.5	4.3	-	-	-	56.1	-	3.4	7	28.2	12.1	-	1.6	-	-	45.4	-	3
39	HQPM7	-	14.3	0.5	24.2	-	11.2	13.9	-	-	-	-	-	26.1	13	25.7	11.9	80.5	-	8.4	13.6	20.2	17.8	20.8	22	29.5	26.4	4.9	22.8	10.7

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
		NHZ					NWPZ										NEPZ							PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	3.1	21.4	-	-	8.8	-	17.3	-	-	-	-	2.9	-	2	-	-	-	8.7	10.6	4.7	4.6	5.6	-	0.8	-	0.8	55.4	0.3	1.6
2	LQPMH 215	-	33	1.8	-	6.1	-	9.6	3.8	-	-	-	-	-	-	1.3	-	-	-	20.2	-	1.5	-	-	-	-	6.8	33.3	-	-
3	AQH8(EDV)	7.2	19	10.2	-	12.5	28.8	9.5	9	27.9	19.8	45.8	12.3	-	16.8	33.4	11	-	-	6.3	-	13.9	-	0.1	8.6	5.5	31.5	57	15.8	9.6
4	VEHQ14-1	6.9	8.8	-	-	0.6	31.9	1.4	-	20.4	13.6	-	-	6.5	6.1	21.2	5.3	4	-	35	-	29.9	11	0.1	1.1	-	-	6.6	-	6.2
5	PMSQ5	13.4	9.7	-	-	2.4	-	4.5	-	-	-	-	-	-	-	-	-	-	-	-	3.6	-	-	-	-	-	-	30.9	-	-
6	LQPMH 415	29.5	2.3	31.5	-	20	-	10.7	-	-	-	-	-	-	-	-	-	-	-	10.8	-	-	-	-	-	-	-	57.8	-	-
7	IIMRQPMH 1504	4.8	14.2	-	-	4.1	8.5	4.4	2.5	-	3.7	-	-	-	-	-	-	-	-	21.1	9.4	3.7	-	-	8.3	-	-	10.8	0.1	-
8	IIMRQPMH 1502	28.2	20.7	43.3	-	29.9	-	41.4	-	7.8	10.5	-	3.4	-	-	17.4	-	-	-	42.2	23.8	13.6	13.7	-	5	-	20.2	-	-	8.4
9	AQH4 (EDV)	-	0.3	36.6	-	10.4	-	-	4	-	-	2.7	-	-	14	32.2	4.8	-	-	2.3	31	0.7	4.2	-	5.9	-	-	-	-	0.5
10	MHQPM-10-15	14.7	-	-	23.9	-	-	9.8	6.7	-	-	-	-	-	-	-	-	-	-	-	6.7	-	-	-	-	-	-	29.9	-	-
11	APQH9(EDV)	25.4	21.2	-	-	13	22.1	19.8	1.2	-	7.5	-	-	-	24.8	4.4	2.1	-	-	10.2	11.3	-	-	-	-	-	9.4	21.1	0.8	1.3
12	IIMRQPMH 1510	-	6.5	-	21.2	-	19.7	-	1.4	-	2.6	-	-	9.4	-	30.1	4.9	-	-	-	3.5	-	-	-	-	-	8.9	17.5	-	-
13	AQH9(EDV)	-	21.4	-	-	6.2	20.3	14.9	-	6.7	9.9	8.9	11.4	-	-	-	-	2.6	-	31.7	20.3	3.8	10.1	-	24.9	-	20.4	12.6	9.1	5.8
14	BAUQMH-18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7	-	-	8.5	-	-	34.5	-	-
15	IIMRQPMH 1505	-	8.2	-	-	-	20.5	16.8	2.6	-	7.8	7.4	-	1.2	-	34.1	4.4	14.2	-	17.1	17.7	2.9	6.9	-	17.3	-	6.9	26.4	4	4.5
16	FQH 106	22.2	12.7	44.1	-	25.1	-	31	14.4	-	0.5	-	-	-	-	-	-	-	-	9	-	8.6	-	-	15.4	-	7.8	65.2	2.7	-
17	BQPMH 36	19.5	14.8	0.6	-	12.2	30.5	19.1	-	-	11	45.8	-	8.1	-	-	-	7.7	-	34	22	22.7	14.8	-	-	-	17.3	15.1	2.4	6.4
18	EHQ-63	-	16.9	-	-	-	37.1	-	-	29.2	14.5	-	-	-	-	-	-	22	1.6	26.3	20.6	16.5	17.4	0.8	-	-	19.4	40.4	7.1	4.3
19	IIMRQPMH 1507	21.5	4.1	5.4	-	10.3	-	20.6	-	0.9	0.2	-	-	-	-	13.4	-	-	-	8.9	4	4.5	-	-	-	-	27.1	27.1	-	-
20	IHQ-091	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	29.5	41.4	8.3	20.7	27.7	26.7	16.4	3.9	18.8	17.5	-	15.8	-	8.1	-	-	4.2	-	20.4	21.9	15.8	7.7	-	-	1.8	20.3	37.9	1.3	9
22	IIMRQPMH 1508	-	12.4	27.1	-	8	5.5	19.7	-	-	3.4	1.3	-	-	-	-	-	-	-	2.9	-	1.6	-	-	20.6	-	2	26.3	4.1	-
23	LQPMH 315	20.1	14.6	-	-	10.8	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	7.4	-	-	-	3	-	-	-	-	-
24	IIMRQPMH 1503	21.8	18.5	30.6	-	23.2	14.1	10.4	-	9.5	8.9	-	-	1.9	11.8	2.8	-	-	-	6.9	0.5	-	-	-	4.9	-	0.8	31.6	0.9	3.1
25	VEHQ15-1	16.6	25.8	-	-	10.4	17.4	2.3	-	14	7.4	9.4	1.9	-	-	14.9	1.3	-	-	26.5	25.8	-	4.1	-	14.1	-	-	35	4	5
26	LQPMH 115	10.7	3	3.8	-	5.8	-	4.2	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	23.4	-	-
27	EHQ-64	6.8	36.5	8.6	-	18.4	3.2	15.2	-	-	1.9	-	16.4	-	17.1	29.9	13.9	11.3	-	23	24.2	-	9.2	11.1	-	0.7	-	19.4	3.8	8.2
28	IIMRQPMH 1501	7.6	9	20.8	-	12	-	15.4	-	-	0.4	-	11.5	11.3	17.8	50.5	22	6.8	-	14.5	6.1	4.2	2.7	-	4.2	-	8.5	34.4	0.1	6
29	IIMRQPMH 1509	-	16.1	0.8	-	4.7	5.9	-	7.7	-	-	2	-	-	-	8.6	-	-	-	13.2	12.5	-	-	-	2.5	-	-	40.2	-	-
30	HQPM 26	21.3	6.1	11.8	-	12.9	8.3	-	8.4	-	0.4	4	1.4	-	-	-	-	-	-	32.8	12	5.7	3.1	0.5	12.5	-	-	23.3	-	1.7
	CHECKS																													
31	HM8	-	24.4	1.9	11.5	8	22	8.1	-	-	3	22.7	-	-	-	16.9	-	-	-	-	11.2	-	-	-	7.3	-	27.2	6.7	3.2	-
32	HM9	7.4	21.3	16.7	-	15.3	49.8	-	8.9	15.1	16.9	-	-	-	-	-	-	36.2	-	35.5	25.5	12.4	21.5	1.6	6.7	-	10.9	55.7	7.4	9.5
33	HM4	12.9	1.9	1	-	5.3	-	2.8	-	-	-	-	-	-	11.7	25.4	1.6	-	-	13	19.9	12.3	7.6	-	-	-	13.8	48.2	3.1	2.4
34	DHM117	29.1	25.8	17.5	5.1	24.4	38	16.5	0.8	6.8	16.4	-	15.3	-	7.1	28.1	10.8	4.8	-	27.9	18.3	12.7	10.3	-	8	-	27.1	16.5	8.1	12.8
35	Vivek QPM9	42.2	5	-	-	15.6	-	-	-	-	-	8.3	-	-	-	5.9	-	-	-	17	4.6	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
37	HQPM4	-	-	-	14.8	-	21.8	6.7	-	14.7	9.9	-	-	8.4	24.5	19.8	9	10	-	5.9	10.5	4.6	1.1	-	21.1	-	-	17.2	2.8	4.4
38	HQPM5	18.8	23.2	-	-	12.3	13.8	13.4	-	-	3.7	-	15	-	-	-	-	-	-	21	11.9	2.8	1.3	-	-	-	-	10.3	-	-
39	HQPM7	7.6	20	-	-	9.8	-	10.4	-	-	-	3.4	-	-	10.6	33.1	2.8	10.9	-	26.8	18.8	-	6.4	-	8.8	4.5	17.4	-	4	3

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																													
		NHZ					NWPZ							NEPZ									PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	3.5	22.6	9.4	-	12.4	-	9.9	4.7	-	-	12.2	12.1	-	-	-	-	-	48.2	4.5	-	-	4.4	-	-	-	8.7	32.6	-	-
2	LQPMH 215	-	34.3	12	-	9.6	-	2.7	15.8	-	-	-	-	-	-	-	-	-	-	13.5	-	-	-	-	-	-	15.2	13.7	-	-
3	AQH8(EDV)	7.6	20.2	21.2	-	16.2	5.8	2.6	21.6	11.5	9	84.3	22.2	-	-	11.3	1.8	-	17.5	0.4	-	8.9	-	0.3	-	13.9	41.9	33.9	12.6	5
4	VEHQ14-1	7.3	9.9	-	-	3.9	8.3	-	5	5	3.3	-	0.3	-	-	1.1	-	-	28.1	27.5	-	24.2	9.8	0.3	-	-	0.5	-	-	1.8
5	PMSQ5	13.8	10.8	-	-	5.8	-	-	0.8	-	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.7	-	-
6	LQPMH 415	30	3.3	44.7	-	23.9	-	3.8	10.3	-	-	-	-	-	-	-	-	-	2.5	4.6	-	-	-	-	-	-	3.9	34.6	-	-
7	IIMRQPMH 1504	5.2	15.4	-	-	7.6	-	-	14.4	-	-	24.4	-	-	-	-	-	-	11.1	14.4	-	-	-	-	-	7.5	3.7	-	-	-
8	IIMRQPMH 1502	28.7	21.9	57.6	-	34.1	-	32.5	6.3	-	0.6	17.2	12.6	-	-	-	-	-	20.3	34.3	12.1	8.7	12.5	-	-	0.5	29.7	-	-	3.8
9	AQH4 (EDV)	-	1.3	50.3	-	14	-	-	16	-	-	29.8	3.6	-	-	10.3	-	-	16.3	-	18.6	-	3.1	-	-	-	3.3	-	-	-
10	MHQPM-10-15	15.1	-	3.8	7.9	2.1	-	2.9	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10.9	-	-
11	APQH9(EDV)	25.9	22.4	-	-	16.7	0.3	12.3	12.9	-	-	-	1.7	-	0.2	-	-	-	4.2	4.1	0.8	-	-	-	-	2.8	18	3.3	-	-
12	IIMRQPMH 1510	-	7.6	3.5	5.5	3.1	-	-	13.1	-	-	16.3	-	1	-	8.6	-	-	8.9	-	-	-	-	-	-	-	17.5	0.3	-	-
13	AQH9(EDV)	-	22.6	6.3	-	9.7	-	7.6	3.1	-	-	37.6	21.3	-	-	-	-	-	23.6	24.3	8.9	-	8.9	-	3.1	6.7	29.9	-	6.1	1.4
14	BAUQMH-18	-	-	-	-	-	-	-	3.6	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14.7	-	-
15	IIMRQPMH 1505	-	9.3	-	-	-	-	9.4	14.4	-	-	35.8	-	-	-	11.9	-	3.8	10.8	10.6	6.5	-	5.7	-	-	-	15.3	7.8	1.1	0.2
16	FQH 106	22.7	13.9	58.5	-	29.2	-	22.8	27.6	-	-	4.9	-	-	-	-	-	-	-	2.9	-	3.9	-	-	-	-	16.3	40.9	-	-
17	BQPMH 36	19.9	16	10.7	-	15.9	7.2	11.6	7.3	-	1	84.4	8.5	-	-	-	-	-	17.2	26.5	10.4	17.3	13.5	-	-	1.6	26.5	-	-	1.9
18	EHQ-63	-	18.1	-	-	1.2	12.6	-	11.5	12.6	4.2	10.5	-	-	-	-	-	10.8	38.6	19.2	9.1	11.4	16.1	0.9	-	4.2	28.8	19.7	4.1	-
19	IIMRQPMH 1507	22	5.1	16	-	13.9	-	13	-	-	-	10	-	-	-	-	-	-	5.6	2.9	-	-	-	-	-	-	37.1	8.4	-	-
20	IHQ-091	-	0.3	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	30	42.8	19.1	5.1	31.9	4	9	15.9	3.5	6.9	11.8	26.1	-	-	-	-	-	-	13.6	10.4	10.7	6.5	-	-	9.9	29.7	17.7	-	4.4
22	IIMRQPMH 1508	-	13.6	39.9	-	11.6	-	12.2	7.9	-	-	28.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	7.7	1.2	-
23	LQPMH 315	20.6	15.8	4.9	-	14.4	-	-	-	-	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	IIMRQPMH 1503	22.3	19.6	43.7	-	27.2	-	3.5	9.4	-	-	14.2	-	-	-	-	-	-	-	0.9	-	-	-	-	-	-	8.7	12.3	-	-
25	VEHQ15-1	17	27.1	-	-	14	-	-	-	-	-	38.3	11	-	-	-	-	-	6.4	19.4	13.9	-	3	-	-	2.3	4.8	15.2	1.1	0.6
26	LQPMH 115	11.2	4.1	14.2	-	9.3	-	-	0.5	-	-	26	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.3	-	-
27	EHQ-64	7.3	37.8	19.5	-	22.2	-	8	1.7	-	-	11.3	26.8	-	-	8.4	4.5	1.1	24	16.1	12.5	-	8	11.3	-	8.7	6.9	1.9	0.9	3.6
28	IIMRQPMH 1501	8	10.1	32.9	-	15.7	-	8.1	0.6	-	-	3.5	21.4	2.7	-	25.6	11.9	-	11.2	8.1	-	-	1.6	-	-	-	17	14.7	-	1.6
29	IIMRQPMH 1509	-	17.3	10.9	-	8.1	-	-	20.1	-	-	29	3.2	-	-	-	-	-	-	6.9	1.9	-	-	-	-	2.7	-	19.6	-	-
30	HQPM 26	21.8	7.2	23	-	16.6	-	-	20.8	-	-	31.4	10.4	-	-	-	-	-	5	25.4	1.4	1	2	0.7	-	-	2.6	5.2	-	-
	CHECKS																													
31	HM8	-	25.6	12.1	-	11.6	0.2	1.3	0.6	-	-	55.1	-	-	-	-	-	-	0.1	-	0.7	-	-	-	-	1.3	37.2	-	0.4	-
32	HM9	7.8	22.5	28.4	-	19.1	23	-	21.5	0.4	6.3	9.8	-	-	-	-	-	23.7	33.7	28	13.6	7.4	20.1	1.7	-	-	19.6	32.8	4.4	4.9
33	HM4	13.4	3	11.1	-	8.8	-	-	1	-	-	3.1	-	-	-	4.7	-	-	29.7	6.7	8.5	7.3	6.4	-	-	-	22.7	26.4	0.2	-
34	DHM117	29.6	27	29.2	-	28.5	13.3	9.1	12.4	-	5.9	2	25.5	-	-	6.9	1.7	-	17.9	20.8	7.1	7.8	9.1	-	-	5.2	37.1	-	5.2	8
35	Vivek QPM9	42.7	6	8.8	-	19.4	-	-	7.3	-	-	36.9	2.3	-	-	-	-	-	16.9	10.5	-	-	-	-	-	-	0.2	-	-	-
36	HQPM1	0.4	1	10	-	3.3	-	-	11.5	-	-	26.4	8.9	-	-	-	-	-	36.4	-	-	-	-	0.1	-	8	7.9	-	-	-
37	HQPM4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
38	HQPM5	19.2	24.5	0.2	-	16	-	6.3	5.1	-	-	12.2	25.3	-	-	-	-	-	-	14.2	1.3	-	0.2	-	-	-	-	-	-	-
39	HQPM7	8	21.2	9.3	-	13.4	-	3.4	-	-	-	30.8	-	-	-	11.1	-	0.8	6.4	19.7	7.6	-	5.3	-	-	12.9	26.6	-	1.1	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE HQPM7																														
SI						NHZ					NWPZ							NEPZ						PZ							CWZ	OV'L
No	PEDIGREE	ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	-	9.2	-	-	-	3.4	-	7.6	-	0.1	-	30.9	30.7	41.3	14.3	3.4	48.8	-	-	1.7	4.2	28.1	11.2	-	30.3	40.9	19.5	6
2	LQPMH 215	-	7.9	11.8	6.5	-	-	-	10.1	2.8	-	-	-	29.6	-	74.5	6.8	-	-	-	-	-	-	21.1	6.9	-	38.2	20.8	15	1.3
3	AQH8(EDV)	-	-	21	-	0.1	13.2	-	15.7	40	15.6	64.3	-	12.1	49.6	129.9	32.1	-	17.9	-	-	10.8	-	30.4	19.8	32.1	70.1	42.3	37.9	14.4
4	VEHQ14-1	-	-	-	-	-	15.9	-	-	31.8	9.6	-	-	45.9	35.9	108.8	25.3	8.5	28.7	11.6	-	26.4	9.5	30.4	11.5	15.2	20.5	-	16.3	10.8
5	PMSQ5	-	-	-	-	-	-	-	-	-	-	7.8	-	24.5	-	32.3	-	-	-	-	-	-	-	18.5	6.6	-	9.1	18.6	7.1	-
6	LQPMH 415	9	-	44.4	13.7	6.8	-	-	4.9	-	-	-	-	23.1	-	64.7	-	-	2.9	-	-	-	-	4.9	3.9	-	24.6	43	12	-
7	IIMRQPMH 1504	-	-	-	-	-	-	-	8.8	8.9	0.1	10.9	-	14.6	-	63.6	3.6	-	11.6	0.1	-	0.8	-	20.7	19.5	24.7	24.4	0.5	19.3	3.2
8	IIMRQPMH 1502	8	-	57.3	3.3	15.6	-	24.6	1.1	18	6.6	4.5	-	7.3	15.7	102.3	16.8	2.9	20.8	17.5	10.6	10.5	12.3	13.7	15.8	16.6	55.5	-	17	13.1
9	AQH4 (EDV)	-	-	50	8.5	-	-	-	10.4	4.2	-	15.7	-	13.4	46	127.8	24.8	1.9	16.8	-	17	-	2.9	25.9	16.8	12.8	23.9	-	14	4.9
10	MHQPM-10-15	-	-	3.6	42.4	-	-	-	13.2	-	-	-	-	10.1	-	44.2	-	-	-	-	-	-	-	-	-	-	-	17.8	-	-
11	APQH9(EDV)	5.6	-	-	-	0.6	7.3	5.6	7.4	-	3.7	-	-	26.5	59.8	79.8	21.6	-	4.6	-	-	-	-	26.3	1.8	19.3	41.5	9.8	20.1	5.7
12	IIMRQPMH 1510	-	-	3.3	39.3	-	5.2	-	7.6	2.9	-	3.7	-	49.9	27.9	124.2	24.9	-	9.4	-	-	-	-	19.6	7.2	-	40.9	6.5	12.7	2.5
13	AQH9(EDV)	-	-	6.1	0.1	-	5.7	1.2	-	16.8	6	22.7	-	15.2	10.6	20	7	6.9	24.1	8.8	7.5	1	8.7	22.6	37.8	23.7	55.7	2	30	10.4
14	BAUQMH-18	-	-	-	-	-	-	-	-	2.5	-	-	-	23.6	-	69.4	8.2	-	-	-	-	-	-	23.4	19.7	-	8.3	21.9	11.4	-
15	IIMRQPMH 1505	-	-	-	-	-	5.9	2.9	8.8	0.1	4	21	-	38.6	19.9	131.1	24.2	19	11.3	-	5.1	0.1	5.5	29.4	29.4	5.6	38.2	14.6	23.9	9.1
16	FQH 106	2.9	-	58.2	-	11.4	-	15.5	21.4	-	-	-	-	23.5	-	26.7	-	-	-	-	-	5.6	-	-	27.3	15.5	39.5	49.7	22.4	0.9
17	BQPMH 36	0.6	-	10.5	-	-	14.7	5	2.1	4.3	7.1	64.4	-	48.1	16.3	2.6	7.5	12.3	17.6	10.8	9	19.3	13.3	25.2	7.1	17.9	51.7	4.3	22	11
18	EHQ-63	-	-	-	9.1	-	20.5	-	6	41.4	10.5	-	-	3.9	-	20.6	-	27.1	39.1	4.4	7.7	13.3	15.9	31.3	6.8	20.8	54.4	27.2	27.6	8.9
19	IIMRQPMH 1507	2.3	-	15.8	-	-	-	6.3	-	10.4	-	-	-	28.5	-	95.4	-	-	6	-	-	1.7	-	4.8	-	7.3	64.4	15.2	17.4	1.2
20	IHQ-091	-	-	1.6	-	-	-	-	-	-	-	-	-	7.1	-	46.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	9	14.7	18.9	38.7	13.7	11.3	2.6	10.3	30	13.4	-	0.6	28	38.5	28.4	18	8.6	0.3	-	9	12.6	6.2	10	-	27.5	55.6	25	20.8	13.7
22	IIMRQPMH 1508	-	-	39.6	-	-	-	5.6	2.7	-	-	14.2	-	29.9	9.8	13.2	-	-	-	-	-	-	-	24.6	33.1	12.9	31.9	14.4	24	1.3
23	LQPMH 315	1.1	-	4.7	-	-	-	-	-	-	-	-	-	-	-	27.6	-	-	-	-	-	-	-	-	13.6	-	-	-	-	-
24	IIMRQPMH 1503	2.6	-	43.5	-	9.7	0.2	-	4.1	19.9	5.1	1.8	-	39.5	43.2	77.2	17.6	3.7	-	-	-	-	-	25	15.8	11.4	30.4	19.3	20.3	7.5
25	VEHQ15-1	-	2.1	-	7.2	-	3.1	-	-	24.8	3.6	23.4	-	33.6	13.8	97.9	20.6	-	6.8	4.6	12.4	-	2.8	26.4	25.9	18.6	25.6	22.4	23.9	9.5
26	LQPMH 115	-	-	14	7.5	-	-	-	-	-	-	12.4	-	-	-	24.5	-	-	-	-	-	-	-	10.9	-	-	17.3	11.9	-	-
27	EHQ-64	-	10.7	19.3	0.4	5.4	-	1.6	-	3.9	-	-	1.2	25.9	50	123.9	35.6	16	24.5	1.6	11	-	7.8	44.8	5.4	26.1	28.2	8.2	23.7	12.9
28	IIMRQPMH 1501	-	-	32.7	-	-	-	1.7	-	4.9	-	-	-	52.4	50.9	159.4	45.2	11.3	11.6	-	-	1.4	1.4	28	15	-	40.3	21.9	19.3	10.6
29	IIMRQPMH 1509	-	-	10.7	11.7	-	-	-	14.3	-	-	15	-	25.1	5.8	87.2	12.8	-	-	-	0.5	-	-	24.4	13.1	19.1	9.9	27.1	18.2	-
30	HQPM 26	2.1	-	22.8	-	0.5	-	-	15	3.3	-	17.2	-	31.2	24.4	60.4	15.7	-	5.4	9.8	0.1	2.8	1.8	31	24.1	1.5	23.1	11.8	18.8	6.1
	CHECKS																													
31	HM8	-	0.9	11.9	28.2	-	7.2	-	-	-	-	38.3	-	19.4	10.4	101.4	12.1	-	0.5	-	-	-	-	12	18.4	17.5	64.5	-	23	3.6
32	HM9	-	-	28.2	-	2.7	31.6	-	15.6	26	12.7	-	-	25.9	-	63.8	-	41.9	34.2	12	12.1	9.3	19.9	32.3	17.7	11.8	43.4	41.1	28	14.2
33	HM4	-	-	10.9	-	-	-	-	-	5.6	-	-	-	22.5	43.1	116.1	20.9	-	30.2	-	7.1	9.2	6.2	24.5	9	5.9	47.2	34.3	22.8	6.8
34	DHM117	8.7	2.1	29	20.8	10.8	21.2	2.7	6.9	16.8	12.3	-	0.2	24.4	37.2	120.7	31.9	9.2	18.4	5.7	5.7	9.6	8.9	27.9	19.1	22	64.4	5.6	28.9	17.7
35	Vivek QPM9	19.7	-	8.6	-	3	-	-	2.1	4.9	-	22.1	-	-	25.4	82.5	9.4	-	17.3	-	-	-	-	5.6	-	1.1	20.2	-	0.9	-
36	HQPM1	-	-	9.8	14.9	-	-	-	6.1	9.4	-	12.7	-	37	28.1	72.3	19	4.2	36.9	-	-	-	-	30.3	10.3	25.3	29.3	-	19.2	4.3
37	HQPM4	-	-	-	32	-	7	-	-	25.5	6	-	-	48.4	59.5	106.5	29.8	14.7	0.4	-	-	1.7	-	30.1	33.6	16	19.9	6.2	22.5	8.9
38	HQPM5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
39	HQPM7	-	-	9.1	-	-	-	-	-	-	-	16.6	-	20.8	41.7	129.4	22.4	15.6	6.9	4.8	6.2	-	5.1	27.6	20.1	31	51.8	-	23.9	7.4

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

TABLE No. 17 (Cont..)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM7																															
		NHZ							NWPZ									NEPZ						PZ							CWZ	OV'L
		ALMO	BAJA	KANG	BARA	MEAN	LUDH	KARN	KANP	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN	MEAN
1	IIMRQPMH 1506	-	1.2	0	-	-	-	6.3	13.2	19.6	5.1	-	19.3	8.3	-	-	-	-	39.3	-	-	8.5	-	0.5	-	-	-	95.2	-	-
2	LQPMH 215	-	10.8	2.5	29	-	-	-	25.2	14.3	4.9	-	5.5	7.3	-	-	-	-	-	-	-	5.3	-	-	-	-	-	67.4	-	-
3	AQH8(EDV)	-	-	10.9	0.7	2.5	29	-	31.5	55.6	26.8	40.9	30.1	-	5.6	0.2	8	-	10.4	-	-	18.2	-	2.3	-	0.9	12.1	97.1	11.3	6.5
4	VEHQ14-1	-	-	-	13	-	32.1	-	13.5	46.5	20.2	-	6.8	20.7	-	-	2.4	-	20.4	6.5	-	34.8	4.3	2.3	-	-	-	33.9	-	3.2
5	PMSQ5	5.4	-	-	19.6	-	-	-	9	7.6	-	-	6	3	-	-	-	-	-	-	-	1.1	-	-	-	-	-	64.4	-	-
6	LQPMH 415	20.4	-	32.3	37.7	9.3	-	0.3	19.3	8.8	1.6	-	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	98.2	-	-
7	IIMRQPMH 1504	-	-	-	-	-	8.7	-	23.7	21	9.7	-	4.9	-	-	-	-	-	4.4	-	-	7.6	-	-	-	-	-	39.2	-	-
8	IIMRQPMH 1502	19.2	0.6	44.2	25.1	18.3	-	28.1	15	31.1	17	-	19.9	-	-	-	-	-	13	12.2	4.2	17.9	6.8	-	-	-	2.4	-	-	5.2
9	AQH4 (EDV)	-	-	37.4	31.4	0.6	-	-	25.5	15.8	-	-	10.3	-	3	-	2	-	9.3	-	10.2	4.5	-	-	-	-	-	7.4	-	-
10	MHQPM-10-15	6.6	-	-	72.5	-	-	-	28.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63.2	-	-
11	APQH9(EDV)	16.6	1	-	-	2.9	22.3	8.5	22.1	5.7	13.7	-	8.3	4.7	12.7	-	-	-	-	-	-	-	-	-	-	-	-	52.1	-	-
12	IIMRQPMH 1510	-	-	-	68.7	-	19.9	-	22.4	14.4	8.6	-	-	24	-	-	2	-	2.4	-	-	2.2	-	-	-	-	-	47.6	-	-
13	AQH9(EDV)	-	1.2	-	21.2	-	20.5	4	11.5	29.8	16.3	5.3	29.2	-	-	-	-	-	16.1	3.8	1.2	7.7	3.4	-	14.8	-	2.6	41.4	4.9	2.7
14	BAUQMH-18	-	-	-	-	-	-	-	12	13.9	-	-	15.3	2.3	-	-	-	-	-	-	-	6.6	-	-	-	-	-	68.9	-	-
15	IIMRQPMH 1505	-	-	-	3.3	-	20.7	5.8	23.8	11.2	14.1	3.8	6.1	14.7	-	0.8	1.5	2.9	4.2	-	-	6.8	0.4	1.4	7.8	-	-	58.7	0	1.5
16	FQH 106	13.6	-	45	-	14	-	18.7	38.1	8.1	6.3	-	-	2.2	-	-	-	-	-	-	-	12.7	-	-	6	-	-	107.5	-	-
17	BQPMH 36	11.1	-	1.3	-	2.2	30.7	7.9	16.1	15.9	17.5	41	15.6	22.5	-	-	-	-	10.1	5.7	2.7	27.3	7.9	-	-	-	-	44.6	-	3.3
18	EHQ-63	-	-	-	32.1	-	37.3	-	20.6	57.2	21.2	-	-	-	-	-	-	9.9	30.2	-	1.5	20.8	10.3	2.9	-	-	1.7	76.3	3	1.3
19	IIMRQPMH 1507	13	-	6.1	0.1	0.5	-	9.3	7.5	22.7	6.1	-	-	6.3	-	-	-	-	-	-	-	8.5	-	-	-	-	8.3	59.6	-	-
20	IHQ-091	-	-	-	-	-	-	-	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	BQPMH 141 (EDV	20.4	17.9	8.9	68	16.3	26.9	5.4	25.4	44.4	24.3	-	34.2	6	-	-	-	-	-	-	2.6	20.1	1.1	-	-	-	2.5	73.2	-	5.9
22	IIMRQPMH 1508	-	-	27.9	-	-	5.7	8.5	16.7	10.1	9.4	-	-	7.5	-	-	-	-	-	-	-	5.5	-	-	10.8	-	-	58.6	0.1	-
23	LQPMH 315	11.6	-	-	2.2	0.9	-	-	3.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	IIMRQPMH 1503	13.3	-	31.4	-	12.2	14.3	0	18.4	33.2	15.2	-	-	15.5	1.1	-	-	-	-	-	-	0.1	-	-	-	-	-	65.4	-	0.1
25	VEHQ15-1	8.4	4.9	-	29.8	0.5	17.5	-	8	38.6	13.6	5.8	18.2	10.5	-	-	-	-	-	-	5.9	1.5	-	-	4.8	-	-	69.6	-	1.9
26	LQPMH 115	2.9	-	4.4	30.1	-	-	-	8.7	3.7	-	-	8.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	55	-	-
27	EHQ-64	-	13.8	9.3	21.5	7.8	3.3	4.4	10	15.5	7.8	-	35	4.2	5.8	-	10.8	0.3	16.5	-	4.6	-	2.6	13.5	-	-	-	50	-	5.1
28	IIMRQPMH 1501	0.1	-	21.6	11.4	2.1	-	4.5	8.8	16.6	6.2	-	29.3	26.2	6.5	13.1	18.7	-	4.5	-	-	8.1	-	0.3	-	-	-	68.9	-	3
29	IIMRQPMH 1509	-	-	1.4	35.3	-	6.1	-	29.9	2.9	-	-	9.9	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	76.2	-	-
30	HQPM 26	12.8	-	12.5	-	2.8	8.5	-	30.7	14.8	6.2	0.5	17.5	8.6	-	-	-	-	-	4.7	-	9.6	-	2.7	3.4	-	-	54.9	-	-
	CHECKS																													
31	HM8	-	3.7	2.5	55.2	-	22.2	-	8.8	8.4	8.9	18.6	1.6	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	34.1	-	-
32	HM9	-	1.1	17.5	12.3	5.1	50	-	31.4	40	23.6	-	-	4.2	-	-	-	22.8	25.6	6.9	5.6	16.6	14.1	3.8	-	-	-	95.5	3.3	6.3
33	HM4	5	-	1.6	20	-	-	-	9.3	17.4	0.1	-	0.4	1.4	1	-	-	-	21.8	-	0.9	16.5	1.1	-	-	-	-	86.1	-	-
34	DHM117	20	4.9	18.2	46.3	13.4	38.2	5.5	21.6	29.9	23.2	-	33.7	2.9	-	-	7.8	-	10.8	0.9	-	16.9	3.6	0.3	-	-	8.3	46.4	4	9.5
35	Vivek QPM9	32.2	-	-	-	5.4	-	-	16.1	16.6	0.2	4.7	8.9	-	-	-	-	-	9.8	-	-	-	-	-	-	-	-	-	-	-	-
36	HQPM1	-	-	0.6	39.2	-	0.1	-	20.6	21.6	5.8	-	15.9	13.3	-	-	-	-	28.1	-	-	3.8	-	2.1	-	-	-	25.6	-	-
37	HQPM4	-	-	-	59.8	-	22	-	8.2	39.5	16.3	-	6.5	22.8	12.5	-	6.1	-	-	-	-	8.5	-	2	11.3	-	-	47.2	-	1.4
38	HQPM5	10.4	2.7	-	21.1	2.3	14	2.8	13.7	11.1	9.7	-	33.4	-	-	-	-	-	-	-	-	6.7	-	-	-	-	-	38.6	-	-
39	HQPM7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : BARA 43.6 %: DHOL 26.1 %

Table No. 17 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	78.0	75.6	82.7	77.5	78.4	82.4	79.5	73.5	86.7	80.5	74.0	86.2	79.2	75.5	79.6	78.9
2	LQPMH 215	78.2	79.1	81.1	76.3	78.7	84.6	81.2	77.5	84.5	82.0	73.0	84.2	82.1	79.5	75.8	78.9
3	AQH8(EDV)	77.0	76.2	79.2	77.6	77.5	86.5	81.5	78.0	86.5	83.1	80.0	83.1	81.8	74.5	80.7	80.0
4	VEHQ14-1	78.7	72.8	79.6	77.6	77.2	84.3	79.5	75.0	87.2	81.5	83.5	83.5	82.2	75.5	77.8	80.5
5	PMSQ5	76.4	83.3	78.1	78.6	79.1	81.9	80.3	76.0	79.2	79.3	73.0	81.7	82.3	71.5	77.2	77.1
6	LQPMH 415	79.8	78.6	80.5	79.4	79.6	86.0	78.5	76.0	87.1	81.9	77.5	76.1	80.9	76.0	78.9	77.9
7	IIMRQPMH 1504	79.7	74.7	77.9	77.4	77.4	79.0	81.7	77.5	77.5	78.9	79.0	79.4	79.5	72.5	74.5	77.0
8	IIMRQPMH 1502	77.7	81.8	83.4	78.8	80.4	83.5	80.3	77.0	83.0	80.9	81.0	84.3	80.3	75.5	78.0	79.8
9	AQH4 (EDV)	80.7	76.6	82.9	77.9	79.5	84.5	78.9	76.0	82.4	80.5	82.5	88.9	81.0	77.0	77.8	81.4
10	MHQPM-10-15	79.4	79.4	81.1	78.2	79.5	83.0	81.0	76.5	83.9	81.1	75.0	85.0	83.3	74.0	78.1	79.1
11	APQH9(EDV)	80.7	78.1	79.6	77.5	79.0	86.3	80.4	77.0	83.9	81.9	78.0	84.6	81.3	75.5	73.9	78.7
12	IIMRQPMH 1510	78.4	74.4	76.8	77.9	76.9	83.8	79.5	76.0	81.3	80.1	73.0	82.3	80.8	75.0	77.0	77.6
13	AQH9(EDV)	75.6	82.4	77.3	76.4	77.9	87.4	80.9	77.0	85.1	82.6	79.0	84.6	82.3	73.0	74.3	78.6
14	BAUQMH-18	81.3	83.2	82.1	77.0	80.9	85.2	79.6	78.5	84.5	81.9	77.5	86.3	83.9	82.5	78.3	81.7
15	IIMRQPMH 1505	79.2	75.9	78.8	77.3	77.8	81.6	81.4	76.0	79.7	79.7	76.0	79.7	79.3	75.5	78.0	77.7
16	FQH 106	82.0	80.2	81.7	78.2	80.5	84.0	80.4	75.5	83.7	80.9	81.5	84.7	80.0	73.5	78.5	79.6
17	BQPMH 36	81.1	80.4	80.8	77.8	80.0	85.5	81.8	72.5	81.7	80.4	76.5	84.9	80.0	75.5	74.0	78.2
18	EHQ-63	83.8	78.1	78.4	77.8	79.5	84.7	80.6	70.5	86.1	80.5	73.0	82.0	81.6	74.0	75.0	77.1
19	IIMRQPMH 1507	81.6	73.4	81.5	77.3	78.5	86.3	80.2	71.5	87.3	81.3	79.0	83.9	81.3	79.0	76.4	79.9
20	IHQ-091	82.4	79.9	80.4	77.5	80.0	84.6	75.4	75.0	80.9	79.0	73.0	82.2	82.8	77.5	79.3	79.0
21	BQPMH 141 (EDV-DHM117)	80.4	78.6	80.2	79.0	79.6	86.2	80.2	75.5	86.7	82.1	76.0	85.5	84.3	77.0	75.9	79.7
22	IIMRQPMH 1508	81.5	80.1	78.1	78.1	79.5	80.3	80.4	77.5	81.3	79.9	70.5	81.6	81.1	75.5	76.0	76.9
23	LQPMH 315	80.3	77.9	79.2	78.0	78.8	84.7	80.0	74.5	78.8	79.5	79.0	81.0	82.6	80.0	76.6	79.8
24	IIMRQPMH 1503	77.1	75.9	78.7	77.8	77.3	81.5	81.3	73.5	86.3	80.6	71.0	78.7	82.7	74.0	74.6	76.2

Table No. 17 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	77.6	75.9	77.8	77.7	77.2	82.6	78.9	72.5	86.4	80.1	76.0	83.1	81.6	78.0	75.6	78.9
26	LQPMH 115	79.1	80.0	79.9	77.9	79.2	82.3	79.6	77.0	84.1	80.7	81.0	80.8	80.6	73.5	74.1	78.0
27	EHQ-64	79.0	79.5	79.1	78.2	79.0	85.5	80.8	74.5	81.1	80.5	76.5	85.0	81.6	76.5	77.1	79.3
28	IIMRQPMH 1501	80.4	81.2	84.2	77.7	80.9	84.1	80.7	71.0	83.3	79.8	73.0	84.8	81.6	77.5	79.4	79.3
29	IIMRQPMH 1509	79.1	77.7	80.1	76.8	78.4	81.9	78.6	75.0	81.4	79.2	81.5	80.5	79.1	73.5	76.4	78.2
30	HQPM 26	80.9	78.7	80.8	78.0	79.6	83.8	77.9	76.0	82.2	80.0	76.0	82.3	81.8	77.5	78.8	79.3
	CHECKS																
31	HM8-C	79.3	78.9	79.7	77.9	78.9	87.3	81.6	73.5	86.6	82.2	80.0	84.1	80.7	76.0	73.4	78.8
32	HM9-C	75.2	81.0	79.2	79.6	78.8	86.3	79.6	77.0	83.6	81.6	77.5	79.5	83.5	74.5	74.4	77.9
33	HM4-C	80.6	79.1	81.1	77.9	79.7	82.0	78.0	77.5	78.5	79.0	78.5	80.9	79.8	78.0	77.1	78.8
34	DHM117-C	77.1	78.6	82.1	77.5	78.8	85.2	80.5	75.5	85.7	81.7	76.0	84.7	80.3	74.0	78.7	78.7
35	VivekQPM9-C	84.4	79.8	82.4	78.0	81.2	86.6	79.6	77.5	86.3	82.5	80.0	85.7	83.8	76.0	73.8	79.9
36	HQPM1-C	76.7	76.5	79.9	77.7	77.7	81.8	80.1	75.5	87.0	81.1	80.0	84.0	83.4	78.0	76.6	80.4
37	HQPM4-C	74.5	74.4	76.7	77.4	75.8	78.5	79.6	78.0	79.6	78.9	77.5	79.6	80.0	83.0	74.1	78.8
38	HQPM5-C	80.2	77.4	79.7	79.4	79.2	84.1	81.5	75.0	83.9	81.1	81.0	85.5	81.9	75.5	77.0	80.2
39	HQPM7-C	78.9	79.0	79.7	79.1	79.2	82.5	80.3	76.0	78.4	79.3	78.5	81.2	77.0	74.5	75.6	77.4
	Loc. Mean	**79.3**	**78.3**	**80.0**	**77.9**	**78.9**	**83.9**	**80.0**	**75.5**	**83.4**	**80.7**	**77.3**	**83.0**	**81.4**	**76.0**	**76.6**	**78.9**
	C.D. (5%)	2.35	-	2.46	3.34	2.50	2.15	0.33	1.44	1.84	2.97	5.93	2.29	0.00	2.37	1.05	2.93
	C.V. (%)	1.82	-	1.52	2.64	2.27	1.57	0.25	1.18	1.36	2.62	4.72	1.70	0.00	1.91	0.84	2.98
	F (Prob)	0.00	0.00	0.00	1.00	0.01	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.09

Table No. 17 (Continued)

		GRAIN SHELLING %												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	77.6	81.9	84.4	82.9	78.1	81.0	83.0	78.8	81.9	79.3	86.4	81.8	80.2
2	LQPMH 215	77.0	81.1	82.2	84.4	79.1	80.7	82.7	77.4	82.2	81.2	81.1	80.9	80.2
3	AQH8(EDV)	75.5	79.6	84.7	83.1	77.0	80.0	83.2	78.4	86.7	77.9	85.1	82.2	80.6
4	VEHQ14-1	77.8	82.2	84.6	83.5	80.9	81.8	83.0	76.4	88.4	80.4	85.8	82.8	80.9
5	PMSQ5	72.3	80.2	82.1	83.6	76.7	79.0	82.7	77.7	86.9	80.3	79.1	81.3	79.2
6	LQPMH 415	78.3	82.4	86.3	82.4	75.8	81.0	82.7	78.0	86.3	82.6	85.1	82.9	80.6
7	IIMRQPMH 1504	71.5	78.5	82.9	81.0	76.3	78.0	83.6	78.5	87.7	80.3	84.6	82.9	78.9
8	IIMRQPMH 1502	81.0	82.4	83.4	83.7	79.3	82.0	82.8	78.0	81.3	80.7	81.7	80.9	80.8
9	AQH4 (EDV)	75.0	79.1	84.1	82.8	77.3	79.6	82.3	76.6	87.2	80.2	84.1	82.1	80.7
10	MHQPM-10-15	78.8	82.9	86.7	83.8	80.6	82.5	82.5	75.8	87.4	80.9	80.1	81.3	80.7
11	APQH9(EDV)	82.7	82.8	84.4	82.1	79.8	82.3	82.5	78.1	88.9	81.1	81.6	82.4	80.9
12	IIMRQPMH 1510	74.5	79.5	82.1	82.8	77.8	79.3	83.1	77.8	81.9	80.1	74.2	79.4	78.7
13	AQH9(EDV)	77.1	83.0	85.5	81.2	78.1	81.0	82.5	75.1	88.4	80.1	84.2	82.1	80.4
14	BAUQMH-18	76.8	82.9	86.2	81.7	79.2	81.3	82.7	77.1	88.1	81.8	81.2	82.2	81.6
15	IIMRQPMH 1505	77.9	80.8	82.0	79.6	77.6	79.6	83.0	80.0	82.6	79.0	87.3	82.4	79.5
16	FQH 106	78.1	82.7	82.9	84.0	82.2	82.0	82.8	81.2	88.9	82.5	85.6	84.2	81.5
17	BQPMH 36	74.9	79.6	84.8	81.5	78.6	79.9	83.1	76.8	85.5	80.7	85.4	82.3	80.1
18	EHQ-63	75.7	81.6	85.7	83.9	76.3	80.6	83.1	77.6	86.3	80.1	81.7	81.7	79.9
19	IIMRQPMH 1507	74.1	82.9	83.8	82.8	76.6	80.0	82.5	76.3	83.0	80.5	80.5	80.6	80.1
20	IHQ-091	78.6	82.3	84.2	83.3	83.3	82.3	82.8	67.1	85.5	80.8	84.5	80.1	80.1
21	BQPMH 141 (EDV-DHM117)	71.1	77.9	82.3	79.9	76.4	77.5	82.8	77.6	90.0	79.4	82.7	82.5	80.2
22	IIMRQPMH 1508	76.7	77.0	83.5	78.1	76.7	78.4	82.5	80.1	85.3	80.1	84.0	82.4	79.4
23	LQPMH 315	74.3	81.0	85.0	84.1	76.2	80.1	83.1	71.5	83.3	80.5	79.4	79.6	79.6
24	IIMRQPMH 1503	72.8	76.0	82.9	80.6	75.8	77.6	83.3	77.0	84.4	78.2	83.3	81.2	78.6

Table No. 17 (Continued)

		GRAIN SHELLING %												
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	75.2	77.3	83.8	81.6	77.0	79.0	82.6	78.2	91.6	77.7	79.1	81.9	79.5
26	LQPMH 115	75.2	79.7	81.2	82.1	76.8	79.0	82.5	66.7	84.7	78.8	66.9	75.9	78.4
27	EHQ-64	81.6	83.9	82.4	84.1	79.5	82.3	82.9	78.0	76.4	81.9	78.6	79.5	80.2
28	IIMRQPMH 1501	76.8	80.3	84.9	80.4	77.8	80.0	83.1	78.3	86.5	81.7	82.6	82.4	80.5
29	IIMRQPMH 1509	73.6	77.3	82.3	81.8	76.1	78.2	82.2	79.2	82.3	79.6	85.6	81.8	79.2
30	HQPM 26	81.4	82.3	84.1	80.9	81.9	82.1	82.7	79.3	80.9	81.5	84.0	81.7	80.6
	CHECKS													
31	HM8-C	73.9	79.3	84.9	82.3	78.4	79.7	82.7	79.1	87.5	80.4	82.4	82.4	80.4
32	HM9-C	77.0	81.4	85.4	81.0	77.8	80.5	83.0	79.7	88.0	78.2	81.3	82.0	80.2
33	HM4-C	76.4	83.0	85.2	81.9	78.3	80.9	82.5	78.1	81.5	81.9	89.3	82.7	80.3
34	DHM117-C	71.6	79.3	80.9	81.4	75.3	77.7	82.3	78.5	89.9	79.0	71.2	80.2	79.4
35	VivekQPM9-C	80.1	82.4	86.1	82.1	79.9	82.1	82.8	78.7	89.3	81.4	83.5	83.1	81.7
36	HQPM1-C	76.1	82.7	82.1	82.4	79.8	80.6	82.6	76.5	86.3	79.2	80.1	80.9	80.2
37	HQPM4-C	74.7	78.1	81.8	79.9	77.5	78.4	82.5	80.6	89.6	75.3	76.8	80.9	78.7
38	HQPM5-C	74.1	79.9	83.5	82.9	75.9	79.2	83.0	77.0	79.6	78.5	84.1	80.4	80.0
39	HQPM7-C	76.5	78.1	82.8	80.1	76.6	78.8	82.6	77.1	87.8	77.7	85.6	82.2	79.4
	Loc. Mean	**76.2**	**80.6**	**83.8**	**82.1**	**78.0**	**80.2**	**82.8**	**77.3**	**85.6**	**80.0**	**82.0**	**81.5**	**80.1**
	C.D. (5%)	3.00	1.39	1.89	1.20	0.80	1.90	0.45	3.19	5.64	2.37	4.40	3.48	1.29
	C.V. (%)	2.42	1.06	1.39	0.90	0.63	1.90	0.33	2.54	4.05	1.82	3.30	3.41	2.79
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00

Table No. 17 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	26.1	25.3	23.8	25.7	25.2	22.1	21.6	17.5	18.4	19.9	23.4	23.4	16.7	26.4	24.0	22.8
2	LQPMH 215	19.8	24.9	25.5	26.3	24.1	23.6	24.0	15.5	16.1	19.8	19.0	23.5	17.1	22.3	24.2	21.2
3	AQH8(EDV)	21.4	24.1	24.9	25.0	23.8	23.9	23.6	16.0	18.3	20.4	21.4	24.0	17.8	31.0	26.9	24.2
4	VEHQ14-1	25.9	24.2	25.7	24.0	24.9	22.8	23.5	15.0	17.9	19.8	20.9	24.3	17.5	31.3	27.0	24.2
5	PMSQ5	21.0	24.9	26.5	23.3	23.9	23.7	24.6	15.5	16.7	20.1	18.2	24.5	17.6	28.1	24.6	22.6
6	LQPMH 415	18.6	24.5	24.6	27.7	23.8	23.4	22.8	17.5	15.9	19.9	21.9	22.7	18.4	23.6	24.9	22.3
7	IIMRQPMH 1504	21.4	24.7	25.2	25.7	24.2	21.2	24.8	17.0	15.8	19.7	21.5	24.5	16.5	27.4	23.0	22.6
8	IIMRQPMH 1502	20.2	24.8	24.0	25.3	23.6	22.5	23.5	17.5	18.9	20.6	20.6	24.1	16.9	25.3	26.7	22.7
9	AQH4 (EDV)	21.4	25.5	25.8	27.7	25.1	22.5	23.4	14.5	16.0	19.1	19.7	25.4	18.0	23.9	27.2	22.8
10	MHQPM-10-15	22.5	24.6	25.9	26.3	24.8	21.5	24.5	15.0	16.5	19.3	23.7	23.8	17.3	29.2	24.1	23.6
11	APQH9(EDV)	19.7	24.3	20.7	25.3	22.5	21.8	24.2	15.5	17.0	19.6	21.9	24.0	18.3	27.8	25.8	23.5
12	IIMRQPMH 1510	25.6	23.6	24.9	22.0	24.0	22.9	24.1	15.0	18.3	20.1	21.2	24.4	17.2	28.3	25.8	23.4
13	AQH9(EDV)	21.3	25.2	25.2	25.0	24.2	23.4	22.8	17.5	18.5	20.5	19.7	23.3	18.5	25.7	23.5	22.1
14	BAUQMH-18	21.0	24.8	22.3	21.7	22.4	23.6	25.0	15.5	16.7	20.2	25.1	22.9	19.3	27.0	23.2	23.5
15	IIMRQPMH 1505	27.8	25.0	25.6	25.0	25.8	23.4	22.6	14.5	17.9	19.6	20.1	24.8	18.4	26.7	27.0	23.4
16	FQH 106	21.9	24.1	24.2	23.0	23.3	22.1	22.5	14.5	15.2	18.6	21.0	24.7	17.7	21.8	23.1	21.6
17	BQPMH 36	20.4	25.0	25.9	23.7	23.7	21.7	22.3	15.5	19.5	19.7	22.6	23.9	17.0	29.9	23.0	23.3
18	EHQ-63	18.8	24.4	24.7	25.0	23.2	23.6	24.9	17.5	19.7	21.4	19.5	24.3	17.8	26.4	22.9	22.2
19	IIMRQPMH 1507	20.2	24.3	23.8	22.0	22.6	22.4	22.4	16.5	16.4	19.4	16.6	21.9	18.3	26.5	25.0	21.7
20	IHQ-091	20.4	23.9	21.2	21.7	21.8	22.8	24.4	15.5	15.1	19.4	23.0	22.6	18.6	29.1	23.8	23.4
21	BQPMH 141 (EDV-DHM117)	21.5	24.3	26.8	24.0	24.2	22.0	24.7	14.5	17.0	19.5	21.7	23.9	16.8	28.4	23.0	22.7
22	IIMRQPMH 1508	22.2	24.5	25.6	25.7	24.5	24.0	23.6	15.5	19.6	20.7	19.8	23.9	17.6	25.5	24.1	22.2
23	LQPMH 315	18.4	25.2	21.6	25.3	22.6	21.6	23.6	17.5	16.4	19.8	16.2	21.5	18.1	23.2	22.9	20.4
24	IIMRQPMH 1503	19.1	24.6	26.7	25.3	23.9	22.1	22.3	15.0	16.8	19.1	21.0	20.7	17.8	26.7	26.1	22.5

Table No. 17 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	21.8	25.0	25.1	22.3	23.6	13.4	24.7	15.5	18.3	18.0	22.2	21.3	18.3	30.6	26.8	23.8
26	LQPMH 115	19.9	23.2	25.0	24.7	23.2	23.2	23.6	15.0	16.2	19.5	21.4	22.8	17.4	22.9	24.8	21.9
27	EHQ-64	22.7	24.8	25.8	23.3	24.1	22.0	23.3	18.0	18.3	20.4	23.3	22.4	19.0	27.6	26.6	23.8
28	IIMRQPMH 1501	21.9	25.9	25.2	23.7	24.2	22.5	23.0	17.0	17.0	19.9	19.3	24.0	18.4	25.4	27.7	22.9
29	IIMRQPMH 1509	21.0	25.0	25.8	23.3	23.8	23.2	22.4	14.5	16.7	19.2	20.6	23.9	17.8	26.3	24.6	22.6
30	HQPM 26	19.5	24.1	26.1	24.0	23.4	23.6	22.7	14.0	16.6	19.2	19.1	22.7	17.5	26.8	23.0	21.8
	CHECKS																
31	HM8-C	20.4	24.7	24.9	24.7	23.7	21.9	22.5	16.5	19.7	20.2	19.8	23.8	17.2	29.4	26.1	23.2
32	HM9-C	22.8	24.7	25.4	23.0	24.0	21.7	23.6	15.0	21.8	20.5	18.8	26.2	18.3	27.3	24.5	23.0
33	HM4-C	23.0	24.5	26.1	21.7	23.8	21.7	22.2	16.5	15.5	19.0	21.4	24.9	17.7	29.5	27.1	24.1
34	DHM117-C	20.2	24.9	25.9	26.7	24.4	22.1	24.0	17.5	18.4	20.5	23.7	24.3	17.4	29.9	25.5	24.1
35	VivekQPM9-C	18.6	24.3	22.8	24.7	22.6	22.1	22.5	15.5	15.6	18.9	17.5	22.6	17.8	25.3	24.0	21.4
36	HQPM1-C	23.5	25.3	27.4	23.0	24.8	24.1	24.8	16.5	20.5	21.5	24.1	24.3	16.8	30.7	23.9	24.0
37	HQPM4-C	21.5	25.0	24.9	24.0	23.9	21.9	23.5	16.0	19.1	20.1	25.6	23.3	17.9	28.9	25.9	24.3
38	HQPM5-C	21.1	25.1	24.6	24.7	23.8	21.7	22.5	15.0	20.5	19.9	22.8	24.4	18.6	32.1	23.1	24.2
39	HQPM7-C	22.5	25.0	26.9	23.0	24.3	23.9	25.1	15.5	17.5	20.5	18.4	23.5	17.6	26.8	25.0	22.3
	Loc. Mean	**21.5**	**24.6**	**24.9**	**24.3**	**23.8**	**22.4**	**23.5**	**15.9**	**17.6**	**19.8**	**20.9**	**23.6**	**17.8**	**27.2**	**24.9**	**22.9**
	C.D. (5%)	1.68	0.65	1.78	3.93	2.11	3.38	0.36	1.06	1.17	1.93	4.46	1.38	0.00	1.94	0.91	2.05
	C.V. (%)	4.81	1.63	3.52	9.94	6.31	9.29	0.94	4.10	4.10	6.95	13.10	3.60	0.00	4.38	2.26	7.16
	F (Prob)	0.00	0.00	0.00	0.18	0.21	0.01	0.00	0.00	0.00	0.42	0.01	0.00	0.00	0.00	0.00	0.01

Table No. 17 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST											
		HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	CWZ Mean	OV'L Mean
1	IIMRQPMH 1506	19.2	16.3	13.1	15.6	29.1	18.7	23.2	16.9	12.0	14.7	16.7	20.6
2	LQPMH 215	19.1	11.8	11.0	12.4	26.9	16.2	23.0	17.0	11.4	15.1	16.6	19.5
3	AQH8(EDV)	23.4	17.8	13.2	15.0	28.9	19.6	22.8	17.4	12.0	13.5	16.4	21.0
4	VEHQ14-1	22.5	18.8	13.9	14.9	29.0	19.8	23.4	16.5	11.7	13.6	16.3	21.1
5	PMSQ5	23.2	16.9	13.1	14.6	27.9	19.1	22.9	17.4	11.9	13.4	16.4	20.5
6	LQPMH 415	18.7	11.4	10.6	12.2	26.2	15.8	23.3	16.9	12.2	14.1	16.6	19.6
7	IIMRQPMH 1504	23.8	18.2	12.1	13.3	28.2	19.1	22.4	16.2	12.7	14.8	16.5	20.5
8	IIMRQPMH 1502	23.2	14.6	10.6	14.5	27.8	18.1	22.3	16.9	11.1	16.6	16.7	20.3
9	AQH4 (EDV)	19.4	16.5	10.8	14.7	29.5	18.2	22.3	16.7	11.3	16.5	16.7	20.4
10	MHQPM-10-15	20.3	18.1	12.6	13.3	23.8	17.6	23.1	16.7	11.7	17.1	17.1	20.5
11	APQH9(EDV)	15.6	12.4	9.8	13.6	25.1	15.3	22.3	16.2	11.4	17.0	16.7	19.5
12	IIMRQPMH 1510	24.6	15.9	11.1	14.6	27.6	18.7	22.6	17.3	12.2	14.9	16.7	20.6
13	AQH9(EDV)	20.4	17.8	13.1	14.9	28.9	19.0	22.7	16.5	12.7	14.5	16.6	20.5
14	BAUQMH-18	22.7	12.6	12.5	14.0	25.0	17.3	23.0	17.1	11.9	14.4	16.6	20.0
15	IIMRQPMH 1505	22.4	14.9	11.5	12.9	28.2	18.0	23.2	17.1	11.8	15.3	16.8	20.7
16	FQH 106	22.0	11.3	10.0	13.4	24.0	16.1	23.1	16.2	10.5	13.5	15.8	19.1
17	BQPMH 36	20.4	12.3	11.3	14.4	28.2	17.3	22.4	17.0	11.5	15.1	16.5	20.1
18	EHQ-63	23.5	22.0	11.0	16.5	29.2	20.4	23.0	17.2	12.5	16.5	17.3	20.9
19	IIMRQPMH 1507	23.6	16.0	12.5	14.0	27.4	18.7	23.0	16.9	11.7	15.1	16.7	19.8
20	IHQ-091	16.5	11.4	9.9	12.6	21.0	14.3	22.6	16.2	11.0	15.5	16.3	19.0
21	BQPMH 141 (EDV-DHM117)	22.2	19.4	12.3	16.2	28.8	19.8	23.2	15.7	13.8	14.9	16.9	20.7
22	IIMRQPMH 1508	22.5	11.7	11.6	12.8	25.5	16.8	22.8	16.7	11.8	17.0	17.1	20.2
23	LQPMH 315	20.4	9.9	9.9	14.5	24.1	15.7	22.8	16.4	10.9	15.8	16.5	18.9
24	IIMRQPMH 1503	20.6	12.5	11.3	14.0	28.2	17.3	23.0	16.8	12.0	15.0	16.7	19.9

Table No. 17 (Continued)

S.No.	PEDIGREE	MOISTURE % AT HARVEST											
		HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	23.5	20.0	16.0	15.4	28.2	20.6	22.3	16.8	12.2	14.2	16.4	20.6
26	LQPMH 115	21.1	11.3	10.2	13.3	20.5	15.3	22.7	16.5	11.7	14.5	16.3	19.2
27	EHQ-64	20.4	16.6	10.1	14.2	24.9	17.2	22.2	16.0	11.8	16.0	16.5	20.4
28	IIMRQPMH 1501	22.5	14.3	11.4	13.4	28.8	18.1	22.7	16.8	11.8	15.8	16.8	20.4
29	IIMRQPMH 1509	20.3	15.3	12.4	13.5	28.1	17.9	23.1	16.9	12.1	15.3	16.9	20.1
30	HQPM 26	25.7	13.1	11.5	13.8	28.4	18.5	22.5	16.9	11.5	16.6	16.9	20.0
	CHECKS												
31	HM8-C	20.2	16.2	14.7	15.4	28.1	18.9	23.0	17.0	11.4	14.4	16.4	20.5
32	HM9-C	21.7	21.9	12.8	16.0	28.0	20.1	23.0	17.1	13.5	15.2	17.2	21.0
33	HM4-C	21.0	14.3	11.3	14.5	29.0	18.0	22.6	16.7	10.7	14.2	16.0	20.3
34	DHM117-C	21.1	21.8	12.9	14.9	30.0	20.1	22.9	17.0	11.8	14.1	16.4	21.2
35	VivekQPM9-C	18.0	12.5	10.4	12.8	26.0	15.9	22.3	17.0	11.2	14.8	16.3	19.0
36	HQPM1-C	22.2	18.3	13.0	14.3	28.2	19.2	22.6	17.1	11.7	16.1	16.9	21.3
37	HQPM4-C	20.2	19.5	11.8	16.1	26.1	18.7	22.3	17.2	12.6	15.6	16.9	20.8
38	HQPM5-C	21.3	19.9	12.8	15.3	28.0	19.4	23.1	17.4	11.7	16.0	17.0	21.0
39	HQPM7-C	21.2	15.5	11.8	14.3	27.8	18.1	22.9	16.1	11.8	16.7	16.9	20.4
	Loc. Mean	**21.3**	**15.6**	**11.8**	**14.2**	**27.1**	**18.0**	**22.8**	**16.8**	**11.8**	**15.2**	**16.6**	**20.3**
	C.D. (5%)	1.54	1.55	1.29	0.63	1.13	2.10	0.56	0.47	1.07	0.55	0.97	0.90
	C.V. (%)	4.46	6.09	6.70	2.71	2.55	9.32	1.51	1.73	5.56	2.21	4.14	7.53
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.80	0.00

Table No. 17 (Continued)

		STAND AT HARVEST ('000/ha)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	60.5	71.8	72.9	52.8	64.5	70.5	62.5	78.1	55.3	66.6	38.9	66.1	63.9	65.3	70.1	60.9
2	LQPMH 215	61.7	67.6	75.5	54.2	64.8	75.3	62.2	75.7	56.7	67.5	46.9	68.8	62.5	62.8	66.3	61.5
3	AQH8(EDV)	61.7	72.2	74.7	46.5	63.8	76.0	62.8	76.7	56.4	68.0	52.2	66.1	61.1	65.6	67.7	62.5
4	VEHQ14-1	56.8	70.8	72.0	50.7	62.6	60.8	62.5	78.5	55.8	64.4	45.8	66.4	60.8	62.8	61.1	59.4
5	PMSQ5	59.9	63.9	71.2	48.6	60.9	69.4	62.5	76.4	56.7	66.3	36.9	68.8	59.0	69.4	69.1	60.7
6	LQPMH 415	61.1	74.5	71.2	47.9	63.7	67.7	62.5	80.6	56.7	66.9	39.2	67.6	60.8	62.8	64.2	58.9
7	IIMRQPMH 1504	60.5	67.1	70.3	50.0	62.0	69.4	62.8	77.8	56.1	66.5	52.2	67.3	61.5	66.7	66.3	62.8
8	IIMRQPMH 1502	62.3	69.0	72.0	51.4	63.7	70.8	61.7	77.4	56.1	66.5	46.9	69.6	59.0	69.8	61.8	61.4
9	AQH4 (EDV)	64.2	70.4	78.1	43.8	64.1	70.8	62.2	77.8	56.7	66.9	49.2	67.6	60.8	63.2	62.2	60.6
10	MHQPM-10-15	60.5	63.9	76.4	52.1	63.2	44.4	63.1	76.0	53.9	59.4	45.0	63.1	62.5	62.2	67.4	60.0
11	APQH9(EDV)	63.6	77.8	75.5	44.4	65.3	78.1	61.9	79.2	56.4	68.9	39.4	64.0	59.0	70.1	63.9	59.3
12	IIMRQPMH 1510	62.3	68.1	70.3	56.9	64.4	74.3	62.5	77.1	56.1	67.5	50.0	65.5	62.8	70.5	62.8	62.3
13	AQH9(EDV)	58.6	66.7	72.9	47.2	61.4	75.7	62.5	77.8	55.3	67.8	41.9	67.3	59.0	63.2	67.0	59.7
14	BAUQMH-18	58.6	64.8	71.2	45.1	59.9	63.5	61.4	77.4	56.4	64.7	51.7	67.3	60.8	54.2	62.2	59.2
15	IIMRQPMH 1505	59.3	68.1	74.7	46.5	62.1	77.4	62.2	76.0	56.7	68.1	54.7	67.0	62.2	64.2	66.7	62.9
16	FQH 106	63.6	64.4	78.1	47.9	63.5	71.5	61.7	77.4	56.7	66.8	41.7	66.1	62.2	69.4	66.0	61.1
17	BQPMH 36	61.7	66.7	70.3	54.2	63.2	74.7	62.2	77.1	56.1	67.5	44.2	66.4	59.7	67.4	69.8	61.5
18	EHQ-63	58.6	69.4	71.2	50.0	62.3	76.0	61.9	79.5	56.7	68.5	48.6	65.5	61.1	65.3	65.6	61.2
19	IIMRQPMH 1507	58.0	63.4	70.3	49.0	60.2	71.5	63.1	76.7	56.7	67.0	51.7	65.2	59.4	63.2	66.3	61.1
20	IHQ-091	60.5	64.4	71.2	52.1	62.0	68.4	62.8	77.1	56.4	66.2	41.4	65.8	60.8	67.4	62.2	59.5
21	BQPMH 141 (EDV-DHM117)	58.6	78.2	72.0	48.6	64.4	73.3	63.1	78.1	56.7	67.8	46.4	67.0	59.0	68.4	65.6	61.3
22	IIMRQPMH 1508	62.3	60.6	76.4	51.4	62.7	74.7	62.8	77.4	56.7	67.9	52.5	64.6	62.5	67.0	67.7	62.9
23	LQPMH 315	61.1	68.5	73.8	46.5	62.5	67.0	61.7	78.5	56.4	65.9	46.1	66.7	58.7	66.3	67.4	61.0
24	IIMRQPMH 1503	63.6	71.3	71.2	43.8	62.5	69.8	62.2	78.8	56.1	66.7	50.3	65.5	63.2	67.0	67.7	62.7

Table No. 17 (Continued)

		STAND AT HARVEST ('000/ha)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	59.9	74.5	71.2	47.9	63.4	70.5	62.2	77.4	56.1	66.6	53.1	62.5	58.3	66.3	65.3	61.1
26	LQPMH 115	60.5	69.0	71.2	45.1	61.4	65.6	61.7	78.8	56.7	65.7	53.3	69.3	59.7	65.3	64.9	62.5
27	EHQ-64	56.8	63.4	72.0	46.5	59.7	80.2	62.5	78.5	55.8	69.3	45.8	66.4	64.6	68.1	62.2	61.4
28	IIMRQPMH 1501	58.0	63.9	70.3	49.3	60.4	69.8	62.8	81.3	56.7	67.6	41.9	63.7	64.2	64.9	69.8	60.9
29	IIMRQPMH 1509	58.6	69.0	72.9	47.2	61.9	77.4	62.8	79.2	56.7	69.0	41.4	66.7	60.4	67.0	62.8	59.7
30	HQPM 26	56.2	64.8	72.0	49.3	60.6	76.7	62.5	79.2	56.4	68.7	56.1	66.4	59.7	64.6	70.1	63.4
	CHECKS																
31	HM8-C	61.7	65.3	73.8	47.9	62.2	80.9	62.5	79.5	52.5	68.9	50.6	65.2	63.5	63.9	69.1	62.5
32	HM9-C	63.0	73.6	70.3	48.6	63.9	74.0	63.3	78.8	56.7	68.2	40.3	64.9	58.3	64.9	59.4	57.6
33	HM4-C	58.0	67.6	75.5	54.9	64.0	74.0	61.9	78.1	55.3	67.3	40.6	67.6	58.3	68.1	64.9	59.9
34	DHM117-C	60.5	68.1	72.9	51.4	63.2	73.3	62.5	78.1	56.7	67.6	44.7	64.9	59.7	66.0	68.4	60.7
35	VivekQPM9-C	58.0	63.0	74.7	44.4	60.0	74.3	61.9	79.5	56.4	68.0	46.9	67.0	62.5	59.0	63.5	59.8
36	HQPM1-C	59.3	73.6	71.2	46.5	62.6	69.1	63.1	80.9	56.7	67.4	46.7	64.3	61.5	64.2	68.1	60.9
37	HQPM4-C	59.9	64.4	73.8	43.8	60.4	70.5	63.9	76.7	56.7	66.9	42.2	65.2	59.0	63.2	68.1	59.5
38	HQPM5-C	63.6	66.7	71.2	47.2	62.2	60.1	61.4	78.5	55.6	63.9	46.9	66.1	58.3	63.9	58.3	58.7
39	HQPM7-C	62.3	64.8	72.9	39.6	59.9	68.1	62.8	76.4	54.7	65.5	48.3	63.4	59.4	65.6	66.0	60.5
	Loc. Mean	**60.4**	**68.1**	**72.8**	**48.5**	**62.4**	**71.2**	**62.4**	**78.1**	**56.1**	**66.9**	**46.5**	**66.1**	**60.8**	**65.4**	**65.6**	**60.9**
	C.D. (5%)	5.84	6.42	4.75	10.88	4.44	7.22	1.64	2.52	1.79	4.58	12.07	5.71	4.51	4.80	3.39	3.96
	C.V. (%)	5.94	5.79	3.22	13.79	5.08	6.24	1.61	1.99	1.96	4.89	15.97	5.31	4.57	4.52	3.18	5.21
	F (Prob)	0.43	0.00	0.04	0.70	0.57	0.00	0.68	0.00	0.01	0.27	0.14	0.92	0.17	0.00	0.00	0.60

Table No. 17 (Continued)

		STAND AT HARVEST ('000/ha)												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	53.9	63.9	61.8	62.8	53.1	59.1	64.2	72.2	59.7	62.5	55.6	62.8	62.5
2	LQPMH 215	55.0	61.7	73.6	61.0	53.3	60.9	64.2	71.2	62.8	63.9	56.9	63.8	63.5
3	AQH8(EDV)	57.8	57.5	61.8	60.7	53.1	58.2	64.2	69.4	61.7	69.2	65.3	66.0	63.5
4	VEHQ14-1	50.0	58.3	63.5	57.1	53.3	56.5	64.2	69.1	59.4	60.6	79.2	66.5	61.7
5	PMSQ5	42.2	60.0	54.5	57.1	53.3	53.4	63.9	68.1	63.6	59.7	69.4	64.9	61.0
6	LQPMH 415	50.6	56.9	64.6	56.5	53.1	56.3	64.2	68.4	61.1	62.2	68.1	64.8	61.8
7	IIMRQPMH 1504	51.1	54.7	58.0	58.3	53.1	55.0	64.2	69.8	59.2	62.2	46.5	60.4	61.1
8	IIMRQPMH 1502	61.9	55.6	64.9	56.3	53.1	58.3	64.2	67.0	64.2	67.5	57.6	64.1	62.6
9	AQH4 (EDV)	51.1	53.3	59.0	64.0	52.8	56.0	64.2	70.8	63.6	63.6	60.4	64.5	62.2
10	MHQPM-10-15	55.0	43.9	45.8	58.9	52.8	51.3	64.2	70.8	40.0	53.3	75.0	60.7	58.7
11	APQH9(EDV)	52.2	60.0	61.5	64.9	53.1	58.3	64.2	74.3	62.8	65.6	77.1	68.8	63.9
12	IIMRQPMH 1510	51.7	66.4	52.8	56.3	52.8	56.0	64.2	66.0	61.4	65.8	53.5	62.2	62.2
13	AQH9(EDV)	54.7	61.4	70.5	66.1	53.3	61.2	64.2	71.9	60.6	67.5	66.7	66.2	63.1
14	BAUQMH-18	51.7	54.4	57.6	57.7	53.3	55.0	63.9	66.7	55.3	61.1	62.5	61.9	59.9
15	IIMRQPMH 1505	58.6	53.3	66.3	63.7	52.8	58.9	63.9	71.2	60.8	64.7	63.2	64.8	63.2
16	FQH 106	57.5	57.2	65.3	61.6	53.1	58.9	64.2	68.1	55.8	64.2	63.9	63.2	62.5
17	BQPMH 36	55.3	65.6	69.1	58.0	53.3	60.3	64.2	69.1	62.2	65.8	62.5	64.8	63.3
18	EHQ-63	53.3	59.4	72.9	64.0	53.1	60.5	64.2	71.5	58.1	66.9	54.9	63.1	63.0
19	IIMRQPMH 1507	53.9	52.5	62.2	59.2	53.3	56.2	64.2	67.4	57.5	67.5	76.4	66.6	62.1
20	IHQ-091	53.3	53.9	57.3	60.4	53.1	55.6	63.2	63.9	62.2	55.8	68.8	62.8	61.0
21	BQPMH 141 (EDV-DHM117)	51.1	45.3	64.6	58.0	53.1	54.4	64.2	65.6	64.7	67.2	62.5	64.9	62.2
22	IIMRQPMH 1508	49.7	58.6	61.8	56.3	53.3	55.9	64.2	70.8	63.6	63.6	56.9	63.8	62.4
23	LQPMH 315	59.2	60.0	59.0	59.8	53.1	58.2	64.2	64.6	60.0	55.0	43.1	57.4	60.7
24	IIMRQPMH 1503	56.1	57.5	66.3	57.1	53.1	58.0	64.2	68.8	60.3	65.0	56.3	62.9	62.4

Table No. 17 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	49.4	50.8	56.9	59.5	53.1	54.0	63.9	68.8	56.1	62.8	81.9	66.7	62.1
26	LQPMH 115	49.7	58.3	53.8	62.8	53.1	55.5	63.9	64.9	55.8	62.2	70.1	63.4	61.6
27	EHQ-64	54.7	60.8	71.2	67.6	52.8	61.4	64.2	72.6	60.8	62.8	81.9	68.5	64.0
28	IIMRQPMH 1501	52.8	62.5	65.3	61.0	52.5	58.8	64.2	70.5	62.8	64.7	56.3	63.7	62.1
29	IIMRQPMH 1509	49.2	54.2	69.4	60.7	53.3	57.4	63.9	67.4	63.6	60.0	78.5	66.7	62.7
30	HQPM 26	51.7	60.3	76.4	61.9	53.3	60.7	63.9	70.5	64.2	62.8	60.4	64.3	63.5
	CHECKS													
31	HM8-C	49.7	55.0	53.8	56.0	53.1	53.5	64.2	70.8	62.5	66.4	67.4	66.3	62.4
32	HM9-C	57.2	55.6	78.1	62.5	53.3	61.3	64.2	66.7	60.3	64.4	68.1	64.7	62.9
33	HM4-C	41.9	57.2	61.5	61.9	52.8	55.1	64.2	69.8	66.7	65.8	66.7	66.6	62.3
34	DHM117-C	51.4	55.8	70.5	65.2	53.3	59.2	63.2	71.5	59.7	66.9	61.1	64.5	62.9
35	VivekQPM9-C	54.2	63.1	70.8	57.7	53.3	59.8	63.9	67.0	57.8	60.6	48.6	59.6	61.2
36	HQPM1-C	53.6	63.9	61.5	59.5	53.3	58.4	64.2	69.4	63.3	62.8	60.4	64.0	62.5
37	HQPM4-C	50.8	55.0	66.7	62.8	53.3	57.7	64.2	70.1	61.1	58.6	63.2	63.5	61.4
38	HQPM5-C	48.9	51.9	61.5	58.6	53.3	54.9	64.2	64.2	59.4	56.7	55.6	60.0	59.7
39	HQPM7-C	54.7	57.2	62.5	55.1	53.1	56.5	63.2	68.4	58.6	65.0	41.7	59.4	60.2
	Loc. Mean	**52.7**	**57.3**	**63.5**	**60.2**	**53.1**	**57.4**	**64.1**	**69.0**	**60.3**	**63.2**	**63.2**	**63.9**	**62.1**
	C.D. (5%)	5.20	3.15	12.41	4.35	0.57	5.02	0.95	7.08	7.81	3.98	4.69	6.46	2.26
	C.V. (%)	6.06	3.38	12.02	4.44	0.66	7.01	0.92	6.31	7.96	3.88	4.57	8.09	6.29
	F (Prob)	0.00	0.00	0.00	0.00	0.25	0.00	0.82	0.52	0.00	0.00	0.00	0.27	0.00

Table No. 17 (Continued)

		DAYS TO 50% POLLEN SHED															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	58.0	59.3	51.5	52.0	55.2	57.0	54.3	46.7	52.3	52.6	53.7	49.3	52.3	53.3	51.7	52.1
2	LQPMH 215	57.0	59.7	51.0	56.0	55.9	51.7	53.7	45.3	51.0	50.4	52.7	50.0	48.3	50.7	47.7	49.9
3	AQH8(EDV)	59.0	51.7	59.0	55.0	56.2	58.3	55.7	44.7	53.3	53.0	53.7	53.3	54.0	56.7	54.7	54.5
4	VEHQ14-1	59.0	55.7	54.0	56.3	56.3	57.7	57.3	46.0	54.7	53.9	48.0	53.0	55.7	56.0	50.7	52.7
5	PMSQ5	57.3	57.0	51.5	54.3	55.0	57.3	53.3	47.7	52.7	52.8	52.7	50.7	48.3	53.7	49.3	50.9
6	LQPMH 415	52.7	52.3	49.0	56.3	52.6	51.7	53.0	47.7	47.7	50.0	51.3	46.7	50.0	48.0	45.7	48.3
7	IIMRQPMH 1504	56.0	57.0	53.0	54.3	55.1	55.0	55.3	45.3	51.7	51.8	51.7	52.0	57.7	53.7	51.7	53.3
8	IIMRQPMH 1502	54.3	57.0	51.0	55.0	54.3	54.0	54.3	46.0	50.7	51.3	48.3	50.7	53.3	53.0	52.0	51.5
9	AQH4 (EDV)	56.3	57.3	50.5	57.0	55.3	56.3	53.7	47.7	51.3	52.3	51.7	50.7	53.7	52.3	51.7	52.0
10	MHQPM-10-15	59.0	41.0	51.5	57.3	52.2	57.0	56.3	45.3	60.0	54.7	53.3	50.0	57.3	56.0	49.7	53.3
11	APQH9(EDV)	49.7	58.3	48.5	57.3	53.5	53.3	53.0	45.0	51.3	50.7	52.3	50.0	54.0	52.3	47.7	51.3
12	IIMRQPMH 1510	59.0	56.7	57.0	58.0	57.7	56.7	55.3	46.0	55.7	53.4	51.3	55.0	54.7	54.3	54.7	54.0
13	AQH9(EDV)	58.7	59.7	52.0	57.7	57.0	55.7	57.0	45.0	54.0	52.9	53.7	50.0	53.0	53.3	52.3	52.5
14	BAUQMH-18	57.0	55.3	54.0	54.0	55.1	54.3	54.0	46.0	51.0	51.3	53.0	50.7	54.0	53.7	48.3	51.9
15	IIMRQPMH 1505	59.3	55.3	55.0	53.7	55.8	54.0	57.3	48.3	51.3	52.8	51.7	51.0	53.0	53.3	50.0	51.8
16	FQH 106	51.0	52.7	48.5	54.0	51.5	51.7	52.0	49.0	47.0	49.9	51.3	44.7	48.7	47.7	45.0	47.5
17	BQPMH 36	55.0	55.0	54.0	56.0	55.0	57.0	55.7	44.7	53.3	52.7	53.7	49.3	51.0	55.7	50.0	51.9
18	EHQ-63	50.7	54.3	53.5	57.7	54.0	58.0	54.7	45.7	54.7	53.3	52.3	44.0	51.7	47.3	47.7	48.6
19	IIMRQPMH 1507	55.3	55.3	51.0	54.5	54.0	55.0	54.0	48.3	50.3	51.9	49.3	50.0	49.3	54.0	49.7	50.5
20	IHQ-091	51.3	57.3	50.0	53.3	53.0	51.0	56.7	46.7	49.0	50.8	48.7	44.0	48.7	46.3	45.7	46.7
21	BQPMH 141 (EDV-DHM117)	55.7	56.7	53.0	56.7	55.5	54.7	56.3	49.3	53.0	53.3	54.0	50.0	53.0	54.0	52.7	52.7
22	IIMRQPMH 1508	53.7	54.3	50.5	54.3	53.2	51.3	53.3	46.3	50.7	50.4	50.0	46.0	50.0	53.7	48.3	49.6
23	LQPMH 315	54.3	55.7	53.5	54.3	54.5	52.7	56.0	47.7	49.3	51.4	51.3	47.0	53.0	49.7	47.7	49.7
24	IIMRQPMH 1503	56.7	57.3	56.0	52.0	55.5	57.0	55.0	46.0	53.0	52.8	51.3	52.0	52.3	54.0	51.7	52.3

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	56.3	56.0	58.5	55.0	56.5	57.0	58.0	45.7	57.3	54.5	50.7	55.3	54.3	57.7	53.3	54.3
26	LQPMH 115	53.3	55.7	50.5	56.0	53.9	52.3	55.0	45.0	48.0	50.1	50.0	45.3	49.7	48.3	46.3	47.9
27	EHQ-64	56.7	57.3	50.5	55.7	55.0	56.3	54.0	47.3	51.3	52.3	53.3	51.0	52.3	52.7	56.7	53.2
28	IIMRQPMH 1501	57.0	56.3	55.5	54.7	55.9	56.0	51.7	52.3	51.7	52.9	53.7	51.7	52.3	53.7	52.3	52.7
29	IIMRQPMH 1509	58.0	57.7	54.5	55.0	56.3	55.3	57.0	46.3	51.7	52.6	50.3	52.0	52.3	55.7	50.3	52.1
30	HQPM 26	56.7	57.3	54.5	58.3	56.7	56.0	58.7	48.3	53.3	54.1	48.7	49.7	54.0	54.7	48.3	51.1
	CHECKS																
31	HM8-C	57.0	58.3	56.0	56.7	57.0	58.0	56.0	51.7	54.3	55.0	51.0	51.0	54.7	53.7	50.3	52.1
32	HM9-C	58.3	55.0	57.5	55.3	56.5	58.3	55.3	50.3	52.3	54.1	49.7	50.0	50.7	52.7	50.7	50.7
33	HM4-C	56.0	59.0	53.5	55.0	55.9	56.3	55.0	48.3	52.0	52.9	51.0	50.0	50.7	52.0	49.7	50.7
34	DHM117-C	59.7	59.7	54.5	56.0	57.5	58.0	58.0	51.3	53.3	55.2	52.3	52.3	55.7	55.7	54.7	54.1
35	VivekQPM9-C	50.0	58.7	48.5	54.3	52.9	50.7	52.7	49.7	50.7	50.9	49.3	43.3	47.3	47.7	42.7	46.1
36	HQPM1-C	59.0	57.7	54.5	56.0	56.8	57.0	57.0	52.0	54.0	55.0	52.3	52.0	55.0	56.3	50.7	53.3
37	HQPM4-C	60.0	63.7	54.5	53.7	58.0	57.7	58.0	44.7	56.0	54.1	52.7	53.7	57.0	56.3	52.3	54.4
38	HQPM5-C	58.7	59.7	55.5	53.3	56.8	57.3	60.7	46.0	56.3	55.1	52.7	56.0	53.0	56.3	53.7	54.3
39	HQPM7-C	58.7	59.3	54.0	52.0	56.0	56.3	54.7	47.7	53.0	52.9	49.3	52.7	53.7	55.7	52.7	52.8
	Loc. Mean	**56.2**	**56.5**	**53.1**	**55.2**	**55.3**	**55.4**	**55.4**	**47.3**	**52.4**	**52.6**	**51.5**	**50.2**	**52.6**	**53.1**	**50.3**	**51.5**
	C.D. (5%)	1.33	8.37	1.41	4.67	3.63	2.57	0.73	1.15	1.79	2.73	4.45	1.72	2.11	1.88	1.89	2.23
	C.V. (%)	1.45	9.11	1.31	5.20	4.69	2.85	0.81	1.49	2.10	3.70	5.31	2.11	2.47	2.18	2.31	3.47
	F (Prob)	0.00	0.14	0.00	0.52	0.06	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

		DAYS TO 50% POLLEN SHED												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	55.3	50.3	60.0	48.7	50.0	52.9	54.0	52.7	56.7	53.0	50.3	53.3	53.2
2	LQPMH 215	54.0	50.0	63.0	48.0	48.7	52.7	48.0	51.3	54.7	51.0	50.3	51.1	51.9
3	AQH8(EDV)	58.0	52.3	63.0	51.0	50.0	54.9	55.0	53.7	57.0	56.0	51.0	54.5	54.6
4	VEHQ14-1	59.0	52.7	61.0	50.0	51.3	54.8	55.3	52.7	57.7	56.3	54.0	55.2	54.5
5	PMSQ5	57.0	52.7	59.3	47.7	47.0	52.7	50.3	51.0	57.0	53.0	52.0	52.7	52.7
6	LQPMH 415	52.0	49.0	59.3	43.0	44.0	49.5	49.0	50.7	52.3	48.7	54.0	50.9	50.2
7	IIMRQPMH 1504	58.0	49.0	60.0	48.3	49.0	52.9	53.3	51.3	53.7	54.3	53.0	53.1	53.2
8	IIMRQPMH 1502	54.7	50.0	60.3	49.0	49.0	52.6	49.0	51.7	54.7	52.3	54.0	52.3	52.4
9	AQH4 (EDV)	54.0	49.3	63.0	47.3	46.7	52.1	54.0	51.0	56.7	53.0	50.0	52.9	52.8
10	MHQPM-10-15	59.0	52.7	58.0	50.7	55.7	55.2	54.7	52.3	57.0	56.0	51.0	54.2	53.9
11	APQH9(EDV)	48.3	44.0	60.7	43.7	44.7	48.3	53.3	51.0	57.0	53.0	52.3	53.3	51.3
12	IIMRQPMH 1510	58.7	52.7	60.3	51.0	54.7	55.5	55.0	55.0	57.7	57.0	51.0	55.1	55.1
13	AQH9(EDV)	55.7	51.0	59.0	48.3	49.0	52.6	54.0	52.3	54.7	53.0	54.0	53.6	53.6
14	BAUQMH-18	55.7	51.0	62.7	49.0	52.3	54.1	49.0	51.7	57.3	54.3	51.0	52.7	53.0
15	IIMRQPMH 1505	54.7	51.0	61.7	48.0	49.0	52.9	55.0	52.0	53.7	53.0	52.7	53.3	53.2
16	FQH 106	51.3	46.3	61.3	43.7	44.0	49.3	49.7	48.7	49.3	47.7	55.0	50.1	49.6
17	BQPMH 36	56.0	51.7	60.7	47.7	48.3	52.9	53.3	50.7	57.0	56.0	54.0	54.2	53.3
18	EHQ-63	58.7	53.3	63.0	50.3	52.0	55.5	55.3	50.3	57.3	57.3	54.0	54.9	53.2
19	IIMRQPMH 1507	54.0	47.3	61.3	47.7	48.7	51.8	53.0	52.3	57.0	56.0	51.0	53.9	52.4
20	IHQ-091	48.7	46.0	60.7	41.3	40.0	47.3	50.7	53.0	48.0	45.7	50.7	49.6	49.3
21	BQPMH 141 (EDV-DHM117)	58.7	53.3	58.3	51.0	51.3	54.5	54.3	52.0	56.3	52.3	54.0	53.8	53.9
22	IIMRQPMH 1508	53.0	50.0	60.0	46.7	47.0	51.3	49.3	51.0	54.3	50.3	53.7	51.7	51.2
23	LQPMH 315	53.0	49.3	60.3	47.0	46.3	51.2	55.3	52.0	57.0	49.7	50.0	52.8	51.8
24	IIMRQPMH 1503	57.7	52.3	63.0	50.0	48.7	54.3	51.3	51.3	56.0	55.0	55.0	53.7	53.7

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED												
		HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	58.3	53.0	61.3	53.3	51.7	55.5	56.3	52.0	57.0	57.3	50.0	54.5	55.0
26	LQPMH 115	52.3	47.7	59.3	44.0	40.7	48.8	50.0	52.0	49.3	47.3	50.0	49.7	49.9
27	EHQ-64	53.0	49.7	59.0	47.0	47.0	51.1	49.0	49.7	54.0	52.0	52.0	51.3	52.5
28	IIMRQPMH 1501	54.3	52.0	59.0	50.0	49.7	53.0	53.3	50.3	57.3	53.0	52.0	53.2	53.5
29	IIMRQPMH 1509	54.7	52.3	60.3	49.3	49.3	53.2	52.3	53.0	56.0	54.0	50.7	53.2	53.4
30	HQPM 26	56.0	51.3	62.3	49.0	50.7	53.9	54.7	54.7	56.3	55.0	52.0	54.5	53.9
	CHECKS													
31	HM8-C	56.0	51.3	59.7	48.7	48.0	52.7	53.3	50.0	57.3	55.0	51.3	53.4	53.9
32	HM9-C	57.3	52.7	59.7	49.0	51.3	54.0	55.3	52.3	56.7	56.0	54.0	54.9	53.9
33	HM4-C	54.3	50.7	61.7	46.3	49.7	52.5	55.0	51.0	57.3	51.3	54.0	53.7	53.0
34	DHM117-C	59.0	56.0	62.3	51.3	53.3	56.4	53.7	51.3	56.3	55.3	51.0	53.5	55.3
35	VivekQPM9-C	49.0	44.0	61.7	41.3	42.0	47.6	49.0	49.0	48.7	46.7	52.3	49.1	49.1
36	HQPM1-C	58.0	52.3	61.0	50.7	57.3	55.9	54.3	52.7	56.7	55.7	50.3	53.9	54.9
37	HQPM4-C	57.7	53.7	60.7	51.7	52.0	55.1	55.3	51.3	58.0	56.0	54.7	55.1	55.3
38	HQPM5-C	60.3	53.3	62.7	51.3	53.0	56.1	55.3	52.3	57.0	58.0	50.0	54.5	55.3
39	HQPM7-C	58.7	53.0	61.0	51.0	50.7	54.9	53.0	53.3	57.7	55.0	55.0	54.8	54.3
	Loc. Mean	**55.5**	**50.8**	**60.8**	**48.3**	**49.1**	**52.9**	**52.9**	**51.7**	**55.5**	**53.4**	**52.2**	**53.1**	**53.0**
	C.D. (5%)	2.21	1.53	3.53	1.70	1.04	2.19	0.78	2.65	1.83	1.23	0.78	2.37	1.17
	C.V. (%)	2.44	1.86	3.57	2.17	1.30	3.32	0.90	3.16	2.03	1.42	0.91	3.58	3.81
	F (Prob)	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

		DAYS TO 50% SILKING															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	58.3	61.7	55.0	54.0	57.3	58.7	56.3	50.0	54.7	54.9	57.3	53.3	55.3	58.0	53.7	55.5
2	LQPMH 215	58.0	62.0	54.0	57.3	57.8	53.3	56.0	49.0	53.3	52.9	56.3	54.3	51.3	55.0	49.7	53.3
3	AQH8(EDV)	60.3	52.7	62.5	56.7	58.0	59.3	58.0	47.7	57.0	55.5	57.3	58.0	57.0	61.3	56.7	58.1
4	VEHQ14-1	61.7	58.3	57.5	58.3	59.0	59.0	59.3	49.3	57.7	56.3	51.3	57.0	58.7	62.0	52.7	56.3
5	PMSQ5	58.7	59.7	54.5	56.3	57.3	59.3	56.0	50.7	55.3	55.3	56.3	54.7	51.3	58.3	51.3	54.4
6	LQPMH 415	54.0	55.0	52.5	58.7	55.0	52.3	55.0	51.3	50.7	52.3	54.3	51.3	52.7	53.0	47.7	51.8
7	IIMRQPMH 1504	57.7	59.7	56.5	56.0	57.5	57.0	57.3	48.3	53.3	54.0	54.7	55.3	60.7	58.7	53.7	56.6
8	IIMRQPMH 1502	56.0	60.0	54.0	57.3	56.8	53.7	56.3	49.3	53.0	53.1	51.7	54.0	56.7	56.7	54.0	54.6
9	AQH4 (EDV)	58.0	59.7	53.5	58.7	57.5	56.3	55.7	50.3	54.0	54.1	54.7	54.3	54.0	57.3	53.7	54.8
10	MHQPM-10-15	60.3	59.7	56.5	59.0	58.9	59.0	58.3	48.7	63.0	57.3	56.7	54.0	60.3	63.3	51.7	57.2
11	APQH9(EDV)	50.7	60.3	52.5	59.0	55.6	52.7	55.0	47.7	53.7	52.3	56.0	53.7	57.0	56.3	49.7	54.5
12	IIMRQPMH 1510	60.7	59.7	60.5	59.7	60.1	58.3	57.3	50.0	59.0	56.2	54.7	59.7	57.7	60.7	56.7	57.9
13	AQH9(EDV)	59.7	62.0	56.0	59.7	59.3	57.3	59.0	47.7	57.0	55.3	56.7	53.3	56.0	57.7	53.7	55.5
14	BAUQMH-18	58.3	57.7	57.0	56.0	57.3	55.0	55.3	49.3	53.7	53.3	53.0	54.7	57.0	58.7	50.3	54.7
15	IIMRQPMH 1505	61.3	57.3	58.0	55.3	58.0	54.3	59.3	51.3	54.0	54.8	54.7	55.3	56.0	57.3	52.0	55.1
16	FQH 106	52.7	55.0	52.5	56.7	54.2	50.0	54.3	52.0	50.0	51.6	55.0	48.7	51.7	51.0	46.3	50.5
17	BQPMH 36	57.3	57.0	57.5	57.7	57.4	58.7	57.7	48.0	56.3	55.2	57.0	53.7	54.0	61.0	52.0	55.5
18	EHQ-63	52.3	58.7	57.5	59.7	57.0	60.0	56.7	49.7	57.7	56.0	55.3	48.3	54.7	51.3	49.7	51.9
19	IIMRQPMH 1507	57.3	57.3	54.5	57.0	56.5	57.3	56.0	52.0	53.0	54.6	53.3	53.7	52.3	69.0	51.7	56.0
20	IHQ-091	53.3	60.0	53.0	55.3	55.4	51.7	58.7	50.3	51.7	53.1	53.3	48.3	51.7	51.3	47.7	50.5
21	BQPMH 141 (EDV-DHM117)	57.0	58.7	56.5	58.7	57.7	56.7	58.3	52.7	55.7	55.8	56.0	54.0	56.0	59.0	54.7	55.9
22	IIMRQPMH 1508	55.3	56.3	53.5	56.3	55.4	52.0	55.7	51.3	53.0	53.0	53.0	50.3	53.0	58.0	50.3	52.9
23	LQPMH 315	55.7	57.7	57.5	55.7	56.6	52.0	58.0	52.7	52.3	53.8	54.3	52.0	56.0	55.0	49.7	53.4
24	IIMRQPMH 1503	57.7	59.3	59.0	53.7	57.4	59.3	57.0	49.7	56.0	55.5	55.3	56.3	56.3	59.3	53.7	56.2

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	58.3	58.3	62.5	56.3	58.9	59.0	60.7	48.7	60.3	57.2	54.3	60.0	57.3	62.0	55.3	57.8
26	LQPMH 115	54.7	57.7	53.5	57.7	55.9	51.7	57.0	48.3	51.0	52.0	52.3	50.0	52.7	53.0	48.3	51.3
27	EHQ-64	57.3	59.3	53.5	57.7	57.0	58.3	56.7	51.7	54.0	55.2	56.0	54.7	55.3	57.7	58.7	56.5
28	IIMRQPMH 1501	58.0	59.0	58.5	56.3	58.0	56.3	53.7	55.7	54.0	54.9	57.3	55.3	55.3	58.3	54.3	56.1
29	IIMRQPMH 1509	59.3	60.0	58.5	57.0	58.7	57.0	60.3	50.7	54.0	55.5	53.3	55.7	55.3	59.7	52.3	55.3
30	HQPM 26	58.3	59.3	57.5	60.7	59.0	57.7	61.3	53.0	56.3	57.1	55.7	54.3	57.0	60.3	50.3	55.5
	CHECKS																
31	HM8-C	58.3	60.3	59.5	59.0	59.3	59.7	58.0	55.3	57.3	57.6	48.0	55.3	57.7	69.7	52.3	56.6
32	HM9-C	58.7	57.0	61.0	56.7	58.3	60.0	57.3	54.0	55.0	56.6	53.7	53.7	53.7	58.7	52.7	54.5
33	HM4-C	57.7	61.3	56.5	57.0	58.1	58.3	57.0	54.0	54.7	56.0	54.7	54.0	54.0	56.3	51.7	54.1
34	DHM117-C	61.3	61.7	58.0	57.3	59.6	59.7	60.7	54.7	57.0	58.0	55.3	56.0	58.7	60.7	56.3	57.4
35	VivekQPM9-C	51.3	61.0	52.5	56.0	55.2	49.3	55.0	53.3	53.7	52.8	52.7	48.0	50.3	52.0	45.0	49.6
36	HQPM1-C	60.7	59.7	57.5	58.0	59.0	58.7	59.0	55.7	57.0	57.6	49.3	55.3	58.3	63.0	52.7	55.7
37	HQPM4-C	61.7	65.7	57.5	55.3	60.0	59.3	60.0	47.7	59.0	56.5	56.7	57.7	60.0	62.3	54.3	58.2
38	HQPM5-C	60.3	62.3	58.5	55.7	59.2	59.3	62.7	49.3	59.3	57.7	56.3	59.7	56.0	62.0	55.7	57.9
39	HQPM7-C	60.0	61.7	58.0	54.7	58.6	58.3	56.7	50.7	56.0	55.4	53.7	56.0	56.7	70.3	54.7	58.3
	Loc. Mean	**57.6**	**59.2**	**56.5**	**57.1**	**57.6**	**56.6**	**57.5**	**50.8**	**55.2**	**55.0**	**54.6**	**54.2**	**55.5**	**58.9**	**52.2**	**55.1**
	C.D. (5%)	1.33	3.42	1.27	4.50	3.17	2.65	0.94	1.11	1.85	3.10	6.31	1.88	2.20	7.87	1.88	3.07
	C.V. (%)	1.42	3.56	1.11	4.84	3.93	2.88	1.00	1.35	2.06	4.03	7.11	2.13	2.43	8.22	2.21	4.46
	F (Prob)	0.00	0.00	0.00	0.42	0.02	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

		DAYS TO 50% SILKING												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	57.7	52.3	60.7	50.7	52.0	54.7	55.3	55.7	57.7	56.0	51.7	55.3	55.5
2	LQPMH 215	55.7	51.3	63.0	50.0	51.3	54.3	49.3	54.3	55.7	54.7	52.0	53.2	54.2
3	AQH8(EDV)	60.0	54.3	63.3	52.7	52.3	56.5	56.3	56.7	58.0	60.0	53.0	56.8	57.0
4	VEHQ14-1	60.3	54.7	61.7	51.7	54.3	56.5	57.3	55.0	58.7	59.7	56.0	57.3	57.1
5	PMSQ5	59.0	54.7	61.7	49.7	49.0	54.8	51.7	54.0	58.0	56.3	53.0	54.6	55.2
6	LQPMH 415	53.7	51.0	61.0	45.0	47.3	51.6	50.3	53.7	53.0	52.3	55.0	52.9	52.6
7	IIMRQPMH 1504	60.3	51.0	62.0	51.0	51.0	55.1	54.3	54.3	54.7	57.7	54.3	55.1	55.6
8	IIMRQPMH 1502	56.3	51.0	60.7	50.3	52.3	54.1	50.3	54.7	55.7	55.7	55.3	54.3	54.6
9	AQH4 (EDV)	56.3	51.0	63.0	49.0	49.0	53.7	55.3	54.0	57.7	56.3	51.0	54.9	54.9
10	MHQPM-10-15	61.0	54.7	61.3	54.3	58.7	58.0	56.0	55.0	58.0	60.0	53.0	56.4	57.5
11	APQH9(EDV)	50.3	45.0	62.0	44.7	47.0	49.8	54.3	54.0	58.0	56.3	54.0	55.3	53.5
12	IIMRQPMH 1510	61.0	55.0	60.3	53.3	58.0	57.5	56.0	58.0	58.7	60.3	53.0	57.2	57.7
13	AQH9(EDV)	58.0	53.3	61.0	52.3	51.3	55.2	55.3	54.7	55.7	56.7	56.0	55.7	56.1
14	BAUQMH-18	57.3	53.0	63.0	50.3	55.3	55.8	50.3	54.7	58.3	58.3	53.0	54.9	55.2
15	IIMRQPMH 1505	56.3	52.7	62.3	49.7	51.0	54.4	56.3	55.0	54.7	56.3	54.7	55.4	55.4
16	FQH 106	53.0	47.7	61.7	45.0	48.0	51.1	51.3	51.7	50.3	51.3	56.0	52.1	51.8
17	BQPMH 36	59.0	53.3	61.7	49.0	51.7	54.9	54.3	53.0	58.0	60.0	55.7	56.2	55.8
18	EHQ-63	60.3	55.3	63.3	52.0	55.3	57.3	57.3	53.0	58.7	61.0	55.0	57.0	55.8
19	IIMRQPMH 1507	56.3	49.0	62.7	49.3	51.3	53.7	54.3	55.3	58.0	60.0	53.0	56.1	55.4
20	IHQ-091	52.7	47.7	61.7	42.7	42.0	49.3	52.3	56.0	49.0	49.3	52.3	51.8	51.8
21	BQPMH 141 (EDV-DHM117)	60.3	55.7	59.0	54.0	53.3	56.5	55.3	55.0	57.3	56.0	55.0	55.7	56.3
22	IIMRQPMH 1508	55.3	51.3	61.7	48.0	49.3	53.1	50.3	53.7	55.0	53.0	56.0	53.6	53.6
23	LQPMH 315	55.3	51.3	61.3	48.0	48.7	52.9	57.3	55.0	58.0	52.7	51.0	54.8	54.2
24	IIMRQPMH 1503	59.7	54.0	63.0	51.0	50.7	55.7	52.3	55.0	57.0	58.3	56.0	55.7	56.1

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 50% SILKING												
		HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	61.0	55.7	62.7	55.0	55.7	58.0	58.0	55.0	58.0	61.0	51.7	56.7	57.7
26	LQPMH 115	55.0	49.3	61.7	46.0	42.7	50.9	51.3	54.3	50.3	51.0	51.3	51.7	52.2
27	EHQ-64	55.0	51.7	59.0	48.3	49.0	52.6	50.3	52.7	55.0	55.3	53.3	53.3	54.8
28	IIMRQPMH 1501	56.7	53.3	60.0	51.0	52.3	54.7	54.3	53.0	58.0	56.3	53.3	55.0	55.7
29	IIMRQPMH 1509	57.0	54.7	61.3	50.3	51.3	54.9	54.0	56.0	57.0	57.3	52.3	55.3	55.8
30	HQPM 26	59.3	53.3	63.3	50.7	53.3	56.0	56.0	57.7	57.3	58.7	53.3	56.6	56.7
	CHECKS													
31	HM8-C	58.7	53.3	60.3	50.7	50.0	54.6	54.3	53.0	58.3	58.3	53.0	55.4	56.5
32	HM9-C	59.0	55.0	60.3	51.0	54.7	56.0	57.3	55.3	57.7	61.7	55.0	57.4	56.5
33	HM4-C	57.0	52.3	61.7	47.3	52.3	54.1	56.3	54.0	58.3	54.7	55.3	55.7	55.5
34	DHM117-C	61.7	58.3	63.0	55.3	56.3	58.9	55.7	54.3	57.3	59.0	53.0	55.9	57.9
35	VivekQPM9-C	50.3	45.3	63.3	42.3	44.0	49.1	50.3	52.0	49.7	50.7	54.0	51.3	51.4
36	HQPM1-C	60.0	54.3	61.7	53.0	59.7	57.7	55.3	55.7	57.7	59.3	52.0	56.0	57.1
37	HQPM4-C	59.7	56.0	61.7	53.0	55.0	57.1	57.3	54.3	59.0	59.3	56.0	57.2	57.8
38	HQPM5-C	62.0	55.3	63.3	53.3	56.0	58.0	56.3	55.3	58.0	61.3	51.0	56.4	57.8
39	HQPM7-C	61.0	55.3	62.3	52.3	53.7	56.9	54.3	56.3	58.7	58.7	56.0	56.8	57.2
	Loc. Mean	**57.7**	**52.7**	**61.8**	**50.1**	**51.7**	**54.8**	**54.2**	**54.6**	**56.5**	**56.9**	**53.7**	**55.2**	**55.5**
	C.D. (5%)	2.12	1.92	3.09	2.48	0.95	2.34	0.40	2.79	1.82	1.87	0.85	2.42	1.24
	C.V. (%)	2.26	2.24	3.08	3.05	1.13	3.42	0.45	3.14	1.98	2.01	0.97	3.51	3.86
	F (Prob)	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK														
						NHZ				NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	106.7	104.3	92.0	98.7	100.4	90.0	89.0	85.7	88.2	82.7	90.3	96.0	91.3	82.7	88.6
2	LQPMH 215	98.7	104.0	91.0	101.3	98.7	88.7	87.0	86.7	87.4	81.3	86.3	86.3	84.0	79.7	83.5
3	AQH8(EDV)	103.7	102.0	99.5	100.3	101.4	94.3	89.0	87.7	90.3	85.3	93.0	94.0	93.0	79.7	89.0
4	VEHQ14-1	105.0	94.3	94.5	102.7	99.1	92.3	86.0	86.0	88.1	81.7	92.7	97.0	95.0	86.7	90.6
5	PMSQ5	99.7	99.0	91.5	101.0	97.8	92.0	85.0	86.3	87.8	86.0	90.3	88.0	91.3	81.7	87.5
6	LQPMH 415	91.3	99.0	89.5	101.7	95.4	89.3	85.0	84.3	86.2	82.3	88.0	87.7	84.3	81.7	84.8
7	IIMRQPMH 1504	96.7	104.7	93.5	100.0	98.7	90.0	85.0	86.0	87.0	82.3	92.0	90.7	85.0	75.7	85.1
8	IIMRQPMH 1502	96.3	105.3	91.0	102.3	98.7	89.3	83.7	88.3	87.1	82.3	88.3	94.0	85.3	83.7	86.7
9	AQH4 (EDV)	98.0	103.0	90.5	101.7	98.3	88.0	86.7	86.0	86.9	82.0	89.7	96.0	88.0	85.7	88.3
10	MHQPM-10-15	105.7	104.3	93.5	103.0	101.6	90.0	88.0	87.7	88.6	81.7	90.0	96.7	95.3	80.7	88.9
11	APQH9(EDV)	93.7	104.0	89.5	102.0	97.3	88.7	87.7	88.7	88.3	83.3	89.0	93.0	88.3	83.7	87.5
12	IIMRQPMH 1510	107.7	100.0	97.5	102.7	102.0	93.3	88.7	85.0	89.0	83.3	93.3	95.3	93.3	82.7	89.6
13	AQH9(EDV)	104.3	102.7	93.0	102.7	100.7	91.3	87.7	86.3	88.4	85.0	86.3	94.0	88.3	79.7	86.7
14	BAUQMH-18	102.7	101.7	94.0	100.0	99.6	92.7	88.0	88.0	89.6	83.0	91.0	94.0	94.0	80.3	88.5
15	IIMRQPMH 1505	108.7	100.3	95.0	100.3	101.1	93.3	88.7	86.3	89.4	84.7	93.3	93.7	88.0	78.7	87.7
16	FQH 106	93.7	97.0	89.5	101.7	95.5	87.0	85.0	96.7	89.6	81.7	86.7	87.0	82.0	81.3	83.7
17	BQPMH 36	94.7	101.7	94.5	101.7	98.1	92.0	87.3	95.7	91.7	83.3	89.0	91.3	91.3	81.3	87.3
18	EHQ-63	92.3	103.0	94.5	101.7	97.9	93.3	88.7	98.0	93.3	83.7	86.7	88.0	80.3	79.7	83.7
19	IIMRQPMH 1507	96.3	97.7	91.5	102.0	96.9	88.0	85.3	99.0	90.8	82.7	88.7	90.0	86.0	83.7	86.2
20	IHQ-091	87.7	101.7	90.0	99.0	94.6	87.0	86.0	98.7	90.6	82.7	84.3	85.7	79.3	76.7	81.7
21	BQPMH 141 (EDV-DHM117)	103.3	104.7	93.5	102.7	101.0	93.0	88.0	99.0	93.3	85.7	89.3	94.3	91.3	83.7	88.9
22	IIMRQPMH 1508	99.7	102.7	90.5	100.3	98.3	90.0	88.7	100.0	92.9	82.3	87.7	87.3	91.3	78.3	85.4
23	LQPMH 315	94.3	105.3	94.5	99.7	98.5	90.0	87.0	100.3	92.4	82.7	89.0	91.0	85.0	82.3	86.0
24	IIMRQPMH 1503	103.3	101.7	96.0	98.7	99.9	91.0	84.7	98.7	91.4	82.7	92.0	93.0	91.3	83.7	88.5

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK														
						NHZ				NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	106.0	103.3	99.5	101.3	102.5	91.7	87.3	95.7	91.6	84.3	93.3	92.3	93.0	81.3	88.9
26	LQPMH 115	94.3	99.3	90.5	101.3	96.4	87.3	87.0	91.7	88.7	80.7	86.7	83.7	81.0	76.7	81.7
27	EHQ-64	105.7	105.0	90.5	101.3	100.6	91.7	86.0	100.7	92.8	84.0	89.0	96.0	91.0	87.7	89.5
28	IIMRQPMH 1501	105.7	100.3	95.5	100.0	100.4	88.7	86.0	99.0	91.2	85.0	89.0	94.0	88.0	86.7	88.5
29	IIMRQPMH 1509	107.3	105.0	95.5	100.0	102.0	90.7	87.7	98.0	92.1	82.0	92.3	91.3	89.0	81.7	87.3
30	HQPM 26	98.0	101.0	94.5	103.0	99.1	92.0	89.0	98.3	93.1	80.7	93.3	94.3	91.3	79.7	87.9
	CHECKS															
31	HM8-C	105.7	101.7	96.5	103.0	101.7	92.3	87.7	97.7	92.6	86.0	90.0	96.0	91.7	80.7	88.9
32	HM9-C	109.0	101.7	98.0	101.3	102.5	94.7	89.3	100.3	94.8	82.3	89.3	94.0	89.7	83.7	87.8
33	HM4-C	99.7	103.0	93.5	101.0	99.3	88.3	85.3	100.7	91.4	84.7	89.7	93.0	88.7	78.7	86.9
34	DHM117-C	107.3	105.7	95.0	101.7	102.4	93.7	86.7	99.3	93.2	84.7	92.7	95.0	92.0	85.7	90.0
35	VivekQPM9-C	94.3	100.7	89.5	100.0	96.1	86.3	83.7	99.3	89.8	81.7	87.3	88.7	79.7	76.3	82.7
36	HQPM1-C	106.7	106.0	94.5	102.0	102.3	95.0	87.7	98.7	93.8	84.3	92.0	97.0	93.7	79.7	89.3
37	HQPM4-C	108.3	106.7	94.5	100.3	102.5	91.7	86.0	87.7	88.4	84.7	94.0	94.0	95.3	83.7	90.3
38	HQPM5-C	105.0	107.0	95.5	99.7	101.8	91.7	88.7	86.0	88.8	82.0	93.3	95.0	95.3	82.7	89.7
39	HQPM7-C	107.0	104.7	95.0	99.7	101.6	95.0	89.3	86.3	90.2	81.7	93.7	97.0	95.3	81.7	89.9
	Loc. Mean	**101.1**	**102.4**	**93.5**	**101.1**	**99.6**	**90.9**	**87.0**	**92.9**	**90.3**	**83.2**	**90.1**	**92.4**	**89.2**	**81.5**	**87.3**
	C.D. (5%)	1.99	3.69	1.27	3.41	4.49	3.93	1.03	1.31	6.38	3.87	2.72	2.03	3.18	1.69	3.01
	C.V. (%)	1.21	2.22	0.67	2.07	3.22	2.66	0.73	0.87	4.35	2.86	1.85	1.35	2.20	1.27	2.76
	F (Prob)	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.00	0.48	0.30	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

		DAYS TO 75% DRY HUSK											
						PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	97.0	82.3	92.7	92.0	91.0	85.7	91.7	89.3	95.0	84.3	89.2	91.4
2	LQPMH 215	96.3	81.3	90.3	92.0	90.0	81.3	91.0	89.3	91.3	83.7	87.3	89.1
3	AQH8(EDV)	100.0	84.3	96.0	92.3	93.2	88.3	94.0	92.3	99.7	84.7	91.8	93.0
4	VEHQ14-1	99.3	84.7	99.7	98.0	95.4	88.0	94.0	97.7	99.3	87.0	93.2	93.4
5	PMSQ5	98.0	84.7	91.7	88.0	90.6	82.3	90.7	95.7	95.0	85.0	89.7	90.6
6	LQPMH 415	94.7	81.0	89.0	88.0	88.2	81.7	90.7	88.0	87.0	85.0	86.5	88.1
7	IIMRQPMH 1504	97.7	81.0	89.7	90.0	89.6	85.3	63.3	90.7	95.0	87.7	84.4	88.7
8	IIMRQPMH 1502	96.0	81.0	92.7	92.0	90.4	81.3	91.0	89.3	89.3	85.3	87.3	89.9
9	AQH4 (EDV)	97.3	81.0	91.0	88.3	89.4	86.3	92.0	89.7	90.3	82.0	88.1	90.2
10	MHQPM-10-15	100.0	84.7	93.3	100.0	94.5	87.0	91.7	90.0	96.3	84.7	89.9	92.6
11	APQH9(EDV)	84.3	73.0	89.3	88.0	83.7	86.7	91.3	90.7	86.0	85.0	87.9	88.8
12	IIMRQPMH 1510	100.0	85.0	96.0	102.0	95.8	87.7	93.7	96.3	96.3	84.0	91.6	93.5
13	AQH9(EDV)	97.3	83.3	91.7	92.0	91.1	85.7	92.0	89.7	88.3	88.0	88.7	90.9
14	BAUQMH-18	97.0	83.0	94.3	98.0	93.1	81.3	90.7	96.7	98.3	84.7	90.3	92.1
15	IIMRQPMH 1505	97.3	82.7	95.0	90.0	91.3	87.7	92.0	96.3	96.0	85.7	91.5	92.1
16	FQH 106	91.7	75.7	88.0	88.0	85.8	81.7	89.3	86.0	89.0	86.0	86.4	87.8
17	BQPMH 36	98.7	83.3	92.0	92.0	91.5	87.7	90.3	89.7	94.0	86.3	89.6	91.3
18	EHQ-63	100.0	85.3	99.7	100.0	96.3	88.7	91.0	91.7	98.0	86.0	91.1	91.9
19	IIMRQPMH 1507	96.7	77.0	92.0	92.0	89.4	84.7	92.3	88.0	96.0	86.0	89.4	90.3
20	IHQ-091	90.0	75.7	88.7	82.0	84.1	86.7	91.3	86.0	81.0	84.7	85.9	86.9
21	BQPMH 141 (EDV-DHM117)	99.3	85.7	96.7	92.0	93.4	89.3	94.7	90.7	91.3	86.0	90.4	93.1
22	IIMRQPMH 1508	93.7	81.3	91.0	90.0	89.0	82.7	91.3	89.0	96.3	87.0	89.3	90.5
23	LQPMH 315	95.3	79.3	91.0	88.0	88.4	89.0	91.7	89.3	89.0	82.0	88.2	90.3
24	IIMRQPMH 1503	100.3	84.0	91.0	90.0	91.3	85.7	90.3	94.0	92.0	87.7	89.9	92.0

Table No. 17 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK											
		HYDE	KARI	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	101.0	85.7	97.7	96.0	95.1	90.3	92.0	97.3	98.0	82.3	92.0	93.8
26	LQPMH 115	94.3	77.3	87.7	82.0	85.3	82.3	92.7	87.3	83.0	82.3	85.5	87.1
27	EHQ-64	92.7	81.7	91.7	88.3	88.6	82.0	91.0	88.0	90.0	84.3	87.1	91.3
28	IIMRQPMH 1501	93.3	83.3	93.7	92.3	90.7	85.7	90.0	90.0	91.3	86.0	88.6	91.6
29	IIMRQPMH 1509	96.3	84.7	92.7	90.7	91.1	88.3	94.0	95.3	90.3	85.0	90.6	92.3
30	HQPM 26	99.0	83.3	95.0	94.7	93.0	86.7	94.0	95.7	94.3	85.0	91.1	92.5
	CHECKS												
31	HM8-C	99.0	83.3	96.0	90.0	92.1	85.7	90.7	90.7	91.0	84.7	88.5	92.4
32	HM9-C	97.7	85.0	96.0	95.0	93.4	88.3	92.0	90.3	66.0	86.0	84.5	91.9
33	HM4-C	96.0	82.3	91.0	92.3	90.4	88.7	92.7	88.7	87.0	86.3	88.7	91.0
34	DHM117-C	99.0	93.3	92.0	100.0	96.1	85.7	91.7	94.7	96.0	85.0	90.6	94.1
35	VivekQPM9-C	85.3	73.3	89.0	84.3	83.0	82.0	91.0	88.7	94.0	85.0	88.1	87.6
36	HQPM1-C	98.3	84.3	99.7	102.0	96.1	86.0	94.0	96.3	96.0	86.0	91.7	94.3
37	HQPM4-C	99.3	86.0	97.7	98.0	95.3	88.7	92.0	95.3	96.3	87.0	91.9	93.7
38	HQPM5-C	99.7	85.3	99.3	100.0	96.1	86.7	91.0	93.7	97.3	82.7	90.3	93.2
39	HQPM7-C	99.7	85.3	87.7	93.7	91.6	86.0	93.7	97.0	100.0	87.0	92.7	93.2
	Loc. Mean	**96.6**	**82.4**	**93.1**	**92.4**	**91.1**	**85.8**	**91.1**	**91.7**	**92.3**	**85.2**	**89.2**	**91.2**
	C.D. (5%)	2.98	1.92	6.07	0.70	3.33	1.10	13.00	1.32	13.58	0.85	4.80	1.98
	C.V. (%)	1.89	1.43	4.01	0.46	2.61	0.79	8.77	0.88	9.04	0.61	4.31	3.58
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.02	0.00	0.02	0.00

Table No. 17 (Continued)

		PLANT HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
S.No.	PEDIGREE	ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	200.0	175.0	191.0	195.3	190.3	170.0	188.3	172.0	238.0	192.1	162.0	195.7	168.3	153.3	216.5	179.2
2	LQPMH 215	185.0	186.7	212.0	210.8	198.6	190.0	165.0	182.3	250.7	197.0	145.0	221.7	160.3	163.3	229.9	184.0
3	AQH8(EDV)	211.7	188.3	185.0	196.9	195.5	183.3	166.7	184.0	237.7	192.9	152.0	199.7	160.3	158.3	234.9	181.1
4	VEHQ14-1	213.3	185.0	207.0	215.1	205.1	190.0	168.3	177.3	244.0	194.9	193.0	211.9	165.3	150.0	232.0	190.4
5	PMSQ5	205.0	180.0	187.0	198.3	192.6	201.7	160.0	168.7	248.7	194.8	175.7	209.7	163.7	168.3	226.5	188.8
6	LQPMH 415	193.3	180.0	176.0	212.9	190.6	148.3	156.7	175.3	196.7	169.3	154.0	178.7	160.3	133.3	181.0	161.5
7	IIMRQPMH 1504	213.3	183.3	223.5	189.7	202.5	200.0	180.0	165.3	238.0	195.8	136.0	215.7	149.3	146.7	211.2	171.8
8	IIMRQPMH 1502	216.7	176.7	207.5	210.1	202.7	171.7	186.7	168.3	255.7	195.6	169.7	220.6	166.3	155.0	227.1	187.7
9	AQH4 (EDV)	210.0	173.3	212.0	199.7	198.8	146.7	156.7	164.7	213.7	170.4	168.0	232.5	159.7	173.3	198.2	186.3
10	MHQPM-10-15	210.0	176.7	207.0	223.3	204.3	141.7	155.0	178.3	233.7	177.2	167.0	183.3	159.0	138.3	184.8	166.5
11	APQH9(EDV)	201.7	180.0	208.5	200.0	197.5	205.0	178.3	175.7	243.0	200.5	183.0	205.0	164.3	168.3	227.7	189.7
12	IIMRQPMH 1510	201.7	181.7	202.0	211.3	199.2	195.0	193.3	163.3	238.7	197.6	200.7	236.9	173.0	163.3	236.4	202.1
13	AQH9(EDV)	211.7	183.3	238.0	200.4	208.4	220.0	160.0	174.0	278.7	208.2	171.0	200.9	171.0	138.3	213.8	179.0
14	BAUQMH-18	178.3	170.0	171.0	185.6	176.2	163.3	153.3	169.0	228.7	178.6	142.0	195.3	163.7	123.3	208.7	166.6
15	IIMRQPMH 1505	195.0	173.3	194.0	215.1	194.4	191.7	148.3	172.0	256.3	192.1	182.7	206.2	159.7	151.7	232.4	186.5
16	FQH 106	188.3	176.7	197.5	195.7	189.5	151.7	155.0	165.7	186.0	164.6	169.0	178.3	167.3	130.0	197.7	168.5
17	BQPMH 36	190.0	170.0	212.5	210.3	195.7	206.7	203.3	179.0	282.7	217.9	174.0	243.7	157.0	181.7	228.3	196.9
18	EHQ-63	205.0	171.7	213.0	200.8	197.6	176.7	158.3	170.3	245.7	187.8	198.0	192.9	183.7	141.7	214.5	186.1
19	IIMRQPMH 1507	190.0	168.3	214.5	211.5	196.1	148.3	176.7	171.7	234.0	182.7	139.0	193.6	162.3	131.7	211.7	167.7
20	IHQ-091	186.7	175.0	173.0	198.5	183.3	190.0	128.3	179.0	247.3	186.2	158.3	180.7	160.7	145.0	231.1	175.2
21	BQPMH 141 (EDV-DHM117)	225.0	183.3	231.0	224.0	215.8	205.0	155.0	178.0	281.0	204.8	136.0	245.7	161.7	183.3	226.3	190.6
22	IIMRQPMH 1508	196.7	180.0	200.5	212.7	197.5	176.7	176.7	165.0	242.3	190.2	158.0	190.1	163.7	141.7	215.1	173.7
23	LQPMH 315	208.3	173.3	187.5	198.1	191.8	168.3	176.7	168.0	233.7	186.7	168.3	191.9	175.0	155.0	216.9	181.4
24	IIMRQPMH 1503	220.0	191.7	228.5	199.5	209.9	200.0	195.0	168.7	256.3	205.0	157.7	230.7	176.3	156.7	226.0	189.5

Table No. 17 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	216.7	186.7	204.0	147.5	188.7	186.7	133.3	171.7	252.7	186.1	171.3	245.0	161.0	158.3	231.8	193.5
26	LQPMH 115	200.0	178.3	217.5	227.9	205.9	165.0	158.3	168.0	238.7	182.5	194.0	211.4	160.7	170.0	228.9	193.0
27	EHQ-64	203.3	170.0	195.5	210.6	194.9	195.0	163.3	177.0	246.0	195.3	159.0	212.1	157.7	170.0	226.0	185.0
28	IIMRQPMH 1501	206.7	176.7	210.0	211.0	201.1	168.3	178.3	173.7	254.0	193.6	166.0	216.3	177.0	158.3	229.4	189.4
29	IIMRQPMH 1509	190.0	195.0	183.0	219.1	196.8	161.7	136.7	182.7	233.7	178.7	155.0	204.3	161.3	135.0	222.2	175.6
30	HQPM 26	231.7	181.7	206.5	202.9	205.7	186.7	146.7	190.7	252.3	194.1	168.7	226.8	162.7	158.3	232.7	189.8
	CHECKS																
31	HM8	201.7	181.7	220.5	202.2	201.5	190.0	153.3	183.7	284.3	202.8	196.3	250.7	158.3	181.7	228.7	203.1
32	HM9	213.3	176.7	215.5	201.7	201.8	175.0	161.7	184.0	225.0	186.4	162.7	188.9	176.0	146.7	214.2	177.7
33	HM4	201.7	173.3	198.0	214.6	196.9	163.3	150.0	175.7	226.0	178.8	151.3	214.3	166.3	173.3	226.0	186.3
34	DHM117	198.3	166.7	204.5	230.1	199.9	185.0	153.3	189.0	253.3	195.2	158.0	201.1	158.7	156.7	228.3	180.6
35	Vivek QPM9	200.0	175.0	197.0	193.8	191.5	163.3	170.0	195.3	222.3	187.8	194.0	188.9	164.3	150.0	197.4	178.9
36	HQPM1	205.0	183.3	182.5	200.9	192.9	170.0	155.0	175.7	237.3	184.5	172.3	210.7	168.7	145.0	223.2	184.0
37	HQPM4	203.3	175.0	216.0	192.8	196.8	203.3	166.7	184.0	285.7	209.9	200.0	248.6	163.3	168.3	226.2	201.3
38	HQPM5	230.0	183.3	200.0	202.7	204.0	195.0	163.3	177.3	244.3	195.0	194.0	249.7	155.7	151.7	233.7	196.9
39	HQPM7	200.0	176.7	207.5	209.8	198.5	201.7	173.3	168.7	259.3	200.8	189.7	219.5	164.7	158.3	226.3	191.7
	Loc. Mean	**204.1**	**178.5**	**203.5**	**204.7**	**197.7**	**180.8**	**164.2**	**175.2**	**244.3**	**191.1**	**169.0**	**211.5**	**164.3**	**154.7**	**220.6**	**184.0**
	C.D. (5%)	13.85	20.01	8.03	42.30	16.37	25.69	6.81	9.16	12.30	20.66	11.04	17.45	7.95	17.05	22.33	16.74
	C.V. (%)	4.17	6.89	1.95	12.71	5.91	8.74	2.55	3.21	3.10	7.72	4.01	5.07	2.97	6.78	6.22	7.28
	F (Prob)	0.00	0.76	0.00	0.68	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 17 (Continued)

		PLANT HEIGHT(cm)												
							PZ						CWZ	OV'L
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IIMRQPMH 1506	222.0	188.0	197.7	214.0	192.6	202.8	203.3	198.3	188.3	239.3	174.3	200.7	193.2
2	LQPMH 215	230.0	198.0	222.3	226.0	185.1	212.3	201.7	202.7	195.0	239.2	162.7	200.2	198.5
3	AQH8(EDV)	207.3	195.0	199.0	212.0	201.6	203.0	200.0	210.0	185.0	237.5	153.7	197.2	193.9
4	VEHQ14-1	227.0	200.0	214.7	215.3	199.6	211.3	206.7	216.7	203.3	256.1	143.7	205.3	201.5
5	PMSQ5	204.3	179.7	214.0	218.7	201.2	203.6	171.7	200.3	175.0	239.7	152.7	187.9	193.5
6	LQPMH 415	199.3	153.3	180.0	166.3	157.9	171.4	200.0	203.3	158.3	205.0	152.0	183.7	174.9
7	IIMRQPMH 1504	209.0	186.3	224.3	219.3	209.4	209.7	190.0	208.3	198.3	223.2	153.7	194.7	194.5
8	IIMRQPMH 1502	219.0	192.0	206.3	200.0	183.3	200.1	223.3	196.7	196.7	246.1	146.0	201.8	197.5
9	AQH4 (EDV)	230.7	194.0	209.7	185.7	191.8	202.4	160.0	196.7	173.3	260.9	175.3	193.3	190.7
10	MHQPM-10-15	184.7	175.0	159.3	190.0	158.8	173.6	190.0	226.7	178.3	217.8	165.0	195.6	182.8
11	APQH9(EDV)	200.7	163.3	193.0	196.0	189.8	188.6	208.3	233.3	178.3	262.2	166.7	209.8	197.1
12	IIMRQPMH 1510	218.0	206.7	204.7	215.3	193.7	207.7	213.3	191.7	181.7	259.3	137.7	196.7	200.8
13	AQH9(EDV)	243.7	210.3	224.7	224.0	208.0	222.1	196.7	226.7	213.3	247.9	151.7	207.2	204.7
14	BAUQMH-18	201.7	173.0	203.0	204.0	178.6	192.1	156.7	191.7	185.0	226.6	149.3	181.9	179.2
15	IIMRQPMH 1505	219.7	196.7	213.0	213.3	189.6	206.4	183.3	208.7	171.7	256.1	142.7	192.5	194.5
16	FQH 106	182.7	149.0	187.7	154.0	158.3	166.3	196.7	216.7	170.0	210.6	157.7	190.3	175.7
17	BQPMH 36	231.3	174.3	217.0	227.7	220.2	214.1	173.3	214.7	195.0	269.8	151.0	200.8	204.9
18	EHQ-63	212.7	188.3	204.3	205.3	188.9	199.9	203.3	210.0	200.0	233.1	148.7	199.0	194.2
19	IIMRQPMH 1507	201.0	170.7	192.3	198.3	178.3	188.1	170.0	216.7	185.0	231.9	132.7	187.2	183.9
20	IHQ-091	190.3	158.3	193.3	191.0	190.8	184.8	186.7	205.0	183.3	214.6	146.7	187.3	183.2
21	BQPMH 141 (EDV-DHM117)	232.0	201.7	224.0	210.7	197.7	213.2	210.0	210.0	218.3	267.3	159.3	213.0	207.2
22	IIMRQPMH 1508	197.0	173.0	188.0	195.7	184.6	187.7	203.3	216.7	183.3	235.3	157.7	199.3	189.3
23	LQPMH 315	210.3	178.3	205.3	207.7	185.9	197.5	185.0	208.3	160.0	236.0	147.7	187.4	188.9
24	IIMRQPMH 1503	223.3	199.7	210.7	205.0	189.9	205.7	196.7	196.7	193.3	270.9	148.3	201.2	201.8

Table No. 17 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	214.3	212.0	217.3	229.0	184.2	211.4	191.7	203.3	206.7	272.0	133.7	201.5	197.0
26	LQPMH 115	200.0	178.7	215.3	205.3	171.9	194.2	193.3	213.3	186.7	233.4	140.0	193.3	193.8
27	EHQ-64	235.3	188.3	214.3	199.0	197.1	206.8	191.7	201.7	198.3	258.3	161.7	202.3	197.0
28	IIMRQPMH 1501	221.7	192.0	191.0	216.0	192.9	202.7	230.0	216.7	173.3	250.1	153.7	204.8	198.4
29	IIMRQPMH 1509	208.3	186.3	199.0	201.7	178.3	194.7	173.3	206.7	178.3	229.4	152.7	188.1	186.7
30	HQPM 26	213.0	192.0	207.7	220.7	206.2	207.9	196.7	203.3	180.0	245.0	163.7	197.7	199.0
	CHECKS													
31	HM8	196.7	163.3	193.0	199.3	172.9	185.0	196.7	210.0	188.3	272.9	161.7	205.9	199.5
32	HM9	210.3	177.3	198.0	206.0	174.6	193.3	210.0	208.3	178.3	235.4	147.0	195.8	190.7
33	HM4	208.7	195.7	200.0	217.3	192.1	202.7	193.3	215.0	176.7	267.3	151.7	200.8	193.5
34	DHM117	236.0	214.0	222.7	215.3	212.0	220.0	170.0	210.0	178.3	255.1	133.3	189.3	196.9
35	Vivek QPM9	195.3	169.7	203.0	204.0	183.7	191.1	170.0	208.3	171.7	216.9	140.3	181.5	185.8
36	HQPM1	220.7	198.3	216.7	207.0	177.4	204.0	166.7	200.0	176.7	256.5	176.0	195.2	192.4
37	HQPM4	248.0	210.0	230.0	236.0	218.9	228.6	196.7	223.3	215.0	270.3	156.0	212.3	210.3
38	HQPM5	218.0	213.7	220.3	227.0	218.5	219.5	193.3	221.7	198.3	270.3	155.3	207.8	205.1
39	HQPM7	228.3	196.0	217.0	211.7	219.5	214.5	196.7	205.0	200.0	274.1	129.3	201.0	201.4
	Loc. Mean	**214.2**	**187.0**	**206.0**	**207.5**	**190.7**	**201.0**	**192.3**	**209.1**	**186.6**	**246.0**	**152.1**	**197.2**	**194.2**
	C.D. (5%)	13.35	9.76	23.20	31.00	6.77	11.00	11.64	23.91	19.93	20.24	34.72	17.10	7.59
	C.V. (%)	3.83	3.21	6.93	9.19	2.18	4.38	3.72	7.03	6.57	5.06	14.04	6.94	6.76
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.70	0.01	0.00

Table No. 17 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
1	IIMRQPMH 1506	98.3	110.0	93.5	89.8	97.9	83.3	83.3	73.0	95.3	83.8	76.3	87.8	70.0	75.0	92.6	80.4
2	LQPMH 215	95.0	115.0	100.5	105.5	104.0	113.3	86.7	73.3	107.7	95.3	56.0	100.5	62.3	90.0	87.1	79.2
3	AQH8(EDV)	111.7	108.3	102.0	86.3	102.1	101.7	111.7	67.7	111.3	98.1	61.0	104.7	68.3	85.0	117.7	87.4
4	VEHQ14-1	101.7	115.0	97.0	109.9	105.9	93.3	76.7	64.3	103.0	84.3	85.0	99.5	68.0	68.3	105.2	85.2
5	PMSQ5	105.0	103.3	89.0	97.1	98.6	103.3	91.7	61.0	117.0	93.2	87.7	107.9	72.7	81.7	100.0	90.0
6	LQPMH 415	96.7	108.3	87.5	108.9	100.4	86.7	81.7	65.3	80.0	78.4	64.3	82.7	65.0	68.3	99.0	75.9
7	IIMRQPMH 1504	103.3	116.7	123.0	85.7	107.2	108.3	95.0	56.3	114.0	93.4	69.0	103.5	63.3	71.7	94.9	80.5
8	IIMRQPMH 1502	111.7	103.3	113.5	105.3	108.4	93.3	110.0	65.3	112.0	95.2	93.0	110.0	71.3	76.7	104.1	91.0
9	AQH4 (EDV)	95.0	98.3	96.5	118.4	102.1	76.7	61.7	68.7	85.0	73.0	88.7	104.9	65.7	76.7	93.9	86.0
10	MHQPM-10-15	103.3	101.7	107.5	124.5	109.3	78.3	88.3	71.7	112.0	87.6	72.7	86.2	61.7	65.0	105.4	78.2
11	APQH9(EDV)	101.7	106.7	92.5	105.5	101.6	96.7	88.3	73.3	90.7	87.3	83.0	93.3	69.0	78.3	99.6	84.7
12	IIMRQPMH 1510	101.7	113.3	96.0	112.9	106.0	108.3	95.0	64.0	105.3	93.2	93.0	118.5	72.3	81.7	116.7	96.5
13	AQH9(EDV)	103.3	103.3	104.0	110.5	105.3	118.3	90.0	63.0	131.0	100.6	79.0	88.8	70.3	61.7	102.6	80.5
14	BAUQMH-18	86.7	105.0	76.5	76.8	86.2	66.7	71.7	62.0	79.3	69.9	74.0	84.1	73.7	46.7	67.8	69.3
15	IIMRQPMH 1505	90.0	96.7	103.5	117.3	101.9	95.0	73.3	62.7	115.0	86.5	94.7	94.3	67.0	71.7	101.5	85.8
16	FQH 106	90.0	100.0	77.0	89.8	89.2	75.0	76.7	70.0	61.7	70.8	71.0	69.1	72.0	40.0	79.9	66.4
17	BQPMH 36	95.0	105.0	121.0	101.1	105.5	111.7	108.3	69.0	114.0	100.8	76.0	112.5	61.7	95.0	103.9	89.8
18	EHQ-63	111.7	100.0	107.0	95.6	103.6	108.3	93.3	71.7	120.7	98.5	101.0	92.3	77.3	71.7	91.1	86.7
19	IIMRQPMH 1507	90.0	101.7	99.0	111.1	100.4	81.7	81.7	75.0	109.0	86.8	67.0	95.0	68.3	61.7	86.4	75.7
20	IHQ-091	86.7	101.7	92.0	88.3	92.2	113.3	68.3	68.0	109.3	89.7	76.3	86.0	62.7	65.0	108.8	79.8
21	BQPMH 141 (EDV-DHM117)	120.0	115.0	109.0	112.1	114.0	103.3	70.0	81.7	119.0	93.5	64.0	111.4	65.0	88.3	113.3	88.4
22	IIMRQPMH 1508	93.3	101.7	88.5	98.8	95.6	95.0	91.7	68.0	99.7	88.6	74.0	88.1	68.3	61.7	94.8	77.4
23	LQPMH 315	98.3	103.3	88.0	104.0	98.4	86.7	71.7	64.0	86.7	77.2	89.3	82.9	73.0	76.7	83.4	81.1
24	IIMRQPMH 1503	101.7	115.0	117.5	87.5	105.4	105.0	88.3	70.0	110.0	93.3	67.3	114.7	75.3	78.3	104.7	88.1

Table No. 17 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm)															
						NHZ					NWPZ						NEPZ
		ALMO	BAJA	KANG	BARA	Mean	LUDH	KARN	KANP	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean
25	VEHQ15-1	118.3	113.3	111.0	113.5	114.0	96.7	53.3	66.0	119.0	83.8	57.0	115.6	66.3	76.7	82.9	79.7
26	LQPMH 115	101.7	110.0	117.5	127.6	114.2	85.0	75.0	66.0	111.0	84.3	110.0	105.4	66.0	76.7	109.8	93.6
27	EHQ-64	95.0	103.3	93.5	98.7	97.6	83.3	88.3	77.7	90.3	84.9	76.0	87.1	69.7	85.0	101.1	83.8
28	IIMRQPMH 1501	98.3	103.3	101.0	105.5	102.1	98.3	83.3	87.7	95.0	91.1	82.0	95.1	78.7	78.3	104.4	87.7
29	IIMRQPMH 1509	91.7	106.7	107.0	119.8	106.3	88.3	71.7	72.3	98.0	82.6	76.0	96.3	63.3	63.3	113.3	82.4
30	HQPM 26	125.0	111.7	105.0	92.6	108.6	105.0	70.0	68.7	115.7	89.8	80.0	101.7	62.7	75.0	113.8	86.6
	CHECKS																
31	HM8	93.3	106.7	103.0	111.9	103.7	88.3	61.7	66.7	123.7	85.1	103.0	118.5	63.3	83.3	110.0	95.6
32	HM9	111.7	108.3	121.0	103.0	111.0	101.7	75.0	70.0	115.7	90.6	90.0	87.7	77.7	75.0	104.2	86.9
33	HM4	100.0	110.0	99.0	104.0	103.3	78.3	80.0	75.7	94.7	82.2	75.0	88.1	68.3	83.3	101.5	83.3
34	DHM117	101.7	93.3	97.5	121.9	103.6	110.0	80.0	63.0	124.3	94.3	96.0	95.9	64.0	93.3	117.8	93.4
35	Vivek QPM9	98.3	105.0	85.0	100.0	97.1	80.0	90.0	59.0	83.7	78.2	77.0	77.3	65.7	60.0	87.8	73.6
36	HQPM1	100.0	110.0	85.5	93.8	97.3	75.0	63.3	58.0	88.3	71.2	82.0	91.8	68.7	66.7	84.5	78.7
37	HQPM4	100.0	103.3	110.0	97.4	102.7	103.3	81.7	67.7	142.7	98.8	106.7	123.1	64.7	93.3	129.7	103.5
38	HQPM5	118.3	105.0	102.0	100.5	106.5	103.3	58.3	64.3	103.7	82.4	99.0	119.8	60.0	68.3	115.9	92.6
39	HQPM7	101.7	96.7	109.0	95.0	100.6	86.7	78.3	61.0	104.0	82.5	85.7	100.7	63.3	78.3	104.1	86.4
	Loc. Mean	**101.2**	**106.0**	**100.7**	**103.3**	**102.8**	**94.5**	**81.2**	**68.0**	**105.1**	**87.2**	**81.0**	**98.0**	**67.9**	**74.2**	**100.9**	**84.4**
	C.D. (5%)	9.93	14.78	5.12	27.03	12.49	22.55	4.55	2.28	8.66	15.68	14.25	13.25	4.95	15.25	25.13	12.28
	C.V. (%)	6.03	8.57	2.51	16.09	8.67	14.67	3.45	2.07	5.07	12.83	10.82	8.31	4.49	12.64	15.32	11.65
	F (Prob)	0.00	0.25	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00

Table No. 17 (Continued)

		EAR HEIGHT(cm)												
S.No.	PEDIGREE	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	IIMRQPMH 1506	81.7	83.3	102.3	102.0	100.5	94.0	100.0	105.0	88.3	80.3	82.0	91.1	89.3
2	LQPMH 215	86.7	96.7	112.3	106.7	93.2	99.1	96.7	101.0	101.7	96.0	75.3	94.1	93.9
3	AQH8(EDV)	81.3	92.3	104.0	98.0	111.0	97.3	100.0	105.0	90.0	99.4	69.7	92.8	95.1
4	VEHQ14-1	84.7	93.7	105.0	99.7	114.6	99.5	96.7	140.0	85.0	85.1	72.7	95.9	94.1
5	PMSQ5	83.0	83.0	120.7	104.3	108.7	99.9	86.7	93.3	81.7	88.1	64.7	82.9	92.7
6	LQPMH 415	73.7	69.7	91.7	81.0	75.9	78.4	86.7	106.7	75.0	68.8	70.0	81.4	82.3
7	IIMRQPMH 1504	84.7	93.0	117.7	103.3	116.1	103.0	96.7	106.7	100.0	97.5	71.0	94.4	95.3
8	IIMRQPMH 1502	86.7	97.7	106.3	102.0	102.7	99.1	110.0	101.7	90.0	93.2	76.3	94.2	97.2
9	AQH4 (EDV)	87.7	76.7	104.0	99.0	96.5	92.8	86.7	96.7	75.0	86.7	81.7	85.3	87.9
10	MHQPM-10-15	76.7	94.3	86.0	93.0	94.4	88.9	80.0	96.7	85.0	77.7	78.7	83.6	88.7
11	APQH9(EDV)	75.3	74.7	103.7	95.3	94.7	88.7	93.3	103.3	81.7	85.6	77.7	88.3	89.7
12	IIMRQPMH 1510	84.3	95.7	111.3	105.7	96.7	98.7	100.0	92.0	81.7	96.8	59.3	86.0	95.8
13	AQH9(EDV)	93.3	98.7	110.3	103.0	110.4	103.2	80.0	105.0	106.7	98.1	66.0	91.1	95.5
14	BAUQMH-18	66.7	61.3	89.3	84.0	88.7	78.0	60.0	96.7	76.7	72.1	66.0	74.3	75.3
15	IIMRQPMH 1505	87.0	91.3	111.0	102.3	104.6	99.3	83.3	110.0	80.0	91.9	69.3	86.9	91.9
16	FQH 106	62.0	51.7	84.7	76.0	58.2	66.5	80.0	98.3	65.0	54.1	72.0	73.9	72.8
17	BQPMH 36	91.0	83.7	106.0	109.0	117.9	101.5	76.7	101.7	83.3	93.2	69.3	84.8	95.9
18	EHQ-63	87.7	100.7	111.3	103.7	115.4	103.8	106.7	113.7	106.7	95.2	74.7	99.4	98.1
19	IIMRQPMH 1507	76.7	76.3	97.7	94.0	93.5	87.6	96.7	101.7	80.0	87.6	60.0	85.2	86.6
20	IHQ-091	74.7	74.7	95.3	90.0	91.2	85.2	96.7	111.7	83.3	81.7	64.3	87.5	86.5
21	BQPMH 141 (EDV-DHM117)	96.3	101.0	112.3	98.7	116.1	104.9	110.0	103.3	98.3	97.1	69.7	95.7	98.9
22	IIMRQPMH 1508	80.7	76.0	90.0	90.3	91.3	85.7	93.3	110.0	83.3	81.2	68.7	87.3	86.5
23	LQPMH 315	73.7	70.3	100.7	95.0	106.1	89.2	96.7	106.7	66.7	79.1	70.3	83.9	85.8
24	IIMRQPMH 1503	84.0	89.7	111.7	94.7	110.9	98.2	96.7	96.7	90.0	98.9	72.7	91.0	94.8

Table No. 17 (Continued)

S.No.	PEDIGREE	EAR HEIGHT(cm) HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
25	VEHQ15-1	87.3	108.3	111.0	117.7	103.4	105.5	91.7	103.3	105.0	104.1	57.7	92.3	94.7
26	LQPMH 115	78.7	84.0	111.3	93.0	80.4	89.5	96.7	113.3	80.0	85.9	67.7	88.7	93.6
27	EHQ-64	81.0	79.7	106.3	90.0	106.0	92.6	93.3	96.0	91.7	81.9	80.0	88.6	89.3
28	IIMRQPMH 1501	85.7	83.0	95.7	97.3	104.4	93.2	103.3	104.0	76.7	87.4	71.7	88.6	92.2
29	IIMRQPMH 1509	82.0	84.3	104.3	93.7	93.0	91.5	80.0	118.3	80.0	77.1	66.0	84.3	89.0
30	HQPM 26	91.7	92.7	119.7	109.7	115.8	105.9	93.3	111.7	78.3	96.9	79.3	91.9	96.3
	CHECKS													
31	HM8	79.7	82.7	101.0	96.3	92.2	90.4	86.7	113.3	81.7	95.9	79.3	91.4	93.1
32	HM9	83.7	93.7	104.7	101.3	102.5	97.2	123.3	101.0	96.7	94.7	70.3	97.2	96.2
33	HM4	81.0	84.7	89.7	96.3	94.7	89.3	93.3	101.7	85.0	81.0	66.0	85.4	88.3
34	DHM117	96.7	106.0	121.7	103.7	123.5	110.3	86.7	107.7	83.3	103.9	62.7	88.9	98.0
35	Vivek QPM9	78.7	73.7	100.3	83.3	83.1	83.8	83.3	105.0	71.7	74.3	60.0	78.9	81.8
36	HQPM1	79.7	89.3	100.3	94.3	91.2	91.0	76.7	95.0	80.0	82.5	78.7	82.6	84.1
37	HQPM4	106.3	97.7	119.7	112.3	118.0	110.8	93.3	106.7	105.0	100.3	72.0	95.5	102.4
38	HQPM5	94.0	110.3	124.3	107.0	109.1	109.0	88.3	110.0	88.3	98.5	71.0	91.2	96.5
39	HQPM7	88.0	90.3	109.7	100.0	117.0	101.0	78.3	108.3	95.0	98.5	63.7	88.8	91.9
	Loc. Mean	**83.4**	**86.8**	**105.3**	**98.1**	**101.1**	**95.0**	**91.8**	**105.1**	**86.0**	**88.4**	**70.5**	**88.3**	**91.2**
	C.D. (5%)	6.53	9.61	17.54	13.65	4.67	7.33	11.85	20.98	17.05	10.04	20.62	10.85	5.32
	C.V. (%)	4.81	6.80	10.25	8.56	2.84	6.18	7.94	12.28	12.20	6.98	18.00	9.83	10.07
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.00	0.81	0.00	0.00

TABLE No. 18: **PERFORMANCE OF POPCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, DHOLI, RANCHI, BHUBANESWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. POPCORN DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																									
Sl							NHZ							NWPZ											NEPZ	
No	PEDIGREE	ALMO	R	BAJA	R	KANG	R	MEAN	R	LUDH	R	KARN	R	PANT	R	MEAN	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	MEAN	R
1	VL Popcorn-2	3443	3	2569	7	2702	4	2905	3	3248	3	4095	5	2217	9	3187	5	690	7	3553	5	2814	3	1672	7	3132	9	2793	7
2	DMRHP 1401	2923	8	1688	10	2077	9	2229	10	1374	10	3288	10	2689	7	2450	10	331	10	2742	9	2287	7	941	9	2643	10	2153	9
3	MPC-1-15	2683	10	3395	2	1854	10	2644	8	2259	9	3483	8	3335	5	3026	8	610	9	3715	2	2173	9	1452	8	3731	6	2768	8
4	IMHP 1540	3279	6	2201	9	2913	2	2798	7	2274	8	3771	7	3737	3	3261	4	867	5	3223	7	3046	1	2593	2	4830	2	3423	3
5	HPC 1	2691	9	2369	8	2204	7	2421	9	2315	7	4350	2	1796	10	2820	9	674	8	2621	10	1939	10	698	10	3320	8	2144	10
6	IMHP 1535	3320	5	2813	5	2338	6	2824	6	2936	4	3876	6	2665	8	3159	6	1090	3	3543	6	2663	5	2001	5	3372	7	2895	6
7	KDPC-2(PC	3674	1	3479	1	2912	3	3355	1	3785	1	6457	1	4878	1	5040	1	1686	1	3647	3	2723	4	2950	1	4614	3	3483	2
8	DMRHP 1402	3425	4	2960	4	2150	8	2845	5	2430	6	4208	4	3445	4	3361	3	700	6	3057	8	2221	8	2269	4	5364	1	3228	4
9	SJPC1	2956	7	3367	3	2993	1	3105	2	3653	2	4331	3	4574	2	4186	2	1537	2	4498	1	2978	2	2318	3	4392	4	3547	1
	CHECKS																												
10	VL Popcorn	3472	2	2769	6	2356	5	2866	4	2876	5	3344	9	2864	6	3028	7	885	4	3576	4	2523	6	1856	6	4094	5	3012	5
	Location Mean	**3187**		**2761**		**2450**		**2799**		**2715**		**4120**		**3220**		**3352**		**907**		**3418**		**2537**		**1875**		**3949**		**2945**	
	C.D. (5%)	799		522		332		551		848		241		884		657		415		546		219		466		896		532	
	C.V. (%)	10.88		10.98		7.87		-		18.12		3.39		15.93		-		**26.57**		9.27		5.02		14.42		13.17		-	
	F (Prob)	0.248		0		0				0		0		0				0		0		0		0		0			
	Plot Size	7.2		7.2		5.76		-		9.6		12		12		-		12		11.2		9.6		9.6		9.6		-	
	AGRONOMY DATA																												
	Sowing Date	7-07		27-06		28-06		-		3-07		4-07		24-06		-		6-07		6-07		28-06		5-07		4-07		-	
	Harvest Date	6-11		29-10		6-10		-		5-10		30-09		30-09		-		6-10		28-10		15-10		28-09		2-10		-	
	Irrigation Nos	-		3		-		-		5		4		1		-		1		-		-		1		-		-	
	Ferilizer Applied N	100		120		120		-		50		150		120		-		120		120		120		100		120		-	
	Ferilizer Applied P	60		60		60		-		24		60		60		-		60		60		60		40		60		-	
	Ferilizer Applied K	40		40		40		-		12		60		40		-		40		40		60		40		60		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.6 %: CHHI 30.6 %

TABLE No. 18:

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
											PZ											CWZ		OV'L	
		HYDE	R	KARI	R	DHAR	R	MAND	R	COIM	R	MEAN	R	UDAI	R	BANS	R	CHHI	R	AMBI	R	GODH	R	MEAN	R	MEAN	R
1	VL Popcorn-2	2286	5	3065	4	5669	2	4328	7	3963	9	3862	7	4005	5	1538	4	5529	7	2701	7	1765	9	2502	6	3093	6
2	DMRHP 1401	2037	9	2457	8	4999	9	4232	8	3119	10	3369	10	2299	10	883	10	3941	10	2234	8	1952	6	1842	10	2467	10
3	MPC-1-15	2085	8	3082	3	5275	6	4958	3	4474	6	3975	4	3821	6	2122	1	6571	5	1849	9	2093	5	2471	7	3044	8
4	IMHP 1540	2644	3	2921	6	5394	5	4597	5	4239	7	3959	6	3459	7	1444	6	7560	2	3891	5	2239	3	2758	5	3300	5
5	HPC 1	2263	6	1855	10	5219	7	4389	6	3981	8	3541	9	2750	9	1526	5	5062	8	1721	10	1723	10	1930	9	2617	9
6	IMHP 1535	2139	7	3394	1	5532	4	4104	10	5527	2	4139	3	4219	4	1635	2	6257	6	3964	4	3143	1	3240	2	3325	3
7	KDPC-2(PC	2346	4	3132	2	5605	3	5881	1	7107	1	4814	1	5420	1	1444	7	7783	1	4869	1	2943	2	3669	1	4098	1
8	DMRHP 1402	2808	1	3045	5	4235	10	4111	9	4967	4	3833	8	4509	3	1620	3	6758	4	4104	2	2152	4	3096	3	3320	4
9	SJPC1	2658	2	2836	7	5198	8	5173	2	5384	3	4250	2	4889	2	1185	8	7388	3	4097	3	1870	7	3010	4	3650	2
	CHECKS																										
10	VL Popcorn	1626	10	2296	9	6627	1	4600	4	4695	5	3969	5	2996	8	1003	9	4480	9	3090	6	1856	8	2236	8	3080	7
	Location Mean	**2289**		**2808**		**5375**		**4637**		**4746**		**3971**		**3837**		**1440**		**6133**		**3252**		**2173**		**2676**		**3199**	
	C.D. (5%)	268		401		1474		342		575		612		492		244		3234		721		222		420		552	
	C.V. (%)	6.79		8.3		15.92		4.29		7.04		-		7.44		9.84		**30.61**		12.87		5.92		-		-	
	F (Prob)	0		0		0.209		0		0				0		0		0.188		0		0					
	Plot Size	12		12		9.6		11.2		9.6		-		9.6		9.6		6		9.6		7.2		-		-	
	AGRONOMY DATA																										
	Sowing Date	27-06		3-07		22-06		31-07		16-07		-		4-07		24-06		9-07		20-07		16-07		-		-	
	Harvest Date	30-09		26-10		4-11		20-11		12-10		-		19-10		18-10		19-11		-		28-10		-		-	
	Irrigation Nos	3		7		2		6		7		-		3		-		-		-		-		-		-	
	Ferilizer Applied N	200		200		150		150		150		-		90		150		120		100		100		-		-	
	Ferilizer Applied P	60		60		75		75		75		-		60		80		60		50		50		-		-	
	Ferilizer Applied K	50		50		37.5		40		75		-		-		-		40		30		-		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.6 %: CHHI 30.6 %

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Popcorn																									
					NHZ				NWPZ						NEPZ					PZ							CWZ
		ALMO	BAJA	KANG	MEAN	LUDH	KARN	PANT	MEAN	DHOL	RANC	BHUB	VARA	BAHR	MEAN	HYDE	KARI	DHAR	MAND	COIM	MEAN	UDAI	BANS	CHHI	AMBI	GODH	MEAN
1	VL Popcorn-2	-	-	14.7	1.4	12.9	22.4	-	5.2	-	-	11.5	-	-	-	40.5	33.5	-	-	-	-	33.7	53.4	23.4	-	-	11.9
2	DMRHP 1401	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25.3	7	-	-	-	-	-	-	-	-	5.2	-
3	MPC-1-15	-	22.6	-	-	-	4.1	16.4	-	-	3.9	-	-	-	-	28.2	34.2	-	7.8	-	0.2	27.6	111.6	46.7	-	12.8	10.5
4	IMHP 1540	-	-	23.6	-	-	12.7	30.5	7.7	-	-	20.7	39.7	18	13.6	62.6	27.2	-	-	-	-	15.5	44	68.7	25.9	20.7	23.4
5	HPC 1	-	-	-	-	-	30.1	-	-	-	-	-	-	-	-	39.1	-	-	-	-	-	-	52.2	13	-	-	-
6	IMHP 1535	-	1.6	-	-	2.1	15.9	-	4.3	23.2	-	5.6	7.8	-	-	31.5	47.8	-	-	17.7	4.3	40.8	63	39.7	28.3	69.4	44.9
7	KDPC-2(PC	5.8	25.7	23.6	17.1	31.6	93.1	70.3	66.4	90.5	2	7.9	58.9	12.7	15.6	44.2	36.4	-	27.9	51.4	21.3	80.9	44	73.7	57.6	58.6	64.1
8	DMRHP 1402	-	6.9	-	-	-	25.8	20.3	11	-	-	-	22.2	31	7.1	72.7	32.6	-	-	5.8	-	50.5	61.6	50.8	32.8	16	38.5
9	SJPC1	-	21.6	27	8.4	27	29.5	59.7	38.2	73.7	25.8	18	24.9	7.3	17.7	63.5	23.5	-	12.4	14.7	7.1	63.2	18.2	64.9	32.6	0.8	34.6
	CHECKS																										
10	VL Popcorn	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 26.6 %: CHHI 30.6 %

Table No. 18 (Continued)

GRAIN SHELLING %

S.No.	PEDIGREE	ALMO	BAJA	KANG	NHZ Mean	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	VL Popcorn-2	80.8	78.1	81.8	80.2	84.5	80.9	82.7	61.0	81.9	78.5	75.0	75.8	74.4	76.0	78.4	87.3	80.4	77.8	79.9	82.0	65.9	87.9	77.0	83.6	79.3	78.7
2	DMRHP 1401	84.7	77.8	82.2	81.5	84.1	80.0	82.1	61.5	81.6	79.2	73.5	75.1	74.2	80.2	83.4	87.1	78.9	83.0	82.5	82.0	59.4	85.8	79.4	86.1	78.5	79.2
3	MPC-1-15	79.8	77.9	81.3	79.6	81.4	81.1	81.2	73.0	79.2	80.4	72.0	69.7	74.9	70.8	79.3	83.8	80.6	82.6	79.4	81.8	69.2	80.6	76.1	83.7	78.3	78.2
4	IMHP 1540	82.5	82.6	80.1	81.7	82.2	83.4	82.8	73.0	86.6	78.7	77.5	79.0	79.0	81.6	83.0	87.8	79.6	82.2	82.8	80.8	59.3	85.0	81.3	83.7	78.0	80.5
5	HPC 1	80.7	75.7	80.4	78.9	80.4	82.2	81.3	68.5	77.7	78.9	73.0	73.8	74.4	78.4	79.7	83.9	78.5	83.4	80.7	79.7	67.2	87.5	77.3	81.6	78.7	78.4
6	IMHP 1535	82.9	78.7	82.6	81.4	80.9	79.1	80.0	61.5	78.3	77.3	76.0	78.2	74.3	78.8	80.7	86.9	77.9	83.9	81.6	82.2	69.3	85.0	80.3	87.5	80.8	79.4
7	KDPC-2(PC	81.9	76.6	82.2	80.2	80.5	78.9	79.7	69.5	81.8	76.7	74.5	80.1	76.5	79.1	83.3	86.5	79.6	82.0	82.1	82.3	66.1	81.1	81.5	84.6	79.1	79.4
8	DMRHP 1402	80.8	81.7	81.6	81.3	83.7	78.4	81.0	70.5	87.2	78.4	76.0	82.0	78.8	79.8	79.7	88.9	78.3	84.6	82.2	82.3	66.0	85.4	83.3	82.5	79.9	80.5
9	SJPC1	82.2	70.4	82.6	78.4	81.7	85.7	83.7	62.0	82.5	78.2	78.0	79.2	76.0	79.2	81.9	88.8	80.5	82.0	82.5	80.8	62.8	88.4	83.6	83.8	79.9	79.7
	CHECKS																										
10	VL Popcorn	82.4	80.3	82.8	81.8	80.9	80.5	80.7	72.5	85.5	79.0	71.5	76.1	76.9	77.0	81.1	86.3	78.6	80.8	80.8	81.1	60.8	84.8	80.2	83.3	78.0	79.3
	Loc. Mean	**81.8**	**78.0**	**81.8**	**80.5**	**82.0**	**81.0**	**81.5**	**67.3**	**82.2**	**78.5**	**74.7**	**76.9**	**75.9**	**78.1**	**81.0**	**86.7**	**79.3**	**82.2**	**81.5**	**81.5**	**64.6**	**85.2**	**80.0**	**84.0**	**79.1**	**79.3**
	C.D. (5%)	1.60	0.00	1.05	3.82	0.27	2.65	4.60	7.19	1.53	-	2.56	0.87	4.05	2.77	1.59	2.58	0.93	0.81	2.31	0.39	3.74	5.71	3.16	1.92	3.33	1.55
	C.V. (%)	0.86	0.00	0.75	2.77	0.19	1.91	2.50	6.23	1.09	-	2.00	0.66	4.16	2.07	1.15	1.74	0.69	0.58	2.21	0.28	3.38	3.91	2.30	1.33	3.29	3.14
	F (Prob)	0.00	0.00	0.00	0.54	0.00	0.00	0.63	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.13	0.00	0.00	0.76	0.05

MOISTURE % AT HARVEST

S.No.	PEDIGREE	ALMO	BAJA	KANG	NHZ Mean	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	GODH	CWZ Mean	OV'L Mean
1	VL Popcorn-2	17.2	21.7	25.1	21.3	28.5	21.9	23.3	24.6	19.3	20.1	17.2	26.5	21.0	20.8	14.7	12.5	18.6	15.5	16.0	15.5	19.2	15.8	11.7	15.8	15.6	19.1
2	DMRHP 1401	17.1	28.2	24.0	23.1	30.0	23.0	20.9	24.6	21.6	20.0	17.8	27.0	22.8	21.8	17.3	13.0	20.6	14.9	16.0	16.3	19.7	15.0	11.3	15.0	15.2	19.7
3	MPC-1-15	17.7	24.1	26.0	22.6	26.4	22.1	23.6	24.0	20.5	21.1	19.3	32.4	22.9	23.2	20.9	14.0	17.9	15.5	17.1	17.1	18.4	15.4	11.1	15.0	15.0	20.1
4	IMHP 1540	17.5	18.1	23.9	19.8	30.3	21.4	17.4	23.0	19.2	20.1	17.6	28.2	19.0	20.8	15.3	13.8	17.5	15.0	15.9	15.5	19.1	15.7	11.5	13.9	15.0	18.5
5	HPC 1	16.8	23.9	26.2	22.3	27.7	19.7	21.4	22.9	18.6	19.8	18.7	29.1	21.9	21.6	15.9	12.0	20.2	15.5	15.6	15.8	21.8	15.7	11.5	14.0	15.7	19.3
6	IMHP 1535	18.3	22.2	25.2	21.9	29.9	22.5	22.9	25.1	17.8	19.2	18.9	28.0	21.3	21.0	19.4	12.0	16.3	14.5	17.5	15.9	21.2	15.2	11.6	15.5	15.9	19.4
7	KDPC-2(PC	16.8	23.9	22.9	21.2	29.8	19.9	17.7	22.5	19.3	20.4	18.0	27.7	21.7	21.4	17.5	17.0	20.6	15.2	16.9	17.4	18.4	15.6	11.4	14.8	15.0	19.3
8	DMRHP 1402	16.4	22.4	26.0	21.6	27.8	19.6	17.2	21.5	20.0	20.2	18.4	26.2	24.9	21.9	17.8	14.2	18.5	14.8	16.8	16.4	20.5	16.1	11.2	16.0	15.9	19.2
9	SJPC1	18.5	23.9	23.5	21.9	30.2	20.5	20.4	23.7	22.0	20.1	17.5	29.9	24.1	22.7	19.1	14.5	19.3	14.7	15.5	16.6	22.1	15.1	11.8	14.7	15.9	19.8
	CHECKS																										
10	VL Popcorn	16.9	22.3	24.7	21.3	29.7	20.2	23.3	24.4	15.1	19.4	17.7	26.0	23.0	20.2	16.1	11.9	20.3	15.2	16.0	15.9	21.1	15.2	11.6	14.8	15.6	19.0
	Loc. Mean	**17.3**	**23.0**	**24.7**	**21.7**	**29.0**	**21.1**	**20.8**	**23.6**	**19.3**	**20.0**	**18.1**	**28.1**	**22.2**	**21.6**	**17.4**	**13.5**	**19.0**	**15.0**	**16.3**	**16.2**	**20.1**	**15.5**	**11.5**	**14.9**	**15.5**	**19.3**
	C.D. (5%)	1.05	3.79	1.09	2.91	1.22	0.36	1.14	3.02	3.30	1.11	-	1.39	2.70	1.71	1.62	0.50	3.23	0.81	0.69	1.69	0.28	0.37	0.60	0.76	1.16	0.87
	C.V. (%)	2.68	9.59	2.58	7.82	2.44	1.01	3.20	7.44	9.97	3.24	-	2.89	7.07	6.20	5.43	2.15	9.92	3.13	2.46	8.12	0.82	1.41	3.04	2.96	5.15	7.20
	F (Prob)	0.02	0.01	0.00	0.60	0.00	0.00	0.00	0.34	0.02	0.11	0.00	0.00	0.01	0.03	0.00	0.00	0.13	0.14	0.00	0.30	0.00	0.00	0.40	0.00	0.53	0.03

Table No. 18 (Continued)

STAND AT HARVEST ('000/ha)

		NHZ				NWPZ				NEPZ						PZ									CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	VL Popcorn-2	59.7	60.6	70.0	63.5	69.1	62.8	56.4	62.8	61.4	69.3	63.5	70.5	60.4	65.9	52.8	54.4	60.1	54.5	66.7	57.7	67.0	63.5	128.9	67.0	36.6	72.6	64.7
2	DMRHP 1401	64.6	48.6	72.3	61.8	56.3	62.2	53.9	57.5	41.4	64.3	60.4	66.0	66.0	64.2	32.2	44.2	56.9	56.8	66.0	51.2	47.2	62.2	95.0	58.3	39.4	60.4	58.6
3	MPC-1-15	62.5	58.8	69.4	63.6	61.8	63.6	54.7	60.0	35.3	65.2	62.2	67.0	68.8	65.8	52.5	53.1	62.5	57.7	66.7	58.5	61.1	67.7	113.9	51.7	46.8	68.2	63.4
4	IMHP 1540	63.9	51.9	74.1	63.3	59.4	63.1	51.1	57.8	36.4	60.7	61.1	68.4	65.3	63.9	54.4	40.3	60.8	60.7	66.7	56.6	71.9	68.4	118.3	74.3	48.6	76.3	64.2
5	HPC 1	60.4	58.3	69.4	62.7	65.3	63.6	55.8	61.6	51.1	70.5	61.1	68.8	62.5	65.7	50.3	46.9	55.6	57.1	66.7	55.3	53.8	68.1	130.6	50.7	53.7	71.4	63.5
6	IMHP 1535	59.0	62.5	69.4	63.7	72.9	62.5	54.7	63.4	63.1	63.4	62.8	68.8	62.8	64.5	48.9	62.5	56.6	57.1	66.3	58.3	63.5	69.1	127.2	77.1	46.3	76.6	65.7
7	KDPC-2(PC	59.7	48.1	70.0	59.3	62.5	61.7	54.7	59.6	51.4	63.7	60.8	67.0	61.8	63.3	48.6	48.9	60.1	58.9	66.0	56.5	51.0	63.2	128.9	80.6	43.1	73.3	63.0
8	DMRHP 1402	62.5	51.4	68.9	60.9	64.6	63.9	53.1	60.5	48.1	62.8	62.8	69.8	59.4	63.7	50.6	52.5	60.1	59.2	66.3	57.7	71.2	67.0	124.4	78.8	45.8	77.5	64.8
9	SJPC1	60.4	64.8	70.6	65.3	66.3	62.5	55.8	61.6	55.0	60.7	61.5	70.5	64.2	64.2	50.8	47.8	59.0	57.1	66.7	56.3	69.4	66.3	127.2	77.8	44.4	77.0	65.2
	CHECKS																											
10	VL Popcorn	63.9	58.8	73.5	65.4	68.4	62.8	55.3	62.2	58.9	65.2	62.8	72.6	61.8	65.6	45.0	51.1	54.2	56.5	66.3	54.6	50.0	61.8	127.8	70.8	41.7	70.4	63.5
	Loc. Mean	**61.7**	**56.4**	**70.8**	**62.9**	**64.7**	**62.9**	**54.6**	**60.7**	**50.2**	**64.6**	**61.9**	**68.9**	**63.3**	**64.7**	**48.6**	**50.2**	**58.6**	**57.6**	**66.4**	**56.3**	**60.6**	**65.7**	**122.2**	**68.7**	**44.6**	**72.4**	**63.6**
	C.D. (5%)	8.19	4.75	3.59	6.88	6.69	2.30	5.60	4.73	21.49	6.85	3.50	5.82	3.59	3.70	4.72	2.70	8.96	2.56	0.74	5.12	6.44	6.55	16.72	7.76	4.14	9.71	3.10
	C.V. (%)	5.87	4.91	2.96	6.38	6.03	2.13	5.98	4.54	24.96	6.18	3.30	4.93	3.31	3.94	5.66	3.14	8.92	2.59	0.65	7.10	6.19	5.81	7.98	6.58	5.41	10.46	7.81
	F (Prob)	0.75	0.00	0.06	0.74	0.00	0.62	0.72	0.21	0.12	0.11	0.60	0.46	0.00	0.79	0.00	0.00	0.65	0.01	0.29	0.19	0.00	0.19	0.01	0.00	0.00	0.03	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DHOLI 25.0%

DAYS TO 50% POLLEN SHED

		NHZ				NWPZ				NEPZ						PZ									CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	VL Popcorn-2	57.5	52.3	47.7	52.5	53.7	49.3	50.7	51.2	48.0	46.7	49.0	42.3	48.0	46.8	53.0	51.3	47.7	45.0	47.0	48.8	58.7	51.3	56.0	47.3	49.0	52.5	50.1
2	DMRHP 1401	55.5	50.7	46.3	50.8	52.3	49.7	49.0	50.3	48.0	46.3	46.0	41.3	46.0	45.5	52.0	51.0	48.3	44.7	47.0	48.6	56.7	47.0	54.7	46.0	50.0	50.9	49.0
3	MPC-1-15	62.5	63.0	54.7	60.1	59.3	53.0	56.3	56.2	56.7	54.0	54.3	49.0	50.7	52.9	58.0	57.0	52.0	47.7	51.0	53.1	59.3	54.0	58.7	54.0	55.0	56.2	55.2
4	IMHP 1540	56.5	50.0	48.3	51.6	54.3	48.7	49.0	50.7	50.0	46.0	46.3	42.7	47.7	46.5	51.3	50.7	50.7	43.7	47.0	48.7	56.7	52.0	55.3	46.3	38.0	49.7	49.1
5	HPC 1	56.0	55.0	49.3	53.4	54.3	49.3	53.3	52.3	48.3	46.3	45.3	42.7	48.7	46.3	52.3	51.0	52.3	45.3	48.3	49.9	58.0	55.0	55.7	46.0	49.0	52.7	50.6
6	IMHP 1535	56.5	55.3	49.3	53.7	53.0	51.0	53.0	52.3	48.0	47.0	48.0	44.0	47.7	46.9	55.7	51.3	49.3	45.0	48.0	49.9	58.3	52.7	56.0	48.3	48.0	52.7	50.7
7	KDPC-2(PC	52.5	48.7	47.3	49.5	49.3	49.0	48.3	48.9	45.0	46.7	46.7	41.3	44.0	44.7	49.7	49.7	50.0	41.3	45.0	47.1	52.7	49.3	53.7	45.0	48.0	49.7	47.8
8	DMRHP 1402	52.5	52.3	49.3	51.4	52.7	49.0	49.7	50.4	47.7	46.3	45.0	42.0	50.0	46.2	52.7	49.0	48.0	43.7	45.0	47.7	56.3	56.3	55.0	44.3	48.0	52.0	49.3
9	SJPC1	59.0	55.0	52.7	55.6	54.7	48.0	51.7	51.4	52.0	47.0	51.0	44.0	52.0	49.2	55.0	52.0	49.0	46.0	51.0	50.6	59.7	54.0	56.7	47.3	51.3	53.8	51.9
	CHECKS																											
10	VL Popcorn	57.0	53.0	48.3	52.8	53.7	49.0	50.3	51.0	48.0	46.7	48.3	41.7	52.0	47.3	54.3	51.7	47.3	45.0	50.7	49.8	58.3	49.0	56.3	46.3	50.0	52.0	50.3
	Loc. Mean	**56.6**	**53.5**	**49.3**	**53.1**	**53.7**	**49.6**	**51.1**	**51.5**	**49.2**	**47.3**	**48.0**	**43.1**	**48.7**	**47.2**	**53.4**	**51.5**	**49.5**	**44.7**	**48.0**	**49.4**	**57.5**	**52.1**	**55.8**	**47.1**	**48.6**	**52.2**	**50.4**
	C.D. (5%)	1.69	2.80	1.52	2.65	3.57	1.06	3.07	2.13	3.45	0.83	2.11	1.25	2.05	1.93	2.29	1.24	4.32	1.70	1.98	1.70	0.98	1.61	1.80	1.20	9.52	2.98	1.01
	C.V. (%)	1.32	3.05	1.80	2.91	3.88	1.25	3.50	2.41	4.09	1.02	2.56	1.69	2.45	3.18	2.50	1.41	5.09	2.22	2.40	2.69	1.00	1.80	1.88	1.48	11.41	4.45	3.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00

Table No. 18 (Continued)

DAYS TO 50% SILKING

					NHZ				NWPZ						NEPZ						PZ							CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	VL Popcorn-2	58.5	54.7	51.3	54.8	53.3	51.3	53.7	52.8	52.3	50.7	52.0	48.0	50.0	50.6	55.0	54.0	53.7	46.3	49.0	51.6	60.3	54.3	57.0	50.7	51.3	54.7	52.7
2	DMRHP 1401	57.0	52.7	50.3	53.3	53.0	52.0	52.0	52.3	52.0	50.7	48.7	47.3	48.0	49.3	53.7	53.7	54.7	45.7	49.0	51.3	58.7	50.0	55.7	49.0	52.0	53.1	51.7
3	MPC-1-15	65.0	65.3	59.3	63.2	62.0	54.7	58.3	58.3	59.7	59.0	57.3	57.0	52.7	57.1	62.0	59.0	57.7	51.0	54.0	56.7	61.7	57.0	59.7	57.7	57.0	58.6	58.4
4	IMHP 1540	57.5	52.7	51.7	53.9	56.0	51.0	52.0	53.0	53.7	50.3	49.3	48.0	49.7	50.2	53.0	52.3	56.3	46.3	49.0	51.4	58.7	55.0	56.3	49.7	50.0	53.9	52.3
5	HPC 1	57.0	57.7	53.3	56.0	55.3	51.7	56.3	54.4	54.3	52.0	48.0	49.0	50.7	50.8	54.7	53.7	58.3	46.7	50.7	52.8	59.7	58.0	56.7	49.7	52.0	55.2	53.6
6	IMHP 1535	57.5	57.7	53.3	56.2	54.7	53.0	56.0	54.6	52.3	52.0	51.0	49.0	49.7	50.8	58.0	54.0	55.0	48.0	50.3	53.1	60.3	55.7	57.0	52.3	50.0	55.1	53.7
7	KDPC-2(PC	53.5	50.7	51.3	51.8	50.7	51.3	51.0	51.0	49.3	50.7	49.3	46.3	46.0	48.3	51.3	52.3	55.3	45.0	47.0	50.2	54.7	52.3	54.7	48.7	50.0	52.1	50.5
8	DMRHP 1402	54.0	54.3	52.7	53.7	52.7	51.0	52.7	52.1	51.3	51.0	47.3	48.0	52.0	49.9	55.3	50.7	54.3	45.7	48.0	50.8	58.0	59.3	56.0	47.7	50.0	54.2	52.0
9	SJPC1	61.0	57.3	56.3	58.2	56.3	50.0	54.7	53.7	55.0	52.0	54.0	51.3	54.0	53.3	57.3	54.7	55.7	48.0	53.3	53.8	61.3	57.0	57.3	51.3	52.7	55.9	54.8
	CHECKS																											
10	VL Popcorn	58.0	56.0	51.7	55.2	55.7	51.3	53.3	53.4	52.3	51.3	51.3	48.7	54.0	51.5	56.0	54.7	52.0	46.7	52.7	52.4	60.3	52.0	57.3	49.7	52.0	54.3	53.2
	Loc. Mean	**57.9**	**55.9**	**53.1**	**55.6**	**55.0**	**51.7**	**54.0**	**53.6**	**53.2**	**52.0**	**50.8**	**49.3**	**50.7**	**51.2**	**55.6**	**53.9**	**55.3**	**46.9**	**50.3**	**52.4**	**59.4**	**55.1**	**56.8**	**50.6**	**51.7**	**54.7**	**53.3**
	C.D. (5%)	2.11	3.02	1.30	2.50	3.92	1.18	3.04	2.53	2.80	1.00	2.12	1.80	2.05	1.90	2.46	1.38	4.55	1.69	1.62	1.82	0.98	1.61	1.72	1.65	0.43	2.18	0.91
	C.V. (%)	1.61	3.15	1.43	2.62	4.15	1.33	3.28	2.76	3.07	1.12	2.43	2.13	2.35	2.89	2.58	1.49	4.80	2.10	1.88	2.71	0.97	1.70	1.77	1.90	0.49	3.10	2.81
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

DAYS TO 75% DRY HUSK

					NHZ			NWPZ						NEPZ					PZ								CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	VL Popcorn-2	100.5	96.0	87.0	94.5	85.7	84.0	84.8	75.0	86.0	88.0	76.3	78.7	80.8	93.3	88.3	89.3	90.3	93.3	75.7	87.7	85.7	82.7	85.0	86.3
2	DMRHP 1401	106.5	98.7	86.0	97.1	83.3	86.3	84.8	77.0	85.7	88.0	76.7	79.7	81.4	94.3	91.0	88.7	91.3	92.7	74.7	88.3	86.7	83.0	85.1	87.1
3	MPC-1-15	108.0	104.0	94.7	102.2	89.0	86.7	87.8	88.0	93.0	91.0	83.7	83.7	87.9	99.3	89.0	94.0	94.1	99.7	82.3	90.0	90.3	88.7	90.2	91.9
4	IMHP 1540	106.0	96.7	87.0	96.6	85.0	84.3	84.7	78.0	86.0	87.0	78.0	80.3	81.9	93.0	89.0	90.0	90.7	92.3	79.0	88.7	84.7	81.3	85.2	87.0
5	HPC 1	105.5	99.3	88.7	97.8	85.3	84.0	84.7	79.0	88.0	85.0	78.7	84.7	83.1	91.0	89.3	91.3	90.6	93.3	74.3	88.0	87.3	83.0	85.2	87.5
6	IMHP 1535	106.5	103.0	88.7	99.4	86.7	82.3	84.5	78.7	86.7	88.3	80.7	81.3	83.1	95.0	87.7	90.0	90.9	94.7	83.7	88.7	86.7	81.0	86.9	88.3
7	KDPC-2(PC	104.0	94.3	86.7	95.0	82.3	84.3	83.3	78.0	85.7	88.0	73.7	76.7	80.4	90.0	87.0	88.3	88.4	92.3	74.7	88.0	84.3	81.3	84.1	85.5
8	DMRHP 1402	101.5	100.3	88.0	96.6	85.3	86.3	85.8	76.3	85.7	87.0	78.0	79.3	81.3	92.3	89.0	89.0	90.1	92.3	82.0	88.0	85.7	80.7	85.7	87.0
9	SJPC1	108.0	101.0	91.7	100.2	85.3	85.7	85.5	83.0	87.7	90.7	81.7	85.3	85.7	93.3	89.0	94.0	92.1	91.7	83.3	89.7	85.0	84.3	86.8	89.5
	CHECKS																								
10	VL Popcorn	102.5	96.7	87.0	95.4	86.7	85.0	85.8	77.7	87.3	88.3	78.0	77.3	81.7	94.3	87.0	92.3	91.2	93.3	76.7	88.3	82.3	83.0	84.7	86.9
	Loc. Mean	**104.9**	**99.0**	**88.5**	**97.5**	**85.5**	**84.9**	**85.2**	**79.1**	**87.2**	**88.1**	**78.5**	**80.7**	**82.7**	**93.6**	**88.6**	**90.7**	**91.0**	**93.6**	**78.6**	**88.5**	**85.9**	**82.9**	**85.9**	**87.7**
	C.D. (5%)	1.97	4.60	1.32	2.91	3.94	1.28	3.49	4.11	1.37	1.88	2.16	1.98	2.18	3.46	1.72	1.44	2.96	0.77	9.74	2.24	3.61	1.19	2.53	1.15
	C.V. (%)	0.83	2.71	0.87	1.74	2.69	0.88	1.81	3.03	0.92	1.24	1.61	1.43	2.06	2.16	1.13	0.93	1.90	0.48	7.22	1.48	2.45	0.83	2.30	1.98
	F (Prob)	0.00	0.01	0.00	0.00	0.12	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.26	0.47	0.02	0.00	0.00	0.00

Table No. 18 (Continued)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	ALMO	BAJA	KANG	NHZ Mean	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	VL Popcorn-2	170.0	151.7	149.3	157.0	163.3	165.0	181.3	169.9	128.7	171.7	147.0	149.3	173.7	154.1	168.0	134.0	172.0	178.0	160.4	162.5	106.7	160.0	131.7	213.5	132.7	148.9	157.5
2	DMRHP 1401	165.0	156.7	150.0	157.2	145.0	155.0	181.0	160.3	126.3	167.5	143.7	146.0	177.0	152.1	145.3	141.3	169.0	184.0	167.6	161.5	106.7	145.0	145.0	211.3	121.7	145.9	154.8
3	MPC-1-15	187.5	178.3	172.7	179.5	151.7	185.0	239.0	191.9	185.0	199.7	159.3	197.0	215.4	191.3	212.7	152.0	183.3	230.7	190.6	193.8	185.0	173.3	166.7	267.4	167.7	192.0	190.5
4	IMHP 1540	167.5	158.3	184.3	170.1	153.3	173.3	190.3	172.3	131.3	164.7	146.7	149.3	171.3	152.7	189.0	149.7	179.7	189.7	182.6	178.1	115.0	155.0	168.3	219.0	123.3	156.1	164.8
5	HPC 1	167.5	136.7	145.0	149.7	178.3	161.7	166.3	168.8	123.0	160.8	148.0	138.0	163.7	146.7	161.0	135.7	213.0	178.3	171.7	171.9	105.0	170.3	135.0	193.9	118.0	144.4	155.8
6	IMHP 1535	155.0	150.0	147.0	150.7	171.7	161.7	163.7	165.7	135.7	170.2	149.0	147.0	156.1	151.6	164.7	167.3	170.7	178.0	171.6	170.4	120.0	168.3	141.7	224.9	132.0	157.4	159.3
7	KDPC-2(PC	172.5	166.7	144.0	161.1	156.7	160.0	231.7	182.8	155.3	161.5	145.7	170.3	201.9	166.9	161.7	160.3	176.3	186.3	171.9	171.3	145.0	165.0	153.3	243.2	136.3	168.6	169.8
8	DMRHP 1402	172.5	161.7	165.3	166.5	158.3	168.3	177.3	168.0	140.7	169.0	142.0	159.7	180.3	158.3	173.7	135.3	162.0	182.0	178.6	166.3	106.7	160.0	141.7	218.4	131.7	151.7	161.2
9	SJPC1	180.0	190.0	183.3	184.4	161.7	193.3	253.3	202.8	154.7	197.4	154.3	196.0	216.9	183.9	196.7	168.3	173.7	218.0	199.4	191.2	161.7	170.0	175.0	231.5	143.0	176.2	186.6
	CHECKS																											
10	VL Popcorn	175.0	153.3	157.7	162.0	200.0	168.3	185.3	184.6	139.0	167.5	141.7	158.7	175.0	156.4	164.7	139.3	183.7	192.0	167.0	169.3	106.7	168.3	135.0	212.1	143.7	153.1	163.5
	Loc. Mean	**171.3**	**160.3**	**159.9**	**163.8**	**164.0**	**169.2**	**196.9**	**176.7**	**142.0**	**173.0**	**147.7**	**161.1**	**183.2**	**161.4**	**173.7**	**148.3**	**178.3**	**191.7**	**176.1**	**173.6**	**125.8**	**163.5**	**149.3**	**223.5**	**135.0**	**159.4**	**166.4**
	C.D. (5%)	10.15	25.51	6.51	14.96	41.44	7.76	16.21	36.16	16.75	14.93	6.13	13.16	4.82	11.73	10.54	10.46	44.67	19.29	5.04	16.01	7.69	18.65	27.80	26.65	20.88	15.56	7.56
	C.V. (%)	2.62	9.28	2.38	5.32	14.73	2.67	4.80	11.93	6.88	5.03	2.42	4.76	1.54	5.67	3.54	4.11	14.60	5.87	1.67	7.19	3.56	6.65	10.85	6.95	9.02	7.61	7.46
	F (Prob)	0.00	0.02	0.00	0.00	0.30	0.00	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.58	0.00	0.00	0.00	0.00	0.12	0.03	0.00	0.01	0.00	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	ALMO	BAJA	KANG	NHZ Mean	LUDH	KARN	PANT	NWPZ Mean	RANC	BHUB	VARA	BAHR	NEPZ Mean	HYDE	KARI	DHAR	MAND	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	VL Popcorn-2	85.0	81.7	74.3	80.3	80.0	103.3	68.0	85.7	73.3	62.0	82.0	63.3	70.2	66.3	63.7	81.3	97.7	77.3	55.0	58.8	55.0	91.6	56.3	63.3	73.3
2	DMRHP 1401	87.5	76.7	68.0	77.4	68.3	80.0	67.0	73.5	68.2	62.7	80.3	82.8	73.5	58.7	60.3	80.7	98.0	74.4	48.3	58.7	61.7	86.1	52.0	61.4	71.0
3	MPC-1-15	107.5	103.3	89.0	99.9	71.7	110.0	98.0	104.0	96.7	64.0	112.0	116.0	97.2	93.0	79.3	90.3	118.7	95.3	81.7	68.9	78.3	109.5	80.3	83.7	94.3
4	IMHP 1540	90.0	73.3	92.0	85.1	61.7	101.7	69.0	85.3	71.1	52.0	73.7	61.9	64.6	70.7	69.7	80.7	103.0	81.0	38.3	60.4	81.7	91.1	57.3	65.8	74.3
5	HPC 1	85.0	65.0	67.0	72.3	90.0	90.0	56.3	73.2	64.1	54.0	72.0	63.6	63.4	60.7	52.7	105.3	97.0	78.9	50.0	67.4	63.3	71.0	49.3	60.2	68.5
6	IMHP 1535	82.5	93.3	73.0	82.9	88.3	91.7	67.3	79.5	68.7	63.0	90.3	65.3	71.8	65.0	62.3	75.7	98.3	75.3	65.0	60.5	73.3	104.4	62.0	73.0	75.6
7	KDPC-2(PC	87.5	83.3	72.0	80.9	93.3	100.0	99.7	99.8	67.3	63.0	88.7	76.6	73.9	60.3	72.3	85.0	100.7	79.6	66.7	55.4	68.3	88.2	68.0	69.3	78.0
8	DMRHP 1402	90.0	80.0	82.3	84.1	70.0	100.0	73.0	86.5	68.6	59.7	90.3	79.4	74.5	67.3	64.0	78.0	97.0	76.6	60.0	59.1	70.0	87.9	59.0	67.2	75.9
9	SJPC1	102.5	116.7	91.0	103.4	65.0	118.3	109.3	113.8	88.1	71.7	121.7	112.7	98.5	84.0	87.0	79.3	117.0	91.8	63.3	73.9	81.7	99.2	78.7	79.4	94.2
	CHECKS																									
10	VL Popcorn	82.5	80.0	83.7	82.1	111.7	105.0	74.7	89.8	69.1	54.3	83.7	95.4	75.6	65.0	61.0	96.7	101.7	81.1	60.0	68.7	65.0	86.3	64.0	68.8	77.6
	Loc. Mean	**90.0**	**85.3**	**79.2**	**84.9**	**80.0**	**100.0**	**78.2**	**89.1**	**73.5**	**60.6**	**89.5**	**81.7**	**76.3**	**69.1**	**67.2**	**85.3**	**102.9**	**81.1**	**58.8**	**63.2**	**69.8**	**91.5**	**62.7**	**69.2**	**78.3**
	C.D. (5%)	11.31	19.43	5.58	13.02	47.23	5.88	9.34	19.56	5.83	4.61	13.05	3.47	12.54	5.09	5.69	25.15	8.07	11.35	5.74	12.92	16.25	20.03	13.91	8.88	5.19
	C.V. (%)	5.56	13.28	4.11	8.94	34.42	3.43	6.96	9.71	4.63	4.43	8.50	2.48	11.33	4.30	4.93	17.19	4.57	9.64	5.69	11.92	13.56	12.76	12.93	10.01	10.08
	F (Prob)	0.01	0.00	0.00	0.00	0.49	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.01	0.00	0.11	0.04	0.04	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : LUDHIANA 34.4%

Table No. 18 (Continued)

		Popping Volume of 100 kernels (ml) (Before Popping)						Popping Volume of 100 kernels (ml) (After Popping)					
S.No.	PEDIGREE	ALMO	DHOL	UDAI	BAJA	GODH	Mean	ALMO	DHOL	UDAI	BAJA	GODH	Mean
1	VL Popcorn-2	17.0	11.0	28.0	16.0	16.0	17.6	312.5	100.0	250.0	350.0	400.0	282.5
2	DMRHP 1401	17.0	12.0	18.0	22.0	12.0	16.2	435.0	300.0	250.0	500.0	150.0	327.0
3	MPC-1-15	17.0	14.0	20.0	28.0	19.5	19.7	240.0	250.0	200.0	560.0	400.0	330.0
4	IMHP 1540	21.5	18.0	17.0	15.0	15.0	17.3	440.0	300.0	300.0	200.0	500.0	348.0
5	HPC 1	16.0	13.0	14.0	13.0	14.5	14.1	300.0	250.0	200.0	300.0	200.0	250.0
6	IMHP 1535	19.5	15.0	14.0	16.0	16.5	16.2	500.0	300.0	400.0	400.0	280.0	376.0
7	KDPC-2(PC)	22.0	19.0	24.0	22.0	20.0	21.4	300.0	400.0	250.0	400.0	350.0	340.0
8	DMRHP 1402	19.0	16.0	15.0	24.0	14.5	17.7	495.0	350.0	500.0	100.0	350.0	359.0
9	SJPC1	19.0	14.0	18.0	18.0	14.0	16.6	350.0	250.0	300.0	300.0	200.0	280.0
	CHECKS												
10	VL Popcorn	14.5	11.0	16.0	23.0	12.0	15.3	340.0	250.0	300.0	520.0	190.0	320.0
	Loc. Mean	18.4	14.7	17.3	20.1	15.3	17.2	377.8	294.4	300.0	364.4	291.1	321.3

		Poping %						Moisture % at the time of popping					
S.No.	PEDIGREE	ALMO	DHOL	UDAI	BAJA	GODH	Mean	ALMO	DHOL	UDAI	BAJA	GODH	Mean
1	VL Popcorn-2	78.0	37.0	67.0	65.0	68.0	63.0	15.4	15.4	15.6	15.4	15.0	15.4
2	DMRHP 1401	68.0	54.0	77.0	86.0	40.5	65.1	14.7	**15.2**	15.4	15.2	15.4	15.2
3	MPC-1-15	58.5	60.0	71.0	75.0	73.5	67.6	15.4	15.4	13.7	15.4	13.7	14.7
4	IMHP 1540	88.0	81.0	96.0	80.0	96.0	88.2	15.4	15.6	15.1	15.6	15.1	15.4
5	HPC 1	73.0	62.0	59.0	77.0	46.0	63.4	15.2	13.7	15.1	13.7	15.3	14.6
6	IMHP 1535	86.5	75.0	95.0	85.0	62.0	80.7	15.2	15.1	15.3	15.1	15.3	15.2
7	KDPC-2(PC)	85.5	73.0	72.0	62.0	80.5	74.6	15.4	15.3	15.4	15.3	15.4	15.4
8	DMRHP 1402	93.0	74.0	96.0	96.0	71.0	86.0	14.4	15.4	15.4	15.4	15.5	15.2
9	SJPC1	81.5	63.0	67.0	92.0	59.0	72.5	15.2	15.4	15.2	15.4	15.4	15.3
	CHECKS												
10	VL Popcorn	66.5	54.0	77.0	76.0	53.0	65.3	15.4	15.6	15.4	15.5	15.4	15.5
	Loc. Mean	77.8	66.2	78.9	81.0	64.6	72.6	15.2	15.2	15.2	15.2	15.1	15.2

TABLE No. 19: PERFORMANCE OF SWEETCORN EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, DHOLI, RANCHI, BHUBANESWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. SC DURING KHARIF (2015)

COB WEIGHT (kg/ha)

					NHZ				NWPZ									NEPZ					PZ							CWZ		OV'L	
S.No.	PEDIGREE	BAJA	R	KANG	R	Mean	R	KARN	R	PANT	R	Mean	R	DHOL	R	RANC	R	VARA	R	BAHR	R	Mean	R	HYDE	R	KARI	R	Mean	R	BANS	R	CHHI	R	GODH	R	Mean	R	Mean	R
1	FSCH 55	9526	6	4955	7	7241	8	8221	9	6528	10	7374	12	3639	5	4911	4	4444	6	7431	6	5106	7	7472	11	8108	9	7790	10	7708	8	2444	11	7604	12	5919	12	6384	9
2	QMHSC-1182	7990	11	4736	9	6363	11	6554	12	8806	8	7680	8	3528	6	4464	6	4097	7	6806	9	4724	10	7611	9	7006	11	7308	11	9097	5	2361	12	8750	9	6736	9	6293	10
3	SJSC1	8841	7	4862	8	6852	9	8528	7	6250	12	7389	11	2653	13	3571	7	3542	9	6667	10	4108	13	9417	6	7533	10	8475	8	5764	13	2167	13	7639	11	5190	13	5956	13
4	ASKH1	13757	1	7536	3	10647	1	9753	3	10972	5	10363	5	3194	8	6250	1	7882	2	6632	11	5990	3	9944	3	11681	3	10813	2	18021	1	4750	2	17014	1	13262	1	9799	1
5	ADVSW-2	8747	10	7808	2	8278	6	10084	2	14306	2	12195	2	4583	1	4643	5	7917	1	9028	2	6543	1	9528	5	11811	2	10669	4	12882	2	4861	1	14965	3	10903	2	9320	2
6	ADVSW-1	11218	4	6112	6	8665	4	9590	4	15444	1	12517	1	3750	4	6250	1	4861	5	8958	3	5955	4	10250	2	14689	1	12469	1	6319	10	3611	6	14688	4	8206	5	8903	3
7	BSCH 6	13231	2	3574	13	8402	5	11103	1	12917	3	12010	3	2667	12	6250	1	3264	11	13507	1	6422	2	7611	9	9961	6	8786	7	9549	4	4417	3	10000	7	7988	6	8311	4
8	FSCH 41	8793	9	6815	5	7804	7	9453	5	11944	4	10699	4	3889	3	4464	6	6736	3	8438	4	5882	5	7528	10	8708	8	8118	9	8715	7	3528	8	7743	10	6662	10	7443	6
9	ASKH4	10761	5	8747	1	9754	2	8023	10	10278	6	9150	6	4083	2	6250	1	5729	4	6285	12	5587	6	10722	1	10808	4	10765	3	7674	9	4028	4	11285	6	7662	7	8052	5
10	FSCH 75	11764	3	7157	4	9461	3	8886	6	9306	7	9096	7	2694	11	5357	3	4028	8	5764	13	4461	11	7972	7	10108	5	9040	6	11354	3	3556	7	6042	13	6984	8	7230	7
	CHECKS																																						
11	Madhuri	7977	12	4416	11	6196	12	7581	11	7361	9	7471	9	3250	7	5357	3	3542	9	7014	8	4791	9	7611	9	6781	12	7196	12	5938	11	3222	9	15556	2	8238	4	6585	8
12	WOSC	5481	13	4167	12	4824	13	8423	8	6389	11	7406	10	2778	9	6071	2	3403	10	7118	7	4843	8	9917	4	8747	7	9332	5	5799	12	3889	5	8854	8	6181	11	6234	11
13	Priya	8821	8	4551	10	6686	10	6184	13	5917	13	6051	13	2750	10	3571	7	2986	12	7708	5	4254	12	7722	8	4125	13	5924	13	8958	6	2778	10	14514	5	8750	3	6199	12
	Loc. Mean	**9762**		**5803**		**7782**		**8645**		**9724**		**9185**		**3343**		**5185**		**4802**		**7796**		**5282**		**8716**		**9236**		**8976**		**9060**		**3509**		**11127**		**7899**		**7439**	
	C.D. (5%)	829.1		729.9		3565.1		366.5		2133.5		3736.3		832.0		-		1190.1		834.1		1955.6		1860.9		807.7		3304.8		1166.5		1389.0		511.8		4206.6		1444.9	
	C.V. (%)	5.0		7.5		21.0		2.5		13.0		18.7		14.8		-		14.7		6.4		25.8		12.7		5.2		16.9		7.6		23.5		2.7		31.6		25.1	
	F (Prob)	0.00		0.00		0.12		0.00		0.00		0.03		0.00		0.00		0.00		0.00		0.18		0.00		0.00		0.04		0.00		0.00		0.00		0.04		0.00	

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 5 31.6%

Table No. 19 (Continued)

COB WEIGHT % SUPERIORITY OVER MADHURI

S.No.	PEDIGREE	BAJA	KANG	NHZ Mean	KARN	PANT	NWPZ Mean	DHOL	RANC	VARA	BAHR	NEPZ Mean	HYDE	KARI	PZ Mean	BANS	CHHI	GODH	CWZ Mean	OV'L Mean
1	FSCH 55	19.4	12.2	16.9	8.4	-11.3	-1.3	12.0	-8.3	25.5	5.9	6.6	-1.8	19.6	8.3	29.8	-24.1	-51.1	-28.2	-3.1
2	QMHSC-1182	0.2	7.2	2.7	-13.5	19.6	2.8	8.6	-16.7	15.7	-3.0	-1.4	0.0	3.3	1.6	53.2	-26.7	-43.8	-18.2	-4.4
3	SJSC1	10.8	10.1	10.6	12.5	-15.1	-1.1	-18.4	-33.3	0.0	-4.9	-14.3	23.7	11.1	17.8	-2.9	-32.7	-50.9	-37.0	-9.6
4	ASKH1	72.5	70.7	71.8	28.7	49.1	38.7	-1.7	16.7	122.5	-5.4	25.0	30.7	72.3	50.3	203.5	47.4	9.4	61.0	48.8
5	ADVSW-2	9.7	76.8	33.6	33.0	94.3	63.2	41.0	-13.3	123.5	28.7	36.6	25.2	74.2	48.3	116.9	50.9	-3.8	32.4	41.5
6	ADVSW-1	40.6	38.4	39.8	26.5	109.8	67.5	15.4	16.7	37.2	27.7	24.3	34.7	116.6	73.3	6.4	12.1	-5.6	-0.4	35.2
7	BSCH 6	65.9	-19.1	35.6	46.5	75.5	60.8	-17.9	16.7	-7.8	92.6	34.0	0.0	46.9	22.1	60.8	37.1	-35.7	-3.0	26.2
8	FSCH 41	10.2	54.3	26.0	24.7	62.3	43.2	19.7	-16.7	90.2	20.3	22.8	-1.1	28.4	12.8	46.8	9.5	-50.2	-19.1	13.0
9	ASKH4	34.9	98.1	57.4	5.8	39.6	22.5	25.6	16.7	61.7	-10.4	16.6	40.9	59.4	49.6	29.2	25.0	-27.5	-7.0	22.3
10	FSCH 75	47.5	62.1	52.7	17.2	26.4	21.8	-17.1	0.0	13.7	-17.8	-6.9	4.7	49.1	25.6	91.2	10.4	-61.2	-15.2	9.8
	CHECKS																			
11	Madhuri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	WOSC	-31.3	-5.6	-22.1	11.1	-13.2	-0.9	-14.5	13.3	-3.9	1.5	1.1	30.3	29.0	29.7	-2.3	20.7	-43.1	-25.0	-5.3
13	Priya	10.6	3.1	7.9	-18.4	-19.6	-19.0	-15.4	-33.3	-15.7	9.9	-11.2	1.5	-39.2	-17.7	50.9	-13.8	-6.7	6.2	-5.9

COB WEIGHT % SUPERIORITY OVER WOSC

S.No.	PEDIGREE	BAJA	KANG	NHZ Mean	KARN	PANT	NWPZ Mean	DHOL	RANC	VARA	BAHR	NEPZ Mean	HYDE	KARI	PZ Mean	BANS	CHHI	GODH	CWZ Mean	OV'L Mean
1	FSCH 55	73.8	18.9	50.1	-2.4	2.2	-0.4	31.0	-19.1	30.6	4.4	5.4	-24.7	-7.3	-16.5	32.9	-37.2	-14.1	-4.2	2.4
2	QMHSC-1182	45.8	13.7	31.9	-22.2	37.8	3.7	27.0	-26.5	20.4	-4.4	-2.5	-23.3	-19.9	-21.7	56.9	-39.3	-1.2	9.0	0.9
3	SJSC1	61.3	16.7	42.0	1.2	-2.2	-0.2	-4.5	-41.2	4.1	-6.3	-15.2	-5.0	-13.9	-9.2	-0.6	-44.3	-13.7	-16.0	-4.5
4	ASKH1	151.0	80.8	120.7	15.8	71.7	39.9	15.0	2.9	131.6	-6.8	23.7	0.3	33.5	15.9	210.8	22.1	92.2	114.6	57.2
5	ADVSW-2	59.6	87.4	71.6	19.7	123.9	64.7	65.0	-23.5	132.6	26.8	35.1	-3.9	35.0	14.3	122.1	25.0	69.0	76.4	49.5
6	ADVSW-1	104.7	46.7	79.6	13.9	141.7	69.0	35.0	2.9	42.8	25.8	23.0	3.4	67.9	33.6	9.0	-7.1	65.9	32.8	42.8
7	BSCH 6	141.4	-14.2	74.2	31.8	102.2	62.2	-4.0	2.9	-4.1	89.8	32.6	-23.3	13.9	-5.9	64.7	13.6	12.9	29.2	33.3
8	FSCH 41	60.4	63.5	61.8	12.2	86.9	44.5	40.0	-26.5	97.9	18.5	21.5	-24.1	-0.4	-13.0	50.3	-9.3	-12.5	7.8	19.4
9	ASKH4	96.3	109.9	102.2	-4.7	60.9	23.5	47.0	2.9	68.4	-11.7	15.4	8.1	23.6	15.4	32.3	3.6	27.5	24.0	29.2
10	FSCH 75	114.6	71.8	96.1	5.5	45.7	22.8	-3.0	-11.8	18.4	-19.0	-7.9	-19.6	15.6	-3.1	95.8	-8.6	-31.8	13.0	16.0
	CHECKS																			
11	Madhuri	45.5	6.0	28.4	-10.0	15.2	0.9	17.0	-11.8	4.1	-1.5	-1.1	-23.3	-22.5	-22.9	2.4	-17.2	75.7	33.3	5.6
12	WOSC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	Priya	60.9	9.2	38.6	-26.6	-7.4	-18.3	-1.0	-41.2	-12.3	8.3	-12.2	-22.1	-52.8	-36.5	54.5	-28.6	63.9	41.6	-0.6

Table No. 19 (Continued)

		COB WEIGHT % SUPERIORITY OVER PRIYA																		
				NHZ			NWPZ					NEPZ			PZ				CWZ	OV'L
S.No.	PEDIGREE	BAJA	KANG	Mean	KARN	PANT	Mean	DHOL	RANC	VARA	BAHR	Mean	HYDE	KARI	Mean	BANS	CHHI	GODH	Mean	Mean
1	FSCH 55	8.0	8.9	8.3	32.9	10.3	21.9	32.3	37.5	48.8	-3.6	20.0	-3.2	96.6	31.5	-14.0	-12.0	-47.6	-32.4	3.0
2	QMHSC-1182	-9.4	4.1	-4.8	6.0	48.8	26.9	28.3	25.0	37.2	-11.7	11.0	-1.4	69.8	23.4	1.6	-15.0	-39.7	-23.0	1.5
3	SJSC1	0.2	6.8	2.5	37.9	5.6	22.1	-3.5	0.0	18.6	-13.5	-3.4	22.0	82.6	43.1	-35.7	-22.0	-47.4	-40.7	-3.9
4	ASKH1	56.0	65.6	59.2	57.7	85.4	71.3	16.1	75.0	164.0	-14.0	40.8	28.8	183.2	82.5	101.2	71.0	17.2	51.6	58.1
5	ADVSW-2	-0.8	71.6	23.8	63.1	141.8	101.5	66.7	30.0	165.1	17.1	53.8	23.4	186.3	80.1	43.8	75.0	3.1	24.6	50.3
6	ADVSW-1	27.2	34.3	29.6	55.1	161.0	106.9	36.4	75.0	62.8	16.2	40.0	32.7	256.1	110.5	-29.5	30.0	1.2	-6.2	43.6
7	BSCH 6	50.0	-21.5	25.7	79.5	118.3	98.5	-3.0	75.0	9.3	75.2	51.0	-1.4	141.5	48.3	6.6	59.0	-31.1	-8.7	34.1
8	FSCH 41	-0.3	49.7	16.7	52.9	101.9	76.8	41.4	25.0	125.6	9.5	38.3	-2.5	111.1	37.0	-2.7	27.0	-46.7	-23.9	20.1
9	ASKH4	22.0	92.2	45.9	29.7	73.7	51.2	48.5	75.0	91.9	-18.5	31.3	38.9	162.0	81.7	-14.3	45.0	-22.2	-12.4	29.9
10	FSCH 75	33.4	57.3	41.5	43.7	57.3	50.3	-2.0	50.0	34.9	-25.2	4.9	3.2	145.0	52.6	26.7	28.0	-58.4	-20.2	16.6
	CHECKS																			
11	Madhuri	-9.6	-3.0	-7.3	22.6	24.4	23.5	18.2	50.0	18.6	-9.0	12.6	-1.4	64.4	21.5	-33.7	16.0	7.2	-5.9	6.2
12	WOSC	-37.9	-8.4	-27.8	36.2	8.0	22.4	1.0	70.0	14.0	-7.7	13.8	28.4	112.0	57.5	-35.3	40.0	-39.0	-29.4	0.6
13	Priya	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 5 31.6%

Table No. 19 (Continued)

S.No.	PEDIGREE	Green Ear Yield (kg/ha)																																					
		NHZ								NWPZ												NEPZ								PZ								CWZ		OV'L	
		BAJA	R	LUDH	R	KARN	R	PANT	R	Mean	R	DHOL	R	RANC	R	BHUB	R	VARA	R	BAHR	R	Mean	R	DHAR	R	MAND	R	COIM	R	Mean	R	UDAI	R	AMBI	R	GODH	R	Mean	R	Mean	R
1	FSCH 55	12032	11	12569	8	11051	9	8833	11	10818	10	5750	5	13839	3	12257	2	6007	8	11250	4	9821	3	17153	2	16190	4	15852	11	16399	7	8889	4	6944	12	10903	11	8912	11	11301	9
2	QMHSC-1182	13005	10	9479	12	10001	12	13125	6	10868	9	5611	6	12946	4	10972	4	6354	6	8542	11	8885	7	14375	8	16548	3	20868	5	17264	3	5816	13	14028	3	11493	9	10446	9	11544	7
3	SJSC1	13240	8	10069	11	12941	6	11042	8	11351	8	4167	13	10714	9	12674	1	5625	9	9479	8	8532	9	16840	3	12381	11	15974	10	15065	11	8837	5	8160	9	10938	10	9311	10	10872	10
4	ASKH1	17392	3	13056	7	13520	5	14583	5	13720	6	5389	8	12054	6	11250	3	10035	1	10278	7	9801	4	13889	10	15506	5	16120	9	15172	10	11806	2	15625	2	20208	2	15880	1	13381	4
5	ADVSW-2	15738	5	18403	1	14476	2	15208	4	16029	3	7361	1	14732	2	10764	5	9965	2	12326	3	11030	1	13229	12	16667	2	25590	1	18495	2	8247	7	10451	7	20243	1	12980	2	14227	2
6	ADVSW-1	17898	2	16701	3	13608	4	20208	1	16839	2	6000	4	12277	5	9792	8	6944	5	15139	2	10030	2	16736	4	17143	1	23523	3	19134	1	8594	6	10972	6	19097	4	12888	3	14309	1
7	BSCH 6	20407	1	17951	2	15504	1	17167	2	16874	1	4611	11	12054	6	9757	9	5278	10	17083	1	9757	5	15694	5	15387	6	17405	8	16162	8	8184	8	13958	4	13125	7	11756	6	13571	3
8	FSCH 41	16614	4	14722	5	13710	3	15833	3	14755	4	6861	2	11384	7	10069	7	8993	3	11076	6	9677	6	14236	9	14137	8	21545	4	16639	6	7656	9	17465	1	10660	12	11927	5	12998	5
9	ASKH4	15331	6	16111	4	10820	10	15208	4	14046	5	6389	3	12946	4	9375	10	7569	4	7361	12	8728	8	14653	6	12679	10	23750	2	17027	5	12153	1	11840	5	13993	6	12662	4	12679	6
10	FSCH 75	14323	7	13646	6	12182	7	13125	6	12984	7	4944	9	12946	4	10243	6	6042	7	7257	13	8287	11	17639	1	14583	7	19406	7	17209	4	9722	3	7569	10	9271	13	8854	12	11527	8
	CHECKS																																								
11	Madhuri	13092	9	10139	10	10288	11	11458	7	10628	12	5417	7	15179	1	7882	12	4826	12	8681	10	8397	10	13368	11	10952	13	14677	13	12999	13	7378	10	8333	8	18993	5	11568	7	10711	11
12	WOSC	11456	12	10451	9	11217	8	10625	9	10764	11	4583	12	11161	8	9063	11	5174	11	9132	9	7822	12	14375	8	12768	9	19513	6	15552	9	6944	12	7049	11	11944	8	8646	13	10364	12
13	Priya	9966	13	6042	13	9786	13	9375	10	8401	13	4833	10	8482	10	7847	13	4410	13	11111	5	7337	13	14549	7	11845	12	15328	12	13907	12	7101	11	5174	13	19132	3	10469	8	9665	13
	Loc. Mean	**14653**		**13026**		**12239**		**13522**		**12929**		**5532**		**12363**		**10150**		**6709**		**10670**		**9085**		**15134**		**14368**		**19196**		**16233**		**8564**		**10582**		**14615**		**11254**		**12088**	
	C.D. (5%)	1685		2562		430		1734		2924		1162		1053		643		1524		1311		2264		4966		1327		755		3932		914		1320		453		5624		1665	
	C.V. (%)	6.82		11.67		2.09		7.61		13.42		12.47		5.05		3.76		13.48		7.29		19.60		19.47		5.48		2.34		14.38		6.33		7.40		1.84		29.66		19.10	
	F (Prob)	0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.00		0.10		0.67		0.00		0.00		0.15		0.00		0.00		0.00		0.35		0.00	

Table No. 19 (Continued)

Green Ear Yield % superiority over MADHURI

S.No.	PEDIGREE	NHZ BAJA	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	DHAR	MAND	COIM	PZ Mean	UDAI	AMBI	GODH	CWZ Mean	OV'L Mean
1	FSCH 55	-8.1	24.0	7.4	-22.9	1.8	6.1	-8.8	55.5	24.5	29.6	17.0	28.3	47.8	8.0	26.2	20.5	-16.7	-42.6	-23.0	5.5
2	QMHSC-1182	-0.7	-6.5	-2.8	14.5	2.3	3.6	-14.7	39.2	31.7	-1.6	5.8	7.5	51.1	42.2	32.8	-21.2	68.3	-39.5	-9.7	7.8
3	SJSC1	1.1	-0.7	25.8	-3.6	6.8	-23.1	-29.4	60.8	16.6	9.2	1.6	26.0	13.0	8.8	15.9	19.8	-2.1	-42.4	-19.5	1.5
4	ASKH1	32.8	28.8	31.4	27.3	29.1	-0.5	-20.6	42.7	107.9	18.4	16.7	3.9	41.6	9.8	16.7	60.0	87.5	6.4	37.3	24.9
5	ADVSW-2	20.2	81.5	40.7	32.7	50.8	35.9	-2.9	36.6	106.5	42.0	31.4	-1.0	52.2	74.4	42.3	11.8	25.4	6.6	12.2	32.8
6	ADVSW-1	36.7	64.7	32.3	76.4	58.4	10.8	-19.1	24.2	43.9	74.4	19.4	25.2	56.5	60.3	47.2	16.5	31.7	0.5	11.4	33.6
7	BSCH 6	55.9	77.0	50.7	49.8	58.8	-14.9	-20.6	23.8	9.4	96.8	16.2	17.4	40.5	18.6	24.3	10.9	67.5	-30.9	1.6	26.7
8	FSCH 41	26.9	45.2	33.3	38.2	38.8	26.7	-25.0	27.7	86.3	27.6	15.2	6.5	29.1	46.8	28.0	3.8	109.6	-43.9	3.1	21.4
9	ASKH4	17.1	58.9	5.2	32.7	32.2	17.9	-14.7	18.9	56.8	-15.2	3.9	9.6	15.8	61.8	31.0	64.7	42.1	-26.3	9.5	18.4
10	FSCH 75	9.4	34.6	18.4	14.5	22.2	-8.7	-14.7	30.0	25.2	-16.4	-1.3	31.9	33.2	32.2	32.4	31.8	-9.2	-51.2	-23.5	7.6
	CHECKS																				
11	Madhuri	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	WOSC	-12.5	3.1	9.0	-7.3	1.3	-15.4	-26.5	15.0	7.2	5.2	-6.8	7.5	16.6	32.9	19.6	-5.9	-15.4	-37.1	-25.3	-3.2
13	Priya	-23.9	-40.4	-4.9	-18.2	-21.0	-10.8	-44.1	-0.4	-8.6	28.0	-12.6	8.8	8.2	4.4	7.0	-3.8	-37.9	0.7	-9.5	-9.8

Green Ear Yield % superiority over WOSC

S.No.	PEDIGREE	NHZ BAJA	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	DHAR	MAND	COIM	PZ Mean	UDAI	AMBI	GODH	CWZ Mean	OV'L Mean
1	FSCH 55	5.0	20.3	-1.5	-16.9	0.5	25.5	24.0	35.2	16.1	23.2	25.6	19.3	26.8	-18.8	5.4	28.0	-1.5	-8.7	3.1	9.0
2	QMHSC-1182	13.5	-9.3	-10.8	23.5	1.0	22.4	16.0	21.1	22.8	-6.5	13.6	0.0	29.6	6.9	11.0	-16.2	99.0	-3.8	20.8	11.4
3	SJSC1	15.6	-3.7	15.4	3.9	5.5	-9.1	-4.0	39.8	8.7	3.8	9.1	17.1	-3.0	-18.1	-3.1	27.3	15.8	-8.4	7.7	4.9
4	ASKH1	51.8	24.9	20.5	37.3	27.5	17.6	8.0	24.1	94.0	12.5	25.3	-3.4	21.4	-17.4	-2.4	70.0	121.7	69.2	83.7	29.1
5	ADVSW-2	37.4	76.1	29.1	43.1	48.9	60.6	32.0	18.8	92.6	35.0	41.0	-8.0	30.5	31.1	18.9	18.8	48.3	69.5	50.1	37.3
6	ADVSW-1	56.2	59.8	21.3	90.2	56.4	30.9	10.0	8.0	34.2	65.8	28.2	16.4	34.3	20.6	23.0	23.8	55.7	59.9	49.1	38.1
7	BSCH 6	78.1	71.8	38.2	61.6	56.8	0.6	8.0	7.7	2.0	87.1	24.7	9.2	20.5	-10.8	3.9	17.9	98.0	9.9	36.0	30.9
8	FSCH 41	45.0	40.9	22.2	49.0	37.1	49.7	2.0	11.1	73.8	21.3	23.7	-1.0	10.7	10.4	7.0	10.3	147.8	-10.8	37.9	25.4
9	ASKH4	33.8	54.2	-3.5	43.1	30.5	39.4	16.0	3.4	46.3	-19.4	11.6	1.9	-0.7	21.7	9.5	75.0	68.0	17.2	46.4	22.3
10	FSCH 75	25.0	30.6	8.6	23.5	20.6	7.9	16.0	13.0	16.8	-20.5	5.9	22.7	14.2	-0.5	10.7	40.0	7.4	-22.4	2.4	11.2
	CHECKS																				
11	Madhuri	14.3	-3.0	-8.3	7.8	-1.3	18.2	36.0	-13.0	-6.7	-4.9	7.4	-7.0	-14.2	-24.8	-16.4	6.3	18.2	59.0	33.8	3.3
12	WOSC	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
13	Priya	-13.0	-42.2	-12.8	-11.8	-22.0	5.5	-24.0	-13.4	-14.8	21.7	-6.2	1.2	-7.2	-21.4	-10.6	2.3	-26.6	60.2	21.1	-6.7

Table No. 19 (Continued)

		Green Ear Yield % superiority over Priya																			
		NHZ				NWPZ						NEPZ				PZ				CWZ	OV'L
S.No.	PEDIGREE	BAJA	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	DHAR	MAND	COIM	Mean	UDAI	AMBI	GODH	Mean	Mean
1	FSCH 55	20.7	108.0	12.9	-5.8	28.8	19.0	63.2	56.2	36.2	1.3	33.9	17.9	36.7	3.4	17.9	25.2	34.2	-43.0	-14.9	16.9
2	QMHSC-1182	30.5	56.9	2.2	40.0	29.4	16.1	52.6	39.8	44.1	-23.1	21.1	-1.2	39.7	36.1	24.1	-18.1	171.1	-39.9	-0.2	19.4
3	SJSC1	32.9	66.7	32.2	17.8	35.1	-13.8	26.3	61.5	27.6	-14.7	16.3	15.7	4.5	4.2	8.3	24.4	57.7	-42.8	-11.1	12.5
4	ASKH1	74.5	116.1	38.2	55.6	63.3	11.5	42.1	43.4	127.6	-7.5	33.6	-4.5	30.9	5.2	9.1	66.3	202.0	5.6	51.7	38.4
5	ADVSW-2	57.9	204.6	47.9	62.2	90.8	52.3	73.7	37.2	126.0	10.9	50.3	-9.1	40.7	66.9	33.0	16.1	102.0	5.8	24.0	47.2
6	ADVSW-1	79.6	176.4	39.1	115.6	100.4	24.1	44.7	24.8	57.5	36.3	36.7	15.0	44.7	53.5	37.6	21.0	112.1	-0.2	23.1	48.0
7	BSCH 6	104.8	197.1	58.4	83.1	100.9	-4.6	42.1	24.3	19.7	53.7	33.0	7.9	29.9	13.6	16.2	15.3	169.8	-31.4	12.3	40.4
8	FSCH 41	66.7	143.7	40.1	68.9	75.6	42.0	34.2	28.3	103.9	-0.3	31.9	-2.2	19.3	40.6	19.6	7.8	237.6	-44.3	13.9	34.5
9	ASKH4	53.8	166.7	10.6	62.2	67.2	32.2	52.6	19.5	71.6	-33.8	19.0	0.7	7.0	54.9	22.4	71.1	128.8	-26.9	20.9	31.2
10	FSCH 75	43.7	125.9	24.5	40.0	54.6	2.3	52.6	30.5	37.0	-34.7	12.9	21.2	23.1	26.6	23.7	36.9	46.3	-51.5	-15.4	19.3
	CHECKS																				
11	Madhuri	31.4	67.8	5.1	22.2	26.5	12.1	79.0	0.4	9.4	-21.9	14.4	-8.1	-7.5	-4.2	-6.5	3.9	61.1	-0.7	10.5	10.8
12	WOSC	15.0	73.0	14.6	13.3	28.1	-5.2	31.6	15.5	17.3	-17.8	6.6	-1.2	7.8	27.3	11.8	-2.2	36.2	-37.6	-17.4	7.2
13	Priya	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Table No. 19 (Continued)

STAND AT HARVEST ('000/ha)

S.No.	PEDIGREE	BAJA	KANG	NHZ Mean	LUDH	KARN	PANT	NWPZ Mean	DHOL	RANC	BHUB	VARA	BAHR	NEPZ Mean	HYDE	KARI	DHAR	MAND	COIM	PZ Mean	UDAI	BANS	CHHI	AMBI	GODH	CWZ Mean	OV'L Mean
1	FSCH 55	50.5	71.8	61.1	62.8	61.7	54.4	59.7	56.4	57.4	63.2	59.0	67.7	60.8	55.3	44.7	53.8	59.5	66.7	56.0	49.0	62.5	47.5	64.9	44.1	53.6	57.6
2	QMHSC-1182	57.9	70.0	63.9	68.1	61.7	55.3	61.7	60.8	66.4	61.5	64.2	67.0	64.0	58.6	58.9	54.2	59.5	66.3	59.5	43.8	61.1	57.2	80.2	64.9	61.4	61.9
3	SJSC1	52.3	75.2	63.8	55.2	63.3	54.4	57.7	58.3	57.7	61.1	55.6	65.6	59.7	60.0	48.1	52.4	59.2	66.0	57.1	56.6	58.0	48.1	67.0	45.8	55.1	58.0
4	ASKH1	67.1	74.1	70.6	70.5	62.5	56.7	63.2	62.2	65.8	61.8	69.1	65.6	64.9	58.1	66.1	54.2	60.4	66.3	61.0	60.1	61.8	62.2	83.7	71.2	67.8	65.0
5	ADVSW-2	52.3	71.8	62.0	52.1	60.8	55.3	56.1	51.9	50.0	59.0	61.1	62.8	57.0	53.6	40.6	52.8	60.4	66.0	54.7	37.5	59.0	34.4	73.3	47.2	50.3	55.1
6	ADVSW-1	53.7	70.0	61.9	46.9	61.7	55.3	54.6	55.6	56.3	63.5	59.4	60.1	59.0	52.2	46.4	56.3	60.4	66.7	56.4	35.8	62.8	37.5	74.0	44.4	50.9	55.9
7	BSCH 6	64.8	75.8	70.3	60.4	64.2	56.7	60.4	59.2	63.1	61.1	69.8	69.8	64.6	57.2	61.7	58.3	61.9	66.7	61.2	42.4	59.0	57.5	78.5	61.5	59.8	62.5
8	FSCH 41	55.1	77.0	66.0	51.7	63.3	55.0	56.7	61.4	55.7	62.2	60.4	59.0	59.7	52.2	30.6	50.3	58.9	66.3	51.7	39.2	59.7	33.9	87.2	35.8	51.2	55.7
9	ASKH4	63.4	71.8	67.6	68.1	61.7	55.8	61.9	66.7	62.2	61.5	67.7	59.7	63.6	53.3	54.7	54.2	57.1	66.7	57.2	58.0	58.7	50.8	78.1	61.5	61.4	61.6
10	FSCH 75	51.9	70.6	61.2	64.9	63.3	52.8	60.3	61.4	58.0	60.8	59.0	63.2	60.5	53.1	52.2	54.2	60.7	66.3	57.3	48.6	60.1	45.0	68.4	44.4	53.3	57.9
	CHECKS																										
11	Madhuri	55.1	72.3	63.7	68.8	62.5	55.6	62.3	55.0	63.1	63.9	63.5	59.4	61.0	55.6	55.3	52.4	60.1	66.3	57.9	43.8	59.0	55.3	70.5	63.5	58.4	60.0
12	WOSC	49.1	74.1	61.6	56.3	63.3	56.7	58.8	61.4	63.4	61.5	60.8	63.2	62.0	59.4	55.0	53.5	58.6	66.7	58.6	49.3	59.4	54.2	66.0	46.2	55.0	58.9
13	Priya	48.1	71.2	59.7	54.9	61.7	56.7	57.7	62.2	58.3	62.8	59.7	67.4	62.1	56.7	55.8	55.6	67.3	66.7	60.4	42.7	62.5	54.2	56.9	56.6	54.6	58.9
	Loc. Mean	**55.5**	**72.7**	**64.1**	**60.0**	**62.4**	**55.4**	**59.3**	**59.4**	**59.8**	**61.8**	**62.3**	**63.9**	**61.4**	**55.8**	**51.5**	**54.0**	**60.3**	**66.4**	**57.6**	**46.7**	**60.3**	**49.1**	**73.0**	**52.9**	**56.4**	**59.2**
	C.D. (5%)	4.90	2.91	9.14	9.96	-	3.40	7.63	6.40	8.45	4.58	5.42	4.16	4.14	5.55	2.48	4.23	3.74	0.73	5.35	5.88	6.57	11.74	4.24	8.20	9.07	3.02
	C.V. (%)	5.25	2.38	6.54	9.84	-	3.64	7.64	6.39	8.39	4.39	5.16	3.86	5.30	5.90	2.85	4.65	3.68	0.66	7.31	7.48	6.47	14.20	3.45	9.21	12.66	8.18
	F (Prob)	0.00	0.00	0.28	0.00	-	0.51	0.46	0.01	0.02	0.74	0.00	0.00	0.01	0.06	0.00	0.10	0.00	0.42	0.04	0.00	0.86	0.00	0.00	0.00	0.01	0.00

TSS%

S.No.	PEDIGREE	BAJA	KANG	NHZ Mean	PANT	RANC	NEPZ Mean	HYDE	KARI	DHAR	PZ Mean	CWZ GODH	OV'L Mean
1	FSCH 55	14.3	14.2	14.3	13.6	13.0	13.0	13.3	13.4	13.8	13.5	13.7	13.7
2	QMHSC-1182	12.7	14.7	13.7	16.1	13.8	13.8	14.5	14.4	12.6	13.8	15.4	14.2
3	SJSC1	15.7	14.9	15.3	18.0	13.0	13.0	15.8	15.6	14.5	15.3	18.0	15.7
4	ASKH1	16.7	14.9	15.8	16.9	12.8	12.8	18.4	18.2	13.1	16.6	14.6	15.7
5	ADVSW-2	12.7	13.4	13.0	17.1	13.4	13.4	13.6	13.5	13.9	13.7	13.6	13.9
6	ADVSW-1	13.7	15.1	14.4	15.7	11.6	11.6	14.6	14.5	15.2	14.8	13.7	14.3
7	BSCH 6	16.3	15.1	15.7	15.5	15.0	15.0	16.6	16.5	13.3	15.5	14.1	15.3
8	FSCH 41	14.0	11.9	13.0	16.9	14.3	14.3	13.3	13.2	14.3	13.6	10.8	13.6
9	ASKH4	14.7	13.5	14.1	17.2	12.5	12.5	16.4	16.4	15.0	15.9	20.1	15.7
10	FSCH 75	13.7	16.2	14.9	14.7	12.3	12.3	16.8	16.8	17.2	16.9	14.9	15.3
	CHECKS												
11	Madhuri	16.0	16.2	16.1	16.4	14.0	14.0	16.9	16.8	17.7	17.1	15.5	16.2
12	WOSC	15.7	15.6	15.6	16.4	13.8	13.8	15.0	14.9	12.3	14.1	16.7	15.0
13	Priya	15.3	18.1	16.7	15.8	13.1	13.1	16.9	16.8	14.4	16.0	-	15.8
	Loc. Mean	**14.7**	**14.9**	**14.8**	**16.2**	**13.3**	**13.3**	**15.6**	**15.5**	**14.4**	**15.1**	**15.1**	**14.9**
	C.D. (5%)	1.04	0.26	2.49	1.30	1.11	1.11	1.01	0.18	3.60	1.88	0.00	1.34
	C.V. (%)	4.19	1.02	7.72	4.79	4.98	4.98	3.84	0.70	14.83	7.35	0.00	9.02
	F (Prob)	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00

NO. OF COBS ('000/ha)

S.No.	PEDIGREE	PANT	DHOL	NEPZ Mean	HYDE	KARI	MAND	COIM	PZ Mean	CWZ GODH	OV'L Mean
1	FSCH 55	49.2	50.8	50.8	50.0	48.6	60.1	67.0	56.4	63.2	55.6
2	QMHSC-1182	54.4	54.7	54.7	52.8	54.2	58.6	66.7	58.1	69.8	58.7
3	SJSC1	57.5	53.6	53.6	58.3	54.2	60.4	67.7	60.2	64.6	59.5
4	ASKH1	58.6	58.1	58.1	58.3	66.4	60.7	67.4	63.2	94.8	66.3
5	ADVSW-2	58.3	47.8	47.8	48.1	49.2	75.3	67.0	59.9	58.0	57.7
6	ADVSW-1	59.2	50.6	50.6	49.7	54.2	65.5	66.7	59.0	74.3	60.0
7	BSCH 6	54.7	50.8	50.8	56.4	57.2	67.9	67.0	62.1	67.0	60.2
8	FSCH 41	60.0	56.4	56.4	48.3	45.8	66.4	67.7	57.1	46.5	55.9
9	ASKH4	58.1	59.7	59.7	54.2	56.7	58.3	67.0	59.0	67.0	60.1
10	FSCH 75	53.6	55.0	55.0	49.2	55.6	60.7	67.4	58.2	61.1	57.5
	CHECKS										
11	Madhuri	55.8	50.0	50.0	52.2	61.4	60.4	66.7	60.2	74.7	60.2
12	WOSC	61.7	56.4	56.4	55.6	67.8	60.1	66.7	62.5	76.7	63.6
13	Priya	63.1	55.6	55.6	57.5	56.9	69.3	67.0	62.7	72.2	63.1
	Loc. Mean	**57.2**	**53.8**	**53.8**	**53.1**	**56.0**	**63.4**	**67.1**	**59.9**	**68.5**	**59.9**
	C.D. (5%)	6.76	5.86	5.86	4.28	2.78	3.66	0.91	6.55	4.88	5.69
	C.V. (%)	7.00	6.47	6.47	4.78	2.94	3.43	0.81	7.62	4.23	8.92
	F (Prob)	0.03	0.01	0.01	0.00	0.00	0.00	0.23	0.52	0.00	0.02

Table No. 19 (Continued)

		DAYS TO 50% POLLEN SHED																								
				NHZ				NWPZ						NEPZ						PZ					CWZ	OV'L
S.No.	PEDIGREE	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	FSCH 55	60.0	53.0	56.5	51.0	51.7	54.7	52.4	52.0	53.7	50.0	52.3	50.0	51.6	55.7	51.0	50.3	48.0	49.0	50.8	60.3	60.7	55.0	51.0	56.8	53.1
2	QMHSC-1182	56.0	49.7	52.8	47.3	49.7	49.0	48.7	48.3	48.0	48.0	49.0	48.3	48.3	53.3	49.0	44.0	46.0	46.3	47.7	56.3	60.3	50.3	44.0	52.8	49.6
3	SJSC1	52.3	46.7	49.5	45.7	49.3	49.7	48.2	51.0	47.0	49.3	48.0	47.3	48.5	50.7	48.7	43.3	45.0	45.7	46.7	54.0	59.3	48.0	42.0	50.8	48.6
4	ASKH1	59.3	50.0	54.7	46.0	47.3	50.0	47.8	49.0	48.7	47.0	46.3	43.7	46.9	52.0	49.3	46.3	46.7	46.3	48.1	53.3	58.7	51.0	40.7	50.9	49.0
5	ADVSW-2	59.7	58.0	58.8	52.7	52.7	55.0	53.4	50.3	50.0	50.0	53.0	53.7	51.4	59.0	54.3	46.7	50.7	47.0	51.5	61.7	62.0	55.7	51.0	57.6	53.8
6	ADVSW-1	61.3	55.3	58.3	52.0	51.3	54.3	52.6	51.7	49.7	53.0	55.7	54.3	52.9	57.0	53.7	47.7	50.0	51.3	51.9	63.3	61.7	55.7	51.0	57.9	54.2
7	BSCH 6	57.7	54.0	55.8	49.3	50.0	53.7	51.0	51.3	56.7	50.7	54.7	50.3	52.7	56.7	52.7	53.7	49.7	48.3	52.2	57.3	61.0	56.0	44.0	54.6	53.0
8	FSCH 41	58.3	54.0	56.2	49.3	50.0	53.0	50.8	51.0	53.3	50.7	50.0	46.3	50.3	53.7	50.0	49.3	48.0	50.0	50.2	55.7	59.0	51.3	42.0	52.0	51.3
9	ASKH4	56.0	50.0	53.0	49.0	50.0	50.0	49.7	51.7	48.0	51.0	51.7	55.7	51.6	55.3	52.3	43.7	47.0	47.3	49.1	57.7	59.3	52.0	44.7	53.4	51.2
10	FSCH 75	59.3	50.7	55.0	49.0	51.0	50.7	50.2	52.0	52.0	53.0	52.3	47.7	51.4	54.0	50.0	46.0	47.0	47.0	48.8	59.3	60.0	54.3	45.0	54.7	51.6
	CHECKS																									
11	Madhuri	54.0	49.3	51.7	47.0	47.0	50.3	48.1	51.0	47.3	49.0	48.3	45.3	48.2	51.0	50.0	44.3	45.0	45.3	47.1	53.3	58.7	48.3	42.3	50.7	48.8
12	WOSC	56.0	51.7	53.8	48.0	50.7	52.3	50.3	52.3	47.7	50.3	46.7	52.3	49.9	53.0	50.3	48.0	45.0	46.3	48.5	56.0	58.7	51.7	45.0	52.8	50.6
13	Priya	59.0	49.0	54.0	47.0	49.3	49.0	48.4	50.0	48.3	49.0	48.3	45.7	48.3	51.0	48.3	45.3	45.0	46.0	47.1	56.3	59.0	49.7	41.0	51.5	49.3
	Loc. Mean	**57.6**	**51.6**	**54.6**	**48.7**	**50.0**	**51.7**	**50.1**	**50.9**	**50.0**	**50.1**	**50.5**	**49.3**	**50.2**	**54.0**	**50.7**	**46.8**	**47.2**	**47.4**	**49.2**	**57.3**	**59.9**	**52.2**	**44.9**	**53.6**	**51.1**
	C.D. (5%)	3.40	1.54	3.64	1.93	1.05	1.46	1.62	3.09	1.24	1.72	1.61	2.15	2.69	2.28	1.55	6.53	2.04	1.02	1.81	1.12	1.55	1.59	0.46	2.22	1.07
	C.V. (%)	3.50	1.77	3.06	2.35	1.25	1.68	1.91	3.60	1.47	2.04	1.89	2.59	4.23	2.50	1.81	8.27	2.56	1.27	2.89	1.16	1.53	1.81	0.61	2.89	3.29
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
		DAYS TO 50% SILKING																								
				NHZ				NWPZ						NEPZ						PZ					CWZ	OV'L
S.No.	PEDIGREE	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	FSCH 55	62.3	56.0	59.2	53.7	53.7	57.7	55.0	54.3	57.7	53.0	54.7	51.3	54.2	58.0	51.3	52.7	49.0	51.0	52.4	62.3	61.7	57.0	53.0	58.5	55.3
2	QMHSC-1182	58.0	53.3	55.7	49.3	52.7	52.0	51.3	52.3	52.0	51.0	54.0	50.3	51.9	55.0	50.3	51.3	48.0	48.3	50.6	57.7	61.3	52.7	46.0	54.4	52.4
3	SJSC1	55.0	50.3	52.7	47.7	52.3	52.7	50.9	53.7	51.3	52.3	52.7	49.7	51.9	53.0	50.3	53.0	47.7	47.7	50.3	56.0	60.3	51.7	44.0	53.0	51.6
4	ASKH1	61.7	53.0	57.3	48.0	49.3	52.3	49.9	52.0	52.7	50.0	50.3	45.7	50.1	54.0	50.3	52.0	48.3	48.3	50.6	54.7	59.7	53.3	43.0	52.7	51.5
5	ADVSW-2	62.0	61.3	61.7	54.7	54.7	59.3	56.2	52.7	54.3	53.0	56.3	54.3	54.1	61.0	56.7	55.7	52.3	49.0	54.9	63.3	63.0	58.3	53.0	59.4	56.6
6	ADVSW-1	63.7	58.7	61.2	54.3	54.3	57.3	55.3	54.3	53.7	56.0	59.0	56.3	55.9	59.0	55.3	54.7	50.3	53.3	54.5	64.3	62.7	58.0	53.0	59.5	56.8
7	BSCH 6	60.0	57.7	58.8	51.3	52.0	56.7	53.3	54.7	60.7	53.7	58.7	52.3	56.0	59.0	53.0	57.7	50.0	50.3	54.0	58.3	62.0	58.0	45.3	55.9	55.3
8	FSCH 41	60.3	57.7	59.0	51.3	53.0	56.0	53.4	53.3	57.0	53.7	54.3	49.0	53.5	55.7	51.0	54.0	49.7	52.0	52.5	56.7	60.0	53.7	44.7	53.8	53.8
9	ASKH4	60.0	53.0	56.5	51.0	53.0	53.0	52.3	53.0	52.0	53.7	55.3	57.7	54.3	58.0	53.7	52.3	48.7	49.7	52.5	58.7	60.3	55.0	49.0	55.8	54.1
10	FSCH 75	61.7	54.0	57.8	51.3	54.0	53.0	52.8	56.0	56.3	55.3	56.7	49.7	54.8	56.0	51.3	57.0	48.0	50.3	52.5	60.7	61.0	57.3	47.0	56.5	54.6
	CHECKS																									
11	Madhuri	56.7	53.3	55.0	49.0	50.0	53.3	50.8	53.7	51.7	52.0	53.7	47.3	51.7	52.7	51.3	54.7	47.7	48.0	50.9	55.3	59.7	51.7	45.0	52.9	51.9
12	WOSC	58.7	55.0	56.8	50.7	53.7	55.0	53.1	55.7	51.7	53.3	54.3	54.3	53.9	55.0	52.0	54.7	48.0	48.3	51.6	58.0	59.7	55.0	47.3	55.0	53.7
13	Priya	61.0	52.7	56.8	48.3	52.3	51.7	50.8	52.7	52.7	52.0	53.0	47.7	51.6	52.7	50.3	53.3	47.3	48.3	50.4	57.3	60.0	52.3	43.7	53.3	52.1
	Loc. Mean	**60.1**	**55.1**	**57.6**	**50.8**	**52.7**	**54.6**	**52.7**	**53.7**	**54.1**	**53.0**	**54.8**	**51.2**	**53.4**	**56.1**	**52.1**	**54.1**	**48.8**	**49.6**	**52.1**	**58.7**	**60.9**	**54.9**	**47.2**	**55.4**	**53.8**
	C.D. (5%)	3.14	1.26	3.81	1.80	1.05	1.52	1.98	3.04	1.14	1.76	2.12	1.89	2.51	1.57	1.75	6.61	2.25	0.88	1.74	0.91	1.55	1.66	0.49	2.15	1.05
	C.V. (%)	3.10	1.36	3.04	2.10	1.18	1.65	2.22	3.35	1.25	1.98	2.29	2.19	3.69	1.67	1.99	7.25	2.73	1.05	2.62	0.92	1.51	1.80	0.62	2.71	3.05
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.73	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 19 (Continued)

PLANT HEIGHT(cm)

S.No.	PEDIGREE	NHZ			NWPZ										NEPZ						PZ						CWZ	OV'L
		BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	FSCH 55	150.0	174.3	162.2	143.3	171.7	241.0	185.3	128.7	163.4	156.3	146.3	172.6	153.5	216.3	153.3	232.0	219.3	162.7	196.7	145.0	173.3	101.7	173.4	156.7	150.0	169.1
2	QMHSC-1182	151.7	152.3	152.0	116.7	151.7	175.0	147.8	102.0	170.0	158.0	118.0	168.1	143.2	203.7	120.3	159.0	195.7	152.2	166.2	80.0	190.0	108.3	163.1	138.7	136.0	148.7
3	SJSC1	181.7	181.0	181.3	141.7	176.7	242.3	186.9	133.0	159.7	163.7	158.3	168.9	156.7	215.7	158.0	202.0	221.3	175.1	194.4	100.0	187.0	116.7	179.9	170.7	150.8	171.7
4	ASKH1	173.3	175.7	174.5	158.3	186.7	239.0	194.7	138.7	159.7	152.0	150.0	174.6	155.0	206.3	163.3	203.3	227.3	182.0	196.5	161.7	178.3	121.7	187.3	160.3	161.9	175.0
5	ADVSW-2	170.0	194.3	182.2	175.0	166.7	213.0	184.9	155.0	182.9	172.3	170.0	204.5	176.9	213.0	164.7	207.0	238.0	192.2	203.0	161.7	181.7	138.3	188.9	174.0	168.9	183.2
6	ADVSW-1	175.0	171.7	173.3	178.3	180.0	253.3	203.9	153.0	180.5	152.7	167.0	201.6	170.9	201.7	175.3	195.7	244.0	185.5	200.4	108.3	181.7	123.3	208.4	191.3	162.6	181.4
7	BSCH 6	168.3	158.3	163.3	146.7	195.0	230.0	190.6	118.3	154.8	151.7	145.0	174.6	148.9	197.7	150.0	212.3	213.3	173.6	189.4	101.7	183.3	128.3	186.8	164.7	153.0	167.7
8	FSCH 41	166.7	179.0	172.8	175.0	171.7	241.0	195.9	133.0	178.5	161.7	157.7	213.6	168.9	201.7	171.3	205.7	236.0	170.2	197.0	155.0	186.7	133.3	207.2	165.7	169.6	180.5
9	ASKH4	180.0	194.3	187.2	180.0	160.0	243.0	194.3	150.3	166.2	164.0	189.3	195.1	173.0	196.3	176.3	207.3	211.3	189.8	196.2	161.7	190.0	135.0	212.1	171.7	174.1	183.7
10	FSCH 75	153.3	166.7	160.0	153.3	180.0	190.3	174.6	120.3	166.5	153.3	139.7	180.5	152.1	204.0	149.7	219.3	221.7	158.6	190.7	81.7	181.7	106.7	151.6	154.3	135.2	161.7
	CHECKS																										
11	Madhuri	170.0	197.7	183.8	176.7	168.3	208.7	184.6	135.7	161.6	160.7	166.7	184.9	161.9	212.0	147.7	216.7	226.7	179.0	196.4	135.0	181.0	115.0	186.6	149.0	153.3	174.0
12	WOSC	171.7	182.3	177.0	155.0	166.7	221.3	181.0	140.7	169.1	169.7	183.0	189.3	170.4	219.0	161.7	181.3	216.7	170.8	189.9	106.7	186.7	130.0	192.6	161.7	155.5	173.8
13	Priya	156.7	144.0	150.3	150.0	165.0	186.0	167.0	122.7	176.6	149.7	151.0	163.0	152.6	214.7	138.7	183.0	197.0	161.1	178.9	100.0	178.3	103.3	160.1	144.0	137.2	157.2
	Loc. Mean	**166.8**	**174.7**	**170.8**	**157.7**	**172.3**	**221.8**	**183.9**	**133.2**	**168.4**	**158.9**	**157.1**	**184.0**	**160.3**	**207.8**	**156.2**	**201.9**	**220.6**	**173.3**	**192.0**	**122.9**	**183.1**	**120.1**	**184.5**	**161.7**	**154.5**	**171.4**
	C.D. (5%)	12.19	7.14	20.16	30.99	6.28	19.39	26.54	18.37	15.57	7.57	18.25	3.99	12.61	12.93	6.11	42.74	26.78	4.72	14.73	11.41	15.84	19.68	16.52	15.91	18.76	7.79
	C.V. (%)	4.34	2.42	5.42	11.66	2.16	5.19	8.56	8.18	5.48	2.83	6.90	1.29	6.19	3.69	2.32	12.56	7.20	1.62	6.03	5.51	5.14	9.72	5.31	5.84	9.55	7.30
	F (Prob)	0.00	0.00	0.02	0.01	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.14	0.03	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.00	0.00

EAR HEIGHT(cm)

S.No.	PEDIGREE	NHZ			NWPZ										NEPZ						PZ						CWZ	OV'L
		BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	DHOL	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	FSCH 55	53.3	81.0	67.2	55.0	66.7	77.3	66.3	50.0	67.3	58.3	59.7	65.4	60.1	85.7	48.3	119.3	78.7	63.8	69.1	40.0	76.3	36.7	62.4	59.0	54.9	62.4
2	QMHSC-1182	61.7	77.7	69.7	38.3	56.7	56.7	50.6	47.7	70.7	71.7	48.3	75.4	62.8	78.3	29.3	65.3	65.0	53.9	56.6	35.0	64.3	41.7	62.4	50.3	50.7	57.1
3	SJSC1	85.0	85.0	85.0	56.7	71.7	79.3	69.2	63.3	62.7	68.0	79.7	74.1	69.6	82.3	62.0	94.3	95.0	81.1	80.1	35.0	73.3	45.0	67.1	55.3	55.2	69.6
4	ASKH1	88.3	82.7	85.5	85.0	81.7	81.3	82.7	64.7	66.7	63.3	75.3	87.4	71.5	78.0	67.7	77.3	99.0	100.1	86.2	70.0	71.7	45.0	74.2	72.7	66.7	76.6
5	ADVSW-2	95.0	94.3	94.7	93.3	60.0	91.3	81.6	69.7	78.7	79.3	89.3	91.9	81.8	81.0	74.0	98.7	115.7	107.5	94.5	70.0	69.3	56.7	75.0	74.7	69.1	82.5
6	ADVSW-1	90.0	94.3	92.2	101.7	85.0	114.7	100.4	69.0	76.1	70.3	87.7	97.3	80.1	79.0	82.3	73.3	119.7	95.6	94.2	63.3	75.0	51.7	85.3	86.7	72.4	85.5
7	BSCH 6	76.7	75.7	76.2	63.3	88.3	83.3	78.3	57.3	62.3	64.3	68.0	72.4	64.9	76.3	62.0	101.7	97.7	77.9	78.5	35.0	80.0	48.3	68.8	72.7	61.0	70.0
8	FSCH 41	71.7	75.0	73.3	61.7	65.0	84.0	70.2	50.3	72.9	62.3	68.7	92.5	69.4	78.7	55.7	82.0	84.7	75.9	73.7	41.7	76.7	46.7	70.5	63.7	59.8	68.3
9	ASKH4	96.7	94.3	95.5	108.3	60.0	104.0	90.8	72.0	70.0	72.3	103.7	99.7	83.5	77.3	80.3	86.3	108.3	102.3	92.1	66.7	78.3	53.3	87.7	85.7	74.3	85.3
10	FSCH 75	53.3	75.3	64.3	50.0	70.0	59.3	59.8	43.3	69.9	60.7	56.7	62.7	58.7	76.0	52.7	97.3	73.7	76.5	69.7	41.7	71.7	46.7	52.9	55.0	53.6	60.4
	CHECKS																										
11	Madhuri	85.0	101.0	93.0	78.3	66.7	87.0	77.3	64.0	63.0	64.0	97.7	75.1	72.8	81.7	62.0	110.3	103.7	91.0	84.6	70.0	78.3	46.7	76.9	62.3	66.9	76.5
12	WOSC	88.3	87.7	88.0	66.7	66.7	79.3	70.9	64.0	64.9	73.7	92.7	85.7	76.2	81.0	72.3	82.3	96.7	74.1	81.0	60.0	65.0	46.7	72.9	71.7	63.3	74.2
13	Priya	61.7	74.3	68.0	78.3	60.0	83.0	73.8	55.0	78.3	62.7	71.7	69.7	67.5	81.7	55.0	69.3	85.3	76.1	74.5	40.0	80.0	40.0	62.3	60.0	56.5	67.1
	Loc. Mean	**77.4**	**84.5**	**81.0**	**72.1**	**69.1**	**83.1**	**74.8**	**59.3**	**69.5**	**67.0**	**76.8**	**80.7**	**70.7**	**79.8**	**61.8**	**89.1**	**94.1**	**82.8**	**79.6**	**51.4**	**73.8**	**46.5**	**70.7**	**66.9**	**61.9**	**72.0**
	C.D. (5%)	17.68	5.87	16.31	18.83	4.62	14.82	19.91	14.82	6.39	3.51	12.35	3.56	10.35	3.53	6.14	40.46	14.35	2.91	12.65	6.64	17.64	12.66	9.64	5.97	9.49	5.47
	C.V. (%)	13.55	4.12	9.25	15.51	3.97	10.58	15.80	14.85	5.45	3.11	9.54	2.62	11.52	2.63	5.90	26.96	9.05	2.09	11.08	7.67	14.18	16.15	8.10	5.30	12.06	11.89
	F (Prob)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.69	0.18	0.00	0.00	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : DHARWAD 27.0%

TABLE No. 20: PERFORMANCE OF BABYCORN EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, DHOLI, RANCHI, BHUBANESWAR, VARANASI, BAHRAICH, HYDERABAD, KARIMNAGAR, DHARWAD, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, CHHINDWARA, AMBIKAPUR, GODHRA IN TRIAL No. BC DURING KHARIF (2015)

		COB WEIGHT (kg/ha)																							
							NHZ							NWPZ							NEPZ				
S.No.	PEDIGREE	ALMO	R	BAJA	R	KANG	R	Mean	R	LUDH	R	KARN	R	PANT	R	Mean	R	BHUB	R	VARA	R	BAHR	R	Mean	R	HYDE	R
1	IMHB 1532	1776	7	935	16	873	13	1194	12	1833	3	1851	6	3092	7	2258	4	535	9	1354	5	1458	8	1116	6	1500	3
2	BVM-2	1428	11	1143	6	1551	1	1374	7	1831	4	1472	12	2278	17	1860	13	403	14	1215	8	2014	4	1211	5	1333	6
3	ABH9001	1231	15	917	17	979	9	1042	15	1295	15	788	16	2775	12	1619	16	531	10	625	15	1701	6	953	10	944	13
4	AH5021	1194	16	977	14	733	18	968	16	1312	14	768	17	2356	16	1478	17	656	4	1007	11	590	16	751	17	1222	9
5	IMHB 1538	1461	10	1625	1	1410	3	1499	2	1914	2	1694	8	3444	4	2351	3	306	16	1319	6	660	14	762	16	1306	7
6	HKH 425	683	18	960	15	781	17	808	18	1325	13	958	15	2153	18	1478	18	240	17	382	16	2222	3	948	11	1417	5
7	IMH 1525	1778	6	1113	9	810	16	1233	11	1625	8	1337	13	2556	14	1839	14	684	2	1493	3	2535	2	1571	2	1139	10
8	MBC-11-15	1811	5	1035	11	952	10	1266	8	1714	7	1673	9	2931	9	2106	6	444	13	937	12	1424	9	935	12	1306	7
9	ASKBH1	1322	13	1137	7	906	11	1122	14	1722	6	1496	10	2936	8	2051	8	663	3	1042	10	1389	10	1031	8	1444	4
10	BAUM-3	1092	17	916	18	860	14	956	17	1590	9	713	18	2658	13	1654	15	396	15	660	14	625	15	560	18	1278	8
11	IMHB 1531	1814	4	1121	8	826	15	1254	9	1435	11	1854	5	2547	15	1945	11	601	7	1215	8	1910	5	1242	3	1750	1
12	IMHB 1537	2003	2	1521	3	1358	4	1627	1	1560	10	1910	3	4064	1	2511	2	799	1	1424	4	972	13	1065	7	1111	11
13	DMRH 1305	2006	1	1000	13	1200	7	1402	4	1275	17	2056	1	2903	10	2078	7	563	8	1042	10	972	13	859	15	1333	6
14	GAYMH-1	1839	3	1401	4	1247	6	1495	3	1046	18	1205	14	3489	3	1913	12	451	12	1111	9	1042	12	868	14	1278	8
15	IMHB 1539	1628	9	1601	2	899	12	1376	6	1282	16	1843	7	2858	11	1994	9	649	5	1563	2	1493	7	1235	4	1000	12
16	IMHB 1529	1703	8	1171	5	1306	5	1393	5	1935	1	1954	2	3997	2	2629	1	635	6	1701	1	2639	1	1659	1	1722	2
17	Vivek MH 27	1272	14	1061	10	1425	2	1253	10	1734	5	1879	4	3128	5	2247	5	472	11	764	13	1389	10	875	13	1111	11
	CHECKS																										
18	HM4	1339	12	1012	12	1169	8	1173	13	1331	12	1483	11	3122	6	1979	10	472	11	1250	7	1354	11	1025	9	1417	5
	Loc. Mean	**1521**		**1147**		**1071**		**1246**		**1542**		**1496**		**2960**		**2000**		**528**		**1117**		**1466**		**1037**		**1312**	
	C.D. (5%)	208.18		166.45		72.26		392.29		394.71		191.08		789.69		566.52		61.82		266.05		318.29		638.43		261.41	
	C.V. (%)	8.25		8.75		4.06		18.97		15.42		7.70		16.08		17.07		7.06		14.36		13.08		37.11		12.01	
	F (Prob)	0.00		0.00		0.00		0.01		0.00		0.00		0.00		0.01		0.00		0.00		0.00		0.14		0.00	

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 3 37.1%: DHARWAD 44.3%: GODHRA 34.5%

TABLE No. 20:

		COB WEIGHT (kg/ha)																					
											PZ								CWZ		OV'L	
S.No.	PEDIGREE	KARI	R	DHAR	R	KOLH	R	MAND	R	COIM	R	Mean	R	UDAI	R	BANS	R	AMBI	R	GODH	R	Mean	R	Mean	R
1	IMHB 1532	1061	7	750	14	4847	2	1131	3	3523	12	2412	3	2604	2	3368	11	3090	7	282	2	3021	4	2049	3
2	BVM-2	1067	6	4446	1	4702	6	804	10	3724	9	2326	7	2049	6	3875	5	3194	6	176	12	3039	3	2005	4
3	ABH9001	625	16	1091	9	4567	7	1190	2	4465	1	2359	4	1163	15	3090	15	2951	8	222	6	2402	14	1755	15
4	AH5021	675	14	945	10	4745	5	744	11	4236	4	2325	8	1753	7	4444	2	2153	15	204	8	2784	9	1739	16
5	IMHB 1538	1328	1	1265	8	3944	14	923	7	3411	14	2182	13	1649	9	3319	13	2813	10	176	12	2594	11	1913	10
6	HKH 425	531	18	482	17	3768	16	625	12	3276	16	1923	17	1146	16	3993	4	1146	17	181	11	2095	17	1506	17
7	IMH 1525	1200	4	564	16	4403	9	863	9	3028	17	2127	14	1372	12	4410	3	2882	9	204	8	2888	8	1954	8
8	MBC-11-15	853	10	911	12	4234	11	952	6	4099	6	2289	10	1701	8	3660	6	3438	3	245	4	2933	6	1951	9
9	ASKBH1	722	12	717	15	4780	3	625	12	3601	11	2234	11	1528	11	3576	8	1389	16	199	9	2164	16	1781	13
10	BAUM-3	614	17	219	18	1175	18	744	11	3391	15	1440	18	1233	13	3153	14	2708	11	144	13	2365	15	1400	18
11	IMHB 1531	708	13	787	13	5484	1	1071	5	3932	8	2589	1	1215	14	3646	7	2431	13	310	1	2431	13	1974	6
12	IMHB 1537	1111	5	1909	5	4765	4	1101	4	4245	3	2467	2	1128	17	3507	9	2813	10	204	8	2483	12	2082	2
13	DMRH 1305	914	8	1680	6	4018	12	893	8	2655	18	1963	15	1753	7	2951	16	2500	12	259	3	2402	14	1767	14
14	GAYMH-1	1217	2	2040	4	3997	13	1190	2	3951	7	2327	5	2587	3	2847	18	3403	4	176	12	2946	5	1959	7
15	IMHB 1539	725	11	2195	2	3845	15	625	12	3500	13	1939	16	2535	4	2917	17	3264	5	185	10	2905	7	1896	11
16	IMHB 1529	1214	3	1412	7	2938	17	1071	5	4215	5	2232	12	3455	1	4931	1	3715	2	222	6	4034	1	2371	1
17	Vivek MH 27	656	15	2051	3	4262	10	1190	2	4413	2	2326	6	1597	10	3472	10	4236	1	218	7	3102	2	2004	5
	CHECKS																								
18	HM4	881	9	944	11	4414	8	1250	1	3610	10	2314	9	2087	5	3337	12	2361	14	236	5	2595	10	1876	12
	Loc. Mean	**894**		**1356**		**4160**		**944**		**3738**		**2210**		**1809**		**3583**		**2805**		**214**		**2732**		**1888**	
	C.D. (5%)	283.83		996.70		1178.71		229.56		371.73		606.34		321.59		906.38		895.06		122.16		983.24		297.08	
	C.V. (%)	19.12		44.30		17.07		14.65		5.99		21.74		10.72		15.24		19.23		34.48		21.69		23.30	
	F (Prob)	0.00		0.00		0.00		0.00		0.00		0.13		0.00		0.00		0.00		0.52		0.09		0.00	

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 3 37.1%: DHARWAD 44.3%: GODHRA 34.5%

Table No. 20 (Continued)

		COB WEIGHT % SUPERIORITY OVER HM4																								
					NHZ				NWPZ				NEPZ							PZ					CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	KOLH	MAND	COIM	Mean	UDAI	BANS	AMBI	GODH	Mean	Mean
1	IMHB 1532	32.6	-7.6	-25.3	1.8	37.7	24.8	-1.0	14.1	13.3	8.3	7.7	8.9	5.9	20.4	-20.6	9.8	-9.5	-2.4	4.2	24.8	0.9	30.9	19.5	16.4	9.2
2	BVM-2	6.6	12.9	32.7	17.1	37.6	-0.7	-27.0	-6.0	-14.6	-2.8	48.7	18.1	-5.9	21.1	371.0	6.5	-35.7	3.2	0.5	-1.8	16.1	35.3	-25.4	17.1	6.9
3	ABH9001	-8.1	-9.4	-16.3	-11.2	-2.7	-46.9	-11.1	-18.2	12.5	-50.0	25.6	-7.0	-33.4	-29.1	15.6	3.5	-4.8	23.7	1.9	-44.3	-7.4	25.0	-5.9	-7.4	-6.4
4	AH5021	-10.8	-3.5	-37.3	-17.5	-1.4	-48.2	-24.5	-25.3	39.0	-19.4	-56.4	-26.7	-13.8	-23.4	0.1	7.5	-40.5	17.3	0.5	-16.0	33.2	-8.8	-13.6	7.3	-7.3
5	IMHB 1538	9.1	60.6	20.6	27.8	43.8	14.2	10.3	18.8	-35.2	5.5	-51.3	-25.7	-7.8	50.7	34.0	-10.6	-26.2	-5.5	-5.7	-21.0	-0.5	19.1	-25.4	0.0	2.0
6	HKH 425	-49.0	-5.1	-33.2	-31.1	-0.5	-35.4	-31.0	-25.3	-49.2	-69.4	64.1	-7.5	0.0	-39.7	-48.9	-14.6	-50.0	-9.3	-16.9	-45.1	19.7	-51.5	-23.3	-19.3	-19.7
7	IMH 1525	32.8	10.0	-30.7	5.1	22.1	-9.8	-18.1	-7.1	44.9	19.4	87.2	53.3	-19.6	36.2	-40.3	-0.2	-31.0	-16.1	-8.1	-34.3	32.2	22.1	-13.6	11.3	4.2
8	MBC-11-15	35.3	2.3	-18.6	7.9	28.8	12.8	-6.1	6.4	-5.9	-25.0	5.2	-8.8	-7.8	-3.2	-3.5	-4.1	-23.8	13.5	-1.1	-18.5	9.7	45.6	3.8	13.0	4.0
9	ASKBH1	-1.3	12.4	-22.5	-4.3	29.4	0.9	-6.0	3.6	40.5	-16.6	2.6	0.6	1.9	-18.0	-24.0	8.3	-50.0	-0.2	-3.5	-26.8	7.2	-41.2	-15.7	-16.6	-5.1
10	BAUM-3	-18.4	-9.5	-26.4	-18.5	19.5	-51.9	-14.9	-16.4	-16.1	-47.2	-53.8	-45.4	-9.8	-30.3	-76.8	-73.4	-40.5	-6.1	-37.8	-40.9	-5.5	14.7	-39.0	-8.9	-25.4
11	IMHB 1531	35.5	10.8	-29.3	6.9	7.8	25.0	-18.4	-1.7	27.3	-2.8	41.1	21.2	23.5	-19.6	-16.6	24.2	-14.3	8.9	11.9	-41.8	9.3	3.0	31.4	-6.3	5.2
12	IMHB 1537	49.6	50.3	16.2	38.7	17.2	28.8	30.2	26.9	69.3	13.9	-28.2	3.9	-21.6	26.1	102.2	8.0	-11.9	17.6	6.6	-46.0	5.1	19.1	-13.6	-4.3	11.0
13	DMRH 1305	49.8	-1.2	2.7	19.5	-4.2	38.6	-7.0	5.0	19.3	-16.6	-28.2	-16.2	-5.9	3.7	78.0	-9.0	-28.6	-26.5	-15.2	-16.0	-11.6	5.9	9.7	-7.4	-5.8
14	GAYMH-1	37.3	38.4	6.7	27.5	-21.4	-18.7	11.8	-3.3	-4.4	-11.1	-23.0	-15.3	-9.8	38.1	116.1	-9.4	-4.8	9.4	0.6	24.0	-14.7	44.1	-25.4	13.5	4.4
15	IMHB 1539	21.6	58.2	-23.1	17.3	-3.7	24.3	-8.5	0.8	37.5	25.0	10.3	20.5	-29.4	-17.7	132.5	-12.9	-50.0	-3.0	-16.2	21.5	-12.6	38.2	-21.6	11.9	1.1
16	IMHB 1529	27.2	15.7	11.7	18.8	45.4	31.8	28.0	32.8	34.5	36.1	94.9	61.9	21.5	37.8	49.6	-33.4	-14.3	16.8	-3.5	65.5	47.8	57.3	-5.9	55.5	26.4
17	Vivek MH 27	-5.0	4.8	21.9	6.8	30.3	26.7	0.2	13.5	0.0	-38.9	2.6	-14.6	-21.6	-25.5	117.3	-3.4	-4.8	22.2	0.5	-23.5	4.0	79.4	-7.6	19.5	6.8
	CHECKS																									
18	HM4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Locations Rejected due to High C.V.(i.e.> 30%) : Mean!ZN 3 37.1%: DHARWAD 44.3%: GODHRA 34.5%

Table No. 20 (Continued)

		GREEN EAR YIELD (kg/ha)																								
					NHZ				NWPZ					NEPZ							PZ				CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	DHAR	KOLH	MAND	COIM	Mean	UDAI	CHHI	GODH	Mean	Mean
1	IMHB 1532	7653	3357	2074	4361	8749	12899	11147	10932	9851	2066	5278	4063	5314	5389	4097	3099	4847	4345	8764	5488	6250	10750	1449	8500	6563
2	BVM-2	5883	3755	3969	4536	8404	10216	9789	9470	8542	1885	5451	5799	5419	5722	3139	9266	4702	4196	10155	5583	5816	2750	833	4283	5893
3	ABH9001	7200	3410	3271	4627	6509	7246	14525	9427	11964	2694	3542	4688	5722	5250	3969	5123	4567	5476	12698	6392	3906	6722	1134	5314	6332
4	AH5021	7339	3808	2180	4442	7059	8653	10478	8730	7539	2267	5243	2604	4413	5722	3936	4416	4745	4702	10297	5881	8576	6528	1074	7552	5981
5	IMHB 1538	7376	4009	3908	5098	9465	11495	12053	11004	9970	1552	3958	2743	4556	5000	4275	3802	3944	4018	9224	5292	5208	4472	921	4840	6039
6	HKH 425	3603	4156	1226	2995	6102	7297	7717	7038	9018	1615	1701	6771	4776	6278	2917	1976	3768	2946	8536	4889	4688	9556	870	7122	5170
7	IMH 1525	8933	4134	1681	4916	7896	10419	10686	9667	9048	2844	6042	7882	6454	5167	5278	2520	4403	4048	8635	5506	5434	8111	1014	6773	6508
8	MBC-11-15	9261	3946	2007	5071	8072	11424	14219	11239	8810	2156	4097	4514	4894	5639	3864	4940	4234	6250	11936	6385	6007	7611	1185	6809	6709
9	ASKBH1	4840	3427	1800	3356	7368	10871	10517	9585	9048	2316	3958	4271	4898	5472	2972	3106	4780	3155	9965	5269	4670	7000	1463	5835	5672
10	BAUM-3	6231	4292	1707	4077	6961	6636	10375	7990	9286	2219	2569	3090	4291	5139	3411	1474	1175	3780	10283	4758	4236	9333	810	6785	5337
11	IMHB 1531	9339	4154	1769	5088	7918	11238	10478	9878	9405	2215	5556	6181	5839	7833	4014	3612	5484	3482	9668	6096	4653	8556	1190	6604	6585
12	IMHB 1537	8606	4250	3790	5548	8302	13851	16042	12732	9911	2243	5625	3299	5269	3972	3681	4768	4765	3571	11102	5418	4653	4361	995	4507	6590
13	DMRH 1305	11528	3871	3935	6444	6527	11023	11758	9769	8065	1639	3229	3438	4093	4917	3811	5675	4018	5685	7642	5215	6753	4778	912	5766	6036
14	GAYMH-1	7883	3675	2860	4806	5237	9649	12783	9223	10536	1972	3924	3333	4941	4889	4458	5427	3997	3720	9764	5366	10608	5000	972	7804	6135
15	IMHB 1539	8811	3740	2938	5163	6359	12183	11589	10044	11220	1958	6701	3646	5881	4417	2703	4706	3845	2857	9304	4625	5729	4722	745	5226	6043
16	IMHB 1529	8997	4121	2085	5068	8309	12554	15822	12229	9018	2021	6250	8472	6440	8000	4661	6596	2938	5595	12465	6732	8576	7611	1329	8094	7500
17	Vivek MH 27	6731	4378	3292	4800	7623	12241	12683	10849	11071	1861	3368	4479	5195	4833	3481	6134	4262	4554	12053	5837	4705	7417	926	6061	6414
	CHECKS																									
18	HM4	6825	3334	2168	4109	4981	10502	12458	9314	10804	1934	4028	3819	5146	6417	4028	3934	4414	4821	9309	5798	6684	6500	1181	6592	6060
	Loc. Mean	**7613**	**3879**	**2592**	**4695**	**7324**	**10578**	**11951**	**9951**	**9617**	**2081**	**4473**	**4616**	**5197**	**5559**	**3816**	**4476**	**4160**	**4289**	**10100**	**5585**	**5953**	**6765**	**1056**	**6359**	**6198**
	C.D. (5%)	1027.63	432.24	267.31	1857.59	2142.63	528.90	2327.20	2456.75	2776.89	182.64	831.17	413.07	1726.80	941.21	995.73	2612.09	1178.71	764.20	836.82	1227.05	534.43	2387.87	769.70	4508.88	908.01
	C.V. (%)	8.13	6.72	6.21	23.85	17.63	3.01	11.74	14.88	17.40	5.29	11.20	5.39	23.41	10.20	15.72	35.17	17.07	10.74	4.99	17.41	5.41	21.27	43.93	33.61	21.69
	F (Prob)	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.01	0.18	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.85	0.80	0.00

Locations Rejected due to High C.V.(i.e.> 30%) : DHARWAD 35.2%: GODHRA 43.9%: Mean!ZN 5 33.6%

Table No. 20 (Continued)

		FODDER YIELD (kg/ha)																
					NHZ				NWPZ				NEPZ				CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	RANC	BHUB	BAHR	Mean	MAND	UDAI	GODH	Mean	Mean
1	IMHB 1532	36111	15417	20069	23866	30306	22014	20556	24292	26161	19410	34514	26695	27381	15451	5787	15451	24308
2	BVM-2	29889	8880	14375	17715	39422	16491	15694	23869	17887	15313	21250	18150	22202	9167	3241	9167	19143
3	ABH9001	31167	13806	18750	21241	36803	11823	22639	23755	19821	18229	28750	22267	24137	10590	3935	10590	21501
4	AH5021	42222	15741	17708	25224	38946	18072	28083	28367	25208	18507	32882	25532	30357	18733	5208	18733	26042
5	IMHB 1538	27722	16088	17708	20506	42177	21543	18611	27444	26756	15833	24861	22483	21399	10017	3819	10017	22065
6	HKH 425	45556	24227	19792	29858	36224	19995	30417	28879	23750	15451	34618	24606	24702	15451	7986	15451	26380
7	IMH 1525	41778	13241	15278	23432	39456	17266	28944	28555	26518	16250	26042	22937	25893	14323	4977	14323	24090
8	MBC-11-15	45833	13889	18889	26204	40578	23510	27833	30641	20268	16528	26632	21143	23244	13819	4861	13819	24639
9	ASKBH1	27778	11250	17361	18796	32823	20675	25417	26305	24315	14931	22847	20698	20714	10330	2778	10330	20767
10	BAUM-3	33611	21296	21181	25363	41122	18472	28750	29448	28125	18229	31840	26065	28869	14149	5787	14149	25968
11	IMHB 1531	42500	23389	19167	28352	33605	16725	30472	26934	29702	16493	32188	26128	21280	16806	5903	16806	25666
12	IMHB 1537	38722	18380	17222	24775	36803	14565	21528	24298	24196	14583	28472	22417	20119	9306	4051	9306	22172
13	DMRH 1305	34944	13520	15139	21201	29932	14256	20417	21535	17708	14965	21771	18148	23899	13715	3009	13715	20024
14	GAYMH-1	36333	16852	18403	23863	42687	16096	27778	28853	22440	16215	27813	22156	24643	12587	5324	12587	23804
15	IMHB 1539	41889	18194	17014	25699	32279	16248	22917	23815	25298	16840	32257	24798	21250	10590	3472	10590	23161
16	IMHB 1529	31222	14069	19097	21463	39286	17175	20972	25811	21369	14965	28854	21730	23065	11719	2662	11719	21981
17	Vivek MH 27	30333	14798	21250	22127	40238	14208	28611	27686	22321	16285	22743	20450	25714	13611	5208	13611	22737
	CHECKS																	
18	HM4	41389	14491	18100	24660	31565	20432	23194	25064	21280	15243	19826	18783	32083	13281	5208	13281	22808
	Loc. Mean	**36611**	**15974**	**18139**	**23575**	**36903**	**17754**	**24602**	**26419**	**23507**	**16348**	**27676**	**22510**	**24497**	**12980**	**4623**	**12980**	**23181**
	C.D. (5%)	5211.47	1372.38	1418.10	6062.99	8345.01	1073.79	3986.16	6226.47	2130.44	1010.99	1327.27	4379.69	3544.10	975.57	2500.48	975.57	2771.10
	C.V. (%)	8.58	5.18	4.71	15.50	13.63	3.65	9.76	14.20	5.46	3.73	2.89	11.73	8.72	4.53	32.60	4.53	14.20
	F (Prob)	0.00	0.00	0.00	0.02	0.04	0.00	0.00	0.24	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00

Locations Rejected due to High C.V.(i.e.> 20%) : GODHRA 32.6%

Table No. 20 (Continued)

		STAND AT HARVEST ('000/ha)																									
					NHZ				NWPZ					NEPZ						PZ						CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	LUDH	KARN	PANT	Mean	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	CHHI	AMBI	GODH	Mean	Mean
1	IMHB 1532	119.4	86.6	79.9	95.3	67.7	62.8	72.2	67.6	89.6	106.6	88.2	110.1	98.6	55.0	61.7	54.9	61.6	66.3	59.9	61.5	56.3	65.3	79.9	68.5	66.3	75.7
2	BVM-2	116.7	92.1	78.5	95.8	69.4	63.1	68.9	67.1	78.6	104.5	84.7	109.0	94.2	60.3	56.7	58.3	58.9	66.7	60.2	59.7	55.9	63.9	80.9	69.4	66.0	74.8
3	ABH9001	120.6	105.6	79.9	102.0	66.0	62.8	71.1	66.6	83.3	109.4	89.2	99.0	95.2	63.9	54.7	77.8	64.3	66.7	65.5	61.5	55.9	64.7	81.3	72.2	67.1	77.5
4	AH5021	121.7	110.6	77.8	103.4	71.1	63.3	73.9	69.4	75.9	108.0	84.4	97.9	91.5	62.2	64.7	56.3	58.9	66.7	61.8	60.4	58.0	63.1	74.3	79.6	67.1	76.4
5	IMHB 1538	118.9	127.8	77.8	108.1	74.5	61.9	73.1	69.8	82.1	102.1	93.8	103.5	95.4	58.6	63.3	63.9	57.7	66.7	62.0	61.5	54.2	61.9	77.4	73.1	65.6	77.7
6	HKH 425	119.4	124.1	79.2	107.6	69.0	61.4	77.5	69.3	75.3	101.7	88.9	110.1	94.0	62.5	59.7	53.8	57.7	66.7	60.1	58.3	58.3	62.2	63.9	75.5	63.6	76.3
7	IMH 1525	120.6	108.8	80.6	103.3	73.1	62.8	73.6	69.8	81.3	111.1	83.0	109.0	96.1	60.8	59.7	57.6	60.7	66.7	61.1	57.6	57.3	61.1	78.8	72.7	65.5	76.8
8	MBC-11-15	112.8	109.3	81.3	101.1	68.0	62.2	72.5	67.6	78.3	105.2	83.7	96.2	90.8	63.9	58.1	64.2	56.3	66.7	61.8	60.8	56.6	61.9	85.8	69.9	67.0	75.7
9	ASKBH1	112.2	95.4	77.8	95.1	70.4	62.2	74.2	68.9	74.4	108.7	82.3	97.6	90.7	64.2	44.2	44.4	46.7	66.7	53.2	59.7	55.9	53.1	66.0	50.5	57.0	70.3
10	BAUM-3	115.0	97.2	76.4	96.2	70.4	62.2	68.9	67.2	75.9	110.4	93.1	96.5	94.0	61.7	55.8	63.2	53.9	66.7	60.2	59.7	55.6	59.4	75.0	68.5	63.6	74.3
11	IMHB 1531	117.8	119.4	78.5	105.2	65.3	62.8	75.0	67.7	78.3	101.7	92.4	95.5	92.0	61.7	56.1	61.5	56.0	66.7	60.4	58.0	58.0	63.1	76.4	79.6	67.0	76.2
12	IMHB 1537	113.3	106.5	81.9	100.6	67.7	62.5	73.6	67.9	83.9	108.0	82.3	98.3	93.1	63.6	47.8	63.9	60.7	66.3	60.5	60.1	56.9	57.8	78.1	75.9	65.8	75.5
13	DMRH 1305	105.6	107.4	79.2	97.4	66.0	61.9	71.9	66.6	76.2	108.7	80.9	95.5	90.3	63.1	53.9	49.7	62.8	66.7	59.2	60.4	56.3	64.4	77.8	63.0	64.4	73.6
14	GAYMH-1	119.4	127.8	80.6	109.3	73.8	61.7	72.2	69.2	89.3	107.3	83.7	99.3	94.9	65.0	62.2	66.7	62.2	66.7	64.6	61.8	55.9	64.7	85.8	73.6	68.4	79.0
15	IMHB 1539	122.8	109.3	81.9	104.7	67.3	62.2	76.1	68.6	83.6	102.4	86.5	95.5	92.0	52.8	50.3	46.9	44.9	66.3	52.2	61.8	57.3	61.9	84.0	69.9	67.0	74.2
16	IMHB 1529	112.8	106.5	80.6	99.9	75.9	62.5	71.1	69.8	78.9	102.4	92.0	112.2	96.4	61.4	62.5	60.4	60.1	66.3	62.1	60.4	58.7	63.1	86.1	74.5	68.6	77.4
17	Vivek MH 27	114.4	127.8	76.4	106.2	74.5	62.2	73.3	70.0	84.5	111.8	94.1	99.7	97.5	64.2	58.3	66.3	64.3	66.3	63.9	59.4	55.9	64.7	91.3	81.9	70.7	79.6
	CHECKS																										
18	HM4	122.2	113.9	78.5	104.9	69.7	61.4	67.5	66.2	81.0	99.0	97.9	107.6	96.4	61.7	55.6	60.4	64.6	66.7	61.8	58.7	56.6	63.6	74.3	76.9	66.0	76.9
	Loc. Mean	**117.0**	**109.8**	**79.2**	**102.0**	**70.0**	**62.3**	**72.6**	**68.3**	**80.6**	**106.1**	**87.8**	**101.8**	**94.1**	**61.5**	**57.0**	**59.5**	**58.5**	**66.6**	**60.6**	**60.1**	**56.6**	**62.2**	**78.7**	**72.0**	**65.9**	**76.0**
	C.D. (5%)	9.27	8.35	4.32	12.26	6.31	1.63	9.32	4.09	8.03	6.42	8.51	4.52	7.02	6.54	3.16	14.02	6.86	0.65	5.59	3.27	3.24	6.78	7.89	12.26	5.29	2.99
	C.V. (%)	4.77	4.59	3.29	7.25	5.43	1.57	7.74	3.61	6.00	3.65	5.84	2.68	5.26	6.41	3.35	14.21	7.07	0.59	7.31	3.28	3.45	6.57	6.04	10.27	6.35	6.33
	F (Prob)	0.05	0.00	0.26	0.34	0.03	0.57	0.87	0.67	0.01	0.00	0.00	0.00	0.49	0.04	0.00	0.01	0.00	0.94	0.00	0.25	0.47	0.11	0.00	0.01	0.01	0.00

Table No. 20 (Continued)

		DAYS TO 50% POLLEN SHED														
		NHZ	NWPZ					NEPZ			PZ				CWZ	OV'L
S.No.	PEDIGREE	KANG	PANT	Mean	RANC	VARA	BAHR	Mean	MAND	COIM	Mean	UDAI	AMBI	GODH	Mean	Mean
1	IMHB 1532	53.3	51.0	51.0	42.7	57.0	52.0	50.6	50.7	55.0	52.8	57.7	54.0	46.3	52.7	52.0
2	BVM-2	44.7	49.7	49.7	42.0	41.7	44.0	42.6	39.3	41.0	40.2	51.7	45.7	41.7	46.3	44.1
3	ABH9001	51.7	48.3	48.3	36.3	51.0	48.0	45.1	48.0	47.3	47.7	54.3	50.7	47.7	50.9	48.3
4	AH5021	53.0	49.3	49.3	39.3	52.7	50.0	47.3	50.3	54.7	52.5	56.0	51.3	45.3	50.9	50.2
5	IMHB 1538	48.7	51.0	51.0	41.0	50.0	49.0	46.7	46.7	46.0	46.3	52.0	46.7	46.7	48.4	47.8
6	HKH 425	54.3	56.3	56.3	40.7	58.7	54.0	51.1	55.3	54.0	54.7	59.0	56.7	50.0	55.2	53.9
7	IMH 1525	55.7	56.3	56.3	41.7	53.0	52.0	48.9	50.3	44.7	47.5	59.0	53.3	46.3	52.9	51.2
8	MBC-11-15	53.0	52.0	52.0	41.0	53.7	52.0	48.9	48.3	52.3	50.3	55.3	51.3	46.0	50.9	50.5
9	ASKBH1	52.7	52.7	52.7	40.7	53.7	50.0	48.1	48.7	47.0	47.8	59.0	53.7	46.3	53.0	50.4
10	BAUM-3	54.3	48.7	48.7	42.3	57.7	54.0	51.3	49.3	55.7	52.5	60.7	54.7	53.7	56.3	53.1
11	IMHB 1531	53.3	53.0	53.0	41.3	53.3	52.0	48.9	51.0	54.7	52.8	55.7	55.7	47.0	52.8	51.7
12	IMHB 1537	52.7	52.0	52.0	41.3	54.0	46.0	47.1	47.7	47.0	47.3	54.0	48.3	44.3	48.9	48.7
13	DMRH 1305	52.7	49.7	49.7	42.0	49.3	46.0	45.8	46.0	46.3	46.2	55.7	49.3	45.3	50.1	48.2
14	GAYMH-1	50.0	52.0	52.0	43.0	48.3	50.0	47.1	46.3	41.3	43.8	52.7	49.7	43.7	48.7	47.7
15	IMHB 1539	54.0	51.3	51.3	35.0	51.3	47.0	44.4	48.3	44.7	46.5	54.3	47.7	45.0	49.0	47.9
16	IMHB 1529	51.0	52.7	52.7	41.0	49.7	48.0	46.2	47.7	47.7	47.7	54.0	48.3	45.3	49.2	48.5
17	Vivek MH 27	46.7	50.0	50.0	36.0	50.0	48.0	44.7	46.7	42.0	44.3	54.7	46.3	43.7	48.2	46.4
	CHECKS															
18	HM4	54.3	52.0	52.0	37.3	53.0	50.0	46.8	49.0	55.0	52.0	56.3	52.0	46.3	51.6	50.5
	Loc. Mean	**52.0**	**51.6**	**51.6**	**40.3**	**52.1**	**49.6**	**47.3**	**48.3**	**48.7**	**48.5**	**55.7**	**50.9**	**46.1**	**50.9**	**49.5**
	C.D. (5%)	1.59	2.40	2.40	1.15	1.67	-	4.06	1.65	0.87	5.63	1.43	1.63	3.11	2.43	1.94
	C.V. (%)	1.84	2.80	2.80	1.73	1.93	-	5.17	2.06	1.07	5.50	1.55	1.93	4.07	2.87	4.43
	F (Prob)	0.00	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 20 (Continued)

		DAYS TO 50% SILKING																	
					NHZ						NEPZ				PZ			CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	PANT	RANC	BHUB	VARA	BAHR	Mean	HYDE	MAND	COIM	Mean	UDAI	AMBI	Mean	Mean
1	IMHB 1532	59.0	61.7	56.3	59.0	53.7	46.0	54.3	65.0	53.5	54.7	56.7	54.0	58.0	56.2	59.7	56.3	58.0	56.5
2	BVM-2	49.7	51.7	48.7	50.0	52.0	45.7	55.0	46.0	46.0	48.2	49.7	41.0	43.3	44.7	53.0	47.7	50.3	48.4
3	ABH9001	54.7	59.7	55.3	56.6	51.3	40.0	55.3	55.0	50.0	50.1	52.3	50.0	49.3	50.6	56.3	53.7	55.0	52.5
4	AH5021	57.7	60.3	56.0	58.0	52.0	43.3	57.0	55.7	52.0	52.0	55.7	53.7	57.0	55.4	57.7	53.7	55.7	54.7
5	IMHB 1538	53.0	56.3	52.0	53.8	54.3	45.3	57.0	53.0	51.0	51.6	51.7	47.7	48.0	49.1	53.7	49.0	51.3	51.7
6	HKH 425	64.7	60.7	57.7	61.0	60.0	44.7	57.3	63.3	56.0	55.3	58.0	56.7	55.7	56.8	61.3	58.7	60.0	58.1
7	IMH 1525	59.0	60.7	59.3	59.7	59.3	45.7	57.0	57.7	54.0	53.6	57.3	47.0	47.7	50.7	60.7	56.3	58.5	55.5
8	MBC-11-15	56.3	59.3	56.3	57.3	55.0	45.0	53.0	57.7	54.0	52.4	54.0	51.3	54.3	53.2	57.3	54.3	55.8	54.5
9	ASKBH1	61.3	62.3	56.3	60.0	55.7	44.7	54.7	57.7	52.0	52.3	54.7	51.0	49.0	51.6	61.3	56.3	58.8	55.2
10	BAUM-3	63.0	61.3	58.0	60.8	51.7	46.3	59.7	63.3	56.0	56.3	57.7	53.7	58.0	56.4	61.7	56.7	59.2	57.5
11	IMHB 1531	59.7	59.3	56.7	58.6	56.0	45.0	53.7	57.0	54.0	52.4	55.7	52.7	56.7	55.0	57.7	57.7	57.7	55.5
12	IMHB 1537	55.0	60.0	56.0	57.0	55.3	45.7	56.7	56.7	48.0	51.8	52.0	48.3	49.0	49.8	56.3	50.7	53.5	53.1
13	DMRH 1305	50.3	56.3	55.7	54.1	51.7	46.0	54.0	53.7	49.5	50.8	52.3	48.3	49.0	49.9	57.0	53.0	55.0	52.1
14	GAYMH-1	53.0	59.3	53.7	55.3	55.0	46.7	54.0	52.3	51.5	51.1	53.3	47.3	43.3	48.0	55.3	52.7	54.0	52.1
15	IMHB 1539	55.7	60.0	57.0	57.6	54.0	39.0	54.7	55.7	49.0	49.6	51.7	49.0	47.7	49.4	55.3	49.7	52.5	52.2
16	IMHB 1529	57.0	57.7	54.3	56.3	55.7	45.0	57.0	53.7	50.0	51.4	53.0	51.0	50.0	51.3	56.0	52.0	54.0	53.3
17	Vivek MH 27	52.7	54.3	50.0	52.3	52.7	40.3	56.0	55.0	50.0	50.3	51.0	48.0	45.0	48.0	56.7	48.3	52.5	50.8
	CHECKS																		
18	HM4	55.7	59.3	57.3	57.4	54.7	41.3	56.7	60.0	52.0	52.5	55.7	51.0	57.3	54.7	58.3	55.0	56.7	54.9
	Loc. Mean	**56.5**	**58.9**	**55.4**	**56.9**	**54.4**	**44.2**	**55.7**	**56.6**	**51.6**	**52.0**	**54.0**	**50.1**	**51.0**	**51.7**	**57.5**	**53.4**	**55.5**	**53.8**
	C.D. (5%)	2.03	1.47	1.64	2.84	2.15	1.35	1.41	2.33	0.62	3.62	2.11	4.81	0.78	3.48	1.20	1.86	2.60	1.70
	C.V. (%)	2.16	1.50	1.78	3.01	2.38	1.84	1.53	2.48	0.73	4.90	2.36	5.79	0.92	4.05	1.26	2.10	2.22	4.08
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 20 (Continued)

		PLANT HEIGHT(cm)																					
					NHZ			NWPZ					NEPZ				PZ					CWZ	OV'L
S.No.	PEDIGREE	ALMO	BAJA	KANG	Mean	KARN	PANT	Mean	RANC	BHUB	VARA	BAHR	Mean	HYDE	KARI	COIM	Mean	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	IMHB 1532	210.0	172.3	166.7	183.0	186.7	230.0	208.3	258.7	154.0	176.0	218.9	201.9	241.7	166.0	192.6	200.1	195.0	153.3	168.3	149.7	166.6	190.0
2	BVM-2	210.0	158.3	158.3	175.6	191.7	225.0	208.3	143.2	169.3	166.7	187.1	166.6	184.3	134.0	173.8	164.0	155.0	158.3	154.4	178.7	161.6	171.8
3	ABH9001	193.3	145.0	184.3	174.2	165.0	224.0	194.5	139.9	162.7	133.3	170.6	151.6	189.3	131.3	163.1	161.3	160.0	141.7	152.7	164.3	154.7	163.8
4	AH5021	238.3	173.3	180.7	197.4	176.7	255.0	215.8	191.0	160.3	175.0	218.2	186.1	254.3	171.0	211.8	212.4	248.3	151.7	181.1	137.7	179.7	195.3
5	IMHB 1538	203.3	166.0	176.7	182.0	240.0	227.3	233.7	168.5	157.3	151.0	206.8	170.9	222.0	147.0	181.6	183.5	158.3	131.7	167.3	158.7	154.0	179.0
6	HKH 425	225.0	183.3	175.3	194.6	228.3	250.3	239.3	174.3	170.0	173.3	229.1	186.7	247.3	151.3	203.5	200.7	200.0	166.7	169.2	148.0	171.0	193.4
7	IMH 1525	240.0	170.0	176.7	195.6	198.3	249.0	223.7	155.9	161.7	164.3	187.0	167.2	237.0	150.0	186.9	191.3	203.7	140.0	170.5	177.7	173.0	185.5
8	MBC-11-15	225.0	161.7	172.7	186.4	203.3	234.3	218.8	172.1	161.7	164.3	219.3	179.3	222.0	148.3	189.8	186.7	210.0	151.7	185.8	138.7	171.5	185.0
9	ASKBH1	210.0	175.7	179.0	188.2	196.7	236.3	216.5	174.1	166.7	166.7	167.0	168.6	223.0	151.0	183.9	186.0	138.3	160.0	168.3	145.7	153.1	177.6
10	BAUM-3	233.3	176.7	178.0	196.0	191.7	261.3	226.5	187.0	157.7	171.0	194.6	177.6	264.3	165.0	215.5	214.9	181.7	175.0	178.1	162.0	174.2	193.3
11	IMHB 1531	230.0	166.7	186.0	194.2	231.7	237.7	234.7	183.2	158.3	151.7	203.4	174.2	232.7	151.0	189.9	191.2	205.0	151.7	169.0	162.3	172.0	188.1
12	IMHB 1537	231.7	163.3	172.0	189.0	215.0	237.0	226.0	172.1	160.7	166.0	218.3	179.3	203.7	142.3	192.5	179.5	168.3	138.3	175.2	175.7	164.4	183.3
13	DMRH 1305	185.0	133.3	173.0	163.8	231.7	182.3	207.0	133.9	165.0	126.0	162.6	146.9	198.3	129.3	159.3	162.3	170.0	130.0	162.6	153.0	153.9	162.2
14	GAYMH-1	201.7	167.0	184.7	184.4	166.7	249.3	208.0	171.2	168.7	161.0	205.3	176.5	213.0	157.7	196.1	188.9	176.7	148.3	190.5	153.3	167.2	181.9
15	IMHB 1539	211.7	165.0	175.0	183.9	186.7	237.3	212.0	155.3	174.7	165.0	199.7	173.7	218.3	150.3	189.4	186.0	145.0	140.0	173.9	121.0	145.0	175.5
16	IMHB 1529	215.0	140.0	168.0	174.3	216.7	210.7	213.7	146.9	158.7	136.7	168.0	152.6	187.3	128.3	162.1	159.3	155.0	138.3	142.9	158.3	148.7	164.6
17	Vivek MH 27	206.7	147.7	173.3	175.9	213.3	230.7	222.0	152.5	161.7	141.7	178.2	158.5	199.0	131.0	169.0	166.3	170.0	143.3	162.4	150.7	156.6	170.7
	CHECKS																						
18	HM4	226.7	143.3	170.0	180.0	190.0	236.0	213.0	144.8	145.0	146.7	202.6	159.8	208.3	145.3	179.4	177.7	168.3	150.0	162.7	172.3	163.4	174.5
	Loc. Mean	**216.5**	**161.6**	**175.0**	**184.4**	**201.7**	**234.1**	**217.9**	**168.0**	**161.9**	**157.6**	**196.5**	**171.0**	**219.2**	**147.2**	**185.6**	**184.0**	**178.3**	**148.3**	**168.6**	**156.0**	**162.8**	**179.8**
	C.D. (5%)	15.98	10.20	6.61	17.79	7.60	26.96	49.99	48.22	5.79	16.04	22.44	22.22	12.63	7.39	6.04	13.34	11.61	13.86	28.00	37.36	24.23	10.35
	C.V. (%)	4.45	3.80	2.28	5.82	2.27	6.94	10.87	17.29	2.16	6.13	6.88	9.15	3.47	3.02	1.96	4.37	3.92	5.63	10.01	14.43	10.48	8.27
	F (Prob)	0.00	0.00	0.00	0.02	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.22	0.21	0.00

Table No. 20 (Continued)

		EAR HEIGHT(cm)														
				NHZ	NWPZ				NEPZ						CWZ	OV'L
S.No.	PEDIGREE	BAJA	KANG	Mean	PANT	RANC	BHUB	VARA	Mean	COIM	UDAI	CHHI	AMBI	GODH	Mean	Mean
1	IMHB 1532	88.3	92.3	90.3	86.0	89.7	69.7	106.7	88.7	110.5	105.0	61.7	81.4	76.7	81.2	88.0
2	BVM-2	61.7	79.3	70.5	48.7	61.4	66.3	76.0	67.9	91.0	65.0	73.3	60.8	90.7	72.5	70.4
3	ABH9001	56.7	86.7	71.7	64.3	61.9	65.0	71.0	66.0	91.2	81.7	58.3	69.7	83.3	73.3	71.8
4	AH5021	79.0	96.3	87.7	82.7	82.9	64.7	95.0	80.8	117.9	105.0	56.7	81.3	64.3	76.8	84.2
5	IMHB 1538	64.3	110.3	87.3	58.0	75.1	68.7	86.7	76.8	108.8	75.0	55.0	73.7	79.3	70.8	77.7
6	HKH 425	83.3	98.3	90.8	83.0	78.3	60.3	81.7	73.4	108.6	100.0	58.3	76.7	72.0	76.8	81.9
7	IMH 1525	76.7	91.0	83.8	77.7	71.5	71.0	89.3	77.3	99.5	100.0	55.0	76.1	80.7	77.9	80.8
8	MBC-11-15	71.0	86.7	78.8	61.7	74.5	62.7	90.0	75.7	97.9	115.0	66.7	78.5	58.3	79.6	78.5
9	ASKBH1	83.3	96.7	90.0	77.7	70.4	60.0	100.0	76.8	115.1	65.0	63.3	71.0	69.3	67.2	79.3
10	BAUM-3	65.0	95.3	80.2	104.7	89.1	69.0	97.7	85.3	124.1	88.3	70.0	88.9	87.0	83.6	89.0
11	IMHB 1531	93.3	93.0	93.2	86.3	86.9	67.0	88.3	80.8	116.6	103.3	61.7	82.9	82.7	82.6	87.5
12	IMHB 1537	68.3	88.3	78.3	64.0	75.1	67.0	91.7	77.9	104.7	78.3	63.3	73.5	90.3	76.4	78.6
13	DMRH 1305	51.7	78.7	65.2	53.3	54.2	60.7	66.7	60.5	81.1	80.0	50.0	63.5	73.0	66.6	64.8
14	GAYMH-1	78.3	102.3	90.3	66.3	77.9	70.7	91.0	79.8	109.2	86.7	66.7	81.9	74.3	77.4	82.3
15	IMHB 1539	81.7	92.3	87.0	60.3	71.6	71.0	88.3	77.0	105.9	65.0	61.7	72.3	62.7	65.4	75.7
16	IMHB 1529	64.0	90.3	77.2	65.3	63.8	53.7	71.0	62.8	95.4	80.0	50.0	61.1	64.7	64.0	69.0
17	Vivek MH 27	68.3	84.0	76.2	68.7	70.0	61.7	61.7	64.4	87.7	75.0	68.3	64.3	62.3	67.5	70.2
	CHECKS															
18	HM4	63.3	87.7	75.5	66.7	66.9	54.3	81.0	67.4	104.8	85.0	61.7	73.3	83.3	75.8	75.3
	Loc. Mean	**72.1**	**91.6**	**81.9**	**70.9**	**73.4**	**64.6**	**85.2**	**74.4**	**103.9**	**86.3**	**61.2**	**73.9**	**75.3**	**74.2**	**78.0**
	C.D. (5%)	8.10	5.83	15.82	9.97	10.97	3.46	12.29	10.74	5.69	9.41	11.39	10.36	22.45	14.01	7.05
	C.V. (%)	6.77	3.83	9.15	8.48	9.00	3.23	8.69	8.70	3.30	6.57	11.21	8.45	17.98	13.31	10.74
	F (Prob)	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.10	0.12	0.00

Table No. 20 (Continued)

		COB COUNT ('000/ha)																
		NHZ			NWPZ				NEPZ							PZ	CWZ	OV'L
S.No.	PEDIGREE	ALMO	LUDH	PANT	Mean	DHOL	RANC	BAHR	Mean	HYDE	KARI	DHAR	KOLH	MAND	COIM	Mean	GODH	Mean
1	IMHB 1532	187.2	187.2	142.5	164.8	54.7	192.6	114.2	120.5	138.6	136.9	26.7	73.3	96.4	171.9	136.0	40.3	133.0
2	BVM-2	186.7	199.0	153.9	176.4	48.1	162.8	117.4	109.4	152.2	122.5	101.7	110.4	73.8	148.3	124.2	29.6	126.7
3	ABH9001	197.2	180.9	202.5	191.7	50.3	172.0	107.6	110.0	190.8	147.8	81.3	132.6	106.5	195.1	160.1	33.3	144.0
4	AH5021	167.8	174.7	172.5	173.6	46.1	158.6	103.1	102.6	117.5	128.9	58.0	88.5	77.7	176.4	125.1	29.2	122.9
5	IMHB 1538	212.8	191.0	227.5	209.2	57.5	169.9	109.7	112.4	182.8	190.6	58.7	113.5	104.8	162.5	160.1	36.1	149.6
6	HKH 425	102.8	160.1	106.7	133.4	46.9	158.0	118.8	107.9	149.7	94.2	31.9	67.7	57.4	153.8	113.8	24.1	106.6
7	IMH 1525	186.1	196.5	170.8	183.7	48.1	164.9	119.1	110.7	148.9	153.3	43.4	68.4	77.1	157.6	134.2	35.2	132.5
8	MBC-11-15	191.1	183.0	187.5	185.2	45.3	167.3	103.8	105.5	138.9	122.8	67.4	80.2	79.8	174.3	128.9	36.6	130.0
9	ASKBH1	149.4	180.9	152.5	166.7	50.0	156.0	102.4	102.8	153.1	95.0	53.5	54.9	64.3	171.2	120.9	25.5	118.2
10	BAUM-3	133.3	165.6	143.6	154.6	45.8	156.0	100.3	100.7	121.4	95.6	22.6	38.2	66.4	174.0	114.3	23.6	111.4
11	IMHB 1531	212.2	186.5	131.9	159.2	49.2	169.9	100.7	106.6	152.2	122.5	52.8	83.0	78.6	163.9	129.3	37.5	127.7
12	IMHB 1537	217.8	176.7	235.0	205.9	54.7	173.5	104.2	110.8	163.9	141.7	83.7	125.3	89.6	177.1	143.1	42.1	143.3
13	DMRH 1305	225.0	180.2	196.4	188.3	47.8	155.1	101.4	101.4	137.5	124.2	74.7	77.8	86.9	133.0	120.4	23.6	128.3
14	GAYMH-1	233.3	148.3	234.2	191.2	50.0	183.9	103.8	112.6	176.9	171.4	90.6	129.9	91.4	175.0	153.7	30.1	145.3
15	IMHB 1539	205.6	167.4	193.9	180.6	49.4	171.4	103.8	108.2	150.6	115.8	78.5	99.7	56.8	167.7	122.7	32.9	128.7
16	IMHB 1529	185.0	192.7	227.5	210.1	51.1	161.3	124.3	112.2	162.2	163.9	81.6	58.7	78.0	184.7	147.2	31.5	142.0
17	Vivek MH 27	186.7	191.3	189.7	190.5	56.1	180.7	106.3	114.3	143.3	129.2	95.8	104.2	82.7	168.1	130.8	34.7	133.5
	CHECKS																	
18	HM4	167.8	158.3	210.6	184.4	51.1	169.6	114.9	111.9	160.6	142.5	68.1	99.7	93.8	153.1	137.5	40.3	133.0
	Loc. Mean	**186.0**	**178.9**	**182.2**	**180.5**	**50.1**	**168.0**	**108.7**	**108.9**	**152.3**	**133.3**	**65.0**	**89.2**	**81.2**	**167.1**	**133.5**	**32.6**	**130.9**
	C.D. (5%)	25.96	30.26	26.82	61.74	10.70	14.40	5.33	11.65	22.22	30.37	29.45	39.32	14.88	7.79	20.61	11.86	14.41
	C.V. (%)	8.41	10.19	8.87	16.21	12.87	5.17	2.95	6.44	8.79	13.74	27.28	26.56	11.04	2.81	10.88	21.95	13.08
	F (Prob)	0.00	0.07	0.00	0.57	0.55	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00

Locations Rejected due to High C.V.(i.e.> 25%) : DHARWAD 27.3%: KOLHAPUR 26.6%

Table No. 20 (Continued)

		COB LENGTH(cm)													COB GIRTH(cm)												
		NHZ		NWPZ			NEPZ					PZ	CWZ	OV'L	NHZ		NWPZ			NEPZ					PZ	CWZ	OV'L
S.No.	PEDIGREE	ALMO	LUDH	Mean	DHOL	BAHR	Mean	HYDE	KARI	DHAR	KOLH	Mean	GODH	Mean	ALMO	LUDH	Mean	DHOL	BAHR	Mean	HYDE	KARI	DHAR	KOLH	Mean	GODH	Mean
1	IMHB 1532	9.7	7.8	7.8	9.6	8.7	9.2	7.9	8.1	11.9	10.3	9.5	6.7	9.0	4.7	2.1	2.1	4.7	1.0	1.0	1.1	1.2	2.5	3.7	2.0	3.7	2.5
2	BVM-2	8.0	8.3	8.3	8.6	10.1	9.3	9.0	9.0	12.8	8.4	9.8	7.7	9.1	3.8	2.3	2.3	3.9	1.4	1.4	1.1	1.2	2.4	3.3	1.9	4.0	2.4
3	ABH9001	7.7	7.9	7.9	9.5	9.7	9.6	7.9	8.1	10.4	7.7	8.5	7.0	8.4	4.2	2.3	2.3	3.9	1.3	1.3	1.1	1.2	1.5	2.7	1.7	4.0	2.4
4	AH5021	9.1	7.6	7.6	10.5	9.0	9.8	8.6	8.6	12.5	9.8	9.9	8.0	9.3	4.1	2.1	2.1	5.3	1.0	1.0	1.1	1.1	2.0	3.7	2.0	4.0	2.5
5	IMHB 1538	9.5	8.8	8.8	9.6	8.1	8.9	7.6	7.5	12.4	8.4	9.0	7.3	8.8	4.5	2.1	2.1	5.3	1.1	1.1	1.2	1.1	1.8	3.1	1.8	4.0	2.4
6	HKH 425	8.3	8.0	8.0	8.0	9.3	8.6	8.1	7.5	12.4	8.6	9.2	7.3	8.6	4.5	2.2	2.2	3.4	1.1	1.1	1.0	1.2	1.9	3.3	1.8	4.0	2.5
7	IMH 1525	10.1	8.8	8.8	10.6	11.0	10.8	8.5	8.4	12.5	10.8	10.0	7.0	9.7	4.2	2.0	2.0	4.4	1.3	1.3	1.2	1.3	1.8	2.8	1.8	4.0	2.4
8	MBC-11-15	8.7	7.8	7.8	9.7	9.4	9.6	8.5	8.6	10.3	10.4	9.5	7.0	9.0	4.4	2.2	2.2	3.7	1.2	1.2	1.1	1.3	2.4	3.4	2.0	4.0	2.5
9	ASKBH1	8.3	7.9	7.9	7.0	10.3	8.7	8.7	8.8	12.0	10.9	10.1	6.7	9.0	4.1	2.1	2.1	3.5	1.2	1.2	1.1	1.1	2.1	3.0	1.7	4.0	2.4
10	BAUM-3	8.4	8.3	8.3	6.4	9.9	8.2	8.6	8.4	10.0	9.6	9.2	7.7	8.6	4.3	2.1	2.1	2.9	1.4	1.4	1.1	1.1	2.4	3.1	1.8	4.0	2.4
11	IMHB 1531	9.0	8.5	8.5	11.6	9.8	10.7	8.1	7.3	11.9	9.3	9.1	7.3	9.2	4.3	2.2	2.2	5.1	1.2	1.2	1.1	1.4	1.8	3.1	1.9	4.0	2.5
12	IMHB 1537	8.6	7.7	7.7	8.8	8.6	8.7	7.9	7.6	12.6	9.2	9.3	7.3	8.7	4.2	2.2	2.2	4.1	1.0	1.0	1.2	1.2	1.9	3.1	1.9	3.7	2.4
13	DMRH 1305	9.6	8.4	8.4	9.7	10.0	9.9	8.7	8.8	13.3	12.0	10.7	7.7	9.8	5.0	2.2	2.2	4.7	1.2	1.2	1.2	1.2	2.3	3.3	1.9	4.0	2.6
14	GAYMH-1	9.5	7.5	7.5	9.1	8.9	9.0	8.5	8.9	12.2	9.0	9.7	7.3	9.0	4.5	2.3	2.3	4.4	1.0	1.0	1.1	1.0	2.0	3.1	1.7	4.0	2.4
15	IMHB 1539	10.0	7.8	7.8	9.2	9.1	9.1	9.9	9.4	12.5	8.7	10.1	7.0	9.3	4.3	2.4	2.4	4.5	1.2	1.2	1.3	1.3	2.0	3.1	1.9	3.7	2.5
16	IMHB 1529	9.2	9.1	9.1	9.8	8.9	9.4	9.4	9.4	11.4	9.6	10.0	7.0	9.3	4.5	2.2	2.2	4.7	1.0	1.0	1.0	1.0	1.8	3.0	1.7	4.0	2.4
17	Vivek MH 27	9.5	8.6	8.6	8.7	8.4	8.6	8.6	8.8	12.0	8.1	9.4	7.0	8.9	4.1	2.3	2.3	3.8	1.0	1.0	1.1	1.1	1.7	2.7	1.6	4.0	2.3
	CHECKS																										
18	HM4	9.9	8.4	8.4	9.5	10.1	9.8	8.2	8.3	11.1	8.9	9.1	7.7	9.1	4.4	2.2	2.2	4.6	1.2	1.2	1.1	1.3	1.6	3.1	1.8	4.0	2.5
	Loc. Mean	**9.1**	**8.2**	**8.2**	**9.2**	**9.4**	**9.3**	**8.5**	**8.4**	**11.9**	**9.4**	**9.6**	**7.3**	**9.0**	**4.3**	**2.2**	**2.2**	**4.3**	**1.2**	**1.2**	**1.1**	**1.2**	**2.0**	**3.1**	**1.8**	**3.9**	**2.4**
	C.D. (5%)	0.29	1.39	1.39	2.68	0.99	2.18	1.45	1.00	1.50	1.44	1.07	1.37	0.70	0.17	0.29	0.29	2.14	0.22	0.22	0.19	0.28	0.82	0.78	0.30	0.39	0.19
	C.V. (%)	1.91	10.21	10.21	17.55	6.32	11.10	10.31	7.13	7.58	9.20	7.91	11.35	8.36	2.38	8.07	8.07	30.19	11.31	11.31	10.09	14.08	24.82	14.86	10.01	5.98	7.18
	F (Prob)	0.00	0.51	0.51	0.08	0.00	0.54	0.28	0.00	0.00	0.00	0.04	0.86	0.01	0.00	0.63	0.63	0.67	0.01	0.01	0.33	0.43	0.35	0.33	0.44	0.60	0.72

Locations Rejected due to High C.V.(i.e.> 20%) : DHOLI 30.2%: DHARWAD 24.8%

TABLE No. 21: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, KANGRA, UDHAMPUR IN TRIAL No. TR102 DURING KHARIF (2015)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE Local check				GRAIN YIELD % SUPERIORITY OVER THE BIO9544			
		BAJA	R	KANG	R	UDHA	R	NHZ MEAN	R	BAJA	KANG	UDHA	NHZ MEAN	BAJA	KANG	UDHA	NHZ MEAN
1	LMH1615	11139	1	6819	14	6430	17	8129	9	47.3	30	1.9	27.5	17	3.3	-	1
2	LMH1715	10774	4	6902	13	7025	12	8233	7	42.5	31.6	11.3	29.2	13.1	4.5	-	2.3
3	LMH1815	9925	8	6581	18	6285	19	7597	14	31.2	25.4	-	19.2	4.2	-	-	-
4	KMH13-17	7784	20	8305	4	6054	20	7381	19	2.9	58.3	-	15.8	-	25.8	-	-
5	PMH35	7615	21	5099	24	7320	10	6678	22	0.7	-	16	4.8	-	-	-	-
6	PMSW4	9623	11	6911	12	7190	11	7908	12	27.2	31.7	13.9	24.1	1.1	4.7	-	-
7	LMH1915	10034	5	6983	10	8273	3	8430	4	32.7	33.1	31	32.2	5.4	5.8	3.1	4.7
8	LMH2015	7493	23	5946	22	7415	9	6951	21	-	13.3	17.4	9.1	-	-	-	-
9	PMH48	9789	9	7779	6	8479	2	8682	2	29.4	48.3	34.3	36.2	2.8	17.8	5.7	7.9
10	LMH2115	8436	18	6233	20	8002	6	7557	15	11.5	18.8	26.7	18.6	-	-	-	-
11	KMH13-79	10026	6	8388	3	7690	7	8701	1	32.6	59.9	21.8	36.5	5.3	27	-	8.1
12	LMH2215	11019	3	5974	21	6807	14	7933	11	45.7	13.9	7.8	24.5	15.7	-	-	-
13	LMH2315	8828	15	8526	1	8190	4	8515	3	16.7	62.5	29.7	33.6	-	29.1	2.1	5.8
14	PMSY-3	8734	16	7335	9	6488	16	7519	16	15.5	39.8	2.8	18	-	11.1	-	-
15	LMH2415	11034	2	7443	8	6503	15	8327	5	45.9	41.9	3	30.6	15.9	12.7	-	3.4
16	KMH13-15	8516	17	8407	2	7488	8	8137	8	12.6	60.2	18.6	27.7	-	27.3	-	1.1
17	LMH2515	9104	14	7467	7	5607	24	7393	18	20.4	42.3	-	16	-	13.1	-	-
18	LMH2615	9332	13	6805	15	6976	13	7704	13	23.4	29.7	10.5	20.9	-	3.1	-	-
19	UDMH122	5621	25	2091	25	5692	23	4468	25	-	-	-	-	-	-	-	-
20	UDMH121	9937	7	6469	19	5829	21	7411	17	31.4	23.3	-	16.3	4.3	-	-	-
21	LMH2715	9656	10	6679	16	8631	1	8322	6	27.7	27.3	36.7	30.6	1.4	1.2	7.6	3.4
22	KMH13-5	7976	19	8265	5	5188	25	7143	20	5.5	57.5	-	12.1	-	25.2	-	-
23	UDMH123	6531	24	6947	11	5771	22	6416	23	-	32.4	-	0.7	-	5.2	-	-
	CHECKS																
24	Local check	7563	22	5247	23	6313	18	6374	24	-	-	-	-	-	-	-	-
25	BIO9544	9523	12	6603	17	8023	5	8050	10	25.9	25.8	27.1	26.3	-	-	-	-
	Location Mean	**9041**		**6808**		**6947**		**7598**									
	C.D. (5%)	1677		1443		612		1244									
	C.V. (%)	11.29		10.24		5.36		-									
	F (Prob)	0		0		0											
	Plot Size	3		3.12		4.8		-									
	AGRONOMY DATA																
	Sowing Date	11-06		13-06		3-07		-									
	Harvest Date	30-09		1-10		15-10		-									
	Irrigation Nos	3		-		-		-									
	Ferilizer Applied N	120		120		120		-									
	Ferilizer Applied P	60		60		60		-									
	Ferilizer Applied K	40		40		40		-									

Table No. 21 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %				MOISTURE % AT HARVEST				STAND AT HARVEST ('000/ha)			
		BAJA	KANG	UDHA	NHZ Mean	BAJA	KANG	UDHA	NHZ Mean	BAJA	KANG	UDHA	NHZ Mean
1	LMH1615	84.2	81.4	82.3	82.6	26.4	25.6	24.1	25.3	70.0	73.7	65.3	69.7
2	LMH1715	83.4	83.3	81.9	82.8	26.7	25.5	23.6	25.3	84.4	65.7	75.0	75.0
3	LMH1815	87.4	82.4	82.9	84.2	25.9	23.6	24.2	24.6	64.4	70.5	72.9	69.3
4	KMH13-17	81.9	85.0	81.7	82.9	25.9	23.7	24.4	24.7	78.9	72.1	68.8	73.3
5	PMH35	86.9	85.6	82.9	85.1	26.7	26.0	23.4	25.3	74.4	65.7	73.6	71.3
6	PMSW4	83.6	82.8	79.2	81.8	26.7	25.2	24.9	25.6	73.3	70.5	76.4	73.4
7	LMH1915	85.6	82.8	84.0	84.1	26.9	26.8	24.6	26.1	74.4	76.9	76.4	75.9
8	LMH2015	88.3	82.3	82.5	84.4	26.1	25.5	24.7	25.4	71.1	70.5	72.9	71.5
9	PMH48	85.4	84.8	84.6	84.9	26.7	26.3	24.0	25.7	70.0	78.5	75.7	74.7
10	LMH2115	86.1	80.4	83.5	83.3	26.3	26.2	25.2	25.9	71.1	70.5	72.9	71.5
11	KMH13-79	87.8	83.4	81.6	84.3	25.9	24.6	24.7	25.1	76.7	68.9	69.4	71.7
12	LMH2215	80.6	78.9	80.5	80.0	26.9	26.4	23.9	25.7	77.8	68.9	70.8	72.5
13	LMH2315	85.4	84.3	84.1	84.6	26.3	25.5	23.9	25.2	72.2	70.5	72.2	71.7
14	PMSY-3	82.6	84.1	80.8	82.5	26.1	26.1	24.4	25.5	66.7	65.7	73.6	68.7
15	LMH2415	83.3	82.5	83.0	82.9	26.7	26.0	24.6	25.7	78.9	65.7	70.8	71.8
16	KMH13-15	84.8	84.1	82.8	83.9	26.5	24.5	23.7	24.9	81.1	78.5	72.2	77.3
17	LMH2515	86.2	82.2	82.3	83.6	26.9	26.0	24.2	25.7	72.2	68.9	68.1	69.7
18	LMH2615	82.3	79.6	82.7	81.5	26.7	24.2	24.9	25.3	73.3	75.3	72.9	73.9
19	UDMH122	81.5	75.8	80.8	79.4	27.4	25.4	24.3	25.7	72.2	72.1	69.4	71.3
20	UDMH121	83.6	81.6	81.9	82.4	26.7	26.2	25.2	26.0	67.8	67.3	70.8	68.6
21	LMH2715	83.0	81.0	82.1	82.0	26.7	27.1	24.8	26.2	72.2	70.5	76.4	73.0
22	KMH13-5	81.9	83.5	79.7	81.7	26.1	24.1	24.8	25.0	72.2	65.7	69.4	69.1
23	UDMH123	76.6	80.5	82.7	79.9	26.7	26.5	24.7	26.0	68.9	72.1	69.4	70.1
	CHECKS												
24	Local check	81.5	80.0	81.8	81.1	26.5	25.6	23.8	25.3	72.2	68.9	70.1	70.4
25	BIO9544	84.7	79.8	82.9	82.5	26.9	25.8	24.8	25.8	70.0	73.7	67.4	70.4
	Loc. Mean	**83.9**	**82.1**	**82.2**	**82.7**	**26.5**	**25.5**	**24.4**	**25.5**	**73.1**	**70.7**	**71.7**	**71.8**
	C.D. (5%)	0.00	1.68	1.16	2.88	0.41	1.80	0.68	0.98	9.31	6.37	4.77	6.23
	C.V. (%)	0.00	0.99	0.86	2.12	0.94	3.42	1.70	2.35	7.76	4.37	4.05	5.28
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.10	0.02	0.00	0.00	0.38

Table No. 21 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK			
		BAJA	KANG	UDHA	NHZ Mean	BAJA	KANG	UDHA	NHZ Mean	BAJA	KANG	UDHA	NHZ Mean
1	LMH1615	58.7	53.0	51.3	54.3	60.7	56.0	54.7	57.1	99.0	91.5	94.7	95.1
2	LMH1715	61.7	52.5	53.3	55.8	63.7	55.5	57.7	58.9	101.7	91.0	96.0	96.2
3	LMH1815	53.7	48.0	50.7	50.8	55.7	51.5	54.7	53.9	95.0	87.0	95.0	92.3
4	KMH13-17	59.7	47.0	49.3	52.0	62.0	50.5	53.3	55.3	97.3	86.0	94.3	92.6
5	PMH35	58.7	47.5	49.7	51.9	60.7	51.0	54.0	55.2	100.3	86.5	94.7	93.8
6	PMSW4	61.3	50.5	50.7	54.2	63.7	53.5	54.7	57.3	100.3	89.0	94.7	94.7
7	LMH1915	63.7	56.0	53.7	57.8	66.7	59.0	57.3	61.0	104.7	94.5	96.3	98.5
8	LMH2015	59.3	50.0	50.3	53.2	62.3	53.5	54.3	56.7	97.3	89.0	95.0	93.8
9	PMH48	64.7	53.5	54.0	57.4	66.7	57.5	57.7	60.6	105.0	93.0	96.0	98.0
10	LMH2115	63.7	54.0	53.7	57.1	65.7	57.5	57.0	60.1	99.7	93.0	96.0	96.2
11	KMH13-79	66.0	46.0	48.3	53.4	68.0	49.0	52.7	56.6	98.0	84.5	94.3	92.3
12	LMH2215	63.3	55.5	52.7	57.2	65.3	59.0	57.0	60.4	103.7	94.5	96.0	98.1
13	LMH2315	64.7	54.5	53.3	57.5	67.0	58.0	57.3	60.8	101.7	93.5	95.3	96.8
14	PMSY-3	61.0	50.0	50.3	53.8	63.3	53.5	54.0	56.9	101.0	89.0	94.7	94.9
15	LMH2415	62.7	54.0	54.0	56.9	65.3	57.5	58.0	60.3	103.0	93.0	96.7	97.6
16	KMH13-15	60.3	47.5	49.7	52.5	63.3	50.5	53.3	55.7	99.3	86.0	94.3	93.2
17	LMH2515	63.0	55.0	51.3	56.4	65.7	58.5	54.7	59.6	101.0	94.0	95.3	96.8
18	LMH2615	63.7	55.5	53.3	57.5	65.7	59.0	57.3	60.7	97.3	94.5	96.0	95.9
19	UDMH122	65.7	56.0	54.0	58.6	67.7	60.5	57.7	61.9	104.7	96.0	96.7	99.1
20	UDMH121	63.3	55.0	52.0	56.8	65.3	58.5	55.7	59.8	105.3	94.0	96.3	98.6
21	LMH2715	63.0	53.5	52.7	56.4	65.0	57.5	56.3	59.6	100.3	93.0	96.0	96.4
22	KMH13-5	59.0	48.5	50.3	52.6	61.0	51.5	54.3	55.6	101.3	87.0	95.0	94.4
23	UDMH123	66.0	53.5	51.0	56.8	68.0	57.5	55.0	60.2	107.0	93.0	96.0	98.7
	CHECKS												
24	Local check	63.3	47.0	52.3	54.2	65.7	51.0	56.3	57.7	100.3	86.5	96.0	94.3
25	BIO9544	68.3	56.0	53.7	59.3	70.7	59.5	57.7	62.6	106.7	95.0	96.0	99.2
	Loc. Mean	**62.3**	**52.0**	**51.8**	**55.4**	**64.6**	**55.5**	**55.7**	**58.6**	**101.2**	**91.0**	**95.5**	**95.9**
	C.D. (5%)	2.15	1.71	1.48	3.14	2.28	1.71	1.25	3.23	3.57	1.71	1.27	3.32
	C.V. (%)	2.11	1.60	1.74	3.45	2.15	1.49	1.37	3.36	2.15	0.91	0.81	2.11
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 21 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) BAJA	KANG	UDHA	NHZ Mean	EAR HEIGHT(cm) BAJA	KANG	UDHA	NHZ Mean
1	LMH1615	276.7	275.0	235.3	262.3	156.7	146.5	107.1	136.7
2	LMH1715	248.3	241.0	203.7	231.0	135.0	119.0	91.7	115.2
3	LMH1815	210.0	218.5	205.7	211.4	113.3	100.0	96.7	103.3
4	KMH13-17	256.7	238.5	193.6	229.6	143.3	111.0	94.3	116.2
5	PMH35	226.7	258.5	205.7	230.3	131.7	129.0	92.4	117.7
6	PMSW4	253.3	271.5	220.1	248.3	151.7	150.0	103.1	134.9
7	LMH1915	253.3	264.0	215.3	244.2	140.0	149.5	98.6	129.4
8	LMH2015	221.7	237.0	210.5	223.1	118.3	131.5	90.1	113.3
9	PMH48	253.3	265.5	222.3	247.1	140.0	151.5	97.1	129.5
10	LMH2115	215.0	229.0	202.7	215.6	131.7	125.5	97.4	118.2
11	KMH13-79	243.3	227.0	219.7	230.0	145.0	121.0	91.4	119.1
12	LMH2215	270.0	247.5	216.7	244.7	143.3	141.5	98.3	127.7
13	LMH2315	243.3	249.0	213.0	235.1	153.3	145.5	101.3	133.4
14	PMSY-3	256.7	243.5	217.7	239.3	156.7	141.5	99.6	132.6
15	LMH2415	251.7	242.5	217.7	237.3	145.0	130.0	97.9	124.3
16	KMH13-15	241.7	237.5	206.3	228.5	125.0	117.5	91.7	111.4
17	LMH2515	271.7	276.5	210.7	252.9	158.3	157.0	99.7	138.3
18	LMH2615	256.7	256.5	203.1	238.7	156.7	134.0	93.5	128.1
19	UDMH122	210.0	202.5	226.7	213.1	116.7	104.5	111.3	110.8
20	UDMH121	206.7	234.0	202.0	214.2	128.3	123.0	97.1	116.1
21	LMH2715	241.7	249.0	214.7	235.1	138.3	140.0	93.3	123.9
22	KMH13-5	265.0	253.0	205.0	241.0	158.3	131.5	87.3	125.7
23	UDMH123	263.3	244.0	202.6	236.6	140.0	141.0	96.4	125.8
	CHECKS								
24	Local check	260.0	223.5	216.0	233.2	136.7	114.0	97.0	115.9
25	BIO9544	240.0	252.5	187.0	226.5	136.7	142.5	87.1	122.1
	Loc. Mean	**245.5**	**245.5**	**210.9**	**234.0**	**140.0**	**131.9**	**96.5**	**122.8**
	C.D. (5%)	24.92	15.27	13.76	21.96	23.39	8.57	7.49	16.29
	C.V. (%)	6.18	3.01	3.97	5.72	10.18	3.15	4.73	8.08
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 22 **PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, UDHAMPUR, SRINAGAR IN TRIAL No. TR103 DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY									
SI										NHZ		OVER THE Vivek Hybrid 39				NHZ	OVER THE Vivek Hybrid 45				NHZ
No	PEDIGREE	ALMO	R	BAJA	R	UDHA	R	SRIN	R	MEAN	R	ALMO	BAJA	UDHA	SRIN	MEAN	ALMO	BAJA	UDHA	SRIN	MEAN
1	H 21	5681	25	6338	25	6689	7	7558	9	6566	25	-	-	-	1.8	-	-	-	8.9	14.5	-
2	UDMH 124	5755	24	7430	20	6788	5	7999	2	6993	19	-	-	-	7.7	-	-	0.3	10.5	21.2	-
3	FH 3764	8273	7	9843	2	6323	14	7613	8	8013	4	-	18	-	2.5	1.8	0.6	32.9	2.9	15.3	13
4	FH 3765	9180	1	9837	3	6156	16	7688	6	8215	2	10.9	17.9	-	3.5	4.4	11.6	32.8	0.2	16.5	15.8
5	FH 3767	7886	10	8062	18	4439	25	7443	15	6958	22	-	-	-	0.2	-	-	8.9	-	12.7	-
6	LMH 115	7244	18	7978	19	5507	22	7721	4	7113	16	-	-	-	4	-	-	7.7	-	17	0.3
7	LMH 116	7686	14	9762	4	8156	2	7637	7	8310	1	-	17	9.6	2.8	5.6	-	31.8	32.8	15.7	17.1
8	UDMH 125	5867	23	6712	24	6916	4	7495	11	6747	24	-	-	-	0.9	-	-	-	12.6	13.5	-
9	FH 3769	7801	12	8885	8	6465	11	6580	25	7433	12	-	6.5	-	-	-	-	20	5.2	-	4.8
10	FH 3774	8572	3	8879	9	5778	19	8044	1	7818	6	3.6	6.4	-	8.3	-	4.2	19.9	-	21.8	10.2
11	FH 3791	8522	4	9353	6	5536	21	7774	3	7796	8	3	12.1	-	4.7	-	3.6	26.3	-	17.8	9.9
12	FH 3796	7115	20	8326	14	6029	18	7486	12	7239	15	-	-	-	0.8	-	-	12.4	-	13.4	2
13	UDMH 126	6179	21	7321	23	6692	6	7425	17	6904	23	-	-	-	-	-	-	-	9	12.5	-
14	FH 3798	7486	15	8087	17	5507	23	7333	18	7103	17	-	-	-	-	-	-	9.2	-	11.1	0.1
15	FH 3799	7854	11	8441	12	6392	13	6879	22	7392	14	-	1.2	-	-	-	-	14	4.1	4.2	4.2
16	FH 3800	8373	5	8143	16	6162	15	7466	14	7536	11	1.2	-	-	0.6	-	1.8	10	0.3	13.1	6.2
17	H 65	5948	22	8222	15	6688	8	7012	21	6967	20	-	-	-	-	-	-	11	8.9	6.2	-
18	FH 3801	8069	9	9191	7	6467	10	7537	10	7816	7	-	10.2	-	1.5	-	-	24.1	5.3	14.2	10.2
19	FH 3802	7222	19	7408	21	5751	20	7478	13	6965	21	-	-	-	0.7	-	-	0	-	13.3	-
20	LMH 117	9079	2	8753	10	6425	12	6752	23	7752	9	9.7	4.9	-	-	-	10.3	18.2	4.6	2.3	9.3
21	LMH 118	7722	13	9389	5	5212	24	7245	19	7392	13	-	12.6	-	-	-	-	26.8	-	9.7	4.2
22	FH 3803	7309	17	9892	1	6634	9	7070	20	7726	10	-	18.6	-	-	-	-	33.6	8	7.1	8.9
23	FH 3804	7427	16	8641	11	8473	1	7708	5	8062	3	-	3.6	13.9	3.8	2.4	-	16.7	37.9	16.8	13.6
	CHECKS																				
24	Vivek Hybrid 39	8277	6	8342	13	7441	3	7425	16	7871	5	-	-	-	-	-	0.6	12.6	21.1	12.5	11
25	Vivek Hybrid 45	8227	8	7405	22	6142	17	6602	24	7094	18	-	-	-	-	-	-	-	-	-	-
	Location Mean	**7550**		**8426**		**6351**		**7399**		**7431**											
	C.D. (5%)	1017		851		793		371		758											
	C.V. (%)	8.2		6.15		7.6		3.05		-											
	F (Prob)	0		0		0		0													
	Plot Size	3.6		3		4.8		4.8		-											
	AGRONOMY DATA																				
	Sowing Date	3-07		11-06		4-07		27-05		-											
	Harvest Date	26-10		24-09		9-10		30-10		-											
	Irrigation Nos	-		3		-		2		-											
	Ferilizer Applied N	90		120		120		120		-											
	Ferilizer Applied P	60		60		60		80		-											
	Ferilizer Applied K	40		40		40		60		-											

Table No. 22 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %					MOISTURE % AT HARVEST					STAND AT HARVEST ('000/ha)				
		ALMO	BAJA	UDHA	SRIN	NHZ Mean	ALMO	BAJA	UDHA	SRIN	NHZ Mean	ALMO	BAJA	UDHA	SRIN	NHZ Mean
1	H 21	82.3	84.2	77.4	78.3	80.5	18.8	28.3	23.3	19.0	22.3	57.4	67.8	69.4	80.6	68.8
2	UDMH 124	83.0	81.1	81.5	77.3	80.7	18.4	27.5	22.8	22.0	22.7	57.4	77.8	69.4	81.3	71.5
3	FH 3764	81.6	80.8	78.1	76.0	79.1	18.4	27.7	22.8	27.0	24.0	63.0	83.3	68.1	81.3	73.9
4	FH 3765	82.2	80.8	76.6	76.0	78.9	19.2	27.5	22.9	28.0	24.4	59.3	78.9	72.2	82.6	73.3
5	FH 3767	80.8	78.5	75.3	76.3	77.7	18.6	27.9	23.2	28.0	24.4	61.1	78.9	66.7	80.6	71.8
6	LMH 115	83.0	73.5	80.2	78.5	78.8	18.2	27.2	22.9	27.0	23.8	58.3	77.8	67.4	83.3	71.7
7	LMH 116	85.5	82.9	79.1	78.3	81.4	19.1	27.3	22.8	26.0	23.8	61.1	75.6	72.2	80.6	72.4
8	UDMH 125	82.7	81.4	74.3	77.3	78.9	18.6	27.7	22.5	28.0	24.2	56.5	70.0	70.8	82.6	70.0
9	FH 3769	80.1	79.7	79.7	77.8	79.3	19.4	28.0	22.7	26.0	24.0	58.3	73.3	68.1	81.9	70.4
10	FH 3774	80.5	78.7	76.1	77.8	78.3	17.8	28.1	22.9	23.0	22.9	63.0	75.6	65.3	83.3	71.8
11	FH 3791	80.7	79.4	78.2	77.3	78.9	19.8	27.9	23.4	26.0	24.3	59.3	85.6	66.7	82.6	73.5
12	FH 3796	83.0	80.1	77.8	77.8	79.7	18.2	27.6	23.8	27.0	24.2	55.6	76.7	72.2	82.6	71.8
13	UDMH 126	82.1	79.0	77.8	78.8	79.4	17.8	27.1	24.0	26.0	23.7	61.1	82.2	67.4	80.6	72.8
14	FH 3798	83.3	80.4	77.6	78.3	79.9	20.6	27.8	22.5	24.0	23.7	64.8	82.2	66.0	81.3	73.6
15	FH 3799	80.3	78.6	76.8	78.3	78.5	19.1	27.6	24.2	26.5	24.3	62.0	82.2	70.1	83.3	74.4
16	FH 3800	83.9	79.2	79.1	78.8	80.2	18.9	27.9	23.7	23.5	23.5	62.0	76.7	68.8	80.6	72.0
17	H 65	81.8	82.1	76.3	78.3	79.6	17.6	27.3	22.9	23.5	22.8	59.3	82.2	66.7	83.3	72.9
18	FH 3801	81.3	79.8	75.1	77.8	78.5	20.9	27.8	23.3	26.5	24.6	62.0	75.6	68.8	81.9	72.1
19	FH 3802	80.2	78.2	77.5	78.3	78.5	19.1	27.5	22.1	24.5	23.3	63.0	76.7	68.8	81.9	72.6
20	LMH 117	83.6	80.1	80.5	79.3	80.9	17.7	27.9	22.8	23.5	23.0	59.3	84.4	66.0	83.3	73.3
21	LMH 118	82.7	81.7	76.4	78.3	79.8	17.7	27.3	23.8	25.5	23.6	61.1	77.8	66.7	79.9	71.4
22	FH 3803	78.7	78.7	74.6	77.8	77.4	19.3	27.8	23.3	24.5	23.7	62.0	75.6	64.6	81.3	70.9
23	FH 3804	77.4	75.4	74.7	77.3	76.2	17.8	27.9	23.7	25.5	23.7	62.0	74.4	72.9	80.6	72.5
	CHECKS															
24	Vivek Hybrid 39	84.5	83.6	79.0	77.3	81.1	17.5	28.0	23.7	28.0	24.3	63.0	88.9	70.1	81.9	76.0
25	Vivek Hybrid 45	81.3	80.0	80.0	78.3	79.9	18.5	27.3	23.6	29.0	24.6	59.3	73.3	68.1	81.3	70.5
	Loc. Mean	**81.9**	**79.9**	**77.6**	**77.8**	**79.3**	**18.7**	**27.7**	**23.2**	**25.5**	**23.8**	**60.4**	**78.1**	**68.5**	**81.8**	**72.2**
	C.D. (5%)	1.54	0.00	1.64	0.22	2.21	1.67	0.48	1.01	0.40	1.78	6.66	9.10	5.28	2.25	4.21
	C.V. (%)	1.14	0.00	1.29	0.17	1.97	5.45	1.06	2.66	0.96	5.31	6.71	7.09	4.70	1.68	4.13
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	0.50	0.47	0.01	0.10	0.03	0.43

Table No. 22 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK				
		ALMO	BAJA	UDHA	SRIN	NHZ Mean	ALMO	BAJA	UDHA	SRIN	NHZ Mean	ALMO	BAJA	UDHA	SRIN	NHZ Mean
1	H 21	54.3	55.7	48.0	71.0	57.3	55.3	58.0	52.0	73.3	59.7	99.7	92.3	94.3	120.7	101.8
2	UDMH 124	54.3	58.7	49.0	74.0	59.0	55.7	60.7	53.0	76.3	61.4	100.0	97.0	95.3	121.7	103.5
3	FH 3764	54.3	58.0	49.3	69.3	57.8	54.7	60.3	53.0	71.7	59.9	93.7	90.3	95.7	115.7	98.8
4	FH 3765	54.7	58.3	49.3	72.0	58.6	56.0	60.3	54.0	74.7	61.3	97.0	94.7	95.7	118.3	101.4
5	FH 3767	54.7	62.0	50.0	73.3	60.0	55.3	64.3	54.0	76.0	62.4	97.7	90.7	95.3	121.0	101.2
6	LMH 115	54.3	57.0	49.7	75.3	59.1	55.7	59.0	53.7	77.3	61.4	99.0	93.7	95.3	122.0	102.5
7	LMH 116	52.7	55.0	48.0	69.0	56.2	53.7	57.3	52.0	71.7	58.7	94.3	92.3	94.3	117.7	99.7
8	UDMH 125	54.0	54.7	48.0	73.0	57.4	54.7	56.7	52.7	76.3	60.1	91.0	89.7	95.0	119.0	98.7
9	FH 3769	54.7	58.3	47.7	74.3	58.8	55.7	60.3	51.7	77.3	61.3	98.0	93.7	95.0	121.3	102.0
10	FH 3774	53.7	58.3	49.0	74.0	58.8	54.3	60.7	53.3	76.7	61.3	99.0	91.0	95.3	121.3	101.7
11	FH 3791	52.7	58.0	49.7	73.3	58.4	53.7	60.0	53.7	76.7	61.0	91.7	91.0	95.3	119.0	99.3
12	FH 3796	53.7	57.0	48.0	72.3	57.8	54.0	59.3	52.3	74.7	60.1	96.0	90.7	95.0	121.7	100.8
13	UDMH 126	55.0	56.3	48.0	70.3	57.4	55.3	58.3	52.0	73.3	59.8	100.7	91.7	94.7	119.7	101.7
14	FH 3798	54.0	55.3	49.0	74.3	58.2	55.0	57.7	53.0	77.0	60.7	99.0	87.7	94.7	118.7	100.0
15	FH 3799	53.7	57.3	49.0	74.0	58.5	54.7	59.3	53.0	76.3	60.8	99.7	95.0	95.3	119.7	102.4
16	FH 3800	53.3	57.7	49.7	72.0	58.2	54.7	59.7	53.3	74.7	60.6	95.7	93.0	95.0	118.3	100.5
17	H 65	54.0	56.3	47.0	71.3	57.2	54.7	58.3	51.3	74.3	59.7	93.3	92.3	94.7	120.0	100.1
18	FH 3801	55.0	57.0	47.7	73.7	58.3	56.0	59.0	51.7	76.3	60.8	95.0	89.0	94.3	119.7	99.5
19	FH 3802	55.0	57.7	48.7	70.7	58.0	55.3	59.7	53.0	73.0	60.3	100.0	94.3	95.0	114.0	100.8
20	LMH 117	53.7	58.7	49.0	69.7	57.8	55.0	60.7	54.0	73.0	60.7	92.0	91.3	95.7	117.3	99.1
21	LMH 118	52.3	56.3	49.3	73.3	57.8	53.7	58.3	53.0	76.0	60.3	93.0	90.0	94.7	119.7	99.3
22	FH 3803	54.7	58.7	49.0	74.7	59.3	55.3	61.0	53.3	77.3	61.8	100.0	95.7	95.3	120.7	102.9
23	FH 3804	57.3	63.0	52.3	74.0	61.7	58.3	65.3	56.3	76.0	64.0	104.7	98.7	96.7	121.0	105.3
	CHECKS															
24	Vivek Hybrid 39	52.7	56.0	48.3	70.7	56.9	53.3	58.3	52.3	74.0	59.5	95.7	90.7	94.0	118.0	99.6
25	Vivek Hybrid 45	54.0	58.0	47.3	73.0	58.1	55.3	60.3	51.7	75.3	60.7	96.0	96.7	95.0	120.0	101.9
	Loc. Mean	**54.1**	**57.6**	**48.8**	**72.5**	**58.2**	**55.0**	**59.7**	**52.9**	**75.2**	**60.7**	**96.9**	**92.5**	**95.1**	**119.4**	**101.0**
	C.D. (5%)	1.26	2.08	1.47	1.00	1.70	1.09	2.03	1.61	1.56	1.71	2.58	3.39	1.51	2.84	2.83
	C.V. (%)	1.42	2.20	1.83	0.84	2.07	1.21	2.07	1.85	1.26	2.00	1.62	2.23	0.97	1.45	1.99
	F (Prob)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00

Table No. 22 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) ALMO	BAJA	UDHA	SRIN	NHZ Mean	EAR HEIGHT(cm) ALMO	BAJA	UDHA	SRIN	NHZ Mean
1	H 21	230.0	241.7	213.3	160.0	211.3	108.3	140.0	86.7	75.0	102.5
2	UDMH 124	225.0	190.0	217.2	155.0	196.8	111.7	101.7	82.9	71.7	92.0
3	FH 3764	240.0	211.7	220.3	165.0	209.3	118.3	106.7	96.1	80.0	100.3
4	FH 3765	248.3	221.7	221.4	160.0	212.9	111.7	115.0	89.8	80.0	99.1
5	FH 3767	226.7	193.3	215.3	150.0	196.3	106.7	108.3	87.7	75.0	94.4
6	LMH 115	203.3	196.7	204.7	168.3	193.3	98.3	106.7	87.3	85.0	94.3
7	LMH 116	233.3	200.0	211.4	165.0	202.4	128.3	111.7	97.5	75.0	103.1
8	UDMH 125	230.0	210.0	207.7	145.0	198.2	121.7	111.7	96.1	71.7	100.3
9	FH 3769	215.0	200.0	207.5	160.0	195.6	100.0	101.7	86.5	78.3	91.6
10	FH 3774	221.7	193.3	203.0	175.0	198.3	115.0	93.3	84.9	86.7	95.0
11	FH 3791	241.7	233.3	208.3	170.0	213.3	116.7	110.0	90.2	83.3	100.1
12	FH 3796	220.0	205.0	210.0	165.0	200.0	93.3	110.0	87.5	80.0	92.7
13	UDMH 126	235.0	193.3	211.7	160.0	200.0	135.0	116.7	89.4	75.0	104.0
14	FH 3798	236.7	203.3	209.0	155.0	201.0	111.7	106.7	84.7	78.3	95.4
15	FH 3799	210.0	203.3	205.9	170.0	197.3	100.0	113.3	90.1	83.3	96.7
16	FH 3800	221.7	213.3	201.0	165.0	200.3	106.7	118.3	92.9	78.3	99.1
17	H 65	228.3	215.0	201.3	145.0	197.4	121.7	116.7	79.5	73.3	97.8
18	FH 3801	231.7	211.7	203.1	170.0	204.1	118.3	108.3	89.7	88.3	101.2
19	FH 3802	230.0	235.0	213.3	165.0	210.8	108.3	118.3	86.3	80.0	98.2
20	LMH 117	260.0	245.0	202.5	155.0	215.6	121.7	116.7	78.0	78.3	98.7
21	LMH 118	226.7	225.0	226.7	160.0	209.6	115.0	133.3	93.9	76.7	104.7
22	FH 3803	256.7	231.7	213.0	155.0	214.1	123.3	111.7	85.4	75.0	98.9
23	FH 3804	240.0	228.3	225.5	150.0	211.0	116.7	123.3	98.2	71.7	102.5
	CHECKS										
24	Vivek Hybrid 39	215.0	191.7	216.3	155.0	194.5	93.3	101.7	86.1	75.0	89.0
25	Vivek Hybrid 45	208.3	185.0	206.9	150.0	187.6	111.7	95.0	78.7	73.3	89.7
	Loc. Mean	**229.4**	**211.1**	**211.1**	**159.7**	**202.8**	**112.5**	**111.9**	**88.2**	**77.9**	**97.6**
	C.D. (5%)	12.89	22.58	10.38	0.95	15.78	11.24	18.21	5.40	3.08	11.21
	C.V. (%)	3.42	6.51	3.00	0.36	5.52	6.08	9.92	3.73	2.41	8.15
	F (Prob)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.24

TABLE No. 23 **PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN ZONAL TRIAL No. TR501 DURING KHARIF (2015)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										CWZ		GRAIN YIELD%SUPERIORITY OVER THE Pratap Maize Hybrid-3						CWZ	C2 Bio 9681						CWZ
		AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	MEAN	R	AMBI	BANS	CHHI	GODH	UDAI	MEAN		AMBI	BANS	CHHI	GODH	UDAI	MEAN
1	IAHM-2014-59	4599	15	4783	8	6684	11	4054	16	7585	12	5541	15	-	10	-	-	-	-		-	-	7	-	-	-
2	IAHM-2014-83	4762	13	4500	14	5472	16	3822	17	6611	16	5033	17	2	3	-	-	-	-		-	-	-	-	-	-
3	WH-1095	9481	1	5108	5	8325	4	5927	3	8178	7	7404	1	104	17	-	4	-	17		41	2	34	21	-	17
4	WH-1094	7641	6	4681	12	7484	6	5910	5	8641	2	6871	3	64	7	-	3	1	8		14	-	20	21	-	9
5	EH-2861	6872	7	4350	16	8864	1	4916	9	8101	8	6621	4	48	-	5	-	-	4		2	-	42	0	-	5
6	EH-2862	3896	16	4667	13	5340	17	4763	12	7226	14	5179	16	-	7	-	-	-	-		-	-	-	-	-	-
7	EH-2863	5270	12	4732	11	6886	9	4596	13	6685	15	5634	14	13	8	-	-	-	-		-	-	11	-	-	-
8	EH-2864	3164	17	5717	1	7163	7	6806	1	7972	11	6164	12	-	31	-	19	-	-		-	14	15	39	-	-
9	EH-2865	6473	10	4261	17	8797	2	4059	15	8388	5	6396	8	39	-	4	-	-	1		-	-	41	-	-	1
10	EH-2866	5484	11	4748	10	5895	15	5916	4	8042	10	6017	13	18	9	-	3	-	-		-	-	-	21	-	-
11	EH-2867	7644	5	5225	4	6631	12	5058	8	8096	9	6531	7	65	20	-	-	-	3		14	4	6	3	-	3
12	EH-2868	6725	9	4760	9	6887	8	5904	6	8530	4	6561	6	45	9	-	3	-	3		-	-	11	20	-	4
13	EH-2869	8044	4	4917	7	6787	10	4879	11	6498	17	6225	11	73	13	-	-	-	-		20	-	9	-	-	-
14	EH-2870	9202	2	5233	3	7677	5	6540	2	7508	13	7232	2	98	20	-	14	-	14		37	4	23	33	-	14
	CHECKS																									
15	Pratap Maize Hybrid-3	4647	14	4362	15	8451	3	5721	7	8571	3	6350	9	-	-	-	-	-	-		-	-	36	17	-	0
16	C2 Bio 9681	6725	8	5016	6	6230	14	4900	10	8776	1	6330	10	45	15	-	-	2	-		-	-	-	-	-	-
17	C3 PMH-1	8054	3	5539	2	6511	13	4489	14	8237	6	6566	5	73	27	-	-	-	3		20	10	4	-	-	4
	Location Mean	**6393**		**4859**		**7064**		**5192**		**7861**		**6274**														
	C.D. (5%)	1085		1000		1822		410		1327		1129														
	C.V. (%)	10.2		12.36		15.49		4.74		10.13		-														
	F (Prob)	0		0.179		0.003		0		0.012																
	Plot Size	6		4.8		6		4.8		4.8		-														
	AGRONOMY DATA																									
	Sowing Date	21-07		14-07		9-07		6-07		16-07		-														
	Harvest Date	-		24-10		17-11		19-10		29-10		-														
	Irrigation Nos	-		1		-		3		3		-														
	Ferilizer Applied N	120		150		120		120		100		-														
	Ferilizer Applied P	60		80		60		90		50		-														
	Ferilizer Applied K	40		-		40		-		-		-														

TABLE No. (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE C3 PMH-1						GRAIN SHELLING %						MOISTURE % AT HARVEST				
		AMBI	BANS	CHHI	GODH	UDAI	CWZ MEAN	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IAHM-2014-59	-	-	3	-	-	-	73.3	76.9	87.4	74.6	82.5	78.9	17.3	14.1	15.8	22.5	17.4
2	IAHM-2014-83	-	-	-	-	-	-	76.7	75.3	83.6	76.0	82.8	78.9	17.3	15.3	14.5	23.0	17.5
3	WH-1095	18	-	28	32	-	13	75.5	76.7	88.5	74.7	82.7	79.6	16.9	13.1	14.8	22.9	16.9
4	WH-1094	-	-	15	32	5	5	78.6	76.2	87.8	79.2	82.8	80.9	17.8	15.8	17.7	23.1	18.6
5	EH-2861	-	-	36	10	-	1	75.8	74.3	86.7	79.0	82.6	79.7	17.1	14.3	16.3	23.1	17.7
6	EH-2862	-	-	-	6	-	-	72.4	76.1	87.6	77.9	82.6	79.3	18.0	14.3	16.8	22.4	17.9
7	EH-2863	-	-	6	2	-	-	73.6	76.2	89.2	77.0	82.6	79.7	16.3	13.6	16.0	22.7	17.1
8	EH-2864	-	3	10	52	-	-	74.1	77.7	86.3	75.1	82.5	79.1	16.6	13.6	14.0	22.7	16.7
9	EH-2865	-	-	35	-	2	-	77.0	76.5	84.4	75.6	82.8	79.3	17.8	15.5	15.8	22.5	17.9
10	EH-2866	-	-	-	32	-	-	77.5	76.4	86.7	78.2	82.8	80.3	17.6	15.2	15.0	22.8	17.6
11	EH-2867	-	-	2	13	-	-	75.1	77.4	87.2	78.6	82.6	80.2	16.6	13.9	13.5	22.6	16.6
12	EH-2868	-	-	6	32	4	-	78.5	77.8	85.5	78.6	82.8	80.6	18.2	15.4	16.5	23.1	18.3
13	EH-2869	-	-	4	9	-	-	76.2	75.0	89.0	76.4	83.1	79.9	17.5	16.1	16.0	22.8	18.1
14	EH-2870	14	-	18	46	-	10	76.7	76.1	90.4	77.0	82.9	80.6	18.2	18.2	16.8	23.0	19.0
	CHECKS																	
15	Pratap Maize Hybrid-3	-	-	30	27	4	-	76.8	76.4	84.8	80.0	83.0	80.2	17.5	14.8	15.8	22.5	17.6
16	C2 Bio 9681	-	-	-	9	7	-	73.4	77.5	85.3	78.7	82.5	79.5	17.5	12.1	16.2	22.9	17.2
17	C3 PMH-1	-	-	-	-	-	-	74.1	78.5	85.0	78.8	82.4	79.8	17.7	14.9	16.0	22.6	17.8
	Loc. Mean							**75.6**	**76.5**	**86.8**	**77.4**	**82.7**	**79.8**	**17.4**	**14.7**	**15.7**	**22.8**	**17.6**
	C.D. (5%)							3.59	1.88	6.54	1.58	0.64	1.92	0.73	1.90	0.62	0.64	1.10
	C.V. (%)							2.85	1.48	4.53	1.23	0.46	1.90	2.54	7.75	2.38	1.68	4.40
	F (Prob)							0.02	0.01	0.80	0.00	0.72	0.66	0.00	0.00	0.00	0.33	0.00

Table No. 23 (Continued)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha)						DAYS TO 50% POLLEN SHED						DAYS TO 50% SILKING					
		AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IAHM-2014-59	53.9	56.3	47.2	39.6	61.8	51.8	55.0	51.0	57.7	55.0	52.3	54.2	58.3	54.0	58.7	56.0	54.0	56.2
2	IAHM-2014-83	53.3	56.3	55.0	27.1	61.8	50.7	54.0	52.0	55.3	51.0	50.0	52.5	58.3	55.3	56.0	53.3	51.3	54.9
3	WH-1095	82.8	54.2	61.1	60.4	61.8	64.1	55.3	52.3	58.7	56.0	54.3	55.3	59.0	55.3	59.7	57.7	56.3	57.6
4	WH-1094	74.4	54.9	53.3	48.6	61.8	58.6	52.0	53.0	57.7	57.0	55.0	54.9	56.0	56.0	58.7	58.0	56.3	57.0
5	EH-2861	70.0	54.2	53.9	42.4	61.8	56.4	56.0	52.0	55.7	55.0	50.3	53.8	59.0	55.0	56.7	57.0	52.3	56.0
6	EH-2862	50.6	57.6	34.4	39.6	61.8	48.8	56.0	52.3	59.7	57.0	54.0	55.8	59.3	55.3	60.7	58.3	55.3	57.8
7	EH-2863	57.2	50.7	55.0	34.7	61.1	51.8	55.7	50.0	57.3	55.0	54.7	54.5	58.7	53.0	58.3	56.3	56.3	56.5
8	EH-2864	48.9	49.3	53.9	63.9	61.8	55.6	50.0	52.7	57.7	54.0	53.0	53.5	54.0	55.7	58.7	55.0	54.3	55.5
9	EH-2865	62.8	54.9	52.8	42.4	61.1	54.8	54.0	51.7	58.3	57.0	55.0	55.2	57.7	54.7	59.3	59.0	56.3	57.4
10	EH-2866	55.6	56.3	56.1	60.4	61.8	58.0	54.0	52.3	56.3	55.0	53.3	54.2	57.3	55.3	57.3	56.7	55.3	56.4
11	EH-2867	74.4	54.9	50.6	41.0	61.8	56.5	53.7	49.0	58.0	53.0	53.0	53.3	57.7	52.0	58.7	55.0	54.3	55.5
12	EH-2868	65.6	52.8	48.3	56.9	61.8	57.1	56.0	52.7	59.0	56.0	54.3	55.6	59.0	55.7	60.0	57.0	56.0	57.5
13	EH-2869	76.7	56.9	60.6	45.8	63.2	60.6	49.0	52.3	56.7	55.0	53.0	53.2	52.7	55.3	57.7	57.0	54.3	55.4
14	EH-2870	81.7	54.2	49.4	66.0	61.1	62.5	52.0	52.3	57.3	55.0	53.3	54.0	56.0	55.7	58.3	56.0	55.0	56.2
	CHECKS																		
15	Pratap Maize Hybrid-3	51.7	54.9	52.8	52.8	61.8	54.8	52.0	51.7	55.7	55.0	55.0	53.9	55.7	54.7	56.7	55.7	56.3	55.8
16	C2 Bio 9681	66.7	54.9	44.4	42.4	61.8	54.0	54.0	50.3	55.3	53.3	50.3	52.7	57.7	53.3	56.3	54.7	52.3	54.9
17	C3 PMH-1	75.0	51.4	40.0	39.6	61.8	53.6	51.0	50.7	57.7	55.0	53.3	53.5	55.0	53.7	58.7	56.0	54.3	55.5
	Loc. Mean	**64.8**	**54.4**	**51.1**	**47.3**	**61.8**	**55.9**	**53.5**	**51.7**	**57.3**	**55.0**	**53.2**	**54.1**	**57.1**	**54.7**	**58.3**	**56.4**	**54.7**	**56.2**
	C.D. (5%)	7.54	5.72	8.12	3.72	1.92	9.38	1.45	2.31	1.94	0.23	0.95	1.75	1.14	2.32	1.95	0.82	0.40	1.66
	C.V. (%)	7.00	6.32	9.56	4.74	1.87	13.29	1.63	2.68	2.04	0.25	1.08	2.57	1.20	2.55	2.01	0.87	0.44	2.33
	F (Prob)	0.00	0.28	0.00	0.00	0.94	0.12	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00

Table No. 23 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK						PLANT HEIGHT(cm)						EAR HEIGHT(cm)					
		AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IAHM-2014-59	91.0	86.7	92.3	86.0	85.3	88.3	241.7	185.0	193.3	176.0	200.0	199.2	87.2	90.0	80.0	79.0	103.3	87.9
2	IAHM-2014-83	91.7	87.7	89.3	85.3	82.0	87.2	222.0	183.3	168.3	156.0	163.3	178.6	76.4	89.7	68.3	68.3	68.3	74.2
3	WH-1095	92.0	87.3	90.3	89.0	87.7	89.3	272.7	160.0	196.7	164.0	210.0	200.7	121.3	90.0	96.7	72.0	110.0	98.0
4	WH-1094	95.3	87.7	92.7	88.7	87.7	90.4	253.5	191.7	191.7	154.7	200.0	198.3	108.4	91.7	100.0	67.0	95.0	92.4
5	EH-2861	92.0	88.0	91.0	90.0	83.3	88.9	248.4	185.0	191.7	144.3	205.0	194.9	90.7	66.7	83.3	62.7	96.7	80.0
6	EH-2862	93.7	88.7	91.7	90.0	85.0	89.8	258.5	185.0	220.0	156.7	203.3	204.7	108.6	96.0	108.3	65.0	90.0	93.6
7	EH-2863	91.7	85.0	92.3	87.7	87.3	88.8	254.9	158.3	191.7	171.7	180.0	191.3	96.3	86.3	91.7	75.7	90.0	88.0
8	EH-2864	92.3	88.7	91.3	88.0	87.3	89.5	239.8	165.0	191.7	168.3	170.0	187.0	87.3	79.3	83.3	71.3	85.0	81.3
9	EH-2865	91.7	87.7	93.3	90.0	86.7	89.9	283.2	178.3	216.7	137.0	221.7	207.4	120.0	81.0	101.7	53.7	106.7	92.6
10	EH-2866	94.7	88.7	92.0	88.3	88.7	90.5	242.0	177.7	171.7	139.7	170.0	180.2	91.8	82.7	83.3	65.7	78.3	80.4
11	EH-2867	93.0	85.3	92.3	86.3	84.7	88.3	256.3	183.3	196.7	178.3	206.7	204.3	82.2	85.0	82.0	84.0	96.7	86.0
12	EH-2868	94.3	88.3	92.7	88.0	87.3	90.1	271.8	191.7	226.7	153.3	213.3	211.4	108.3	86.0	95.0	67.3	95.0	90.3
13	EH-2869	90.7	87.0	91.3	87.7	87.3	88.8	236.0	180.0	178.3	142.7	173.3	182.1	86.5	72.3	83.3	70.7	91.7	80.9
14	EH-2870	93.7	88.3	93.3	89.0	87.3	90.3	272.2	183.3	203.3	144.7	173.3	195.4	112.8	85.0	105.0	60.0	93.3	91.2
	CHECKS																		
15	Pratap Maize Hybrid-3	92.3	76.7	90.3	87.7	86.7	86.7	267.8	160.0	218.3	143.3	203.3	198.6	109.3	77.7	106.7	70.7	93.3	91.5
16	C2 Bio 9681	94.0	89.3	91.0	85.3	82.3	88.4	233.7	181.7	188.3	146.0	200.0	189.9	75.5	87.7	71.7	65.3	98.3	79.7
17	C3 PMH-1	92.0	87.3	93.0	87.0	85.3	88.9	281.6	181.7	206.7	158.7	200.0	205.7	123.5	83.3	100.0	69.3	98.3	94.9
	Loc. Mean	**92.7**	**87.0**	**91.8**	**87.9**	**86.0**	**89.1**	**255.1**	**178.3**	**197.2**	**155.0**	**193.7**	**195.9**	**99.2**	**84.1**	**90.6**	**68.7**	**93.5**	**87.2**
	C.D. (5%)	3.87	7.40	1.26	0.62	1.17	2.17	20.31	32.08	20.30	26.05	12.91	16.92	12.13	16.18	17.08	16.74	11.10	12.24
	C.V. (%)	2.51	5.12	0.83	0.43	0.82	1.93	4.79	10.82	6.19	10.10	4.01	6.84	7.35	11.56	11.34	14.66	7.13	11.11
	F (Prob)	0.47	0.28	0.00	0.00	0.00	0.03	0.00	0.55	0.00	0.04	0.00	0.00	0.00	0.11	0.00	0.17	0.00	0.01

TABLE No. 24: PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, UDAIPUR IN ZONAL TRIAL No. TR502 DURING KHARIF (2015)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								CWZ MEAN	R	GRAIN YIELD % SUPERIORITY OVER THE EH-1974PHM-3				CWZ MEAN	GRAIN YIELD % SUPERIORITY C2Pratap Makka-9				CWZ MEAN
		AMBI	R	BANS	R	CHHI	R	UDAI	R			AMBI	BANS	CHHI	UDAI		AMBI	BANS	CHHI	UDAI	
1	IAHM-2013-9	3090	23	4964	10	2006	23	4734	16	3699	24	-	10.5	-	-	-	-	3.2	-	-	-
2	IAHM-2013-11	3536	22	5172	4	2803	17	4396	18	3977	22	-	15.1	-	-	-	-	7.5	-	-	-
3	IAHM-2013-26	6483	12	4738	16	1799	24	4394	19	4354	18	49.1	5.4	-	-	-	-	-	-	-	-
4	IAHM-2014-84	2833	25	5078	7	2777	18	6363	9	4263	19	-	13	-	5.9	-	-	5.6	-	17.6	-
5	WH-2176	7064	5	5120	6	3205	13	7413	4	5700	4	62.5	13.9	-	23.4	21.8	-	6.4	-	37	8.7
6	WH-2175	6778	8	4671	19	3449	10	2666	24	4391	17	55.9	4	-	-	-	-	-	-	-	-
7	WH-2174	6155	13	5151	5	3066	14	6747	8	5280	8	41.5	14.6	-	12.3	12.8	-	7.1	-	24.7	0.7
8	WH-2172	3803	21	4386	23	1679	25	5731	12	3900	23	-	-	-	-	-	-	-	-	5.9	-
9	WH-2171	6531	11	5019	9	2666	21	3706	22	4480	16	50.2	11.7	-	-	-	-	4.3	-	-	-
10	WH-2170	8763	1	4502	21	2687	20	7463	3	5854	3	101.5	0.2	-	24.3	25.1	22.9	-	-	37.9	11.7
11	WH-2146	5505	15	5219	2	3597	9	4533	17	4714	13	26.6	16.2	-	-	0.7	-	8.5	-	-	-
12	WH-2051	5761	14	4325	24	2720	19	7345	5	5038	12	32.5	-	-	22.3	7.7	-	-	-	35.7	-
13	WH-2044	6548	10	4914	13	3674	7	5456	13	5148	11	50.6	9.4	-	-	10	-	2.2	1.5	0.8	-
14	WH-2065	5367	17	5483	1	2496	22	2650	25	3999	21	23.4	22	-	-	-	-	14	-	-	-
15	EC-UHPY-5	6961	6	4676	18	2944	16	3829	21	4603	15	60.1	4.1	-	-	-	-	-	-	-	-
16	UHPD-6	6890	7	4942	12	4182	4	6178	10	5548	5	58.4	10	8.1	2.9	18.6	-	2.8	15.6	14.2	5.8
17	EH-2871	4242	20	4846	14	4431	3	7580	2	5275	9	-	7.8	14.5	26.2	12.7	-	0.7	22.5	40.1	0.6
18	EH-2872	5444	16	5178	3	5251	1	7785	1	5915	2	25.2	15.2	35.7	29.6	26.4	-	7.7	45.1	43.9	12.8
19	EH-2873	2878	24	4586	20	3293	12	2851	23	3402	25	-	2.1	-	-	-	-	-	-	-	-
20	EH-2874	7284	3	3502	25	3439	11	7100	6	5331	7	67.5	-	-	18.2	13.9	2.1	-	-	31.2	1.7
21	EH-2875	4726	18	5061	8	2989	15	3841	20	4154	20	8.7	12.6	-	-	-	-	5.2	-	-	-
22	EH-2876	6581	9	4944	11	5244	2	7019	7	5947	1	51.3	10	35.5	16.9	27.1	-	2.8	44.9	29.7	13.4
	CHECKS																				
23	EH-1974PHM-3	4348	19	4493	22	3869	5	6006	11	4679	14	-	-	-	-	-	-	-	6.9	11	-
24	C2Pratap Makka-9	7132	4	4810	15	3619	8	5411	14	5243	10	64	7	-	-	12	-	-	-	-	-
25	C3Bio 9637	8485	2	4732	17	3797	6	5079	15	5523	6	95.1	5.3	-	-	18	19	-	4.9	-	5.3
	Location Mean	**5728**		**4821**		**3267**		**5451**		**4817**											
	C.D. (5%)	1200		1173		1382		659		1104											
	C.V. (%)	12.76		14.82		25.75		7.36		-											
	F (Prob)	0		0.523		0		0													
	Plot Size	6		4.8		6		4.8		-											
	AGRONOMY DATA																				
	Sowing Date	22-07		15-07		9-07		4-07		-											
	Harvest Date	-		24-10		20-11		19-10		-											
	Irrigation Nos	-		1		-		3		-											
	Ferilizer Applied N	120		150		120		120		-											
	Ferilizer Applied P	60		80		60		90		-											
	Ferilizer Applied K	40		-		40		-		-											

Table No. 24 (Continued)

Sl		COB YIELD % SUPERIORITY OVER THE C3Bio 9637				CWZ	GRAIN SHELLING %				CWZ	MOISTURE % AT HARVEST			CWZ	STAND AT HARVEST ('000/ha)				CWZ
No	PEDIGREE	AMBI	BANS	CHHI	UDAI	MEAN	AMBI	BANS	CHHI	UDAI	Mean	BANS	CHHI	UDAI	Mean	AMBI	BANS	CHHI	UDAI	Mean
1	IAHM-2013-9	-	4.9	-	-	-	78.4	75.4	85.2	80.8	79.9	15.9	11.3	16.7	14.6	48.3	59.7	29.4	45.8	45.8
2	IAHM-2013-11	-	9.3	-	-	-	75.8	75.1	88.6	81.5	80.2	16.8	11.8	15.4	14.7	52.2	61.8	47.2	49.3	52.6
3	IAHM-2013-26	-	0.1	-	-	-	78.1	72.5	86.7	79.5	79.2	16.5	12.2	16.5	15.1	63.3	47.9	50.6	63.2	56.3
4	IAHM-2014-84	-	7.3	-	25.3	-	75.0	77.4	87.3	80.8	80.1	16.5	11.4	15.9	14.6	46.7	56.3	41.7	61.8	51.6
5	WH-2176	-	8.2	-	45.9	3.2	78.1	74.9	83	80.2	79.1	15.8	11.9	16.2	14.6	66.7	56.3	53.3	59.7	59.0
6	WH-2175	-	-	-	-	-	78.3	74.8	89.1	78.3	80.1	16.3	11.7	15.1	14.4	64.4	53.5	49.4	51.4	54.7
7	WH-2174	-	8.9	-	32.8	-	79.1	74.5	88.2	80.8	80.6	16.8	10.7	17.6	15.0	63.3	55.6	56.1	64.6	59.9
8	WH-2172	-	-	-	12.8	-	79.7	75	82.5	80.5	79.4	16.3	11.8	15.8	14.6	52.8	51.4	60.0	51.4	53.9
9	WH-2171	-	6.1	-	-	-	78.2	76	85.2	79.8	79.8	16.7	11.5	15.8	14.7	63.3	62.5	55.6	47.2	57.2
10	WH-2170	3.3	-	-	46.9	6	78.5	73.6	83.6	81.5	79.3	18.7	11.3	15.4	15.1	80.0	56.9	53.9	59.7	62.6
11	WH-2146	-	10.3	-	-	-	78.7	73.2	85.2	80.7	79.4	16.4	11.0	15.6	14.3	57.8	54.2	57.2	56.9	56.5
12	WH-2051	-	-	-	44.6	-	75.2	73.6	78.3	81	77	15.7	11.5	15.3	14.1	59.4	58.3	58.9	53.5	57.5
13	WH-2044	-	3.9	-	7.4	-	78.6	71.9	85.5	80.3	79.1	17.4	12.0	16.1	15.2	65.6	52.8	56.1	61.1	58.9
14	WH-2065	-	15.9	-	-	-	81.9	75.3	81.1	79	79.3	16.6	11.4	15.4	14.4	57.2	56.9	61.1	52.8	57.0
15	EC-UHPY-5	-	-	-	-	-	77.5	73.2	83.3	79.7	78.4	17.6	11.4	17.8	15.6	66.1	56.3	56.1	54.2	58.2
16	UHPD-6	-	4.5	10.1	21.6	0.4	75.3	72.8	85.6	80	78.4	17.8	11.4	17.5	15.6	66.1	54.9	58.9	55.6	58.9
17	EH-2871	-	2.4	16.7	49.2	-	74.8	75	86.6	81	79.3	16.1	11.0	15.5	14.2	55.0	51.4	46.1	60.4	53.2
18	EH-2872	-	9.4	38.3	53.3	7.1	76.3	76.8	86.3	80.8	80.1	16.4	11.3	15.5	14.4	57.2	61.8	53.9	58.3	57.8
19	EH-2873	-	-	-	-	-	73.0	72.8	85.5	77.8	77.3	16.8	12.0	15.4	14.7	46.1	56.9	47.8	37.5	47.1
20	EH-2874	-	-	-	39.8	-	77.1	48	89.1	80.5	73.6	17.6	11.4	17.9	15.6	69.4	51.4	50.6	56.3	56.9
21	EH-2875	-	7	-	-	-	76.6	74.7	83	78.8	78.3	16.2	11.2	18.8	15.4	55.6	45.1	51.7	54.2	51.6
22	EH-2876	-	4.5	38.1	38.2	7.7	77.3	75.4	87.4	80.2	80	16.6	11.7	16.6	15.0	64.4	52.1	56.1	52.8	56.4
	CHECKS																			
23	EH-1974PHM-3	-	-	1.9	18.3	-	73.8	72.3	85	81.2	78.1	16.7	11.3	16.9	15.0	53.9	53.5	50.0	51.4	52.2
24	C2Pratap Makka-9	-	1.6	-	6.5	-	76.9	75.4	81.9	80.2	78.6	16.6	11.4	19.0	15.7	70.6	59.7	60.6	56.3	61.8
25	C3Bio 9637	-	-	-	-	-	76.3	73.8	86.9	80.8	79.5	16.6	10.9	16.9	14.8	77.2	58.3	46.7	56.3	59.6
	Loc. Mean						77.1	73.3	85.2	80.2	79	**16.7**	**11.5**	**16.4**	**14.9**	**60.9**	**55.4**	**52.4**	**54.9**	**55.9**
	C.D. (5%)						3.68	8.43	5.45	0.44	4.7	-	1.05	0.38	1.29	8.30	10.06	10.70	8.29	8.58
	C.V. (%)						2.9	7.01	3.9	0.33	4.23	-	5.56	1.40	5.29	8.30	11.06	12.45	9.21	10.89
	F (Prob)						0.01	0	0.03	0	0.8	0.00	0.46	0.00	0.47	0.00	0.14	0.00	0.00	0.03

Table No. 24 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK				
		AMBI	BANS	CHHI	UDAI	CWZ Mean	AMBI	BANS	CHHI	UDAI	CWZ Mean	AMBI	BANS	CHHI	UDAI	CWZ Mean
1	IAHM-2013-9	53.0	44.0	59.3	58.3	53.7	56.7	47.0	60.3	59.7	55.9	90.0	84.3	92.7	89.0	89.0
2	IAHM-2013-11	48.0	45.7	57.3	55.3	51.6	52.0	45.7	58.3	57.3	53.3	91.3	86.0	91.7	89.3	89.6
3	IAHM-2013-26	47.0	44.7	58.0	58.7	52.1	50.7	47.7	59.3	60.3	54.5	89.7	85.3	89.7	92.3	89.3
4	IAHM-2014-84	49.0	43.0	57.7	54.0	50.9	52.7	46.3	58.7	55.7	53.3	90.0	83.3	90.3	86.7	87.6
5	WH-2176	46.0	43.3	56.7	52.3	49.6	49.7	46.3	57.7	54.3	52.0	85.3	82.7	90.7	87.3	86.5
6	WH-2175	45.0	45.3	56.7	50.7	49.4	49.0	48.3	57.7	52.3	51.8	86.0	86.0	87.7	85.3	86.3
7	WH-2174	45.0	43.3	55.7	51.7	48.9	48.3	46.7	56.7	53.3	51.3	86.7	84.7	85.7	85.7	85.7
8	WH-2172	43.3	43.3	55.0	52.0	48.4	47.0	46.3	56.0	53.7	50.8	84.7	84.0	86.3	85.0	85.0
9	WH-2171	46.0	46.3	57.0	53.0	50.6	49.7	48.7	58.0	55.3	52.9	90.0	86.3	86.3	85.7	87.1
10	WH-2170	46.3	45.0	57.0	54.3	50.7	50.3	45.7	58.0	56.7	52.7	90.3	83.0	84.3	98.7	89.1
11	WH-2146	43.0	45.7	56.0	49.0	48.4	46.3	48.7	57.0	50.3	50.6	85.7	86.3	86.7	86.7	86.3
12	WH-2051	43.0	43.7	56.3	55.3	49.6	46.0	46.7	57.3	56.3	51.6	85.0	82.7	88.0	86.7	85.6
13	WH-2044	42.0	43.3	55.7	51.0	48.0	45.7	46.7	56.7	52.0	50.3	88.0	84.3	87.3	87.0	86.7
14	WH-2065	40.3	43.7	54.0	50.3	47.1	43.3	46.7	55.0	51.7	49.2	80.3	83.7	85.0	83.3	83.1
15	EC-UHPY-5	46.0	43.0	57.7	54.7	50.3	50.0	46.3	58.7	56.3	52.8	88.0	84.7	89.0	88.7	87.6
16	UHPD-6	48.0	44.3	57.0	52.3	50.4	52.0	47.3	58.0	53.3	52.7	90.0	84.3	86.3	98.3	89.8
17	EH-2871	51.0	44.7	58.3	58.3	53.1	55.0	47.7	59.3	60.0	55.5	92.0	84.7	87.3	91.3	88.8
18	EH-2872	50.3	44.3	58.3	54.0	51.8	53.7	47.3	59.3	55.3	53.9	89.0	84.0	88.3	92.3	88.4
19	EH-2873	53.0	44.3	61.7	55.7	53.7	56.3	47.3	63.0	58.0	56.2	93.3	84.7	92.0	89.3	89.8
20	EH-2874	52.3	44.7	59.0	58.7	53.7	56.0	47.0	60.3	60.7	56.0	89.0	85.7	90.3	92.7	89.4
21	EH-2875	47.3	43.3	60.0	55.0	51.4	51.0	46.3	61.7	57.7	54.2	89.0	84.0	89.0	89.7	87.9
22	EH-2876	50.0	43.7	58.3	54.7	51.7	53.7	47.0	59.3	56.0	54.0	92.7	84.3	91.3	91.7	90.0
	CHECKS															
23	EH-1974PHM-3	54.0	44.3	59.7	54.7	53.2	57.3	46.3	60.7	56.7	55.3	92.3	85.3	88.3	91.3	89.3
24	C2Pratap Makka-9	47.0	44.0	57.7	54.0	50.7	50.7	47.3	58.7	56.0	53.2	87.3	84.7	92.3	86.3	87.7
25	C3Bio 9637	48.0	42.7	59.0	55.7	51.3	51.3	46.0	60.0	57.7	53.8	90.0	82.3	90.7	93.3	89.1
	Loc. Mean	**47.4**	**44.1**	**57.6**	**54.1**	**50.8**	**51.0**	**46.9**	**58.6**	**55.9**	**53.1**	**88.6**	**84.5**	**88.7**	**89.3**	**87.8**
	C.D. (5%)	1.47	2.42	1.43	0.89	2.60	1.69	2.62	1.62	0.92	2.70	5.18	2.62	1.26	1.28	3.49
	C.V. (%)	1.90	3.34	1.51	1.00	3.63	2.02	3.40	1.68	1.01	3.60	3.56	1.89	0.87	0.87	2.82
	F (Prob)	0.00	0.27	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.11	0.00	0.00	0.01

Table No.24 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	UDAI	CWZ Mean	EAR HEIGHT(cm) AMBI	BANS	CHHI	UDAI	CWZ Mean
1	IAHM-2013-9	191.9	168.3	143.3	211.7	178.8	70.7	75.0	55.0	101.7	75.6
2	IAHM-2013-11	235.1	195.0	146.7	163.3	185.0	81.9	86.7	58.3	71.7	74.6
3	IAHM-2013-26	238.3	136.7	138.3	171.7	171.2	81.5	53.3	66.7	81.7	70.8
4	IAHM-2014-84	238.4	183.3	151.7	168.3	185.4	77.3	81.7	53.3	73.3	71.4
5	WH-2176	221.4	141.7	136.7	155.0	163.7	79.5	64.3	60.0	70.0	68.5
6	WH-2175	229.7	176.7	143.3	203.3	188.3	81.4	83.3	60.0	93.3	79.5
7	WH-2174	217.1	158.3	131.7	185.0	173.0	77.5	66.7	58.3	86.7	72.3
8	WH-2172	187.5	166.7	105.0	161.7	155.2	62.1	80.0	40.0	65.0	61.8
9	WH-2171	233.5	178.3	151.7	195.0	189.6	78.9	86.7	71.7	88.3	81.4
10	WH-2170	233.6	178.3	128.3	170.0	177.6	83.3	80.0	53.3	71.7	72.1
11	WH-2146	219.3	175.0	140.0	166.7	175.3	70.3	85.0	55.0	75.0	71.3
12	WH-2051	209.2	176.7	128.3	131.7	161.5	75.2	84.0	55.0	63.3	69.4
13	WH-2044	207.1	173.3	126.7	166.7	168.4	67.0	85.0	51.7	80.0	70.9
14	WH-2065	183.6	175.0	110.0	143.3	153.0	63.4	88.3	43.3	61.7	64.2
15	EC-UHPY-5	232.7	171.7	148.3	170.0	180.7	78.8	81.3	58.3	70.0	72.1
16	UHPD-6	251.7	181.7	155.0	181.7	192.5	92.3	90.7	71.7	83.3	84.5
17	EH-2871	238.7	176.7	158.3	175.0	187.2	91.7	70.0	70.0	85.0	79.2
18	EH-2872	260.1	191.7	161.7	191.7	201.3	94.9	98.3	68.3	91.7	88.3
19	EH-2873	222.1	156.7	166.7	185.0	182.6	94.3	78.3	76.7	80.0	82.3
20	EH-2874	270.9	165.0	168.3	188.3	198.1	111.6	80.0	78.3	81.7	87.9
21	EH-2875	252.3	160.0	170.0	160.0	185.6	106.7	73.3	81.7	81.7	85.8
22	EH-2876	279.1	191.7	176.7	198.3	211.5	113.6	100.3	83.3	96.7	98.5
	CHECKS										
23	EH-1974PHM-3	283.4	160.0	170.0	195.0	202.1	112.0	71.7	78.3	78.3	85.1
24	C2Pratap Makka-9	246.3	179.3	156.7	180.0	190.6	92.4	85.0	78.3	83.3	84.8
25	C3Bio 9637	263.0	188.3	160.0	181.7	198.3	85.0	86.3	70.0	85.0	81.6
	Loc. Mean	**233.8**	**172.2**	**146.9**	**176.0**	**182.3**	**84.9**	**80.6**	**63.9**	**80.0**	**77.4**
	C.D. (5%)	29.10	37.99	19.19	21.09	21.81	14.19	24.67	15.48	12.20	13.36
	C.V. (%)	7.58	13.44	7.95	7.30	8.49	10.18	18.64	14.76	9.29	12.26
	F (Prob)	0.00	0.32	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00

TABLE No. 25 **PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT AMBIKAPUR, BANSWARA, CHHINDWARA, GODHRA, UDAIPUR IN ZONAL TRIAL No. TR503 DURING KHARIF (2015)**

		GRAIN YIELD (kg/ha) AT 15% MOISTURE												YIELD % SUPERIORITY OVER THE Vivek Hy-43					
Sl No	PEDIGREE	AMBI	R	BANS	R	CHHI	R	GODH	R	UDAI	R	CWZ MEAN	R	AMBI	BANS	CHHI	GODH	UDAI	CWZ MEAN
1	IH-1002	5878	4	5973	3	3201	4	2570	19	8782	2	5281	2	10.2	10.1	67	-	34.5	15.6
2	IH-0704	5793	5	5392	10	2996	7	3239	13	7273	9	4939	6	8.6	-	56.3	-	11.4	8.1
3	IH-1206	4498	13	5357	11	3064	6	3851	6	7142	10	4782	8	-	-	59.8	5.7	9.4	4.7
4	IH-0903	5332	6	5080	15	3417	2	4135	4	8557	3	5304	1	0	-	78.2	13.4	31.1	16.1
5	IH-0901	5118	8	5325	13	2909	9	4318	2	5935	18	4721	10	-	-	51.8	18.5	-	3.3
6	WH-3138	4136	16	5928	4	2447	13	4829	1	6013	17	4671	12	-	9.3	27.6	32.5	-	2.2
7	WH-3140	4790	11	4932	17	2412	14	4141	3	5717	19	4398	17	-	-	25.8	13.6	-	-
8	WH-3141	3834	18	5349	12	2225	17	3122	16	5492	20	4004	20	-	-	16.1	-	-	-
9	WH-3142	3994	17	6089	2	2545	11	3129	14	7693	6	4690	11	-	12.2	32.8	-	17.9	2.6
10	WH-3139	4441	14	5888	6	2355	15	3320	10	7092	11	4619	13	-	8.5	22.9	-	8.7	1.1
11	EH-2880	4926	10	-	-	3080	5	3128	15	6344	16	4370	18	-	-	60.7	-	-	-
12	EH-2214	6752	3	5070	16	3694	1	3256	12	6498	14	5054	4	26.6	-	92.7	-	-	10.6
13	EH-2233	3164	20	6172	1	2307	16	4063	5	8982	1	4938	7	-	13.7	20.4	11.5	37.6	8.1
14	EH-2877	7507	1	-	-	2681	10	2607	18	8165	4	5420	3	40.8	-	39.8	-	25.1	-
15	EH-2878	6892	2	5245	14	2938	8	2365	20	7589	8	5006	5	29.3	-	53.2	-	16.3	9.6
16	EH-2879	3208	19	5908	5	2517	12	3268	11	6587	12	4298	19	-	8.9	31.3	-	0.9	-
17	UHPY-7	5035	9	4425	18	3378	3	3609	9	6444	15	4578	14	-	-	76.2	-	-	0.2
	CHECKS																		
18	Vivek Hy-43	5332	7	5426	9	1917	20	3645	8	6528	13	4569	15	-	-	-	-	-	-
19	PMH-5	4192	15	5535	8	2029	19	2875	17	8035	5	4533	16	-	2	5.9	-	23.1	-
20	Prakash	4580	12	5727	7	2037	18	3780	7	7589	7	4743	9	-	5.6	6.2	3.7	16.3	3.8
	Location Mean	**4970**		**5490**		**2707**		**3462**		**7123**		**4641**							
	C.D. (5%)	1036		945		1135		375		804		859							
	C.V. (%)	12.6		11.56		**25.34**		6.55		6.82		**-**							
	F (Prob)	0		0		0.072		0		0									
	Plot Size	4.8		4.8		6		4.8		4.8		-							
	AGRONOMY DATA																		
	Sowing Date	22-07		15-07		9-07		6-07		16-07		-							
	Harvest Date	-		24-10		20-11		17-10		29-10		-							
	Irrigation Nos	-		1		-		3		3		-							
	Ferilizer Applied N	100		150		120		90		100		-							
	Ferilizer Applied P	50		80		60		60		50		-							
	Ferilizer Applied K	30		-		40		-		-		-							

TABLE No. 25 (Cont..)

Sl No	PEDIGREE	YIELD % SUPERIORITY OVER THE PMH-5 AMBI	BANS	CHHI	GODH	UDAI	CWZ MEAN	YIELD % SUPERIORITY OVER THE Prakash AMBI	BANS	CHHI	GODH	UDAI	CWZ MEAN
1	IH-1002	40.2	7.9	57.7	-	9.3	16.5	28.4	4.3	57.2	-	15.7	11.4
2	IH-0704	38.2	-	47.6	12.7	-	8.9	26.5	-	47.1	-	-	4.1
3	IH-1206	7.3	-	51	34	-	5.5	-	-	50.4	1.9	-	0.8
4	IH-0903	27.2	-	68.4	43.8	6.5	17	16.4	-	67.8	9.4	12.8	11.8
5	IH-0901	22.1	-	43.4	50.2	-	4.1	11.8	-	42.8	14.2	-	-
6	WH-3138	-	7.1	20.6	68	-	3	-	3.5	20.1	27.8	-	-
7	WH-3140	14.3	-	18.8	44	-	-	4.6	-	18.4	9.6	-	-
8	WH-3141	-	-	9.6	8.6	-	-	-	-	9.3	-	-	-
9	WH-3142	-	10	25.4	8.8	-	3.5	-	6.3	25	-	1.4	-
10	WH-3139	5.9	6.4	16.1	15.5	-	1.9	-	2.8	15.6	-	-	-
11	EH-2880	17.5	-	51.8	8.8	-	-	7.6	-	51.2	-	-	-
12	EH-2214	61.1	-	82	13.3	-	11.5	47.4	-	81.3	-	-	6.6
13	EH-2233	-	11.5	13.7	41.3	11.8	8.9	-	7.8	13.3	7.5	18.3	4.1
14	EH-2877	79.1	-	32.1	-	1.6	-	63.9	-	31.6	-	7.6	-
15	EH-2878	64.4	-	44.8	-	-	10.4	50.5	-	44.2	-	-	5.6
16	EH-2879	-	6.7	24	13.7	-	-	-	3.2	23.6	-	-	-
17	UHPY-7	20.1	-	66.4	25.5	-	1	9.9	-	65.8	-	-	-
	CHECKS												
18	Vivek Hy-43	27.2	-	-	26.8	-	0.8	16.4	-	-	-	-	-
19	PMH-5	-	-	-	-	-	-	-	-	-	-	5.9	-
20	Prakash	9.2	3.5	0.4	31.5	-	4.6	-	-	-	-	-	-

Table No. 25 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %						MOISTURE % AT HARVEST					STAND AT HARVEST ('000/ha)					
		AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IH-1002	73.6	77.3	80.9	81.8	82.6	79.2	15.5	11.1	14.6	23.0	16.0	71.5	53.5	61.7	45.8	61.8	58.9
2	IH-0704	79.3	75.3	87.3	75.3	82.8	80.0	15.8	11.3	16.4	22.7	16.5	70.8	52.8	53.3	59.0	61.8	59.6
3	IH-1206	75.3	74.9	87.2	77.7	83.0	79.6	16.5	11.4	14.5	23.1	16.4	64.6	52.8	57.8	64.6	63.2	60.6
4	IH-0903	75.9	73.9	87.7	81.4	82.8	80.3	15.3	11.1	14.9	22.9	16.0	69.4	56.3	64.4	54.2	61.8	61.2
5	IH-0901	76.6	74.1	81.9	80.1	82.7	79.1	16.2	11.3	15.4	23.0	16.5	68.1	52.1	60.6	64.6	61.8	61.4
6	WH-3138	77.5	76.1	85.6	83.3	83.0	81.1	15.8	10.5	15.5	22.9	16.2	61.8	54.2	55.6	50.0	61.8	56.7
7	WH-3140	77.5	73.6	84.4	84.9	83.0	80.7	15.8	10.9	13.5	22.7	15.7	63.9	54.9	52.2	63.2	61.8	59.2
8	WH-3141	75.5	73.9	89.2	73.4	82.5	78.9	15.7	11.2	14.6	22.4	15.9	58.3	56.3	51.7	44.4	61.8	54.5
9	WH-3142	77.4	76.3	88.8	80.1	83.0	81.1	15.5	10.3	16.1	22.3	16.0	62.5	56.9	52.2	49.3	61.8	56.6
10	WH-3139	76.0	75.5	84.7	79.9	82.6	79.8	15.9	10.9	16.6	22.7	16.5	65.3	54.2	56.1	56.9	61.8	58.9
11	EH-2880	77.0	-	89.5	83.6	82.7	83.2	-	10.8	15.2	23.1	16.4	68.1	-	57.8	43.1	61.8	57.7
12	EH-2214	79.1	76.5	85.7	79.2	83.0	80.7	16.0	10.2	14.7	22.7	15.9	75.0	59.7	56.7	47.2	61.8	60.1
13	EH-2233	73.5	74.1	85.8	74.2	82.6	78.0	15.9	10.6	14.3	23.1	15.9	56.3	54.9	47.2	49.3	61.8	53.9
14	EH-2877	77.7	-	83.3	74.1	82.4	79.4	-	10.9	15.7	22.8	16.4	79.2	-	56.1	54.9	61.8	63.0
15	EH-2878	78.3	76.5	87.2	76.1	83.2	80.2	15.5	11.0	15.5	23.0	16.2	76.4	54.2	58.3	39.6	63.2	58.3
16	EH-2879	75.6	76.5	81.1	86.0	82.5	80.3	15.9	10.6	15.4	23.0	16.2	57.6	56.9	43.3	49.3	61.8	53.8
17	UHPY-7	74.8	74.1	84.8	80.5	82.5	79.3	15.6	10.7	14.2	22.9	15.8	67.4	51.4	46.7	58.3	61.8	57.1
	CHECKS																	
18	Vivek Hy-43	76.2	74.3	80.0	84.6	82.9	79.6	15.5	10.6	15.0	22.9	16.0	72.9	52.1	40.6	50.7	61.8	55.6
19	PMH-5	76.4	76.4	87.0	78.9	83.0	80.3	15.6	10.7	14.3	23.0	15.9	63.9	56.9	32.2	43.1	61.8	51.6
20	Prakash	79.4	77.4	81.1	82.5	83.1	80.7	16.0	10.7	15.0	22.9	16.1	65.3	51.4	42.2	50.0	61.8	54.1
	Loc. Mean	**76.6**	**75.4**	**85.2**	**79.9**	**82.8**	**80.1**	**15.8**	**10.8**	**15.0**	**22.8**	**16.1**	**66.9**	**54.5**	**52.3**	**51.9**	**61.9**	**57.6**
	C.D. (5%)	4.07	2.52	6.15	2.97	0.59	3.17	0.40	0.73	0.44	0.59	0.67	8.22	7.73	10.82	4.49	1.54	6.94
	C.V. (%)	3.21	1.91	4.37	2.25	0.43	3.14	1.46	4.04	1.77	1.58	2.92	7.43	8.11	12.51	5.24	1.50	9.56
	F (Prob)	0.18	0.02	0.05	0.00	0.29	0.56	0.00	0.07	0.00	0.36	0.40	0.00	0.67	0.00	0.00	0.86	0.11

Table No. 25 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED						DAYS TO 50% SILKING						DAYS TO 75% DRY HUSK					
		AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IH-1002	42.0	40.0	58.7	53.0	51.0	48.9	45.0	43.3	59.3	55.0	52.3	51.0	86.0	74.7	83.7	86.0	83.7	82.8
2	IH-0704	43.0	40.0	54.3	50.0	54.7	48.4	46.7	43.0	55.3	51.0	56.3	50.5	82.3	74.7	84.7	82.0	87.7	82.3
3	IH-1206	41.0	39.3	52.7	49.3	50.3	46.5	44.3	42.3	53.7	50.7	51.7	48.5	79.3	74.0	83.7	81.7	84.0	80.5
4	IH-0903	45.0	41.3	57.0	50.0	55.7	49.8	48.3	44.7	58.0	51.0	57.3	51.9	79.3	74.3	83.3	82.0	88.7	81.5
5	IH-0901	45.0	41.7	54.7	49.7	52.3	48.7	48.7	44.3	56.0	50.7	54.3	50.8	83.7	75.7	83.7	81.7	86.0	82.1
6	WH-3138	48.0	40.3	55.3	50.7	50.7	49.0	51.7	43.3	56.3	52.3	52.7	51.3	89.7	74.3	83.0	84.0	83.0	82.8
7	WH-3140	40.0	41.7	53.3	49.0	50.3	46.9	43.0	48.3	54.3	50.7	52.3	49.7	83.0	74.7	83.3	81.7	83.0	81.1
8	WH-3141	39.0	39.7	54.0	49.0	53.0	46.9	42.3	42.7	55.0	50.0	55.0	49.0	82.0	74.3	82.3	81.3	85.3	81.1
9	WH-3142	44.3	41.7	55.0	50.3	50.7	48.4	48.0	44.3	56.3	51.3	52.7	50.5	88.3	75.0	81.0	82.3	84.0	82.1
10	WH-3139	50.0	41.7	55.0	51.0	50.7	49.7	53.3	44.7	56.0	53.0	52.7	51.9	93.7	74.0	86.3	85.0	84.0	84.6
11	EH-2880	46.7	-	56.3	49.7	50.0	50.7	50.3	-	57.3	51.0	51.3	52.5	89.7	-	84.7	82.0	82.0	84.6
12	EH-2214	48.3	41.3	56.0	51.0	53.0	49.9	52.0	44.0	57.0	52.3	54.3	51.9	89.7	75.3	85.3	83.3	84.7	83.7
13	EH-2233	53.0	41.0	58.3	52.0	53.7	51.6	56.3	44.0	59.3	55.0	55.3	54.0	90.3	74.7	88.7	85.0	85.7	84.9
14	EH-2877	49.3	-	59.0	52.0	55.0	53.8	53.0	-	60.0	53.3	56.3	55.7	88.0	-	86.7	85.0	87.0	86.7
15	EH-2878	47.0	39.0	55.7	51.3	49.3	48.5	51.0	42.3	57.0	52.3	51.3	50.8	88.7	73.7	81.7	85.0	83.0	82.4
16	EH-2879	52.0	39.7	60.0	50.0	49.0	50.1	55.3	42.7	61.0	51.0	50.3	52.1	93.7	74.7	89.7	85.0	80.7	84.7
17	UHPY-7	49.7	40.0	58.0	52.0	53.3	50.6	53.7	42.7	59.0	54.0	55.3	52.9	92.3	73.7	86.7	85.0	86.0	84.7
	CHECKS																		
18	Vivek Hy-43	42.3	41.7	54.0	49.7	55.3	48.6	46.3	44.3	55.0	50.7	57.3	50.7	83.3	74.3	82.7	82.0	87.0	81.9
19	PMH-5	45.0	39.3	56.0	50.0	55.3	49.1	49.0	42.3	57.0	51.0	57.3	51.3	86.3	75.0	82.7	83.0	88.7	83.1
20	Prakash	46.0	39.7	53.7	49.3	49.3	47.6	50.0	42.7	54.7	51.0	50.7	49.8	84.3	75.0	83.7	82.0	82.3	81.5
	Loc. Mean	**45.8**	**40.5**	**55.9**	**50.5**	**52.1**	**49.2**	**49.4**	**43.7**	**56.9**	**51.9**	**53.9**	**51.3**	**86.7**	**74.6**	**84.4**	**83.3**	**84.8**	**83.0**
	C.D. (5%)	1.69	1.83	1.94	0.62	1.08	3.17	1.88	3.22	1.86	0.74	0.80	3.24	6.87	2.28	1.10	0.49	1.41	3.49
	C.V. (%)	2.23	2.58	2.10	0.74	1.25	5.12	2.30	4.22	1.97	0.86	0.90	5.01	4.79	1.75	0.79	0.35	1.01	3.34
	F (Prob)	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.00	0.00	0.01	0.00	0.93	0.00	0.00	0.00	0.05

Table No. 25 (Continued)

S.No.	PEDIGREE	PLANT HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean	EAR HEIGHT(cm) AMBI	BANS	CHHI	GODH	UDAI	CWZ Mean
1	IH-1002	247.9	185.0	153.3	162.7	200.0	189.8	86.1	67.7	66.7	81.0	93.3	78.9
2	IH-0704	234.7	151.7	146.7	155.0	203.3	178.3	85.5	80.0	70.0	73.7	103.3	82.5
3	IH-1206	235.3	153.3	148.3	164.3	206.7	181.6	93.2	64.0	66.7	81.0	103.3	81.6
4	IH-0903	206.6	198.3	131.7	160.0	190.0	177.3	76.6	83.3	46.7	68.0	110.0	76.9
5	IH-0901	218.4	163.3	140.0	162.0	170.0	170.7	87.1	71.7	61.7	73.0	83.3	75.4
6	WH-3138	220.1	165.0	115.0	154.7	160.0	163.0	78.3	75.0	50.0	73.7	85.0	72.4
7	WH-3140	215.7	165.0	135.0	163.3	173.3	170.5	70.7	76.7	58.3	77.7	70.0	70.7
8	WH-3141	228.9	153.3	121.7	145.0	191.7	168.1	79.0	66.7	50.0	62.7	93.3	70.3
9	WH-3142	232.7	150.0	143.3	178.7	201.7	181.3	86.7	63.0	60.0	89.3	78.3	75.5
10	WH-3139	225.1	170.0	128.3	160.0	160.0	168.7	88.8	75.0	60.0	79.3	70.0	74.6
11	EH-2880	260.1	-	135.0	151.0	203.3	187.4	79.3	-	50.0	65.3	88.3	70.8
12	EH-2214	238.7	160.0	153.3	164.3	223.3	187.9	90.7	71.7	66.7	73.0	110.0	82.4
13	EH-2233	231.3	170.3	156.7	148.7	211.7	183.7	88.3	70.0	66.7	73.0	106.7	80.9
14	EH-2877	227.5	-	143.3	168.3	200.0	184.8	84.9	-	55.0	70.3	91.7	75.5
15	EH-2878	244.7	161.7	128.3	154.3	170.0	171.8	90.8	70.0	55.0	72.7	90.0	75.7
16	EH-2879	237.3	160.0	158.3	155.0	210.0	184.1	97.7	63.3	76.7	74.3	96.7	81.7
17	UHPY-7	239.3	175.0	161.7	171.0	203.3	190.1	88.5	71.7	76.7	84.3	103.3	84.9
	CHECKS												
18	Vivek Hy-43	192.1	153.3	128.3	146.3	190.0	162.0	67.9	73.3	50.0	63.3	70.0	64.9
19	PMH-5	222.9	190.0	113.3	158.3	160.0	168.9	78.7	74.7	46.7	72.7	80.0	70.5
20	Prakash	208.2	175.0	131.7	162.7	170.0	169.5	74.6	71.0	56.7	71.7	96.7	74.1
	Loc. Mean	**228.4**	**166.7**	**138.7**	**159.3**	**189.9**	**177.0**	**83.7**	**71.6**	**59.5**	**74.0**	**91.2**	**76.0**
	C.D. (5%)	35.30	34.81	15.92	28.32	11.34	16.60	18.06	20.33	15.15	19.22	10.92	9.99
	C.V. (%)	9.35	11.94	6.94	10.76	3.61	7.44	13.06	16.23	15.40	15.72	7.25	10.43
	F (Prob)	0.10	0.18	0.00	0.78	0.00	0.00	0.14	0.81	0.00	0.48	0.00	0.01

TABLE No. 26 PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN TRIAL No. TR511 DURING KHARIF (2015)

Sl		COB YIELD (kg/ha) AT 15% MOISTURE						COB YIELD % SUPERIORITY OVER THE											
						ZN 5		PMH-5		ZN 5	Prakash		ZN 5		HY-43		ZN 5	Pratap Hy. Maize 3		ZN 5
No	PEDIGREE	BANS	R	UDAI	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN
1	EH-2214	5783	12	6762	8	6272	9	6	19	13	-	19	9	4	29	16	8	-	-
2	WH-3152	6155	2	5687	19	5921	16	13	0	7	5	0	3	11	9	10	15	-	-
3	WH-3165	5390	20	5371	22	5380	25	-	-	-	-	-	-	-	3	-	1	-	-
4	WH-3146	5106	25	5977	16	5541	22	-	6	-	-	6	-	-	14	3	-	-	-
5	WH-3162	6242	1	4873	24	5558	20	15	-	0	7	-	-	12	-	3	17	-	-
6	EH-2880	6010	7	5951	17	5981	12	11	5	8	3	5	4	8	14	11	12	-	-
7	EH-2881	5309	23	8794	1	7052	1	-	55	27	-	55	23	-	68	31	-	22	12
8	EH-2882	6038	5	4864	25	5451	23	11	-	-	3	-	-	9	-	1	13	-	-
9	EH-2883	5516	17	6250	13	5883	17	1	10	6	-	10	2	-	20	9	3	-	-
10	EH-2884	5523	16	7987	3	6755	5	2	41	22	-	41	17	-	53	25	3	11	7
11	EH-2885	5896	8	5990	15	5943	14	8	6	7	1	6	3	6	15	10	10	-	-
12	EH-2886	5601	14	8270	2	6936	3	3	46	25	-	46	21	1	58	29	5	15	10
13	EH-2887	5788	11	6096	14	5942	15	6	8	7	-	8	3	4	17	10	8	-	-
14	EH-2888	6032	6	5912	18	5972	13	11	4	8	3	4	4	8	13	11	13	-	-
15	EH-2889	5771	13	6283	11	6027	11	6	11	9	-	11	5	4	20	12	8	-	-
16	EH-2890	5893	9	6750	9	6322	7	8	19	14	1	19	10	6	29	17	10	-	1
17	EH-2891	6041	4	7506	6	6774	4	11	33	22	3	33	18	9	44	26	13	4	8
18	EH-2892	5277	24	6254	12	5766	18	-	11	4	-	10	0	-	20	7	-	-	-
19	EH-2893	5378	21	7551	5	6464	6	-	33	16	-	33	12	-	44	20	0	5	3
20	EH-2894	6052	3	7825	4	6939	2	11	38	25	3	38	21	9	50	29	13	8	10
21	EH-2895	5503	18	6597	10	6050	10	1	17	9	-	17	5	-	26	12	3	-	-
	CHECKS																		
22	PMH-5	5439	19	5659	21	5549	21	-	-	-	-	-	-	-	8	3	2	-	-
23	Prakash	5849	10	5662	20	5756	19	8	0	4	-	-	-	5	8	7	9	-	-
24	Vivek Hy-43	5560	15	5228	23	5394	24	2	-	-	-	-	-	-	-	-	4	-	-
25	Pratap Hy. Maize 3	5353	22	7215	7	6284	8	-	27	13	-	27	9	-	38	17	-	-	-
	Location Mean	**5700**		**6453**		**6076**		AGRONOMY DATA											
	C.D. (5%)	914		1090		1002		Sowing Date			27-07	20-07	-						
	C.V. (%)	9.76		10.28		-		Harvest Date			2-11	29-10	-						
	F (Prob)	0.487		0				Irrigation Nos			2	3	-						
	Plot Size	4.8		4.8		-		Ferilizer Applied N			150	90	-						
								Ferilizer Applied P			80	60	-						
								Ferilizer Applied K			-	-	-						

Table No. 26 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %			MOISTURE % AT HARVEST			STAND AT HARVEST)			DAYS TO 50% POLLEN SHE			DAYS TO 50% SILKING		
		BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean
1	EH-2214	73.7	82.5	78.1	16.5	22.2	19.3	59.7	61.8	60.8	50.7	46.3	48.5	53.7	47.3	50.5
2	WH-3152	74.1	82.6	78.4	16.1	22.0	19.0	58.3	61.1	59.7	49.3	45.3	47.3	52.3	46.3	49.3
3	WH-3165	71.3	83.1	77.2	16.2	22.4	19.3	57.6	61.8	59.7	50.0	50.0	50.0	53.0	51.3	52.2
4	WH-3146	71.5	82.7	77.1	16.8	22.4	19.6	54.9	61.8	58.3	49.7	46.7	48.2	52.7	47.7	50.2
5	WH-3162	80.8	82.6	81.7	15.7	22.4	19.0	57.6	62.5	60.1	49.3	48.0	48.7	52.3	49.3	50.8
6	EH-2880	74.0	83.1	78.5	15.8	23.1	19.4	56.9	61.8	59.4	49.0	44.3	46.7	52.0	46.3	49.2
7	EH-2881	74.2	82.9	78.5	15.7	22.7	19.2	55.6	61.8	58.7	49.0	49.7	49.3	52.0	51.3	51.7
8	EH-2882	73.3	82.9	78.1	16.0	22.8	19.4	56.9	61.8	59.4	49.7	50.0	49.8	52.7	51.3	52.0
9	EH-2883	70.1	82.8	76.5	15.7	23.1	19.4	55.6	61.8	58.7	51.0	49.0	50.0	54.0	50.3	52.2
10	EH-2884	76.0	83.1	79.5	16.1	23.1	19.6	57.6	61.8	59.7	50.3	51.0	50.7	53.3	52.3	52.8
11	EH-2885	72.2	83.2	77.7	16.2	22.7	19.5	56.3	62.5	59.4	51.0	44.7	47.8	54.0	46.3	50.2
12	EH-2886	70.8	82.8	76.8	15.9	23.2	19.5	59.0	61.1	60.1	50.7	47.0	48.8	53.7	48.3	51.0
13	EH-2887	74.1	82.9	78.5	16.2	23.1	19.6	57.6	61.8	59.7	49.3	50.3	49.8	52.3	51.7	52.0
14	EH-2888	74.5	82.5	78.5	15.6	23.1	19.3	59.7	61.8	60.8	51.7	45.0	48.3	54.7	46.3	50.5
15	EH-2889	73.8	83.0	78.4	16.5	22.7	19.6	56.9	61.8	59.4	51.0	52.3	51.7	54.0	53.3	53.7
16	EH-2890	74.3	83.0	78.7	15.5	22.9	19.2	54.2	61.8	58.0	49.7	50.3	50.0	52.7	51.3	52.0
17	EH-2891	75.6	82.8	79.2	15.5	22.9	19.2	55.6	61.8	58.7	49.3	46.0	47.7	52.3	47.0	49.7
18	EH-2892	74.6	82.8	78.7	16.0	23.0	19.5	56.9	61.8	59.4	50.0	46.7	48.3	53.0	48.3	50.7
19	EH-2893	71.7	82.7	77.2	15.8	22.4	19.1	58.3	61.8	60.1	50.0	45.0	47.5	53.0	46.3	49.7
20	EH-2894	74.9	82.6	78.7	16.3	22.6	19.4	54.9	61.8	58.3	48.3	51.7	50.0	51.3	52.7	52.0
21	EH-2895	72.1	83.1	77.6	16.5	22.9	19.7	55.6	61.8	58.7	50.0	48.3	49.2	53.0	49.7	51.3
	CHECKS															
22	PMH-5	71.8	82.8	77.3	16.8	22.6	19.7	54.2	61.8	58.0	48.0	46.7	47.3	51.0	48.3	49.7
23	Prakash	73.6	82.9	78.2	16.3	22.6	19.4	56.3	61.8	59.0	50.7	50.3	50.5	53.7	51.3	52.5
24	Vivek Hy-43	74.5	83.1	78.8	16.2	22.2	19.2	56.9	61.8	59.4	51.3	50.3	50.8	54.3	51.3	52.8
25	Pratap Hy. Maize 3	71.5	83.0	77.2	16.7	22.9	19.8	56.3	61.8	59.0	50.3	51.0	50.7	53.3	52.3	52.8
	Loc. Mean	**73.5**	**82.8**	**78.2**	**16.1**	**22.7**	**19.4**	**56.8**	**61.8**	**59.3**	**50.0**	**48.2**	**49.1**	**53.0**	**49.5**	**51.3**
	C.D. (5%)	3.99	0.57	3.24	0.58	0.61	0.84	7.29	1.98	2.40	2.34	0.84	3.80	2.34	0.43	3.71
	C.V. (%)	3.31	0.42	2.01	2.20	1.63	2.11	7.82	1.95	1.96	2.85	1.06	3.75	2.69	0.53	3.51
	F (Prob)	0.01	0.54	0.58	0.00	0.00	0.93	0.99	1.00	0.65	0.27	0.00	0.47	0.27	0.00	0.51

Table No. 26 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY HUSK			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
		BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean	BANS	UDAI	ZN 5 Mean
1	EH-2214	85.3	81.0	83.2	201.7	160.0	180.8	100.0	70.0	85.0
2	WH-3152	85.7	79.0	82.3	195.0	156.7	175.8	101.7	68.3	85.0
3	WH-3165	85.3	82.0	83.7	193.3	163.3	178.3	98.3	61.7	80.0
4	WH-3146	87.3	81.0	84.2	193.3	170.0	181.7	98.0	70.0	84.0
5	WH-3162	85.7	81.3	83.5	195.0	160.0	177.5	93.3	70.0	81.7
6	EH-2880	87.7	79.0	83.3	195.0	160.0	177.5	93.3	63.3	78.3
7	EH-2881	87.3	81.7	84.5	193.3	160.0	176.7	96.7	75.0	85.8
8	EH-2882	86.3	81.3	83.8	190.0	170.0	180.0	96.7	60.0	78.3
9	EH-2883	88.7	80.7	84.7	195.0	180.0	187.5	95.0	73.3	84.2
10	EH-2884	87.0	85.0	86.0	191.7	160.0	175.8	93.3	66.7	80.0
11	EH-2885	87.3	77.0	82.2	191.3	160.0	175.7	100.0	58.3	79.2
12	EH-2886	87.3	80.3	83.8	195.0	170.0	182.5	95.0	80.0	87.5
13	EH-2887	88.0	83.7	85.8	186.7	153.3	170.0	95.0	56.7	75.8
14	EH-2888	89.3	78.3	83.8	193.7	163.3	178.5	96.3	80.0	88.2
15	EH-2889	89.0	84.0	86.5	190.0	153.3	171.7	93.0	70.0	81.5
16	EH-2890	85.0	82.7	83.8	199.7	153.3	176.5	98.3	65.0	81.7
17	EH-2891	86.3	79.0	82.7	193.3	156.7	175.0	95.0	53.3	74.2
18	EH-2892	87.3	81.3	84.3	188.3	153.3	170.8	95.0	71.7	83.3
19	EH-2893	87.7	77.3	82.5	183.3	155.0	169.2	95.0	68.3	81.7
20	EH-2894	84.7	82.3	83.5	201.7	156.7	179.2	98.3	65.0	81.7
21	EH-2895	87.3	81.0	84.2	198.3	160.0	179.2	101.7	66.7	84.2
	CHECKS									
22	PMH-5	85.3	82.0	83.7	200.0	160.0	180.0	103.3	73.3	88.3
23	Prakash	88.0	85.3	86.7	186.7	140.0	163.3	96.3	71.7	84.0
24	Vivek Hy-43	88.3	82.0	85.2	191.7	153.3	172.5	95.0	70.0	82.5
25	Pratap Hy. Maize 3	87.0	82.0	84.5	195.0	163.3	179.2	103.3	83.3	93.3
	Loc. Mean	**87.0**	**81.2**	**84.1**	**193.5**	**159.7**	**176.6**	**97.1**	**68.5**	**82.8**
	C.D. (5%)	2.95	1.44	3.71	11.44	9.57	11.28	13.36	8.51	10.78
	C.V. (%)	2.07	1.08	2.14	3.60	3.65	3.09	8.39	7.57	6.31
	F (Prob)	0.10	0.00	0.60	0.21	0.00	0.11	0.98	0.00	0.28

TABLE No. 27: PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN TRIAL No. TR512 DURING KHARIF (2015)

		COB YIELD (kg/ha) AT 15% MOISTURE						COB YIELD % SUPERIORITY OVER THE											
Sl						ZN 5		Bio 9637		ZN 5	Pratap Hybrid Maize		ZN 5		PMH1		BIO 9681		ZN 5
No	PEDIGREE	BANS	R	UDAI	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN
1	WH-2230	5807	12	5814	20	5810	20	-	12	6	-	-	-	-	-	-	-	3	1
2	WH-2178	5584	26	5343	25	5463	27	-	3	-	-	-	-	-	-	-	-	-	-
3	WH-2204	5745	17	5633	22	5689	22	-	9	4	-	-	-	-	-	-	-	0	-
4	WH-2228-1	5841	10	7339	8	6590	5	1	42	20	-	15	8	-	19	6	-	30	15
5	WH-2197	6120	4	6009	19	6064	18	5	16	10	4	-	-	-	-	-	4	7	5
6	WH-2225	5936	6	6760	14	6348	12	2	31	16	1	6	4	-	9	2	1	20	10
7	WH-2181	5631	24	4181	31	4906	31	-	-	-	-	-	-	-	-	-	-	-	-
8	EH-2896	5698	20	7198	10	6448	9	-	39	17	-	13	5	-	16	3	-	28	12
9	EH-2897	5726	19	6942	13	6334	13	-	34	15	-	9	4	-	12	1	-	23	10
10	EH-2898	5776	13	7525	5	6651	4	-	46	21	-	18	9	-	22	6	-	34	16
11	EH-2899	5668	22	7411	6	6539	6	-	43	19	-	16	7	-	20	5	-	32	14
12	WH-2044	5766	14	2529	32	4147	32	-	-	-	-	-	-	-	-	-	-	-	-
13	WH-2182	5274	32	5758	21	5516	25	-	11	0	-	-	-	-	-	-	-	2	-
14	WH-2272	5450	30	7529	4	6490	8	-	46	18	-	18	6	-	22	4	-	34	13
15	WH-2178	5739	18	5538	24	5639	23	-	7	3	-	-	-	-	-	-	-	-	-
16	EH-2900	5951	5	7574	2	6762	1	2	47	23	2	19	11	-	22	8	1	35	18
17	EH-2901	5288	31	7566	3	6427	11	-	46	17	-	19	5	-	22	3	-	34	12
18	EH-2902	6331	1	7126	11	6729	3	9	38	23	8	12	10	0	15	8	8	27	17
19	EH-2903	5520	28	6978	12	6249	14	-	35	14	-	10	2	-	13	0	-	24	9
20	EH-2904	5763	15	4408	30	5085	30	-	-	-	-	-	-	-	-	-	-	-	-
21	EH-2905	5627	25	6591	15	6109	17	-	28	11	-	3	-	-	7	-	-	17	6
22	EH-2906	5579	27	7893	1	6736	2	-	53	23	-	24	10	-	28	8	-	40	17
23	EH-2907	5756	16	7224	9	6490	7	-	40	18	-	13	6	-	17	4	-	28	13
24	EH-2908	6165	3	5073	27	5619	24	6	-	2	5	-	-	-	-	-	5	-	-

TABLE No. 27: PERFORMANCE OF EXPERIMENTAL HYBRIDS AT BANSWARA, UDAIPUR IN TRIAL No. TR512 DURING KHARIF (2015)

		COB YIELD (kg/ha) AT 15% MOISTURE						COB YIELD % SUPERIORITY OVER THE											
Sl						ZN 5		Bio 9637		ZN 5	Pratap Hybrid Maize		ZN 5	PMH1		ZN 5	BIO 9681		ZN 5
No	PEDIGREE	BANS	R	UDAI	R	MEAN	R	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN	BANS	UDAI	MEAN
25	EH-2909	5502	29	7372	7	6437	10	-	43	17	-	16	5	-	19	3	-	31	12
26	EH-2910	5655	23	4722	28	5188	29	-	-	-	-	-	-	-	-	-	-	-	-
27	EH-2911	5917	7	4657	29	5287	28	2	-	-	1	-	-	-	-	-	1	-	-
28	EH-2912	5695	21	6250	17	5972	19	-	21	9	-	-	-	-	1	-	-	11	4
	CHECKS																		
29	Bio 9637	5811	11	5169	26	5490	26	-	-	-	-	-	-	-	-	-	-	-	-
30	Pratap Hybrid Maize-3	5859	9	6368	16	6114	16	1	23	11	-	-	-	-	3	-	-	13	6
31	PMH-1	6305	2	6188	18	6246	15	8	20	14	8	-	2	-	-	-	7	10	9
32	Bio-9681	5874	8	5626	23	5750	21	1	9	5	0	-	-	-	-	-	-	-	-
	Location Mean	**5761**		**6197**		**5979**													
	C.D. (5%)	647		659		653													
	C.V. (%)	6.88		6.52		-													
	F (Prob)	0.383		0															
	Plot Size	4.8		4.8		-													
	AGRONOMY DATA																		
	Sowing Date	27-07		20-07		-													
	Harvest Date	2-11		29-10		-													
	Irrigation Nos	2		3		-													
	Ferilizer Applied N	150		90		-													
	Ferilizer Applied P	80		60		-													
	Ferilizer Applied K	-		-		-													
	TRIALS PLANNED AT BANSWARA, UDAIPUR																		

Table No. 27 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %			MOISTURE % AT HA			STAND AT HARVEST (			DAYS TO 50% POLL			DAYS TO 50% SILKI		
				ZN 5			ZN 5			ZN 5			ZN 5			ZN 5
		BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean
1	WH-2230	71.1	83.2	77.1	16.0	18.5	17.3	50.7	54.2	52.4	50.0	50.3	50.2	53.0	51.7	52.3
2	WH-2178	73.7	79.6	76.6	16.3	20.9	18.6	59.0	54.2	56.6	51.0	50.0	50.5	38.0	51.3	44.7
3	WH-2204	73.6	80.5	77.1	16.2	18.1	17.1	56.9	63.9	60.4	52.0	52.7	52.3	55.0	54.0	54.5
4	WH-2228-1	75.1	83.2	79.1	15.8	16.9	16.3	51.4	55.6	53.5	51.7	50.3	51.0	54.7	52.3	53.5
5	WH-2197	73.7	83.0	78.4	16.6	18.7	17.6	49.3	58.3	53.8	52.0	52.3	52.2	54.0	53.3	53.7
6	WH-2225	75.0	80.1	77.5	16.2	23.5	19.8	56.3	54.9	55.6	49.0	53.3	51.2	52.0	54.7	53.3
7	WH-2181	73.0	83.2	78.1	15.7	21.6	18.7	57.6	55.6	56.6	50.7	51.7	51.2	53.7	52.7	53.2
8	EH-2896	72.1	82.0	77.1	16.0	22.2	19.1	62.5	53.5	58.0	51.3	54.7	53.0	54.3	56.7	55.5
9	EH-2897	74.1	81.5	77.8	15.5	20.4	18.0	58.3	57.6	58.0	51.3	56.7	54.0	54.3	58.0	56.2
10	EH-2898	72.2	81.8	77.0	15.6	19.9	17.8	53.5	60.4	56.9	50.7	51.7	51.2	53.7	52.7	53.2
11	EH-2899	72.6	82.5	77.5	16.2	22.9	19.5	54.2	59.7	56.9	49.0	53.3	51.2	52.0	55.7	53.8
12	WH-2044	74.8	81.2	78.0	16.2	19.8	18.0	56.9	54.9	55.9	51.0	50.0	50.5	54.0	51.7	52.8
13	WH-2182	71.1	80.3	75.7	16.7	20.3	18.5	54.2	56.9	55.6	51.3	51.7	51.5	54.3	53.7	54.0
14	WH-2272	74.9	81.2	78.0	16.7	18.9	17.8	56.3	56.9	56.6	51.0	53.3	52.2	54.0	54.3	54.2
15	WH-2178	70.7	82.7	76.7	16.6	21.6	19.1	54.9	57.6	56.3	52.3	52.3	52.3	55.3	53.3	54.3
16	EH-2900	73.7	82.2	78.0	15.5	17.2	16.3	54.2	59.0	56.6	51.3	52.3	51.8	54.3	55.0	54.7
17	EH-2901	72.8	81.8	77.3	16.7	19.7	18.2	56.3	56.9	56.6	52.3	54.7	53.5	55.3	56.3	55.8
18	EH-2902	73.2	80.8	77.0	16.0	17.3	16.6	54.9	55.6	55.2	50.7	54.0	52.3	53.7	55.3	54.5
19	EH-2903	73.1	80.7	76.9	16.8	18.0	17.4	60.4	45.8	53.1	52.0	53.0	52.5	55.0	54.7	54.8
20	EH-2904	75.2	80.5	77.9	16.1	18.8	17.4	60.4	56.3	58.3	50.7	57.0	53.8	52.7	58.3	55.5
21	EH-2905	73.1	81.8	77.5	15.6	23.0	19.3	52.8	59.7	56.3	50.3	54.3	52.3	53.3	55.7	54.5
22	EH-2906	76.1	82.0	79.0	16.8	18.8	17.8	56.3	61.8	59.0	52.7	51.7	52.2	54.7	53.7	54.2
23	EH-2907	73.1	82.4	77.7	16.2	22.0	19.1	55.6	59.7	57.6	52.3	51.7	52.0	55.3	54.3	54.8
24	EH-2908	73.6	75.5	74.5	15.9	23.5	19.7	56.9	52.1	54.5	51.3	55.3	53.3	54.3	57.3	55.8
25	EH-2909	72.7	80.5	76.6	16.2	18.8	17.5	54.2	50.0	52.1	50.3	56.3	53.3	52.3	57.3	54.8
26	EH-2910	73.1	80.3	76.7	15.4	21.4	18.4	51.4	55.6	53.5	52.0	55.3	53.7	55.0	56.3	55.7
27	EH-2911	75.6	81.2	78.4	16.0	19.8	17.9	58.3	45.8	52.1	51.7	56.0	53.8	54.7	57.3	56.0
28	EH-2912	72.4	82.8	77.6	16.2	17.6	16.9	56.3	43.1	49.7	52.3	55.7	54.0	55.3	56.7	56.0
	CHECKS															
29	Bio 9637	75.5	82.2	78.8	15.8	20.7	18.2	57.6	52.1	54.9	50.3	56.3	53.3	53.3	57.3	55.3
30	Pratap Hybrid Maize-3	73.6	82.8	78.2	17.4	19.2	18.3	54.2	57.6	55.9	50.3	55.7	53.0	53.3	57.3	55.3
31	PMH-1	74.6	81.0	77.8	16.6	21.8	19.2	56.3	60.4	58.3	49.7	57.3	53.5	52.7	58.7	55.7
32	Bio-9681	75.1	81.8	78.4	16.0	22.8	19.4	53.5	57.6	55.6	49.7	55.7	52.7	52.7	57.3	55.0
	Loc. Mean	**73.6**	**81.4**	**77.5**	**16.1**	**20.1**	**18.1**	**55.7**	**55.7**	**55.7**	**51.1**	**53.6**	**52.4**	**53.4**	**55.2**	**54.3**
	C.D. (5%)	2.74	0.66	3.08	0.86	0.75	2.99	7.50	7.02	8.93	2.69	1.02	3.71	8.51	1.07	4.65
	C.V. (%)	2.28	0.50	1.95	3.25	2.27	8.07	8.25	7.72	7.86	3.22	1.17	3.48	9.76	1.19	4.20
	F (Prob)	0.01	0.00	0.76	0.00	0.00	0.65	0.26	0.00	0.95	0.40	0.00	0.79	0.51	0.00	0.10

Table No. 27 (Continued)

S.No.	PEDIGREE	DAYS TO 75% DRY			PLANT HEIGHT(cm)			EAR HEIGHT(cm)		
				ZN 5			ZN 5			ZN 5
		BANS	UDAI	Mean	BANS	UDAI	Mean	BANS	UDAI	Mean
1	WH-2230	86.3	83.3	84.8	175.0	105.0	140.0	82.0	45.0	63.5
2	WH-2178	89.0	89.3	89.2	185.3	158.3	171.8	78.3	63.3	70.8
3	WH-2204	91.3	84.7	88.0	171.7	145.0	158.3	71.0	55.0	63.0
4	WH-2228-1	90.0	86.7	88.3	175.3	141.7	158.5	73.7	51.7	62.7
5	WH-2197	89.7	88.3	89.0	176.7	105.0	140.8	76.7	51.7	64.2
6	WH-2225	85.0	95.3	90.2	178.7	167.7	173.2	77.0	80.0	78.5
7	WH-2181	86.3	91.3	88.8	178.7	131.7	155.2	75.3	53.3	64.3
8	EH-2896	90.0	94.3	92.2	184.3	178.3	181.3	67.3	91.7	79.5
9	EH-2897	90.0	95.7	92.8	180.3	138.3	159.3	81.3	71.7	76.5
10	EH-2898	87.0	91.3	89.2	176.7	145.0	160.8	77.3	73.3	75.3
11	EH-2899	86.0	94.7	90.3	185.3	176.7	181.0	73.7	74.3	74.0
12	WH-2044	89.7	89.3	89.5	182.0	155.0	168.5	81.7	63.3	72.5
13	WH-2182	88.0	86.7	87.3	183.3	140.0	161.7	79.0	70.0	74.5
14	WH-2272	89.0	90.7	89.8	182.0	123.3	152.7	90.7	50.0	70.3
15	WH-2178	89.7	86.3	88.0	171.7	140.0	155.8	81.3	55.0	68.2
16	EH-2900	89.0	90.3	89.7	181.3	170.0	175.7	81.7	58.3	70.0
17	EH-2901	90.3	94.3	92.3	175.0	165.0	170.0	78.7	78.3	78.5
18	EH-2902	89.3	94.7	92.0	185.3	150.0	167.7	84.0	71.0	77.5
19	EH-2903	89.3	91.7	90.5	170.0	125.0	147.5	76.0	53.3	64.7
20	EH-2904	89.7	93.7	91.7	178.3	136.7	157.5	84.7	65.0	74.8
21	EH-2905	88.0	94.7	91.3	180.3	158.3	169.3	77.0	70.0	73.5
22	EH-2906	90.7	89.7	90.2	173.3	165.0	169.2	73.0	81.7	77.3
23	EH-2907	90.3	90.7	90.5	175.3	151.7	163.5	84.7	60.0	72.3
24	EH-2908	88.7	95.7	92.2	176.7	160.0	168.3	76.0	60.0	68.0
25	EH-2909	87.3	92.3	89.8	171.7	115.0	143.3	70.3	80.0	75.2
26	EH-2910	88.3	90.7	89.5	177.0	153.3	165.2	71.3	63.3	67.3
27	EH-2911	90.0	92.3	91.2	171.7	130.0	150.8	82.3	38.3	60.3
28	EH-2912	89.3	89.3	89.3	187.0	164.3	175.7	90.3	72.7	81.5
	CHECKS									
29	Bio 9637	88.3	91.3	89.8	181.7	185.0	183.3	85.0	81.7	83.3
30	Pratap Hybrid Maize-3	89.0	90.3	89.7	176.7	161.7	169.2	65.0	83.3	74.2
31	PMH-1	87.0	96.0	91.5	190.3	163.3	176.8	73.7	81.7	77.7
32	Bio-9681	87.3	96.7	92.0	171.7	170.3	171.0	78.0	65.0	71.5
	Loc. Mean	**88.7**	**91.3**	**90.0**	**178.4**	**149.2**	**163.8**	**78.1**	**66.0**	**72.0**
	C.D. (5%)	3.30	1.27	5.90	16.27	12.20	27.39	17.71	10.52	22.99
	C.V. (%)	2.28	0.85	3.21	5.59	5.01	8.20	13.90	9.76	15.64
	F (Prob)	0.04	0.00	0.85	0.71	0.00	0.14	0.60	0.00	0.94

TABLE No. 28: PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT BANSWARA, GODHRA, UDAIPUR IN TRIAL No. TRZTQ01 DURING KHARIF (2015)

	GRAIN	YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE											
Sl								CWZ		OV'L		Vivek QPM-9			CWZ	HQPM-1			ZN 5	HQPM-7			CWZ
No	PEDIGREE	BANS	R	GODH	R	UDAI	R	MEAN	R	MEAN	R	BANS	GODH	UDAI	MEAN	BANS	GODH	UDAI	MEAN	BANS	GODH	UDAI	MEAN
1	EIHQPM-0901	3360	6	2297	17	6977	11	4211	12	4211	12	2.7	-	33	10	1.4	-	-	-	-	-	-	-
2	IHQPM-0902	3373	4	2922	11	10530	1	5608	1	5608	1	3	-	100.8	46.6	1.8	0.7	36.3	20.7	-	-	37.7	17.8
3	IHQPM-0903	2950	16	2915	12	4982	18	3616	18	3616	18	-	-	-	-	-	0.4	-	-	-	-	-	-
4	IHQPM-0904	3545	1	2983	9	8676	3	5068	3	5068	3	8.3	0.7	65.4	32.4	7	2.8	12.3	9	3.7	-	13.5	6.4
5	IHQPM-0905	2812	19	612	19	7443	8	3623	17	3623	17	-	-	41.9	-	-	-	-	-	-	-	-	-
6	EHQ-561	3500	2	2996	8	8401	4	4966	4	4966	4	6.9	1.2	60.2	29.8	5.7	3.2	8.7	6.8	2.4	-	9.9	4.3
7	EHQ-562	3019	15	3141	6	7860	5	4673	6	4673	6	-	6.1	49.9	22.1	-	8.2	1.7	0.6	-	-	2.8	-
8	EHQ-563	3291	9	3351	3	7089	10	4577	8	4577	8	0.6	13.1	35.2	19.6	-	15.4	-	-	-	4	-	-
9	EHQ-564	3366	5	2594	14	4703	19	3554	19	3554	19	2.8	-	-	-	1.6	-	-	-	-	-	-	-
10	EHQ-565	2949	17	3318	4	9012	2	5093	2	5093	2	-	12	71.8	33.1	-	14.3	16.6	9.6	-	3	17.9	6.9
11	EHQ-566	3252	12	2310	16	6268	14	3943	14	3943	14	-	-	19.5	3.1	-	-	-	-	-	-	-	-
12	EHQ-567	3266	11	3982	1	5834	16	4361	10	4361	10	-	34.4	11.2	14	-	37.2	-	-	-	23.6	-	-
13	EHQ-568	3347	7	2393	15	7164	9	4301	11	4301	11	2.3	-	36.6	12.4	1.1	-	-	-	-	-	-	-
14	EHQ-569	3074	14	1767	18	6972	13	3938	15	3938	15	-	-	32.9	2.9	-	-	-	-	-	-	-	-
15	EHQ-570	2879	18	3546	2	6974	12	4466	9	4466	9	-	19.7	33	16.7	-	22.2	-	-	-	10	-	-
16	EHQ-571	3109	13	3004	7	6221	15	4111	13	4111	13	-	1.4	18.6	7.4	-	3.5	-	-	-	-	-	-
	CHECKS																						
17	Vivek QPM-9	3273	10	2962	10	5245	17	3827	16	3827	16	-	-	-	-	-	2	-	-	-	-	-	-
18	HQPM-1	3312	8	2903	13	7728	6	4648	7	4648	7	1.2	-	47.3	21.5	-	-	-	-	-	-	1.1	-
19	HQPM-7	3418	3	3222	5	7646	7	4762	5	4762	5	4.4	8.8	45.8	24.5	3.2	11	-	2.5	-	-	-	-
	Location Mean	**3216**		**2801**		**7143**		**4387**		**4387**													
	C.D. (5%)	509		408		448		455		455													
	C.V. (%)	9.55		8.78		3.78		-		-													
	F (Prob)	0.167		0		0																	
	Plot Size	4.8		4.8		4.8		-		-													
	AGRONOMY DATA																						
	Sowing Date	13-07		2-08		1-07		-		-													
	Harvest Date	18-10		19-11		17-10		-		-													
	Irrigation Nos	-		-		2		-		-													
	Ferilizer Applied N	150		100		120		-		-													
	Ferilizer Applied P	80		50		90		-		-													
	Ferilizer Applied K	-		-		-		-		-													

Table No. 28 (Continued)

S.No.	PEDIGREE	GRAIN SHELLING %				MOISTURE % AT HARVEST				STAND AT HARVEST ('000/ha)				PLANT HEIGHT(cm)			
		BANS	GODH	UDAI	CWZ Mean	BANS	GODH	UDAI	CWZ Mean	BANS	GODH	UDAI	ZN 5 Mean	BANS	GODH	UDAI	CWZ Mean
1	EIHQPM-0901	68.0	74.6	80.7	74.4	15.7	14.4	15.7	15.2	43.8	41.0	63.2	49.3	138.3	155.8	163.3	152.5
2	IHQPM-0902	65.5	74.2	81.5	73.7	16.1	15.4	16.6	16.0	56.3	50.0	60.4	55.6	143.3	150.8	191.7	161.9
3	IHQPM-0903	68.8	79.5	81.0	76.4	16.1	15.4	16.4	15.9	49.3	52.1	61.8	54.4	145.0	156.7	173.3	158.3
4	IHQPM-0904	67.5	74.1	81.5	74.3	16.2	15.0	18.1	16.4	51.4	45.8	58.3	51.9	143.3	157.5	205.0	168.6
5	IHQPM-0905	66.8	74.4	80.5	73.9	16.0	16.5	15.9	16.1	52.8	12.5	65.3	43.5	146.7	162.5	181.7	163.6
6	EHQ-561	69.0	77.0	80.0	75.3	16.1	16.5	19.2	17.2	50.0	46.5	59.7	52.1	143.3	160.0	163.3	155.6
7	EHQ-562	66.1	79.1	81.2	75.4	16.1	16.2	19.1	17.1	50.0	42.4	59.0	50.5	145.0	143.3	171.7	153.3
8	EHQ-563	67.9	77.1	80.3	75.1	16.0	15.5	17.6	16.4	48.6	43.8	58.3	50.2	153.3	148.3	175.0	158.9
9	EHQ-564	68.4	75.9	78.8	74.3	16.2	14.6	18.4	16.4	50.7	41.0	51.4	47.7	130.0	165.8	163.3	153.1
10	EHQ-565	67.3	81.1	81.0	76.4	15.9	14.4	16.7	15.7	52.8	48.6	64.6	55.3	148.3	175.0	191.7	171.7
11	EHQ-566	70.1	71.3	80.0	73.8	15.8	15.6	19.4	16.9	52.1	42.4	59.7	51.4	145.0	148.3	183.3	158.9
12	EHQ-567	68.1	80.1	82.8	77.0	15.4	16.7	17.1	16.4	54.9	60.4	57.6	57.6	135.0	165.0	165.0	155.0
13	EHQ-568	69.4	75.2	82.0	75.5	16.0	15.2	15.8	15.7	53.5	41.0	57.6	50.7	155.0	149.2	191.7	165.3
14	EHQ-569	68.8	74.1	80.0	74.3	16.4	16.6	19.8	17.6	52.8	29.2	46.5	42.8	145.0	156.7	176.7	159.4
15	EHQ-570	67.0	73.4	80.5	73.6	15.6	16.8	19.4	17.2	52.8	57.6	48.6	53.0	143.3	163.3	225.0	177.2
16	EHQ-571	66.9	80.8	79.6	75.8	16.0	15.7	17.9	16.5	48.6	44.4	65.3	52.8	138.3	157.5	205.0	166.9
	CHECKS																
17	Vivek QPM-9	66.4	73.5	79.0	73.0	15.7	16.4	19.5	17.2	50.7	59.0	52.8	54.2	148.3	146.7	180.0	158.3
18	HQPM-1	66.7	75.0	80.5	74.1	16.1	16.9	20.6	17.9	54.9	36.8	59.0	50.2	144.0	161.7	186.7	164.1
19	HQPM-7	68.8	78.3	80.3	75.8	15.6	16.0	20.2	17.3	47.9	54.9	60.4	54.4	135.0	157.5	195.0	162.5
	Loc. Mean	**67.7**	**76.2**	**80.6**	**74.9**	**15.9**	**15.8**	**18.1**	**16.6**	**51.2**	**44.7**	**58.4**	**51.4**	**143.5**	**156.9**	**183.6**	**161.3**
	C.D. (5%)	2.02	2.12	0.61	3.06	0.70	0.48	0.50	1.53	8.39	4.80	4.37	12.62	12.58	28.72	7.78	18.19
	C.V. (%)	1.80	1.68	0.46	2.47	2.67	1.85	1.68	5.59	9.88	6.49	4.52	14.82	5.30	11.05	2.56	6.81
	F (Prob)	0.00	0.00	0.00	0.39	0.38	0.00	0.00	0.06	0.48	0.00	0.00	0.74	0.04	0.86	0.00	0.40

Table No. 28 (Continued)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			EAR HEIGHT(cm)			
		GODH	UDAI	CWZ Mean	GODH	UDAI	CWZ Mean	GODH	UDAI	CWZ Mean	BANS	GODH	UDAI	CWZ Mean
1	EIHQPM-0901	54.0	51.7	52.8	55.0	54.0	54.5	87.0	89.7	88.3	46.7	70.8	93.3	70.3
2	IHQPM-0902	51.0	55.3	53.2	52.3	56.7	54.5	85.0	93.0	89.0	46.7	80.0	103.3	76.7
3	IHQPM-0903	54.0	50.0	52.0	55.0	52.3	53.7	87.0	89.3	88.2	48.3	80.8	90.0	73.1
4	IHQPM-0904	53.0	54.3	53.7	55.0	55.3	55.2	87.0	89.3	88.2	46.7	77.5	105.0	76.4
5	IHQPM-0905	54.3	51.0	52.7	56.0	52.3	54.2	87.7	89.7	88.7	50.0	70.0	93.3	71.1
6	EHQ-561	53.3	54.7	54.0	54.3	56.3	55.3	85.0	95.3	90.2	46.7	83.3	85.0	71.7
7	EHQ-562	52.0	54.7	53.3	53.0	56.0	54.5	84.7	96.7	90.7	43.3	75.0	83.3	67.2
8	EHQ-563	51.3	54.7	53.0	53.0	56.7	54.8	85.0	96.7	90.8	48.3	69.2	70.0	62.5
9	EHQ-564	52.0	54.3	53.2	53.0	56.0	54.5	85.3	95.7	90.5	43.3	77.5	71.7	64.2
10	EHQ-565	52.0	55.0	53.5	54.0	56.7	55.3	85.7	94.7	90.2	51.7	87.5	98.3	79.2
11	EHQ-566	51.0	51.7	51.3	53.0	53.7	53.3	84.7	94.3	89.5	53.3	77.5	70.0	66.9
12	EHQ-567	51.0	52.7	51.8	52.3	54.3	53.3	83.7	87.7	85.7	46.7	78.3	71.7	65.6
13	EHQ-568	51.0	51.7	51.3	52.7	54.0	53.3	84.0	94.3	89.2	46.7	70.8	81.7	66.4
14	EHQ-569	53.3	54.3	53.8	55.0	56.0	55.5	86.0	95.3	90.7	50.0	75.0	91.7	72.2
15	EHQ-570	51.3	54.0	52.7	53.3	55.3	54.3	84.7	90.7	87.7	46.7	82.5	103.3	77.5
16	EHQ-571	52.3	55.7	54.0	53.7	57.7	55.7	85.3	96.7	91.0	56.7	76.7	91.7	75.0
	CHECKS													
17	Vivek QPM-9	51.7	47.3	49.5	53.0	49.0	51.0	85.0	86.3	85.7	51.7	61.7	85.0	66.1
18	HQPM-1	52.3	55.7	54.0	53.7	57.3	55.5	85.7	99.3	92.5	46.7	70.0	81.7	66.1
19	HQPM-7	52.0	56.0	54.0	53.7	57.7	55.7	85.3	96.7	91.0	53.3	78.3	83.3	71.7
	Loc. Mean	**52.3**	**53.4**	**52.8**	**53.7**	**55.1**	**54.4**	**85.5**	**93.2**	**89.3**	**48.6**	**75.9**	**87.0**	**70.5**
	C.D. (5%)	0.74	1.64	4.02	1.00	1.43	3.82	1.22	1.23	6.04	8.12	20.75	6.53	11.81
	C.V. (%)	0.86	1.85	3.62	1.12	1.57	3.34	0.86	0.80	3.22	10.10	16.50	4.53	10.11
	F (Prob)	0.00	0.00	0.70	0.00	0.00	0.68	0.00	0.00	0.70	0.14	0.78	0.00	0.18

TABLE No. 29 **PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2015 KHARIF AT SRINAGAR IN IVT TRIAL No. 62 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE PMH 4 (C) SRIN	HM9(C) SRIN	HM10(C) SRIN	Bio -9637(C) SRIN
1	CMH11-584	5803	37	-	6	5	8
2	BH 412044	6356	1	9	16	15	18
3	Zuari Nandiri	6294	2	8	15	14	17
4	LMH 314	5433	106	-	-	-	1
5	CMH12-665	5722	57	-	5	4	6
6	JH 13172	5842	31	0	7	6	9
7	IAHM 2013-11	5734	51	-	5	4	7
8	HT 51412607	5689	61	-	4	3	6
9	KDMH 100-3	5856	28	1	7	6	9
10	TMMH 826	6019	8	3	10	9	12
11	BH 412063	5670	62	-	4	3	5
12	HT 51412081	5610	73	-	3	2	4
13	KH-545	5447	105	-	-	-	1
14	Srikar 4689	5453	103	-	-	-	1
15	HKH342	5557	81	-	2	1	3
16	DH1403	5578	75	-	2	1	4
17	BL 900	5505	96	-	1	-	2
18	MMH 3-13	5883	23	1	8	7	9
19	LMH 214	6012	9	3	10	9	12
20	QMH-1015	5915	21	2	8	7	10
21	MMH 6-13	5563	77	-	2	1	3
22	BH 412084	5333	118	-	-	-	-
23	DAS-MH-307	5538	86	-	1	0	3
24	PM 14107M	5506	94	-	1	-	2
25	KH-517 Gold	5628	69	-	3	2	5
26	PMH 2277	6033	6	4	10	9	12
27	EH-2372	5853	29	0	7	6	9
28	JH 13119	5538	85	-	1	0	3
29	JH 13139	5452	104	-	-	-	1
30	DMRH1412	5351	116	-	-	-	-
31	REH2013-4	5084	129	-	-	-	-
32	MMH 2-13	5874	25	1	7	6	9
33	BH 412067	5185	125	-	-	-	-
34	DH1405	5303	119	-	-	-	-
35	BL 897	5207	124	-	-	-	-
36	JH 13117	5415	110	-	-	-	1

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE PMH 4 (C) SRIN	HM9(C) SRIN	HM10(C) SRIN	Bio -9637(C) SRIN
37	JH 13114	6005	11	3	10	9	12
38	UDMH-115	5729	55	-	5	4	6
39	JH 31605	5642	67	-	3	2	5
40	EH-2381	5618	71	-	3	2	4
41	ZMH-999	5618	70	-	3	2	4
42	UDMH-101	6063	4	4	11	10	13
43	DMRH1308	6034	5	4	10	9	12
44	PM 14106M	5548	84	-	1	1	3
45	MMH 5-13	5656	65	-	3	2	5
46	HKH344	5700	60	-	4	3	6
47	DMRH1413	5713	59	-	4	4	6
48	KDMH 100-8	5997	12	3	10	9	11
49	JH 13054	5845	30	0	7	6	9
50	IASH 11C022	5753	44	-	5	4	7
51	HT 51412373	5732	52	-	5	4	7
52	CMH11-619	6164	3	6	13	12	15
53	DH1411	5404	112	-	-	-	0
54	UDMH-114	5428	107	-	-	-	1
55	PM 14108M	5575	76	-	2	1	4
56	DH1401	5255	121	-	-	-	-
57	Proline 786	5426	108	-	-	-	1
58	AWLH 1	5957	14	2	9	8	11
59	DMRH1301	5551	82	-	1	1	3
60	QMH-1034	5414	111	-	-	-	1
61	DMRH1418	4961	130	-	-	-	-
62	CP.201	5144	128	-	-	-	-
63	EH-2380	5213	123	-	-	-	-
64	MMHQPM-6-12-13-Filler	6023	7	3	10	9	12
65	BH 412066	5944	17	2	9	8	10
66	BH 412062	5799	38	-	6	5	8
67	IAHM 2013-9	5741	48	-	5	4	7
68	JH 31607	5731	53	-	5	4	7
69	DH1415	5955	15	2	9	8	11
70	TMMH 801	5660	64	-	3	3	5
71	GPS 01	5663	63	-	3	3	5
72	DMRM1402	5861	26	1	7	6	9
73	DH1429	6006	10	3	10	9	12
74	IAHM 2013-33	5747	45	-	5	4	7

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE PMH 4 (C) SRIN	HM9(C) SRIN	HM10(C) SRIN	Bio -9637(C) SRIN
75	AH-1323	5927	20	2	8	7	10
76	DAS-MH-306	5822	34	-	6	6	8
77	IAHM 2013-97	5758	43	-	5	4	7
78	QMH-1025	5467	102	-	-	-	2
79	RMH 796	5742	47	-	5	4	7
80	KMH-4811	5720	58	-	5	4	6
81	BH 412065	5727	56	-	5	4	6
82	JH 13142	5774	41	-	6	5	7
83	IAHM 2013-26	5655	66	-	3	2	5
84	AH-1322	5505	95	-	1	-	2
85	JH 13164	5471	100	-	-	-	2
86	HT 51412182	5528	90	-	1	0	3
87	SHIATS MS2	5384	114	-	-	-	0
88	KMH12-25	5636	68	-	3	2	5
89	BH 412064	5744	46	-	5	4	7
90	GPS 05	5499	98	-	0	-	2
91	JH 13226	5184	126	-	-	-	-
92	LMH 414	5276	120	-	-	-	-
93	CMH11-593	5162	127	-	-	-	-
94	JH 13204	5418	109	-	-	-	1
95	NMH-3662	5243	122	-	-	-	-
96	DMRH1410	5615	72	-	3	2	4
97	EH-2235	5857	27	1	7	6	9
98	CMH11-586	5758	42	-	5	4	7
99	DMRH1416	5837	32	0	7	6	8
100	REH2013-1	5563	78	-	2	1	3
101	JH 13122	5946	16	2	9	8	10
102	NMH-3612	5534	89	-	1	0	3
103	DH1413	5537	88	-	1	0	3
104	GK-3120	5608	74	-	2	2	4
105	DMRH1302	5551	83	-	1	1	3
106	DMRH- 12-110	5502	97	-	1	-	2
107	JH 13224	5523	92	-	1	0	3
108	JH 13215	5878	24	1	7	7	9
109	HT 51412616	5962	13	2	9	8	11
110	JKMH 4848	5782	40	-	6	5	7
111	SMH-3901	5470	101	-	-	-	2
112	BH 412120	5334	117	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE PMH 4 (C) SRIN	HM9(C) SRIN	HM10(C) SRIN	Bio -9637(C) SRIN
113	VEH 14-2	5389	113	-	-	-	0
114	LMH 114	5558	79	-	2	1	3
115	JH 13246	5558	80	-	2	1	3
116	KF-105	5537	87	-	1	0	3
117	IN 8401	5729	54	-	5	4	6
118	MMH 4-13	5738	49	-	5	4	7
119	AWLH 2	5933	18	2	8	8	10
120	Bio 719	5890	22	1	8	7	9
121	DMRH1417	5785	39	-	6	5	7
122	HKH343	5929	19	2	8	7	10
123	JH 13121	5808	36	-	6	5	8
124	TI 8261	5736	50	-	5	4	7
125	CMH11-615	5809	35	-	6	5	8
126	REH2013-3	5525	91	-	1	0	3
	CHECKS						
127	PMH 4 (C)	5825	33	-	6	6	8
128	HM9(C)	5473	99	-	-	-	2
129	HM10(C)	5518	93	-	1	-	3
130	Bio -9637(C)	5381	115	-	-	-	-
	Location Mean	**5650**					
	C.D. (5%)	1346					
	C.V. (%)	14.81					
	F (Prob)	1					
	Plot Size	4.8					
	AGRONOMY DATA						
	Sowing Date	30-04					
	Harvest Date	20-09					
	Irrigation Nos	2					
	Ferilizer Applied N	120					
	Ferilizer Applied P	80					
	Ferilizer Applied K	60					

Table No. 29 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	CMH11-584	83.3	77.8	23.5	83.3	84.7	154.7	208.3	93.3
2	BH 412044	82.6	79.8	23.5	88.3	89.7	156.0	201.7	100.0
3	Zuari Nandiri	81.9	78.3	23.0	87.7	88.7	154.3	185.0	105.0
4	LMH 314	82.6	78.0	21.0	89.7	90.7	155.0	213.3	110.0
5	CMH12-665	83.3	80.0	23.0	89.3	90.3	156.0	218.3	90.0
6	JH 13172	82.6	79.8	21.5	86.7	88.0	156.7	205.0	100.0
7	IAHM 2013-11	83.3	78.8	17.5	84.7	86.0	153.3	170.0	80.0
8	HT 51412607	82.6	79.0	24.0	86.3	87.7	158.7	165.0	71.7
9	KDMH 100-3	83.3	79.5	19.5	89.3	90.7	157.0	165.0	51.7
10	TMMH 826	82.6	80.0	21.0	87.7	90.7	157.7	183.3	100.0
11	BH 412063	81.9	80.0	20.5	89.7	91.7	156.3	180.0	93.3
12	HT 51412081	82.6	78.0	21.5	89.3	91.3	161.0	180.0	75.0
13	KH-545	83.3	78.8	16.0	90.0	92.0	158.0	175.0	70.0
14	Srikar 4689	83.3	79.8	17.5	88.7	90.7	151.3	186.7	85.0
15	HKH342	83.3	80.0	17.5	90.3	92.3	157.0	205.0	100.0
16	DH1403	81.9	79.8	23.5	90.7	92.7	156.7	186.7	100.0
17	BL 900	81.9	80.0	18.5	90.7	92.7	159.0	185.0	85.0
18	MMH 3-13	82.6	79.8	22.5	90.7	92.7	158.0	185.0	71.7
19	LMH 214	81.9	78.8	23.0	90.7	92.7	157.0	165.0	63.3
20	QMH-1015	82.6	80.0	17.5	90.7	92.7	158.0	200.0	80.0
21	MMH 6-13	81.3	78.8	22.5	88.3	90.3	155.0	190.0	100.0
22	BH 412084	82.6	79.8	20.5	89.7	91.7	156.0	195.0	90.0
23	DAS-MH-307	82.6	78.8	24.0	89.7	91.7	155.0	205.0	110.0
24	PM 14107M	83.3	78.8	21.0	89.7	91.7	154.7	200.0	80.0
25	KH-517 Gold	80.6	79.3	20.5	89.3	91.3	156.3	223.3	120.0
26	PMH 2277	82.6	80.0	15.5	83.7	86.0	150.0	171.7	66.7
27	EH-2372	83.3	79.8	17.5	83.7	86.0	157.0	175.0	70.0
28	JH 13119	83.3	79.0	16.0	88.3	90.7	154.3	210.0	100.0
29	JH 13139	82.6	78.3	21.0	89.7	91.7	156.3	218.3	95.0
30	DMRH1412	82.6	79.0	22.0	90.7	92.7	158.7	201.7	88.3
31	REH2013-4	83.3	79.8	23.5	90.3	92.3	158.7	223.3	95.0
32	MMH 2-13	82.6	80.0	22.5	90.7	92.3	156.3	200.0	95.0
33	BH 412067	80.6	78.8	18.5	88.7	91.0	155.0	190.0	80.0
34	DH1405	81.9	78.8	17.5	90.7	92.7	157.3	201.7	101.7
35	BL 897	83.3	78.8	22.5	90.3	92.3	157.3	195.0	95.0
36	JH 13117	82.6	78.8	22.5	90.3	91.7	155.7	191.7	100.0

Table No. 29 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
37	JH 13114	81.9	78.3	15.5	88.7	91.3	152.7	195.0	100.0
38	UDMH-115	81.9	79.0	22.5	90.3	92.3	157.7	215.0	105.0
39	JH 31605	83.3	79.8	18.5	89.7	90.7	157.7	238.3	110.0
40	EH-2381	83.3	79.5	17.5	90.7	92.3	156.7	233.3	138.3
41	ZMH-999	81.9	78.0	17.5	89.7	92.0	157.3	185.0	80.0
42	UDMH-101	82.6	78.5	24.0	90.7	92.7	156.0	215.0	100.0
43	DMRH1308	81.9	79.0	18.5	90.7	92.7	159.0	218.3	120.0
44	PM 14106M	80.6	78.5	23.0	88.0	90.3	156.7	180.0	95.0
45	MMH 5-13	82.6	78.0	17.5	82.7	85.0	154.3	170.0	80.0
46	HKH344	82.6	79.0	17.5	84.7	86.7	155.7	160.0	65.0
47	DMRH1413	82.6	78.8	21.0	89.3	91.0	158.0	170.0	93.3
48	KDMH 100-8	81.9	80.0	22.5	90.7	92.3	157.7	180.0	100.0
49	JH 13054	81.3	78.8	22.5	88.0	90.7	154.3	218.3	100.0
50	IASH 11C022	81.9	79.8	16.5	86.7	88.0	157.7	201.7	110.0
51	HT 51412373	83.3	79.8	24.0	91.3	93.7	159.0	170.0	100.0
52	CMH11-619	83.3	79.5	21.5	90.3	92.3	157.7	205.0	95.0
53	DH1411	82.6	78.0	16.5	89.0	92.3	157.3	190.0	71.7
54	UDMH-114	81.9	78.5	21.0	91.7	93.3	158.3	208.3	105.0
55	PM 14108M	82.6	80.0	23.0	91.7	93.7	160.0	201.7	100.0
56	DH1401	83.3	79.3	23.0	90.7	94.0	157.7	195.0	100.0
57	Proline 786	83.3	78.3	22.5	89.3	90.3	157.0	208.3	100.0
58	AWLH 1	83.3	78.8	20.5	90.7	93.0	158.3	218.3	100.0
59	DMRH1301	81.9	79.0	21.5	90.3	92.3	157.0	195.0	118.3
60	QMH-1034	81.9	78.8	17.5	89.7	91.7	156.3	180.0	80.0
61	DMRH1418	82.6	80.0	21.0	91.7	93.7	156.0	180.0	85.0
62	CP.201	82.6	78.3	20.5	91.7	93.7	157.0	218.3	100.0
63	EH-2380	81.3	78.8	23.0	92.0	93.7	154.7	195.0	90.0
64	MMHQPM-6-12-13-Filler	83.3	78.8	21.5	91.7	93.7	157.0	208.3	103.3
65	BH 412066	83.3	78.3	23.5	90.3	92.3	157.0	208.3	100.0
66	BH 412062	82.6	77.8	23.5	89.7	92.0	158.0	180.0	90.0
67	IAHM 2013-9	81.9	78.8	24.0	90.0	92.0	158.0	170.0	100.0
68	JH 31607	82.6	79.0	21.5	91.7	93.7	157.7	160.0	71.7
69	DH1415	82.6	79.0	22.5	89.7	91.7	159.7	155.0	60.0
70	TMMH 801	83.3	79.3	20.5	88.0	90.0	158.3	190.0	90.0
71	GPS 01	82.6	78.8	20.0	89.7	92.0	155.3	170.0	61.7
72	DMRM1402	83.3	79.0	16.5	88.3	90.3	156.0	180.0	71.7

Table No. 29 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
73	DH1429	81.3	79.5	23.0	92.7	93.3	156.3	180.0	75.0
74	IAHM 2013-33	83.3	79.0	15.0	92.3	93.7	156.0	160.0	80.0
75	AH-1323	83.3	78.5	22.5	92.3	93.7	157.3	180.0	75.0
76	DAS-MH-306	81.9	79.0	22.5	91.0	93.0	157.0	190.0	80.0
77	IAHM 2013-97	81.3	78.5	17.5	89.7	91.7	156.0	200.0	108.3
78	QMH-1025	82.6	78.5	17.5	89.3	91.3	156.7	181.7	80.0
79	RMH 796	82.6	78.8	21.5	90.3	92.3	155.7	228.3	146.7
80	KMH-4811	83.3	79.3	22.5	90.3	92.3	156.3	190.0	83.3
81	BH 412065	83.3	79.5	21.5	91.7	93.7	157.0	228.3	128.3
82	JH 13142	82.6	78.0	22.0	88.7	90.3	156.7	200.0	90.0
83	IAHM 2013-26	82.6	80.0	22.5	84.3	86.3	157.7	205.0	100.0
84	AH-1322	83.3	79.0	18.5	85.0	87.7	154.7	170.0	75.0
85	JH 13164	82.6	78.8	17.5	86.0	88.0	155.0	183.3	76.7
86	HT 51412182	82.6	78.3	21.0	91.0	93.0	158.3	195.0	80.0
87	SHIATS MS2	83.3	79.0	16.5	90.3	92.3	152.7	150.0	65.0
88	KMH12-25	83.3	78.8	23.0	91.3	93.3	157.7	203.3	95.0
89	BH 412064	82.6	79.0	24.0	91.3	93.3	152.7	185.0	80.0
90	GPS 05	81.9	78.8	19.5	92.3	94.3	157.3	200.0	80.0
91	JH 13226	83.3	79.3	18.5	92.0	94.0	154.7	170.0	60.0
92	LMH 414	81.9	80.0	16.5	91.0	92.3	156.0	150.0	73.3
93	CMH11-593	83.3	78.3	21.0	89.3	91.3	153.3	175.0	80.0
94	JH 13204	82.6	80.0	18.5	92.3	94.3	156.0	180.0	90.0
95	NMH-3662	83.3	79.0	17.5	92.3	94.3	156.0	175.0	60.0
96	DMRH1410	83.3	78.8	23.0	92.3	94.3	158.0	180.0	90.0
97	EH-2235	82.6	78.8	23.0	92.3	92.0	157.3	190.0	90.0
98	CMH11-586	82.6	80.0	24.0	85.0	89.7	154.7	190.0	75.0
99	DMRH1416	81.3	79.0	24.5	91.3	93.0	158.3	203.3	108.3
100	REH2013-1	81.9	78.3	17.5	91.7	90.0	156.3	170.0	65.0
101	JH 13122	83.3	78.8	23.0	83.7	88.7	155.3	190.0	98.3
102	NMH-3612	82.6	77.8	20.5	92.3	94.0	155.0	203.3	100.0
103	DH1413	83.3	78.3	17.5	91.7	94.0	154.7	165.0	85.0
104	GK-3120	82.6	78.8	18.5	92.3	93.3	153.3	200.0	115.0
105	DMRH1302	82.6	78.0	21.0	88.0	91.7	156.0	191.7	100.0
106	DMRH- 12-110	82.6	79.8	20.5	93.3	95.7	159.0	208.3	103.3
107	JH 13224	81.9	79.0	17.5	93.7	95.7	157.3	200.0	71.7
108	JH 13215	83.3	78.3	23.0	93.7	95.7	158.0	180.0	90.0

Table No. 29 (Cont..)

S.No.	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
109	HT 51412616	81.9	79.0	21.5	94.0	95.0	159.0	180.0	93.3
110	JKMH 4848	83.3	78.8	24.0	90.7	93.7	159.0	170.0	60.0
111	SMH-3901	82.6	79.0	18.5	93.7	95.7	158.3	190.0	95.0
112	BH 412120	82.6	78.8	18.5	93.7	95.3	159.3	160.0	51.7
113	VEH 14-2	81.9	78.8	17.5	93.3	95.3	158.7	160.0	65.0
114	LMH 114	83.3	78.3	23.0	93.7	93.0	158.7	191.7	110.0
115	JH 13246	83.3	79.0	22.5	87.7	91.0	157.7	180.0	93.3
116	KF-105	81.9	79.0	23.5	91.3	93.7	158.3	180.0	93.3
117	IN 8401	82.6	79.0	17.5	93.7	94.7	158.7	170.0	83.3
118	MMH 4-13	80.6	79.0	16.5	93.7	95.7	155.7	170.0	70.0
119	AWLH 2	81.9	80.0	21.0	93.3	93.0	159.0	151.7	85.0
120	Bio 719	81.9	79.0	25.0	85.7	93.0	158.0	185.0	80.0
121	DMRH1417	82.6	78.8	23.0	93.0	91.7	159.0	160.0	80.0
122	HKH343	82.6	79.3	20.5	85.3	89.3	158.0	175.0	60.0
123	JH 13121	81.9	78.8	21.0	90.3	91.3	158.0	160.0	80.0
124	TI 8261	83.3	79.8	20.5	89.7	91.0	159.7	180.0	71.7
125	CMH11-615	81.9	78.3	21.0	83.3	85.0	154.7	180.0	93.3
126	REH2013-3	83.3	80.0	20.5	84.0	85.7	156.3	141.7	55.0
	CHECKS								
127	PMH 4 (C)	81.3	80.0	16.5	90.0	91.7	155.3	150.0	60.0
128	HM9(C)	81.9	78.8	16.5	91.7	92.7	153.0	180.0	73.3
129	HM10(C)	83.3	79.0	17.5	89.7	91.0	153.0	175.0	70.0
130	Bio -9637(C)	83.3	78.8	21.0	90.7	91.7	157.0	186.7	100.0
	Loc. Mean	**82.6**	**79.0**	**20.5**	**89.8**	**91.7**	**156.7**	**188.1**	**88.3**
	C.D. (5%)	1.91	0.26	0.41	2.21	3.09	3.79	3.20	2.29
	C.V. (%)	1.44	0.20	1.25	1.53	2.09	1.51	1.06	1.61
	F (Prob)	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 30 **PERFORMANCE OFEARLY MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2015 KHARIF AT SRINAGAR IN IVT TRIAL No. 63 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE NHZ SRIN	R	GRAIN YIELD % SUPERIORITY OVER THE Prakash SRIN	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN
1	GWH-0330	7317	8	19	82.6	78.3	17.0
2	DAS-MH-502	7311	9	19	83.3	79.0	20.5
3	AH-1319	7404	4	20	82.6	79.3	16.5
4	FH 3695	7413	3	20	82.6	78.3	18.0
5	SAMH-221	7501	1	22	81.9	78.0	16.5
6	PM 14109E	7116	12	15	81.9	79.0	15.5
7	DMRE1403	7359	5	19	82.6	78.3	17.5
8	AH 9001	7355	6	19	82.6	79.0	16.5
9	CMH12-675	7418	2	20	81.9	78.8	15.5
10	CMH12-697	7317	7	19	81.9	78.3	15.5
11	LMH 614	7158	11	16	82.6	77.8	16.5
12	AH-1320	7116	13	15	81.9	78.8	16.5
13	KMH12-18	7111	14	15	81.9	79.3	15.5
14	AH 5021	6612	19	7	82.6	77.8	18.0
15	EH-2244	7162	10	16	81.3	78.8	19.0
16	CMH10-552	6562	21	6	82.6	78.8	15.0
17	HKH346	6298	27	2	82.6	79.0	15.5
18	GYH-0656	6081	36	-	81.9	79.8	15.5
19	EH-2371	6230	30	1	82.6	79.3	17.0
20	CMH10-527	6350	25	3	81.3	80.0	15.5
21	AH-1321	6068	37	-	82.6	78.8	16.5
22	FH 3704	6311	26	2	81.9	79.3	17.0
23	KMH12-8	5871	43	-	81.9	78.8	17.0
24	AH 7002	5935	41	-	83.3	79.0	17.5
25	BH 412071	5892	42	-	82.6	77.8	20.0
26	LMH 514	6105	35	-	81.9	77.3	21.0
27	CMH12-691	6160	32	-	81.9	79.3	19.0
28	PM 14110E	6020	38	-	81.3	78.8	21.0
29	DH 283	6543	22	6	82.6	79.0	15.5
30	OMH 11-1	6287	28	2	82.6	78.3	18.0
31	AH-1318	6358	24	3	79.9	79.0	16.5

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE NHZ SRIN	R	GRAIN YIELD % SUPERIORITY OVER THE Prakash SRIN	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN
32	KF-95	6005	39	-	81.9	78.8	15.5
33	GWH-0503	5944	40	-	82.6	80.0	15.0
34	HKH347	6250	29	1	81.3	79.0	16.5
35	K-26	6586	20	7	81.9	77.8	18.0
36	JKMH 4025	6816	16	10	81.9	79.3	16.0
37	FH 3703	6495	23	5	83.3	78.3	19.0
38	KDMH 100-1	6137	34	-	83.3	79.8	15.5
39	KMH12-9	5518	46	-	81.9	78.8	17.5
40	BH 412055	6930	15	12	80.6	80.0	16.5
41	GYH-0461	6693	18	8	82.6	79.0	18.0
42	DH 286	6793	17	10	81.3	78.0	18.0
43	HKH345	6153	33	-	80.6	78.0	18.5
44	AH 7001	5846	44	-	83.3	79.8	16.5
45	BH 412093	5558	45	-	82.6	78.8	16.5
46	DH 290	5496	47	-	82.6	79.0	16.5
	CHECKS						
47	Prakash (C)	6170	31	-	81.9	80.0	15.5
	Location Mean	**6535**			**82.2**	**78.8**	**17.0**
	C.D. (5%)	354			2.59	0.20	0.47
	C.V. (%)	3.34			1.94	0.15	1.70
	F (Prob)	0			0.93	0.00	0.00
	Plot Size	4.8					
	AGRONOMY DATA						
	Sowing Date	30-04					
	Harvest Date	20-09					
	Irrigation Nos	2					
	Ferilizer Applied N	120					
	Ferilizer Applied P	80					
	Ferilizer Applied K	60					

Table No. 30 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	GWH-0330	84.0	86.7	143.0	231.7	138.3
2	DAS-MH-502	80.0	83.0	132.3	200.0	95.0
3	AH-1319	78.7	81.0	137.7	198.3	73.3
4	FH 3695	82.3	84.7	141.0	238.3	168.3
5	SAMH-221	82.0	84.0	138.0	241.7	140.0
6	PM 14109E	82.0	84.3	132.0	241.7	165.0
7	DMRE1403	80.3	83.0	133.0	178.3	96.7
8	AH 9001	78.7	81.7	133.0	210.0	96.7
9	CMH12-675	82.0	85.7	133.0	170.0	88.3
10	CMH12-697	81.3	83.7	135.0	176.7	85.0
11	LMH 614	81.0	83.3	136.0	180.0	91.7
12	AH-1320	81.7	84.7	134.3	173.3	81.7
13	KMH12-18	80.0	82.7	131.3	211.7	86.7
14	AH 5021	84.7	87.7	129.7	241.7	128.3
15	EH-2244	83.0	86.0	133.0	211.7	105.0
16	CMH10-552	82.0	84.7	131.0	190.0	86.7
17	HKH346	83.3	86.0	123.7	180.0	73.3
18	GYH-0656	83.0	85.0	131.7	155.0	81.7
19	EH-2371	83.0	85.7	133.0	183.3	81.7
20	CMH10-527	82.3	85.0	129.3	201.7	71.7
21	AH-1321	80.7	83.0	124.3	231.7	125.0
22	FH 3704	84.3	86.7	131.7	233.3	153.3
23	KMH12-8	82.3	85.0	129.7	185.0	105.0
24	AH 7002	82.0	84.3	130.0	210.0	133.3
25	BH 412071	82.3	84.7	141.0	225.0	130.0
26	LMH 514	81.7	84.3	135.3	203.3	116.7
27	CMH12-691	83.0	85.3	137.3	251.7	145.0
28	PM 14110E	81.3	84.0	135.0	201.7	100.0
29	DH 283	79.3	82.7	136.7	193.3	80.0
30	OMH 11-1	83.7	86.0	136.7	205.0	95.0
31	AH-1318	81.0	83.3	130.0	231.7	140.0
32	KF-95	84.3	87.0	129.3	195.0	86.7
33	GWH-0503	80.0	83.3	129.3	150.0	48.3
34	HKH347	78.3	81.0	136.7	140.0	40.0

Table No. 30 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
35	K-26	81.3	83.7	132.0	160.0	83.3
36	JKMH 4025	84.0	87.3	128.3	168.3	71.7
37	FH 3703	81.3	84.0	131.0	160.0	58.3
38	KDMH 100-1	79.3	82.3	129.3	165.0	76.7
39	KMH12-9	80.0	82.7	130.0	155.0	65.0
40	BH 412055	83.3	86.3	130.0	178.3	100.0
41	GYH-0461	84.3	87.3	133.0	206.7	113.3
42	DH 286	80.0	82.3	137.0	211.7	100.0
43	HKH345	77.7	80.3	140.7	241.7	148.3
44	AH 7001	78.0	80.7	131.7	255.0	150.0
45	BH 412093	81.7	84.3	130.7	251.7	133.3
46	DH 290	84.3	87.0	132.7	161.7	85.0
	CHECKS					
47	Prakash (C)	80.0	82.7	130.3	170.0	90.0
	Loc. Mean	**81.6**	**84.3**	**133.0**	**199.1**	**102.3**
	C.D. (5%)	5.98	6.07	4.07	12.56	8.12
	C.V. (%)	4.52	4.44	1.89	3.89	4.89
	F (Prob)	0.85	0.86	0.00	0.00	0.00

TABLE No. 31 **PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2015 KHARIF AT SRINAGAR IN IVT TRIAL No. 64 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE NHZ SRIN	R	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21 SRIN	Vivek Hybrid-43(C) SRIN	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN
1	DH 288	5333	10	-	-	82.6	79.3	15.5
2	EH-2234	5816	3	5	-	82.6	78.3	16.5
3	DH 285	5648	5	2	-	82.6	78.8	15.5
4	AH-1316	5351	9	-	-	82.6	78.3	17.5
5	AH-1317	5310	11	-	-	82.6	79.3	15.0
6	APH 27	5896	2	7	-	82.6	78.3	16.5
7	FH 3706	5543	6	1	-	83.3	78.8	15.5
8	DH 289	5253	12	-	-	79.9	78.8	17.5
9	DH 287	5372	8	-	-	82.6	78.3	15.5
10	EH-2236	5810	4	5	-	81.9	77.5	18.0
11	DH 277	5147	13	-	-	83.3	79.3	18.0
	CHECKS							
12	Vivek Hybrid-21 (C)	5513	7	-	-	82.6	77.5	17.0
13	Vivek Hybrid-43(C)	6174	1	12	-	81.9	77.8	15.5
	Location Mean	**5551**				**82.4**	**78.4**	**16.4**
	C.D. (5%)	467				2.15	0.47	0.47
	C.V. (%)	4.98				1.55	0.36	1.69
	F (Prob)	0.003				0.24	0.00	0.00
	Plot Size	4.8						
	AGRONOMY DATA							
	Sowing Date	30-04						
	Harvest Date	20-09						
	Irrigation Nos	2						
	Ferilizer Applied N	120						
	Ferilizer Applied P	80						
	Ferilizer Applied K	60						

Table No. 31 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	DH 288	75.3	78.0	120.7	190.0	101.7
2	EH-2234	74.3	76.7	119.0	195.0	85.0
3	DH 285	74.7	77.3	118.7	175.0	90.0
4	AH-1316	76.0	78.7	121.0	201.7	96.7
5	AH-1317	72.3	75.7	119.7	170.0	75.0
6	APH 27	75.7	77.7	122.3	180.0	76.7
7	FH 3706	74.7	77.0	121.3	200.0	96.7
8	DH 289	77.3	79.3	120.7	165.0	51.7
9	DH 287	77.3	79.3	122.0	190.0	90.0
10	EH-2236	77.0	79.3	122.0	216.7	106.7
11	DH 277	76.3	79.0	127.7	180.0	80.0
	CHECKS					
12	Vivek Hybrid-21 (C)	75.7	78.0	122.3	165.0	70.0
13	Vivek Hybrid-43(C)	74.7	77.3	125.3	140.0	43.3
	Loc. Mean	**75.5**	**77.9**	**121.7**	**182.2**	**81.8**
	C.D. (5%)	0.96	1.16	1.55	2.97	4.58
	C.V. (%)	0.75	0.88	0.75	0.97	3.32
	F (Prob)	0.00	0.00	0.00	0.00	0.00

TABLE No. 32 **PERFORMANCE OFMEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2015 KHARIF AT SRINAGAR IN AVT 1 TRIAL No. 66 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE PMH 4 (C) SRIN	HM9(C) SRIN	HM10(C) SRIN	Bio -9637(C) SRIN
1	LG 32.82	6604	5	-	-	5	-
2	Seed tech 2324-F	6418	6	-	-	2	-
3	Bio -9637-F	6876	4	-	-	9	-
	CHECKS						
4	PMH 4 (C)	7132	3	-	-	13	-
5	HM9(C)	7259	1	2	-	15	1
6	HM10(C)	6317	7	-	-	-	-
7	Bio -9637(C)	7203	2	1	-	14	-
	Location Mean	**6830**					
	C.D. (5%)	1000					
	C.V. (%)	456					
	F (Prob)	3.72					
	Plot Size	0.001					
	AGRONOMY DATA	9.6					
	Sowing Date	30-04					
	Harvest Date	20-09					
	Irrigation Nos	2					
	Ferilizer Applied N	120					
	Ferilizer Applied P	80					
	Ferilizer Applied K	60					

S.No	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	LG 32.82	83.0	78.8	15.5	87.3	89.7	136.7	215.0	90.0
2	Seed tech 2324-F	82.6	79.3	21.0	85.0	87.3	137.7	215.0	126.7
3	Bio -9637-F	82.3	78.8	22.0	87.7	89.7	133.0	213.3	98.3
	CHECKS								
4	PMH 4 (C)	82.6	79.0	15.5	84.7	87.3	134.7	180.0	71.7
5	HM9(C)	83.3	78.8	17.0	89.3	91.7	133.0	195.0	80.0
6	HM10(C)	83.0	79.3	18.0	86.0	88.3	133.0	218.3	100.0
7	Bio -9637(C)	83.3	78.8	19.0	83.7	86.0	135.0	215.0	103.3
	Loc. Mean	**82.9**	**78.9**	**18.3**	**86.2**	**88.6**	**134.7**	**207.4**	**95.7**
	C.D. (5%)	1.32	0.17	0.43	0.74	1.20	0.73	5.01	4.19
	C.V. (%)	0.90	0.12	1.33	0.48	0.76	0.30	1.36	2.46
	F (Prob)	0.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 33 **PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2014 KHARIF AT SRINAGAR IN AVT 1 TRIAL No. 6771 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE Prakash (C) SRIN	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN
1	MEH 1-12-13	4666	6	-	82.9	78.0	27.5
2	JH-31610	6201	3	11	83.1	77.8	27.5
3	GWH 0712	6520	1	17	83.1	78.8	17.5
4	AH 1261	6418	2	15	83.3	78.3	20.0
5	Bio 9720	4158	12	-	82.6	78.3	24.5
6	FH 3669	5590	5	-	82.4	77.3	24.5
7	FH 3664	4003	13	-	82.9	78.0	25.5
8	LG 31.81	4465	8	-	83.3	77.5	22.5
9	DMH-63	4223	10	-	83.1	78.3	21.5
10	EH-2212	4258	9	-	82.9	77.0	23.5
11	FH 3605	4525	7	-	82.9	77.0	22.5
12	FH 3626	4214	11	-	82.9	78.3	24.5
	CHECKS						
13	Prakash (C)	5596	4	-	82.6	77.3	27.5
	Location Mean	**4988**			**82.9**	**77.8**	**23.8**
	C.D. (5%)	110			0.88	0.21	0.23
	C.V. (%)	1.31			0.63	0.16	0.58
	F (Prob)	0			0.65	0.00	0.00
	Plot Size	14.4					
	AGRONOMY DATA						
	Sowing Date	30-04					
	Harvest Date	20-09					
	Irrigation Nos	2					
	Ferilizer Applied N	120					
	Ferilizer Applied P	80					
	Ferilizer Applied K	60					

Table No. 33 (Cont..)

S.No.	PEDIGREE	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	MEH 1-12-13	75.7	78.3	124.3	225.0	128.3
2	JH-31610	83.7	86.0	135.3	245.0	145.0
3	GWH 0712	82.0	84.3	131.3	245.0	155.0
4	AH 1261	81.0	83.3	132.7	205.0	91.7
5	Bio 9720	82.7	84.7	133.7	208.3	85.0
6	FH 3669	76.0	78.3	128.3	208.3	118.3
7	FH 3664	78.7	80.7	134.0	218.3	125.0
8	LG 31.81	82.7	84.7	132.0	213.3	120.0
9	DMH-63	76.0	79.0	130.3	208.3	101.7
10	EH-2212	78.7	80.7	133.0	201.7	108.3
11	FH 3605	82.7	84.7	128.3	160.0	71.7
12	FH 3626	76.0	79.0	130.3	195.0	100.0
	CHECKS					
13	Prakash (C)	81.0	83.0	130.0	186.7	110.0
	Loc. Mean	**79.7**	**82.1**	**131.1**	**209.2**	**112.3**
	C.D. (5%)	0.78	0.99	0.73	4.93	4.05
	C.V. (%)	0.58	0.71	0.33	1.40	2.14
	F (Prob)	0.00	0.00	0.00	0.00	0.00

TABLE No. 34 **PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2014 KHARIF EXPERIMENT AND PLANTED IN 2015 KHARIF AT SRINAGAR IN AVT 1 TRIAL No. 68 DURING KHARIF (2014)**

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE SRIN	NHZ R	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-21(C) SRIN	Vivek Hybrid-43(C) SRIN	Vivek QPM 9(C) SRIN
1	APQH 9	4930	4	-	-	-
2	Bio 9681-F	4565	6	-	-	-
3	PMH1-F	4266	7	-	-	-
4	PMH3-F	4755	5	-	-	-
	CHECKS					
5	Vivek Hybrid-21 (C)	5148	3	-	-	-
6	Vivek Hybrid-43(C)	5355	2	4	-	-
7	Vivek QPM 9-C	5672	1	10	6	-
	Location Mean	**4956**				
	C.D. (5%)	281				
	C.V. (%)	3.16				
	F (Prob)	0				
	Plot Size	9.6				
	AGRONOMY DATA					
	Sowing Date	30-04				
	Harvest Date	20-09				
	Irrigation Nos	2				
	Ferilizer Applied N	120				
	Ferilizer Applied P	80				
	Ferilizer Applied K	60				

S.No	PEDIGREE	STAND AT HARVEST ('000/ha) SRIN	GRAIN SHELLING % SRIN	MOISTURE % AT HARVEST SRIN	DAYS TO 50% POLLEN SHED SRIN	DAYS TO 50% SILKING SRIN	DAYS TO 75% DRY HUSK SRIN	PLANT HEIGHT(cm) SRIN	EAR HEIGHT(cm) SRIN
1	APQH 9	82.3	76.8	15.0	72.0	74.3	118.3	175.0	86.7
2	Bio 9681-F	82.3	76.0	20.5	77.0	79.3	127.7	201.7	76.7
3	PMH1-F	82.6	77.3	25.5	80.0	82.0	129.7	226.7	111.7
4	PMH3-F	82.6	77.8	25.5	77.7	79.7	129.7	231.7	131.7
	CHECKS								
5	Vivek Hybrid-21 (C)	82.6	77.8	17.5	73.0	75.3	124.0	181.7	90.0
6	Vivek Hybrid-43(C)	82.3	78.8	16.5	77.0	79.0	129.0	170.0	68.3
7	Vivek QPM 9-C	83.0	77.8	15.5	72.7	75.7	116.7	180.0	81.7
	Loc. Mean	**82.5**	**77.4**	**19.4**	**75.6**	**77.9**	**125.0**	**195.2**	**92.4**
	C.D. (5%)	1.51	0.17	0.34	1.24	1.30	0.65	2.75	5.26
	C.V. (%)	1.03	0.12	0.97	0.92	0.94	0.29	0.79	3.20
	F (Prob)	0.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00

BREEDER SEED PRODUCTION

Breeder Seed Production
BSP-IV

1. Year of production: 2014 Kharif, 2014-15 Rabi , and spring 2015, Year of indent: 2015-

A total of 44.66q of breeders' seed of maize hybrids and OPVs was indented by Department of Agriculture cooperation and Farmers' welfare, GOI and allocated to the 13 AICRP centres. 17 OPVs and 16 hybrids were included in the breeder seed programme. The production was taken up in Kharif 2014, Rabi 2014-15 and spring 2015, respectively. A total of 68.01q breeders' seed was produced by the centres. During Kharif 2014, 27.68 q breeders' seed was produced whereas, 40.33q of breeder seed was produced in Rabi 2014-15 and spring 2015, respectively. Given below (Table 1) is the overall BSP-4 report for the year 2014-15

Table 1: Centre-wise breeder seed production of parental lines of maize hybrids and OPVs in 2014-15

		Indent of Breeder Seed for Kharif -2015						
		Production year 2014/14-15						
S. No.	Name of producing state/ centre	Variety Name	Year of notifica -tion	DAC Indent	Total Allotment as per BSP-1 (Q)	Production (Q) As per BSP-4	Surplus/ Deficit	Remarks
I	Bihar							
1	Tirhut College of Agriculture Dholi	Shaktiman-4 (F) CML 161	2006	0.40	0.40	4.40	(+) 4.00	Surplus
2		Shaktiman-4 (M) CML 169		0.10	0.10	1.10	(+) 1.00	Surplus
3		Shaktiman-2 (F) CML 176	2004	1.60	1.60	2.00	(+) 0.40	Surplus
4		Shaktiman-2 (M) CML 169		0.40	0.40	1.00	(+) 0.60	Surplus
II	Delhi							
5	IARI Delhi	Pusa Extra Early Hybrid Makka -5 (AH-421) (F) CM 150	2004	1.64	1.64			No production
6		Pusa Extra Early Hybrid Makka -5 (AH-421) (F) CM 151 (M)		0.51	0.51			No production
7		PEHM-2 (F) CM 137		0.04	0.04	0.04		
8		PEHM-2 (M) CM 138		0.01	0.01	0.01		
9		Pusa Composite-3 (Composite-85134)	2005	2.08	2.08	3.00	(+) 0.92	Surplus
10		Pusa Composite-4(Composite-8551)	2005	0.33	0.33	1.00	(+) 0.67	Surplus
III	Gujarat							
11	AAU Godhara	Narmada Moti (IC-9001)	2002	0.50	0.50	0.50		
IV	Haryana							
12	CCHAU Karnal	HQPM-4 (F) HKI 193-2	2010	4.00	4.00	1.85	(-) 2.15	Deficit
13		HQPM-4 (M) HKI 161		1.00	1.00	1.00		
14		HM-10 (HKH-1200)(HKI 1128 (M))	2008	0.20	0.20	0.42	(+) 0.22	Surplus
15		HM-10 (HKH-1200)(HKI 193-2 (F))	2008	0.40	0.40			Failed
16		HQPM-7 (HKI 161 (M)	2008	0.20	0.20	0.12	(-) 0.08	Deficit
17		HQPM-7 (HKI 193-1 (F))	2008	0.80	0.80			Failed
18		HQPM-5 (F) HKI 163	2007	1.20	1.20	1.20		
19		HQPM-5 (M) HKI 161		0.30	0.30			Failed
20		HM-8-(F) HKI 1105	2007	0.15	0.15	0.10	(-) 0.05	Deficit
21		HM-8-Male HKI 161	2007	0.05	0.05			Failed
22		HQPM-1-Female HKI 193-1	2007	5.20	5.20			Failed

23		HQPM-1-Male HKI 163	2007	2.40	2.40	2.40		
24		HQPM-5-Female HKI 163	2007	1.20	1.20	1.26	(+) 0.06	Surplus
25		HQPM-5-Male HKI 161	2007	0.40	0.40	0.50	(+) 0.10	Surplus
26		HM-4 (F) HKI 1105	2005	0.40	0.40	0.40		
27		HM-4 (M) HKI 323		0.10	0.10	0.15	(+) 0.05	Surplus
V	**Karnataka**							
28	**ZARS, Mandya**	NAC 6004	2001	2.00	2.00	1.50	(-) 0.5	Deficit
VI	**Madhya Pradesh**							
29	**JNKVV Chindwara**	Jawahar Makai -216 (JM-216)	2002	2.60	2.60	18.00	(+)15.40	Surplus
VIII	**Rajasthan**							
30	**MPUA & T Banswara**	Pratap Kanchan-2 WC-236(Y)	2009	1.05	1.05	0.90	(-) 0.15	Deficit
31	**MPUA & T Udaipur**	Pratap Hybrid Maize-1 –Female EI-116	2004	2.0	2.0			Not produced*
32		Pratap Hybrid Maize-1 –Male EI-364	2004	1.0	1.0			Not produced*
33		Pratap Makka-5 (EC-3116)	2006	2.6	2.6	10.00	(+) 7.4	Surplus
34		Pratap Makka-4	2004	0.6	0.6	2.00	(+) 1.4	Surplus
35		Pratap Makka-3 (EC-3108)	2005	4.0	4.0	4.50	(+) 0.5	Surplus
IX	**Punjab**							
36	**PAU Ludhiana**	Parkash(JH-3189) Female CM 139	1997	0.04	0.04	0.40		
37		Parkash (JH-3189)Male CM 140		0.01	0.01	0.50		
X	**Telangana**							
38	**ANGRAU Hyderabad**	Priya Sweetcorn	2002	0.01	0.01			Not produced***
XI	**Uttar Pradesh**							
39	**CSAU&T, Kanpur**	Azad Kamal (R 9803)	2005	0.20	0.20	0.20		
40		Azad Uttam (Composite R-2)		0.16	0.16			Production not taken up
41		Sharadmani	2008	0.06	0.06			Production not taken up
XII	**Uttarakhand**							
42	**VPKAS Almora**	Vivek Maize Hybrid-9 (FH-3077) (F) CM 214	2001	0.04	0.04	0.04		
43		Vivek Maize Hybrid-9 (FH-3077) (M) CM 145		0.01	0.01	0.01		
44		Vivek Sankul Makka-31(VL-103)	2008	0.19	0.19	3.25	(+) 3.06	Surplus
45	**G.B.Pant Agriculture university Pant nagar** **	Ganga Safed-2 CM-400	1969	1.20	1.20	2.00	(+) 0.8	Surplus
46		Ganga Safed-2 CM-300		0.60	0.60	0.65	(+) 0.05	Surplus
47		Ganga Safed-2 CM-600		0.40	0.40	0.70	(+) 0.30	Surplus
48		Pant Sankul Makka-3 (D131)	2008	0.06	0.06	0.06		
49		Amar (D-941)	2001	0.06	0.06	1.00	(+) 0.04	Surplus
50		Gaurav (D-931)	1999	0.16	0.16	0.50	(+) 0.34	Surplus
		Total		**44.66**	**44.66**	**68.01**		

*The seed of inbred lines EI-116 & EI-364 was produced during 2013-14 as per Breeder Seed Indent, but indented agency RSSCLdid not lift seed as the hybrid Pratap 1 is 10 years old

2. BSP-4 for the year 2015-16 (production in 2015 / 2015-16), Year of indent: 2016; Year of production: 2015 Kharif

A total of 65.96q breeders' seed was produced as against the Department of Agriculture, cooperation and Farmers' welfare indent of 103.91q.Eleven OPVs and 25 parental lines of 16 hybrids were indented and allotted to 15 AICRP (Maize) centres for production in Kharif 2015/2015-16.During Kharif 2015, breeder seed in respect of 18 parental lines of 11 hybrids and 4 OPVs was produced. Breeder seed in respect of 16 parental lines of 8 hybrids is being produced during Rabi 2015-16. Table 2 summarizes the centre-wise Kharif 2015 production status.

Table2: centre-wise breeders' seed production of parental lines of maize hybrids and OPVs

S. No	Parental Lines/ OPVs	Year of notifica-tion	DAC Indent	Indent-Allocation BSP1	Actual production BSP-4	Surplus/ deficit	Remarks
I	**MPUAT Udaipur**						
1	Pratap QPM H-1 (HKI193-1)	2013	7.08	7.08			Indent withdrawn
	Pratap QPM H-1 (DMRQPM-106)		14.20	14.20			Indent withdrawn
2	Pratap Hybrid-3 (M)	-	3.00	3.00	3.00		Hybrid not notified
	Pratap Hybrid-3 (F)		6.00	6.00	6.00		Hybrid not notified
II	**CCSHAU Karnal**						
3	HQPM-4 (F) HKI193-2	2010	4.00	4.00	-	-	Rabi 2015-16
	HQPM-4 (M) HKI161		2.00	2.00	-	-	Rabi 2015-16
4	HM-10 (HKH-1200) Female Line HKI193-2	2008	0.22	0.22	-	-	Rabi 2015-16
	HM-10 (HKH-1200) Male Line HKI 1128		0.08	0.08	0.15	(+) 0.07	Surplus
5	HQPM-7 (HKI 161 (Male))	2008	0.12	0.12	-	-	Rabi 2015-16
	HQPM-7 (HKI 193-1 (Female))		0.34	0.34	0.25	(-) 0.09	Deficit, Rabi 2015-16
6	HQPM-5 (F) HKI163	2007	0.45	0.45	0.30	(-) 0.15	Deficit, Rabi 2015-16
	HQPM-5 (M) HKI161		0.15	0.15	-	-	Rabi 2015-16
7	HQPM-1-Female HKI193-1	2007	1.30	1.30	-	-	Rabi 2015-16
	HQPM-1-Male HKI 163		0.40	0.40	-	-	Rabi 2015-16
III	**VPKAS Almora**						
8	Vivek Maize Hybrid-17 (FH-3186) female Line CM153	2005	0.07	0.07	0.07		Carry-over from 2013 Kharif with 90% germination
	Vivek Maize Hybrid-17 Male LINE CM 212		0.03	0.03	0.03		Carry-over from 2013 Kharif with 90% germination
IV	**IARI Delhi**						
9	Pusa Extra Early Hybrid Makka -5 (AH-421)(F)	2004	0.16	0.16	0.16		

S. No	Parental Lines/ OPVs	Year of notifica-tion	DAC Indent	Indent-Allocation BSP1	Actual production BSP-4	Surplus/ deficit	Remarks
	CM150						
	Pusa Extra Early Hybrid Makka -5 (AH-421)(M) CM151		0.08	0.08	0.08		
10	PEHM-2 (F) CM137		0.22	0.22	0.22		
	PEHM-2 (M) CM 138		0.11	0.11	0.11		
V	**RAU Dholi**						
11	Shaktiman-2 (F) CML176	2004	0.06	0.06	0.60	(+)	Surplus
	Shakhiman-2 (M) CML186		0.07	0.07	0.25	(+)	Surplus
VI	**ANGRAU Hyderabad**						
12	DHM-117 female-Line BML6	2010	6.12	6.12	3.00	(-) 3.12	Deficit, Rabi 2015-16
	DHM-117 male –Line BML7		3.06	3.06	1.0	(-) 2.06	Deficit, Rabi 2015-16
VII	**ANGRAU Karimnagar**						
13	DHM-121 (F) BML45	2014	0.05	0.05	0.10	(+) 0.05	Surplus
	DHM-121 (M) BML6		0.03	0.03	-	-	Rabi 2015-16
VIII	**MPKV Kolhapur**						
14	Rajashree female –Line GPM-456		0.10	0.10	4.50	(+) 4.40	Surplus
	Rajashree Male –Line GPM-342		0.05	0.05	3.00	(+) 2.95	Surplus
IX	**TNAU Coimbatore**						
15	COHM-8 (F) UMI 1201	2014	0.05	0.05			Rabi 2015-16
	COHM-8 (M) UMI1230		0.03	0.03			Rabi 2015-16
16	COHM-9 (F) UMI 1205	2014	0.05	0.05			Rabi 2015-16
	COHM-9 (M) UMI 1230		0.03	0.03			Rabi 2015-16
	TOTAL :		**49.71**	**49.71**	**22.82**		
	Variety (OPVs)						
I	**MPUAT Banswara**						
1	Pratap Kanchan-2 WC-236(Y)	2009	1.20	1.20	-	-	Rabi 2015-16
II	**MPUAT Udaipur**						
2	Pratap Makka-3		0.20	0.20	-	-	Rabi 2015-16
III	**GBPUAT Pant nagar**						
3	Pant Sankul Makka-3 (D131)	2008	0.20	0.20	1.74	(+)1.54	Surplus
IV	**VPKAS Almora**						
4	Vivek Sankul Makka-31(VL-103)	2008	0.60	0.60	1.20	(+) 0.60	Surplus
V	**CSUAT Kanpur**						
5	Azad Kamal (R 9803)	2005	0.20	0.20	0.20		
VI	**IARI Delhi**						
6	Pusa Composite-3 (Composite-85134)	2005	3.40	3.40			Rabi 2015-16
7	Pusa Composite-4(Composite-8551)	2005	0.40	0.40			Rabi 2015-16

S. No	Parental Lines/ OPVs	Year of notifica-tion	DAC Indent	Indent-Allocation BSP1	Actual production BSP-4	Surplus/ deficit	Remarks
VII	**JNKVV Chhindwara**						
8	Jawahar Makai -216 (JM-216)	2002	38.50	38.50	40.00	(+) 1.50	
VIII	**Gwalior**						
9	JVM-421		2.20	2.20			No report
IX	**UAS Mandya**						
10	NAC 6004	2001	7.00	7.00			Rabi 2015-16
X	**BAU Ranchi**						
11	Birsa Makkai-1	1996	0.30	0.30			Production taken up in kharif 2015 but Report awaited
	TOTAL :		**54.20**	**54.20**	**43.14**		
	Grand total				**65.96**		

AGRONOMY

Crop Production

Summary

The major agronomic research trial on maize based systems during kharif 2015 were focused on nutrient and planting density optimization for different maturity pre-released and notified maize hybrids, precision nutrient management, site specific nutrient management (SSNM) for maize hybrids and tillage practices, weed management in maize, and enhancing water-use efficiency in rainfed maize.

MAT-1: Evaluation of pre-release genotypes under varying planting density and nutrient levels

The pre-release early maturing genotypes were evaluated under different nutrient levels (150:50:60, 200:60:80 N:P_2O_5:K_2O kg/ha) in Northern Hill Zone (NHZ) (three), Peninsular Zone (PZ) (two) and Central Western Zone (CWZ) (three). At Almora (NHZ) FH-3626, FH-3605 and Bio-9720 genotypes yielded significantly higher than the best check (Parkash) at high nutrient levels and planting density (50x20 cm). In PZ (Dharwad and Karimnagar), FH-3664 and FH-3605 genotypes were found significantly superior than the best check (Parkash) at high nutrient levels and planting density (50x20 cm). At Udaipur (CWZ), FH-3664 genotype gave significantly higher yield over best check (PMH-5) at high nutrient levels and planting density (50x20 cm), however, at Godhra no genotype was found significantly superior.

The [DKC9144 (IM8478)] and HTMH-5402 pre-release medium maturing genotypes were evaluated under different nutrient levels (200:65:80 and 250:80:100 N:P_2O_5:K_2O kg/ha) in PZ at Karimnagar and were found significantly superior at lower nutrient levels and high planting density (50x20 cm) over the best check (HM-9).

Pre release late maturing genotypes were evaluated under different nutrient levels at Ludhiana [North West Plain Zone (NWPZ)] and Vagarai (PZ), genotype X35D601 yielded significantly higher over best check PMH-1 and Seedtech-2324, respectively at high nutrient levels (250:80:100 N:P_2O_5:K_2O kg/ha) and planting density (50x20 cm), while at Banswara (CWZ) DKC9141 (IM8539) genotype was found superior over best check (PMH-1) at high nutrient levels (250:80:100 N:P_2O_5:K_2O kg/ha) and planting density (50x20 cm).

The pre-release popcorn genotypes were evaluated under different nutrient levels (150:50:60, 200:60:80 N: P_2O_5: K_2O kg/ha) in NHZ (Almora and Bajaura), NWPZ (Ludhiana and Karnal), NEPZ (Ambikapur, Bahraich and Bhubneshwar), PZ (Hyderabad and Karimnagar)

and CWZ (Godhra). In NHZ (Almora and Bajaura), KDPC-2 (popcorn) genotype performed significantly superior over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In NWPZ (Ludhiana) maximum yield was recorded in KDPC-2 (popcorn) but found to be non-significant than the best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). However, at Karnal VL popcorn-2 genotype recorded significantly higher yield over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In North East Plain Zone (NEPZ) at Ambikapur at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm), KDPC-2 and at Bahraich at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and normal planting density (60x20 cm), VL popcorn-2 pre-released popcorn genotypes produced significantly higher yield over best check (VL popcorn). However, at Bhubaneswar (NEPZ), both VL popcorn-2 and KDPC-2 popcorn genotypes yielded significantly higher over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In PZ (Hyderabad and Karimnagar) KDPC-2 (popcorn) genotype yielded significantly superior over best check (VL popcorn) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In CWZ (Godhra), KDPC-2 yielded maximum but was found non-significant over the best check (VL popcorn) at lower nutrient levels (150:50:60 N: P_2O_5: K_2O kg/ha) and high planting density (50x20 cm).

The pre-release sweet corn genotypes were evaluated under different nutrient levels in NHZ (Almora and Bajaura), NWPZ (Delhi and Ludhiana), NEPZ (Ambikapur, Bahraich and Dholi), PZ (Hyderabad and Karimnagar) and CWZ (Godhra). In NHZ (at Almora) ADVSW-1, ADVSW-2 and FSCH-41 genotypes resulted in significantly higher yield over best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). However, at Bajaura, ADVSW-2 and FSCH-41 genotypes were produced significantly higher yield over best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm). In NWPZ at Delhi ADVSW-1 genotype was found significantly higher yielder over best check (Madhuri), while at Ludhiana (NWPZ) and in NEPZ (at Ambikapur, Bahraich and Dholi) no genotype performed significantly superior over best check. In PZ, at Hyderabad and Karimnagar, ADVSW-2 and ADVSW-1 gave significantly higher yield than the best check (Madhuri) at high nutrient levels (200:60:80 N: P_2O_5: K_2O

kg/ha) and planting density (50x20 cm). In CWZ (at Godhra), ADVSW-1 performed significantly superior than the best check (WOSC) at high nutrient levels (200:60:80 N: P_2O_5: K_2O kg/ha) and planting density (50x20 cm).

The pre-release QPM genotypes were evaluated with different nutrient levels (150:50:60 and 200:60:80 N: P_2O_5: K_2O kg/ha) in NHZ (Bajaura), (200:65:80 and 250:80:100 N: P_2O_5: K_2O kg/ha) in NWPZ (Ludhiana and Karnal) and in NEPZ (Ranchi) and (150:65:65, 200:80:80 and 250:95:95 N: P_2O_5: K_2O kg/ha) in PZ (Vagarai). In all the zones and locations no pre-release QPM genotype was found significantly higher yielder than the best check.

MAT-2: Nutrient management in maize-wheat-greengram cropping system under different tillage practices.

The experiments were conducted at five locations to find out effective precision nutrient management *viz*; SSNM and tillage practices for achieving the higher yield under intensified cropping system. Planting of maize under zero tillage resulted 3.3-42.8 % higher yield over conventional tillage system at Karnal, Pantnagar, Dholi and Banswara, respectively. However, the conventional tillage planting gave 9.6 % higher yield at Udaipur. Amongst nutrient management practices SSNM resulted in significantly higher yield at Banswara and Dholi, while farmers fertilization practices (FFP) resulted significantly higher yield at Karnal and RDF at Udaipur and Pantnagar.

MAT-4: Nutrient management in maize-chickpea/mustard cropping systems under different tillage practices.

The experiment was conducted at three locations (Srinagar, Delhi and Chhindwara) to find out effective SSNM and tillage practices for yield maximization in emerging cropping systems. Planting of maize under zero tillage resulted 6.52-19.3 % higher yields over conventional tillage system at Srinagar and Delhi. However, the method of conventional tillage planting gave higher yield at Chhindwara. Amongst nutrient management practices SSNM resulted in significantly higher yield at Srinagar and Chhindwara, while it remained higher with 100% RDF at Delhi.

MAT-5: Nutrient management for maize genotypes under different cropping systems.

The trial was conducted at thirteen locations under maize based systems to find out SSNM practices for yield maximization of maize hybrids. Among the nutrient management practices, SSNM based decision support system gave 42.0, 63.3, 3.6, 17.4, 20.5, 44.9, 51.0, 83.8, 1.8, 5.0, 32.5 and 50.2 % higher yield of maize over recommended fertilizer practices (RDF) at Bajaura,

Srinagar, Karnal, Ludhiana, Pantnagar, Ambikapur, Bahraich, Ranchi, Hyderabad, Karimnagar, Chhindwara, and Udaipur, respectively. However, RDF resulted better at Dharwad. Among the various maize hybrids tested, significantly higher yield was obtained with K-25 Gold at Bajaura, HQPM-1 at Srinagar and Dharwad, PHM-3 at Karnal, Karimnagar, Bahraich and Chhindwara, PMH-1 at Ludhiana and Pantnagar, NK-30 at Ambikapur, CMH-08-350 at Ranchi, CMH-08-292 at Hyderabad and Udaipur.

MAT-6: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season.

This experiment was conducted for maximum yield realization of popular maize hybrids through optimization of planting density and nutrient management at eighteen locations in different agro-ecologies of the country. The popular maize hybrids responded to high density at Bajaura (60x15 cm^2), Ludhiana (67.5x15 cm^2), Pantnagar (67.5x15 cm^2), Bhubneshwar (50x20 cm^2), Coimbatore (50x20 cm^2), Banswara (50x20 cm^2) and Udaipur (60x20 cm^2) centers and resulted yield enhancement by 9.4, 6.2, 13.8, 8.3, 15.4, 14.7 and 11.1% higher yield over normal density, respectively. The response to normal planting density observed at Srinagar, Karnal, Ambikapur, Bahraich, Dholi, Ranchi, Dharwad, Hyderabad, Karimnagar, Chhindwara and Godhra. Amongst various nutrient management practices SSNM resulted in significantly higher yield at Srinagar, Ludhiana, Ambikapur, Bahraich, Banswara and Chhindwara while Soil test crop response (STCR) was found significantly superior at Bajaura, Karnal, Pantnagar, Bhubaneswar, Dholi, Ranchi, Hyderabad, Karimnagar, Godhra and Udaipur, respectively. However RDF proved better at Coimbatore and Dharwad centers.

Mat 9: Long term trial on integrated nutrient management in maize- wheat cropping system.

To explore the possibilities of integrated nutrient management by inclusion of organic sources in maize production this long term experiment was initiated during *kharif* 2014 at Pantnagar. Significantly higher maize grain yield (5.65 t/ha) was obtained with 100% RDF + 5 t/ha FYM. However, 100% RDF was found at par with 100% RDF + 5 kg Zn/ha application which shows that the organic maize production can be possible in lower foothill of Himalayas. Economic analysis showed a new path for organic cultivation of maize and it was found that maize + cowpea as intercrop with FYM 10 t/ha + Azotobacter resulted in highest net returns and B:C ratio.

Mat 10: Weed management in maize systems.

The experiments were conducted at nineteen locations to find out the options of best weed management practices in maize based systems in different agro-climatic conditions during kharif 2015. At all the locations the treatments were T_1. Control (weedy check), T_2. Weed free, T_3. Atrazine @ 1.5* kg/ha preemegence, T_4. Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) preemegence, T_5. Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE, T_6. Halosulfuron 60 g/ha at 25 DAS, T_7. Atrazine @ 1.5 kg/ha preemegence fb Halosulfuron 60 g/ha 25 DAS, T_8. Tembotrione (Laudis) 120 g/ha PoE at 25 DAS, T_9. Pendemathalin (1000 ml/ha) preemegence fb Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE and T_{10}. Atrazine @ 1.5 kg/ha preemegence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS.

The result of study showed the two best weed management treatments were T_9 and T_{10} at Bajaura, Ludhiana, Pantnagar, Ambikapur, Kalyani, Ranchi, Coimbatore and Hyderabad T_7 and T_{10} at Srinagar and Bahraich; T_7 and T_9 at Karnal and Vagarai; T_{10} and T_3 at Bhubneshwar; T_3 and T_7 at Dholi; T_9 and T_5 at Dharwad; T_4 and T_7 at Karimnagar and Udaipur T_{10} and T_8 at Banswara and T_4 and T_3 at Chhindwara. Out of 19 centers the maximum yield was recorded under weed free (T_2) treatment at 16 centers, except at Bahraich, Bhubaneswar and Vagarai.

Mat 11: Enhancing water-use efficiency in rainfed maize.

The experiments were conducted at six locations to find practices for enhancing water-use efficiency in rainfed maize in different agro-climatic conditions during kharif 2015. The rainfed maize hybrids responded to zero tillage + mulch at Srinagar, Hisar, Dholi, Karimnagar and Chhindwara centers and resulted yield enhancement by 9.7, 111.1, 26.5, 2.2 and 18.1% higher yield over conventional tillage without mulch, respectively. While response to conventional tillage with mulch was observed at Bhubaneswar. Amongst various hydrogel treatments the application of hydrogel @5.0 (kg/ha) resulted yield increment by 3.0, 11.4, 13.2, 5.0, 0.4 and 5.3% at Srinagar, Hisar, Dholi, Karimnagar and Chhindwara centers, respectively over control.

Table 1: Performance of pre release early maturity genotypes in kharif under varying planting density and nutrient levels in Northern Hill Zone (NHZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
			Almora				
Normal (60x20 cm)	150:50:60	FH 3605	6463	7651	83.3	83.3	177.1
		FH 3626	6546	10510	83.3	83.3	208.1
		Bio 9720	6888	13556	83.3	83.3	220.6
		PMH-5-C	2062	5889	83.3	83.3	188.3
		Parkash-C	3859	6176	83.3	83.3	177.0
	200:60:80	FH 3605	8721	10942	83.3	83.3	185.4
		FH 3626	7370	11961	83.3	83.3	208.6
		Bio 9720	6829	14485	83.3	83.3	226.1
		PMH-5-C	3672	6437	83.3	83.3	196.6
		Parkash-C	7481	12800	83.3	88.5	189.5
High (50x20 cm)	150:50:60	FH 3605	5955	8349	100.0	100.0	180.5
		FH 3626	5895	11333	100.0	100.0	189.0
		Bio 9720	5316	13944	100.0	100.0	215.1
		PMH-5-C	1879	3280	100.0	100.0	182.2
		Parkash-C	5806	7306	100.0	100.0	185.6
	200:60:80	FH 3605	8375	10898	100.0	100.0	182.2
		FH 3626	9994	13953	100.0	100.0	207.9
		Bio 9720	9693	14831	100.0	100.0	231.4
		PMH-5-C	2636	6053	100.0	100.0	203.2
		Parkash-C	6632	10282	100.0	100.0	195.1
Mean of location			6103.6	10031.7	91.7	91.9	197.5
Normal (60x20 cm)			5989	10041	83.3	83.9	197.7
High (50x20 cm)			6218	10023	100.0	100.0	197.2
CD at 5%			NS	NS	0.0	1.1	NS
CV (%)			14.3	12.4	0.0	1.1	4.2
150:50:60			5067	8799	91.7	91.7	192.4
200:60:80			7140	11264	91.7	92.2	202.6
CD at 5%			650.1	1052.9	NS	NS	NS
CV (%)			14.9	14.6	0.0	1.1	8.8
FH 3605			7378	9460	91.7	91.7	181.3
FH 3626			7451	11939	91.7	91.7	203.4
Bio 9720			7181	14204	91.7	91.7	223.3
PMH-5-C			2562	5415	91.7	91.7	192.6
Parkash-C			5944	9141	91.7	93.0	186.8
CD at 5%			515.2	559.2	0.0	0.9	8.6
CV (%)			10.2	6.7	0.0	1.1	5.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Days to 50% tasseling	Days 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Turcicum Leaf Blight (1-5 scale score)
			Almora					
Normal (60x20 cm)	150:50:60	FH 3605	57.7	59.7	25.6	32027	0.60	1.3
		FH 3626	57.3	59.7	24.4	33125	0.62	1.3
		Bio 9720	61.0	63.7	19.8	37664	0.70	2.3
		PMH-5-C	58.3	60.3	16.3	-26286	-0.49	4.3
		Parkash-C	57.3	59.3	21.9	-2472	-0.05	2.7
	200:60:80	FH 3605	54.7	57.0	28.1	61945	1.16	1.0
		FH 3626	55.3	57.3	25.2	44051	0.82	1.3
		Bio 9720	60.0	62.0	21.9	36883	0.69	2.3
		PMH-5-C	54.7	57.0	18.3	-4948	-0.09	4.3
		Parkash-C	51.3	54.0	24.2	45013	0.83	2.7
High (50x20 cm)	150:50:60	FH 3605	59.0	61.0	24.4	20311	0.35	1.7
		FH 3626	58.0	60.0	21.2	19514	0.33	1.3
		Bio 9720	61.7	63.7	18.7	11835	0.20	2.7
		PMH-5-C	58.0	60.0	15.6	-33704	-0.58	4.7
		Parkash-C	57.0	59.0	20.6	18329	0.31	3.0
	200:60:80	FH 3605	56.7	58.7	27.1	52368	0.89	1.0
		FH 3626	52.3	55.3	26.2	73825	1.26	1.3
		Bio 9720	59.7	61.7	21.2	69830	1.19	2.7
		PMH-5-C	53.0	55.0	16.0	-23672	-0.40	4.3
		Parkash-C	55.0	57.0	22.1	29272	0.50	2.7
Mean of location			56.9	59.1	21.9	24745.5	0.44	2.5
Normal (60x20 cm)			56.8	59.0	22.6	25700	0.48	2.4
High (50x20 cm)			57.0	59.1	21.3	23791	0.41	2.5
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.9	1.5	5.8	47.0	46.1	32.1
150:50:60			58.5	60.6	20.8	11034	0.20	2.5
200:60:80			55.3	57.5	23.0	38457	0.68	2.4
CD at 5%			2.4	2.0	1.6	8563.8	0.16	NS
CV (%)			5.8	4.7	10.5	48.3	49.4	14.9
FH 3605			57.0	59.1	26.3	41663	0.75	1.3
FH 3626			55.8	58.1	24.3	42629	0.76	1.3
Bio 9720			60.6	62.8	20.4	39053	0.70	2.5
PMH-5-C			56.0	58.1	16.5	-22153	-0.39	4.4
Parkash-C			55.2	57.3	22.2	22536	0.40	2.8
CD at 5%			1.7	1.5	1.0	6825.6	0.12	0.4
CV (%)			3.6	3.1	5.4	33.2	33.1	21.2

Table 2: Performance of pre release early maturity genotypes in kharif under varying planting density and nutrient levels in Peninsular Zone (PZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Cob yield (kg/ha)	Stover yield (kg/ha)		Plants ('000/ ha)	Cobs ('000/ ha)
			Dharwad	Karimnagar	Karimnagar	Dharwad	Karimnagar	Dharwad	
Normal (60x20 cm)	150:50:60	FH 3605	5149	8136	9926	7253	7185	74.6	70.8
		FH 3664	5375	6745	7889	7437	8926	78.8	74.9
		PMH-5-C	1262	6627	7926	3435	7333	74.1	36.0
		Parkash-C	2024	5481	6537	4207	6593	73.2	35.9
	200:60:80	FH 3605	5956	10103	12481	8093	10074	75.1	71.4
		FH 3664	5437	8045	9667	7537	9333	75.7	71.9
		PMH-5-C	914	7642	9037	3014	9111	73.4	35.3
		Parkash-C	2252	6682	7778	4483	6926	72.3	35.4
High (50x20 cm)	150:50:60	FH 3605	5050	9293	11407	7081	7889	89.2	84.7
		FH 3664	4969	7361	8741	7069	8704	92.8	88.1
		PMH-5-C	1983	6734	8037	4100	8593	88.9	43.6
		Parkash-C	1805	5941	7015	3783	7259	90.6	44.4
	200:60:80	FH 3605	5456	10360	12593	7633	9741	92.5	87.9
		FH 3664	5091	7360	8773	7147	8630	92.2	87.6
		PMH-5-C	1308	6612	7815	3523	7741	88.6	43.4
		Parkash-C	2100	5705	6767	4317	6185	90.8	44.5
Mean of location			3508.1	7426.5	8899.3	5632.0	8138.9	82.7	59.7
Normal (60x20 cm)			3546	7433	8905	5682	8185	74.6	53.9
High (50x20 cm)			3470	7421	8894	5582	8093	90.7	65.5
CD at 5%			NS	NS	NS	NS	NS	2.8	1.8
CV (%)			10.7	4.7	4.8	5.8	12.2	2.7	2.5
150:50:60			3452	7040	8435	5546	7810	82.8	59.8
200:60:80			3564	7813	9364	5718	8468	82.6	59.7
CD at 5%			NS	668.3	725.2	NS	629.6	NS	NS
CV (%)			10.0	11.2	10.2	5.5	9.7	2.6	2.6
FH 3605			5403	9473	11602	7515	8722	82.8	78.7
FH 3664			5218	7377	8767	7297	8898	84.9	80.6
PMH-5-C			1367	6904	8204	3518	8194	81.3	39.6
Parkash-C			2045	5952	7024	4198	6741	81.7	40.0
CD at 5%			434.5	545.7	648.2	440.3	495.8	2.1	1.7
CV (%)			14.7	8.7	8.6	9.3	7.2	3.1	3.4

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
Normal (60x20 cm)	150:50:60	FH 3605	161.3	197.3	50.7	46.3	55.0	48.7
		FH 3664	185.3	210.3	48.7	45.7	53.3	47.7
		PMH-5-C	132.4	206.3	48.0	45.7	52.3	48.0
		Parkash-C	134.2	201.3	48.3	46.0	52.7	48.3
	200:60:80	FH 3605	172.3	222.0	50.0	45.0	55.3	47.7
		FH 3664	187.6	218.7	48.3	45.7	52.3	48.3
		PMH-5-C	124.2	223.7	48.7	45.3	53.0	47.3
		Parkash-C	130.0	215.3	48.3	47.0	52.7	49.7
High (50x20 cm)	150:50:60	FH 3605	179.5	208.3	49.3	46.0	54.0	48.7
		FH 3664	196.3	218.0	48.7	45.7	53.0	48.3
		PMH-5-C	133.3	214.3	48.0	46.3	52.7	49.0
		Parkash-C	127.8	212.3	48.3	47.0	53.7	49.3
	200:60:80	FH 3605	194.6	216.7	50.3	46.0	54.7	49.0
		FH 3664	193.2	209.0	48.7	46.0	53.0	48.0
		PMH-5-C	123.8	216.7	48.0	46.0	52.3	48.7
		Parkash-C	129.6	210.3	48.3	46.3	53.3	48.7
Mean of location			156.6	212.5	48.8	46.0	53.3	48.5
Normal (60x20 cm)			153.4	211.9	48.9	45.8	53.3	48.2
High (50x20 cm)			159.8	213.2	48.7	46.2	53.3	48.7
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			7.3	4.5	1.1	2.6	0.8	0.9
150:50:60			156.3	208.5	48.8	46.1	53.3	48.5
200:60:80			156.9	216.5	48.8	45.9	53.3	48.4
CD at 5%			NS	8.0	NS	NS	NS	NS
CV (%)			5.6	4.7	1.5	2.7	2.3	2.3
FH 3605			176.9	211.1	50.1	45.8	54.8	48.5
FH 3664			190.6	214.0	48.6	45.8	52.9	48.1
PMH-5-C			128.4	215.3	48.2	45.8	52.6	48.3
Parkash-C			130.4	209.8	48.3	46.6	53.1	49.0
CD at 5%			9.0	NS	0.5	NS	0.8	NS
CV (%)			6.8	5.3	1.3	2.2	1.8	2.3

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Cob length (cm)		Cob girth (cm)		Grain rows/cob		Grains/row	
			Dharwad	Karim.	Dharwad**	Karim.	Dharwad	Karim.	Dharwad	Karim.
Normal (60x20 cm)	150:50:60	FH 3605	16.5	21.9	4.3	16.5	15.9	12.4	32.2	36.1
		FH 3664	16.1	15.1	4.3	15.4	15.7	14.5	32.9	29.5
		PMH-5-C	10.4	17.3	2.8	15.7	12.4	14.7	22.4	32.7
		Parkash-C	10.6	18.0	2.7	16.4	12.1	13.2	20.5	32.5
	200:60:80	FH 3605	17.5	20.6	4.6	16.7	15.2	13.2	34.9	34.3
		FH 3664	16.3	16.9	4.5	16.1	16.1	15.4	35.3	28.6
		PMH-5-C	10.2	16.9	2.9	15.5	13.0	14.9	22.8	31.3
		Parkash-C	11.0	19.1	2.8	15.0	11.9	12.4	22.6	35.5
High (50x20 cm)	150:50:60	FH 3605	15.1	21.2	4.3	17.2	15.7	13.5	32.6	37.1
		FH 3664	15.7	15.8	4.2	16.1	15.5	15.3	32.1	30.0
		PMH-5-C	10.5	17.2	2.7	15.7	12.3	14.7	22.7	34.7
		Parkash-C	10.8	18.5	2.5	14.5	12.9	12.8	21.4	32.9
	200:60:80	FH 3605	18.3	20.6	4.5	16.4	14.1	13.1	32.5	32.4
		FH 3664	16.5	15.7	4.2	15.6	15.9	14.3	33.2	29.9
		PMH-5-C	10.6	17.1	2.8	15.5	12.7	14.4	23.0	32.9
		Parkash-C	10.6	17.7	2.7	14.5	12.7	12.8	21.7	32.7
Mean of location			13.5	18.1	3.6	15.8	14.0	13.8	27.7	32.7
Normal (60x20 cm)			13.6	18.2	3.6	15.9	14.1	13.8	28.0	32.5
High (50x20 cm)			13.5	18.0	3.5	15.7	14.0	13.9	27.4	32.8
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			10.4	7.1	3.5	3.4	5.5	5.7	7.1	2.6
150:50:60			13.2	18.1	3.5	15.9	14.1	13.9	27.1	33.2
200:60:80			13.9	18.1	3.6	15.6	14.0	13.8	28.3	32.2
CD at 5%			0.4	NS	NS	NS	NS	NS	NS	NS
CV (%)			3.5	5.2	5.0	9.5	8.0	6.1	8.1	6.4
FH 3605			16.9	21.1	4.4	16.7	15.2	13.0	33.1	35.0
FH 3664			16.2	15.9	4.3	15.8	15.8	14.9	33.4	29.5
PMH-5-C			10.4	17.1	2.8	15.6	12.6	14.7	22.7	32.9
Parkash-C			10.7	18.3	2.7	15.1	12.4	12.8	21.6	33.4
CD at 5%			0.6	0.8	0.2	0.7	0.9	0.5	1.5	1.7
CV (%)			5.6	5.4	5.3	5.0	7.5	4.0	6.4	6.3

****Karim= Karimnagar**

Dharwad = Cob diameter in cm**

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	100-seed weight (g)		Net return (Rs./ha)		B:C ratio	
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar
Normal (60x20 cm)	150:50:60	FH 3605	29.0	40.9	31294	55881	1.99	1.92
		FH 3664	27.7	30.2	33920	35982	2.07	1.60
		PMH-5-C	17.3	29.3	-14502	34299	0.54	1.57
		Parkash-C	15.3	31.9	-5494	17911	0.83	1.30
	200:60:80	FH 3605	31.0	42.9	39141	82996	2.18	2.35
		FH 3664	28.0	31.5	32973	53567	1.99	1.87
		PMH-5-C	16.7	28.4	-20390	47812	0.39	1.78
		Parkash-C	17.7	33.8	-4474	34071	0.87	1.55
High (50x20 cm)	150:50:60	FH 3605	28.7	42.3	30053	70368	1.95	2.13
		FH 3664	27.7	31.8	29170	42735	1.92	1.68
		PMH-5-C	16.3	29.5	-6051	33771	0.81	1.54
		Parkash-C	17.3	33.1	-8289	22431	0.74	1.36
	200:60:80	FH 3605	30.7	41.1	33282	84617	2.00	2.33
		FH 3664	27.3	31.7	28851	41708	1.87	1.66
		PMH-5-C	17.7	28.5	-15634	31016	0.53	1.49
		Parkash-C	16.0	30.5	-6284	18042	0.81	1.28
Mean of location			22.8	33.6	11097.8	44200.6	1.34	1.71
Normal (60x20 cm)			22.8	33.6	11558	45315	1.36	1.74
High (50x20 cm)			22.7	33.6	10637	43086	1.33	1.68
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			5.5	1.5	39.5	11.3	9.74	4.61
150:50:60			22.4	33.6	11263	39172	1.36	1.64
200:60:80			23.1	33.6	10933	49229	1.33	1.79
CD at 5%			NS	NS	NS	9556.5	NS	NS
CV (%)			8.0	1.6	36.8	27.0	9.22	11.16
FH 3605			29.8	41.8	33442	73466	2.03	2.18
FH 3664			27.7	31.3	31228	43498	1.96	1.70
PMH-5-C			17.0	28.9	-14144	36725	0.57	1.59
Parkash-C			16.6	32.3	-6135	23114	0.81	1.37
CD at 5%			1.6	1.1	5125.2	7803.1	0.16	0.13
CV (%)			8.5	3.8	54.8	21.0	14.14	8.76

Table 3: Performance of pre release early maturity genotypes in kharif under varying planting density and nutrients levels in Central Western Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur
Normal (60x20 cm)	150:50:60	FH 3664	6233	5633	6111	8445	60.6	70.0
		JH 31613	6554	5053	5833	7553	55.0	68.7
		CMH 10-531	7249	4833	6667	7222	58.1	63.6
		PMH-5-C	6379	5237	4722	7855	61.7	73.1
		Parkash-C	5042	3853	5278	5767	55.8	58.9
	200:60:80	FH 3664	7183	5833	7500	8575	70.6	70.9
		JH 31613	5776	5237	5278	7963	56.9	65.8
		CMH 10-531	4720	4923	6389	7466	62.8	65.1
		PMH-5-C	5814	5430	5278	8259	59.2	73.6
		Parkash-C	6544	4023	5111	6109	53.3	59.1
High (50x20 cm)	150:50:60	FH 3664	8872	6337	7167	10437	79.7	84.7
		JH 31613	8236	5553	9000	9178	70.3	77.6
		CMH 10-531	8867	5230	7889	8665	69.2	75.1
		PMH-5-C	8195	5803	7333	9442	68.9	90.7
		Parkash-C	9745	4217	6944	6948	66.4	74.4
	200:60:80	FH 3664	9710	6513	9278	10847	78.9	91.3
		JH 31613	8514	5843	8055	9754	78.1	78.0
		CMH 10-531	9411	5437	7889	9042	81.4	75.6
		PMH-5-C	8634	5947	6667	9924	74.4	91.6
		Parkash-C	8898	4430	7500	7350	71.4	72.2
Mean of location			7528.8	5268.3	6794.4	8340.1	66.6	74.0
Normal (60x20 cm)			6149	5006	5817	7521	59.4	66.9
High (50x20 cm)			8908	5531	7772	9159	73.9	81.1
CD at 5%			844.6	NS	1824.0	714.8	2.8	9.8
CV (%)			10.1	11.3	24.2	7.7	3.8	11.9
150:50:60			7537	5175	6694	8151	64.6	73.7
200:60:80			7520	5362	6894	8529	68.7	74.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			10.0	7.4	15.9	6.9	14.3	8.3
FH 3664			8000	6079	7514	9576	72.4	79.2
JH 31613			7270	5422	7042	8612	65.1	72.5
CMH 10-531			7562	5106	7208	8099	67.8	69.8
PMH-5-C			7256	5604	6000	8870	66.0	82.2
Parkash-C			7557	4131	6208	6543	61.7	66.2
CD at 5%			NS	272.2	723.7	388.4	5.0	3.8
CV (%)			11.8	6.2	12.8	5.6	9.0	6.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur
Normal (60x20 cm)	150:50:60	FH 3664	69.4	63.6	153.0	183.7	48.0	44.0
		JH 31613	55.0	62.2	157.3	214.3	48.7	46.0
		CMH 10-531	67.2	56.9	188.7	180.8	52.3	51.0
		PMH-5-C	62.2	66.7	159.0	179.3	47.0	45.3
		Parkash-C	52.2	52.7	165.0	196.4	47.7	44.0
	200:60:80	FH 3664	70.6	63.8	161.7	205.5	47.0	43.0
		JH 31613	52.2	59.8	165.3	219.7	48.7	45.0
		CMH 10-531	56.1	59.1	196.3	187.4	51.7	50.0
		PMH-5-C	52.2	67.1	165.3	203.1	47.0	44.0
		Parkash-C	52.2	52.9	166.7	181.4	45.3	43.0
High (50x20 cm)	150:50:60	FH 3664	92.8	76.7	167.7	191.4	48.7	44.0
		JH 31613	76.7	70.0	179.7	210.3	49.7	46.0
		CMH 10-531	80.6	66.7	194.0	204.6	50.3	51.0
		PMH-5-C	78.3	82.7	167.0	206.4	49.3	45.0
		Parkash-C	78.9	65.6	164.3	185.3	46.0	44.0
	200:60:80	FH 3664	99.4	81.1	166.3	194.4	45.7	43.0
		JH 31613	83.3	70.0	166.3	209.6	50.0	45.3
		CMH 10-531	96.1	67.1	191.7	206.1	50.0	50.3
		PMH-5-C	82.8	83.3	168.0	207.5	45.7	44.0
		Parkash-C	82.8	63.6	166.3	187.9	44.7	43.0
Mean of location			72.1	66.6	170.5	197.7	48.2	45.6
Normal (60x20 cm)			58.9	60.5	167.8	195.2	48.3	45.5
High (50x20 cm)			85.2	72.7	173.1	200.3	48.0	45.6
CD at 5%			11.0	9.3	NS	NS	NS	NS
CV (%)			13.8	12.6	3.3	3.8	3.0	5.8
150:50:60			71.3	66.4	169.6	195.3	48.8	46.0
200:60:80			72.8	66.8	171.4	200.2	47.6	45.1
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			14.9	6.9	4.7	4.0	4.4	4.6
FH 3664			83.1	71.3	162.2	193.8	47.3	43.5
JH 31613			66.8	65.5	167.2	213.5	49.3	45.6
CMH 10-531			75.0	62.4	192.7	194.7	51.1	50.6
PMH-5-C			68.9	74.9	164.8	199.1	47.3	44.6
Parkash-C			66.5	58.7	165.6	187.8	45.9	43.5
CD at 5%			7.2	3.5	5.7	8.9	1.1	1.5
CV (%)			12.0	6.4	4.0	5.4	2.7	3.9

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days 50% silking		100-seed weight (g)		Net returns (Rs. /ha)		B:C ratio	
			Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur	Godhra	Udaipur
Normal (60x20 cm)	150:50:60	FH 3664	51.3	48.0	31.7	20.0	82529	51448	4.14	2.09
		JH 31613	52.0	51.3	29.7	21.4	86649	43596	4.30	1.77
		CMH 10-531	54.3	57.0	28.0	17.7	99153	40625	4.78	1.65
		PMH-5-C	50.0	50.3	28.7	17.9	81246	46098	4.09	1.87
		Parkash-C	50.7	48.3	27.7	19.5	62575	27410	3.38	1.11
	200:60:80	FH 3664	49.3	47.0	31.7	20.5	98433	53552	4.51	2.14
		JH 31613	52.0	50.3	26.7	22.0	71773	45780	3.56	1.83
		CMH 10-531	54.0	56.0	35.7	18.6	58707	41523	3.09	1.66
		PMH-5-C	50.0	48.3	29.7	18.4	72338	48396	3.58	1.94
		Parkash-C	48.3	47.3	31.3	20.0	82872	29366	3.95	1.17
High (50x20 cm)	150:50:60	FH 3664	51.7	48.0	29.0	19.5	124758	61813	5.75	2.51
		JH 31613	52.7	51.3	33.7	21.1	119795	51154	5.56	2.07
		CMH 10-531	53.3	57.0	31.7	17.5	126479	46762	5.82	1.90
		PMH-5-C	52.3	50.7	30.7	17.4	115019	54418	5.38	2.21
		Parkash-C	49.0	48.3	30.0	19.0	137292	32884	6.23	1.33
	200:60:80	FH 3664	49.7	46.7	29.7	20.1	140784	63918	6.02	2.55
		JH 31613	53.0	50.0	33.7	21.5	119777	54785	5.26	2.19
		CMH 10-531	53.0	56.7	27.7	18.1	132817	49193	5.73	1.96
		PMH-5-C	49.7	49.3	36.3	17.9	118106	56195	5.21	2.25
		Parkash-C	48.3	47.0	32.7	19.5	124159	35421	5.42	1.41
Mean of location			51.2	50.5	30.8	19.4	102763.1	46716.7	4.8	1.88
Normal (60x20 cm)			51.2	50.4	30.1	19.6	79628	42779	3.9	1.72
High (50x20 cm)			51.3	50.5	31.5	19.2	125899	50654	5.6	2.04
CD at 5%			NS	NS	0.1	NS		NS		NS
CV (%)			0.9	5.2	0.4	6.0		17.2		18.6
150:50:60			51.7	51.0	30.1	19.1	103550	45621	4.9	1.85
200:60:80			50.7	49.9	31.5	19.7	101977	47813	4.6	1.91
CD at 5%			1.0	NS	0.4	NS		NS		NS
CV (%)			2.7	5.0	1.7	5.7		11.3		13.0
FH 3664			50.5	47.4	30.5	20.0	111626	57683	5.1	2.32
JH 31613			52.4	50.8	30.9	21.5	99499	48829	4.7	1.97
CMH 10-531			53.7	56.7	30.8	18.0	104289	44526	4.9	1.79
PMH-5-C			50.5	49.7	31.3	17.9	96677	51277	4.6	2.07
Parkash-C			49.1	47.8	30.4	19.5	101725	31270	4.7	1.26
CD at 5%			1.0	1.8	0.4	0.8		3625.7		0.2
CV (%)			2.3	4.4	1.5	4.7		9.3		9.5

Table 4: Performance of pre release medium maturity genotypes in kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
			Karimnagar					
Normal (60x20 cm)	200:65:80	DKC9144 (IM8478	9780	12517	8905	233.3	47.3	49.7
		HTMH 5402	9259	11538	8183	242.7	47.0	49.7
		HM 9-C	7157	9719	6915	231.3	46.3	49.7
	250:80:100	DKC9144 (IM8478	9739	12246	8887	232.3	49.0	51.0
		HTMH 5402	8943	11350	8028	230.3	47.3	49.7
		HM 9-C	6834	8670	6972	214.7	47.3	49.7
High (50x20 cm)	200:65:80	DKC9144 (IM8478	11129	14117	10501	249.0	47.0	49.3
		HTMH 5402	9655	11900	8930	259.0	47.0	49.3
		HM 9-C	8218	10277	8180	247.7	46.3	48.7
	250:80:100	DKC9144 (IM8478	10424	13527	10008	240.7	47.0	49.7
		HTMH 5402	9577	12150	8698	248.3	47.0	49.0
		HM 9-C	7235	8865	7053	216.7	47.0	49.3
Mean of location			8995.8	11406.3	8438.4	237.2	47.1	49.6
Normal (60x20 cm)			8619	11007	7982	230.8	47.4	49.9
High (50x20 cm)			9373	11806	8895	243.6	46.9	49.2
CD at 5%			NS	NS	190.9	NS	NS	NS
CV (%)			9.8	8.9	1.6	4.5	3.7	2.5
200:65:80			9200	11678	8602	243.8	46.8	49.4
250:80:100			8792	11135	8274	230.5	47.4	49.7
CD at 5%			NS	NS	NS	13.0	0.3	NS
CV (%)			11.5	10.9	8.6	5.9	0.7	1.0
DKC9144 (IM8478			10268	13102	9575	238.8	47.6	49.9
HTMH 5402			9358	11735	8460	245.1	47.1	49.4
HM 9-C			7361	9383	7280	227.6	46.8	49.3
CD at 5%			681.1	930.4	687.3	8.0	NS	NS
CV (%)			8.7	9.4	9.4	3.9	2.0	1.4

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row	100-seed weight (g)	Net returns (Rs./ha)	BC Ratio
			Karimnagar						
Normal (60x20 cm)	200:65:80	DKC9144 (IM8478	19.1	16.5	13.6	37.4	34.8	74379	2.14
		HTMH 5402	20.5	17.3	13.7	34.0	40.1	66928	2.02
		HM 9-C	18.9	15.3	13.1	30.8	31.6	36881	1.56
	250:80:100	DKC9144 (IM8478	19.1	16.4	13.3	37.3	33.6	70363	2.02
		HTMH 5402	20.1	16.6	13.6	32.6	39.5	58976	1.86
		HM 9-C	17.8	15.1	13.0	30.7	34.1	28820	1.42
High (50x20 cm)	200:65:80	DKC9144 (IM8478	19.3	16.5	13.9	39.6	39.0	89394	2.28
		HTMH 5402	21.3	17.4	13.8	36.5	41.1	68309	1.98
		HM 9-C	19.2	15.8	14.1	32.1	35.9	47760	1.68
	250:80:100	DKC9144 (IM8478	20.1	16.5	13.6	37.5	36.3	78291	2.11
		HTMH 5402	20.9	16.7	13.7	33.9	40.3	66184	1.94
		HM 9-C	18.3	15.9	13.7	31.9	32.1	32694	1.46
Mean of location			19.6	16.3	13.6	34.5	36.5	59914.9	1.87
Normal (60x20 cm)			19.3	16.2	13.4	33.8	35.6	56058	1.84
High (50x20 cm)			19.9	16.5	13.8	35.3	37.5	63772	1.91
CD at 5%			NS	0.2	NS	NS	NS	NS	NS
CV (%)			3.9	1.0	5.3	5.0	8.1	21.0	9.94
200:65:80			19.7	16.5	13.7	35.1	37.1	63942	1.94
250:80:100			19.4	16.2	13.5	34.0	36.0	55888	1.80
CD at 5%			NS	NS	NS	NS	0.9	NS	NS
CV (%)			4.4	2.4	5.8	10.0	2.6	24.7	11.57
DKC9144 (IM8478			19.4	16.5	13.6	38.0	35.9	78107	2.14
HTMH 5402			20.7	17.0	13.7	34.3	40.3	65099	1.95
HM 9-C			18.6	15.5	13.5	31.4	33.4	36539	1.53
CD at 5%			1.3	0.6	NS	2.8	1.7	9739.5	0.14
CV (%)			7.8	3.9	7.0	9.4	5.3	18.8	8.75

Table 5: Performance of pre release late maturity genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Net returns (Rs/ha)	BC ratio
			Ludhiana								
Normal (60x20 cm)	200:65:80	X35D601	9104	17119	81.5	81.9	62.3	64.3	217.7	85244	1.85
		PMH-1-C	8111	15085	80.0	82.2	62.0	64.0	211.7	70818	1.54
		PMH-3-C	6237	10478	78.5	78.9	63.7	65.7	214.7	43043	0.94
		Seedtech 2324-C	7444	13400	79.6	81.5	61.0	63.0	202.7	60905	1.32
		BIO 9681-C	6744	12007	80.4	80.4	58.7	60.7	203.0	50760	1.10
	250:80:100	X35D601	9207	17307	80.4	81.5	61.7	63.0	219.3	84845	1.77
		PMH-1-C	8796	16363	80.7	81.9	61.3	62.7	217.7	78798	1.65
		PMH-3-C	6759	11356	80.7	81.5	62.7	64.0	216.3	48608	1.02
		Seedtech 2324-C	7848	14126	80.7	84.1	60.3	61.7	212.7	64812	1.35
		BIO 9681-C	6893	12270	81.1	84.1	58.7	60.0	213.3	50995	1.06
High (50x20 cm)	200:65:80	X35D601	9207	17307	98.1	98.9	62.7	64.7	219.3	86201	1.85
		PMH-1-C	9096	16919	98.1	98.5	62.7	64.7	221.0	84473	1.82
		PMH-3-C	6593	11078	97.0	95.6	64.0	66.0	215.3	47586	1.02
		Seedtech 2324-C	7541	13570	96.7	98.9	60.3	62.3	205.7	61752	1.33
		BIO 9681-C	7052	12552	97.0	97.8	59.3	61.3	210.3	54634	1.17
	250:80:100	X35D601	9289	17463	98.1	95.9	63.3	64.7	220.3	85527	1.77
		PMH-1-C	9493	17656	97.0	96.7	61.7	63.0	221.0	88331	1.83
		PMH-3-C	6667	11200	97.8	100.0	63.3	65.0	220.0	46792	0.97
		Seedtech 2324-C	7670	13807	97.4	96.7	61.0	62.3	213.3	61766	1.28
		BIO 9681-C	7456	13270	96.7	97.0	59.0	60.3	215.0	58576	1.21
Mean of location			7860.4	14216.7	88.9	89.7	61.5	63.2	214.5	65723.4	1.39
Normal (60x20 cm)			7714	13951	80.4	81.8	61.2	62.9	212.9	63883	1.36
High (50x20 cm)			8006	14482	97.4	97.6	61.7	63.4	216.1	67564	1.42
CD at 5%			NS	NS	2.4	2.4	0.4	NS	NS	NS	NS
CV (%)			8.3	8.3	2.4	2.4	0.6	2.3	3.2	14.3	14.4
200:65:80			7713	13951	88.7	89.4	61.7	63.7	212.1	64542	1.39
250:80:100			8008	14482	89.1	89.9	61.3	62.7	216.9	66905	1.39
CD at 5%			294.5	523.2	NS	NS	NS	NS	NS	NS	NS
CV (%)			5.2	5.1	1.3	5.3	1.3	2.3	5.1	9.0	9.1
X35D601			9202	17299	89.5	89.5	62.5	64.2	219.2	85454	1.81
PMH-1-C			8874	16506	89.0	89.8	61.9	63.6	217.8	80605	1.71
PMH-3-C			6564	11028	88.5	89.0	63.4	65.2	216.6	46507	0.99
Seedtech 2324-C			7626	13726	88.6	90.3	60.7	62.3	208.6	62309	1.32
BIO 9681-C			7036	12525	88.8	89.8	58.9	60.6	210.4	53741	1.14
CD at 5%			387.6	690.5	NS	NS	0.9	0.9	5.1	5560.2	0.1
CV (%)			5.9	5.8	2.4	3.2	1.7	1.7	2.9	10.2	10.2

Table 6: Performance of pre release late maturity genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

N:P_2O_5:K_2O	Germplasm	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Cob length (cm)	Grains rows/ cob	Grains/ row
		Delhi							
100:40:30	X35D601	6584	7630	80.7	77.0	154.0	15.2	15.0	31.2
	PMH-1-C	5612	6889	69.6	66.7	169.5	13.6	13.4	29.4
	PMH-3-C	6664	7852	62.2	60.7	173.0	15.7	13.6	33.7
	Seedtech 2324-C	6819	8000	76.3	71.9	144.0	15.6	13.4	32.3
	BIO 9681-C	4811	5778	80.7	71.1	162.5	14.5	14.2	27.9
150:50:40	X35D601	9227	10519	80.0	78.5	166.5	15.7	16.2	30.8
	PMH-1-C	7554	9111	80.0	77.8	187.5	14.6	13.6	30.1
	PMH-3-C	6339	7556	59.3	59.3	171.5	15.0	14.6	34.7
	Seedtech 2324-C	7768	9185	66.7	66.7	153.5	15.7	13.8	32.5
	BIO 9681-C	5927	7111	68.9	67.4	159.5	14.8	14.4	29.7
200:60:50	X35D601	10372	11852	77.8	77.0	168.5	16.3	15.0	35.9
	PMH-1-C	8250	10815	71.9	68.1	197.0	15.9	13.4	29.8
	PMH-3-C	8571	10074	67.4	66.7	178.0	16.3	13.4	34.0
	Seedtech 2324-C	7438	8741	90.4	83.7	149.5	14.4	14.0	30.0
	BIO 9681-C	6886	8148	75.6	74.8	162.5	14.0	14.2	27.9
Location mean		7254.7	8617.3	73.8	71.2	166.5	15.1	14.1	31.3
C.D.(5%) AiBj-AiBk		2619.8	3099.4	23.7	21.4	23.1	2.5	1.9	6.0
C.D.(5%) AiBk-AjBk		4235.4	4811.3	32.5	27.5	24.1	2.5	2.0	7.1
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
100:40:30		6098	7230	73.9	69.5	160.6	14.9	13.9	30.9
150:50:40		7363	8696	71.0	69.9	167.7	15.2	14.5	31.6
200:60:50		8303	9926	76.6	74.1	171.1	15.4	14.0	31.5
C.D. (5%) Ai-Aj		3815.7	4269.1	27.0	21.9	14.0	1.2	1.1	5.3
C.V. (%) Error A		27.3	25.7	19.0	16.0	4.4	4.1	4.0	8.7
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS
X35D601		8728	10000	79.5	77.5	163.0	15.7	15.4	32.6
PMH-1-C		7139	8938	73.8	70.9	184.7	14.7	13.5	29.8
PMH-3-C		7191	8494	63.0	62.2	174.2	15.7	13.9	34.1
Seedtech 2324-C		7341	8642	77.8	74.1	149.0	15.2	13.7	31.6
BIO 9681-C		5875	7012	75.1	71.1	161.5	14.4	14.3	28.5
C.D. (5%) Bi-Bj		1512.5	1789.4	13.7	12.4	13.4	1.5	1.1	3.5
C.V. (%) ErrorB		16.6	16.5	14.7	13.8	6.4	7.7	6.3	8.8
F (5%)		s	s	NS	NS	s	NS	s	s

Table 7: Performance of pre release late maturity genotypes in kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Vagarai	Hyderabad	Vagarai	Hyderabad	Vagarai	Hyderabad
Normal (60x20 cm)	200:65:80	HTMH 5108	7581	7513	5859	8921	61.9	79.4
		X35D601	10191	8140	6765	9740	74.3	81.4
		PMH-1-C	7271	7427	4502	9256	71.7	79.0
		PMH-3-C	8677	7433	5714	9219	63.5	78.6
		Seedtech 2324-C	9110	8590	6138	10098	76.2	83.3
		BIO 9681-C	6508	8557	5474	9303	54.6	79.8
	250:80:100	HTMH 5108	7565	7963	5368	9687	62.5	81.2
		X35D601	9744	9213	6501	9944	72.1	81.0
		PMH-1-C	9286	7887	7443	9517	71.4	79.6
		PMH-3-C	6400	7997	5027	9426	59.7	77.9
		Seedtech 2324-C	8375	9580	6519	11663	70.5	82.0
		BIO 9681-C	6980	9273	6216	9533	63.5	81.8
High (50x20 cm)	200:65:80	HTMH 5108	9411	7320	4542	9633	81.3	84.5
		X35D601	10199	8250	4432	9513	81.6	92.2
		PMH-1-C	8674	7650	4613	9684	76.2	89.5
		PMH-3-C	7660	7620	5760	9982	68.9	94.3
		Seedtech 2324-C	8688	8823	5169	10133	74.9	91.6
		BIO 9681-C	7200	8720	4766	9698	77.8	72.0
	250:80:100	HTMH 5108	8874	7630	5785	9900	78.4	93.9
		X35D601	10417	8480	3354	11559	79.0	93.1
		PMH-1-C	7565	7907	5743	10142	71.7	94.4
		PMH-3-C	7864	7933	4161	10379	63.8	97.1
		Seedtech 2324-C	9162	9020	6633	11185	76.8	84.7
		BIO 9681-C	9308	8883	5652	10540	75.2	93.9
Mean of location			8446.2	8242.1	5505.7	9944.0	71.2	85.3
Normal (60x20 cm)			8141	8298	5960	9692	66.8	80.4
High (50x20 cm)			8752	8186	5051	10196	75.5	90.1
CD at 5%			NS	NS	778.2	NS	7.3	3.7
CV (%)			24.1	4.2	13.9	7.7	10.2	4.2
200:65:80			8431	8004	5311	9598	71.9	83.8
250:80:100			8462	8481	5700	10290	70.4	86.7
CD at 5%			NS	228.1	NS	NS	NS	1.9
CV (%)			10.1	4.2	13.7	16.0	9.4	3.4
HTMH 5108			8358	7607	5389	9535	71.0	84.7
X35D601			10138	8521	5263	10189	76.7	86.9
PMH-1-C			8199	7718	5575	9650	72.8	85.7
PMH-3-C			7650	7746	5165	9752	64.0	87.0
Seedtech 2324-C			8834	9003	6115	10770	74.6	85.4
BIO 9681-C			7499	8858	5527	9769	67.8	81.9
CD at 5%			1268.5	503.1	NS	617.1	6.2	3.3
CV (%)			18.2	7.4	24.7	7.5	10.6	4.7

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		100-seed weight (g)	
			Vagarai	Hyderabad	Vagarai	Hyderabad	Vagarai	Hyderabad
Normal (60x20 cm)	200:65:80	HTMH 5108	54.0	74.0	159.9	224.7	38.0	30.3
		X35D601	74.0	74.9	175.6	241.0	34.7	34.3
		PMH-1-C	58.4	71.9	179.3	239.3	36.0	35.3
		PMH-3-C	59.7	71.8	177.0	236.7	33.0	30.0
		Seedtech 2324-C	54.9	73.0	155.5	236.7	37.7	34.7
		BIO 9681-C	50.5	74.4	177.6	242.3	32.7	34.7
	250:80:100	HTMH 5108	52.4	75.5	166.1	243.7	39.0	38.3
		X35D601	67.9	79.7	171.7	246.3	29.0	40.0
		PMH-1-C	66.7	74.3	177.0	236.7	34.0	37.7
		PMH-3-C	53.0	73.8	183.9	237.3	31.0	34.7
		Seedtech 2324-C	60.3	79.1	157.8	238.3	37.3	40.7
		BIO 9681-C	57.1	76.3	167.9	241.0	30.0	38.0
High (50x20 cm)	200:65:80	HTMH 5108	73.7	83.3	166.2	228.7	32.7	29.3
		X35D601	75.2	85.9	177.8	239.3	30.0	32.0
		PMH-1-C	68.3	85.2	171.5	231.3	31.7	34.7
		PMH-3-C	61.9	80.6	169.1	237.7	28.3	32.3
		Seedtech 2324-C	62.5	89.0	166.1	233.0	28.0	39.3
		BIO 9681-C	56.8	85.8	164.8	242.7	29.0	36.7
	250:80:100	HTMH 5108	64.1	85.7	163.9	226.7	31.7	37.0
		X35D601	76.5	87.7	168.9	243.3	31.3	38.0
		PMH-1-C	67.9	87.3	173.7	239.0	30.3	36.0
		PMH-3-C	61.6	83.7	171.2	239.7	29.0	35.3
		Seedtech 2324-C	68.6	90.3	163.2	225.7	31.0	38.3
		BIO 9681-C	61.0	86.6	177.0	240.3	36.0	36.0
Mean of location			62.8	80.4	170.1	237.1	32.6	35.6
Normal (60x20 cm)			59.1	74.9	170.8	238.7	34.4	35.7
High (50x20 cm)			66.5	85.9	169.5	235.6	30.8	35.4
CD at 5%			5.1	2.1	NS	NS	NS	NS
CV (%)			8.0	2.6	9.7	3.8	24.0	4.2
200:65:80			62.5	79.2	170.0	236.1	32.6	33.6
250:80:100			63.1	81.7	170.2	238.2	32.5	37.5
CD at 5%			NS	1.7	NS	NS	NS	0.9
CV (%)			7.4	3.2	2.5	1.8	16.8	3.9
HTMH 5108			61.0	79.6	164.0	230.9	35.3	33.8
X35D601			73.4	82.1	173.5	242.5	31.3	36.1
PMH-1-C			65.3	79.7	175.4	236.6	33.0	35.9
PMH-3-C			59.0	77.5	175.3	237.8	30.3	33.1
Seedtech 2324-C			61.6	82.9	160.7	233.4	33.5	38.3
BIO 9681-C			56.3	80.8	171.8	241.6	31.9	36.3
CD at 5%			6.0	NS	8.4	4.2	NS	1.4
CV (%)			11.6	5.3	6.0	2.1	15.7	4.8

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% tasseling		Days to 50% silking		Days to maturity	Absorbed /Utilized PAR(umol/ m^2/sec)	LAI
			Vagarai	Hyderabad	Vagarai	Hyderabad	Hyderabad		
Normal (60x20 cm)	200:65:80	HTMH 5108	50.0	55.0	52.0	58.3	96.7	1438	2.9
		X35D601	50.7	55.7	52.7	59.0	98.3	1129	2.2
		PMH-1-C	49.7	53.3	52.0	56.3	97.3	907	1.6
		PMH-3-C	50.0	55.0	51.7	59.0	97.7	1235	2.9
		Seedtech 2324-C	49.7	55.7	52.0	58.7	100.3	1153	2.6
		BIO 9681-C	47.7	57.0	50.3	59.0	96.7	1251	2.9
	250:80:100	HTMH 5108	48.7	56.0	50.7	58.3	100.0	1185	2.3
		X35D601	51.0	57.0	53.3	58.3	104.3	1006	2.5
		PMH-1-C	50.7	55.3	52.3	57.0	99.0	919	3.2
		PMH-3-C	50.0	54.3	52.7	56.3	100.7	1052	2.4
		Seedtech 2324-C	49.3	57.0	51.7	58.7	106.7	979	3.6
		BIO 9681-C	47.3	55.0	49.3	56.7	98.7	1091	3.0
High (50x20 cm)	200:65:80	HTMH 5108	49.7	56.0	51.7	59.0	97.7	1024	3.0
		X35D601	51.0	56.7	53.3	59.7	99.7	1453	3.9
		PMH-1-C	50.3	55.0	51.7	59.0	100.7	1141	3.0
		PMH-3-C	50.0	54.0	52.7	59.0	99.0	728	1.9
		Seedtech 2324-C	49.3	56.3	51.7	61.0	101.0	1050	2.6
		BIO 9681-C	48.0	55.7	49.7	60.3	97.7	998	2.9
	250:80:100	HTMH 5108	49.7	57.3	51.3	60.0	97.7	969	2.4
		X35D601	49.7	58.7	52.3	61.3	101.7	895	2.8
		PMH-1-C	50.3	58.3	52.3	59.7	99.0	1132	2.4
		PMH-3-C	50.3	58.7	52.7	60.7	92.3	1033	2.4
		Seedtech 2324-C	49.3	59.0	51.3	62.7	101.7	1187	2.9
		BIO 9681-C	47.0	58.0	48.7	62.3	101.0	930	3.3
Mean of location			49.6	56.3	51.7	59.2	99.4	1078.5	2.7
Normal (60x20 cm)			49.6	55.5	51.7	58.0	99.7	1112.1	2.7
High (50x20 cm)			49.6	57.0	51.6	60.4	99.1	1045.0	2.8
CD at 5%			NS	1.2	NS	1.1	NS		
CV (%)			2.6	2.1	2.0	1.8	1.4		
200:65:80			49.7	55.4	51.8	59.0	98.6	1125.6	2.7
250:80:100			49.4	57.1	51.6	59.3	100.2	1031.5	2.8
CD at 5%			NS	1.0	NS	NS	NS		
CV (%)			1.4	2.7	1.6	2.0	3.3		
HTMH 5108			49.5	56.1	51.4	58.9	98.0	1154.0	2.7
X35D601			50.6	57.0	52.9	59.6	101.0	1120.8	2.9
PMH-1-C			50.3	55.5	52.1	58.0	99.0	1024.8	2.6
PMH-3-C			50.1	55.5	52.4	58.8	97.4	1012.0	2.4
Seedtech 2324-C			49.4	57.0	51.7	60.3	102.4	1092.3	2.9
BIO 9681-C			47.5	56.4	49.5	59.6	98.5	1067.5	3.0
CD at 5%			0.7	0.9	0.8	0.8	1.8		
CV (%)			1.6	1.9	2.0	1.7	2.2		

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs. /ha)		B:C ratio		Cob length (cm)	Cob Girth (cm)	Grain rows/cob	Grains/row
			Vagarai	Hyderabad	Vagarai	Hyderabad	Hyderabad			
Normal (60x20 cm)	200:65:80	HTMH 5108	56235	59656	2.01	2.27	20.3	16.7	13.7	33.7
		X35D601	94725	68621	2.70	2.46	20.3	16.7	14.3	35.0
		PMH-1-C	51658	58864	1.93	2.25	20.7	16.0	13.7	34.0
		PMH-3-C	72387	58914	2.30	2.26	17.3	15.7	13.0	31.3
		Seedtech 2324-C	78787	74829	2.42	2.59	19.7	16.0	15.0	35.3
		BIO 9681-C	40401	73601	1.73	2.57	20.7	15.7	15.0	36.0
	250:80:100	HTMH 5108	54159	64186	1.94	2.31	19.7	15.7	14.0	34.7
		X35D601	86295	80693	2.50	2.65	19.3	15.3	15.0	34.3
		PMH-1-C	79541	63019	2.39	2.29	18.3	16.3	14.7	32.3
		PMH-3-C	36971	64359	1.64	2.31	19.7	15.3	13.7	39.3
		Seedtech 2324-C	66112	87179	2.15	2.78	21.3	15.7	14.7	35.7
		BIO 9681-C	45529	81063	1.79	2.65	19.7	15.7	14.7	39.0
High (50x20 cm)	200:65:80	HTMH 5108	83220	56954	2.50	2.19	19.0	16.0	13.7	32.3
		X35D601	94836	68924	2.71	2.44	19.0	16.7	14.3	37.0
		PMH-1-C	72352	61295	2.30	2.28	19.0	16.7	14.0	34.3
		PMH-3-C	57392	61203	2.03	2.28	18.3	15.0	14.7	33.3
		Seedtech 2324-C	72557	76998	2.31	2.61	19.7	17.3	15.0	36.7
		BIO 9681-C	50611	75219	1.91	2.57	20.7	16.3	15.3	41.0
	250:80:100	HTMH 5108	73463	59166	2.28	2.19	17.7	16.0	13.3	34.7
		X35D601	96228	71875	2.68	2.44	19.7	16.0	15.3	37.0
		PMH-1-C	54156	63005	1.94	2.26	19.7	15.3	13.7	36.3
		PMH-3-C	58575	63588	2.02	2.27	20.7	16.0	15.0	36.7
		Seedtech 2324-C	77721	78521	2.35	2.57	20.0	16.3	14.0	38.7
		BIO 9681-C	79863	76099	2.39	2.52	20.3	17.0	14.3	42.0
Mean of location			68074.0	68659.6	2.21	2.42	19.6	16.1	14.3	35.9
Normal (60x20 cm)			63567	69582	2.13	2.45	19.8	15.9	14.3	35.1
High (50x20 cm)			72581	67737	2.28	2.39	19.5	16.2	14.4	36.7
CD at 5%			NS	NS	NS	NS	NS	NS	NS	0.6
CV (%)			44.1	6.0	24.1	3.3	9.4	9.9	2.2	1.7
200:65:80			68763	66256	2.24	2.40	19.6	16.2	14.3	35.0
250:80:100			67385	71063	2.17	2.44	19.7	15.9	14.4	36.7
CD at 5%			NS	3010.7	NS	NS	NS	NS	NS	NS
CV (%)			18.5	6.7	9.8	3.9	9.2	6.4	6.7	13.6
HTMH 5108			66769	59991	2.18	2.24	19.2	16.1	13.7	33.8
X35D601			93021	72528	2.65	2.50	19.6	16.2	14.8	35.8
PMH-1-C			64427	61546	2.14	2.27	19.4	16.1	14.0	34.3
PMH-3-C			56331	62016	2.00	2.28	19.0	15.5	14.1	35.2
Seedtech 2324-C			73794	79382	2.31	2.64	20.2	16.3	14.7	36.6
BIO 9681-C			54101	76496	1.96	2.58	20.3	16.2	14.8	39.5
CD at 5%			18710.5	6407.6	0.33	0.13	NS	NS	0.6	2.4
CV (%)			33.3	11.3	18.2	6.6	9.0	6.8	5.4	8.2

Table 8: Performance of pre release late maturity genotypes in kharif under varying planting density and nutrients levels in Central Western Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
Normal (60x20 cm)	200:65:80	Siri-4527	6712	4548	7879	7164	68.2	75.0
		HTMH 5202	7120	4137	8289	7830	76.5	74.5
		DAS-MH-105	9801	4548	11732	6942	79.0	74.5
		X35D601	11200	5328	12751	7664	71.2	71.7
		DKC9133	9064	4375	10899	8497	72.9	72.2
		IM8556	5800	5111	7480	8119	72.2	73.6
		CP.999	7201	4808	8843	7886	77.4	77.3
		PRO-392	8587	5285	10434	7963	81.2	71.3
		DKC9141 (IM8539)	11848	5155	13580	8386	79.5	73.6
		PMH-1-C	10800	4786	13421	8497	82.2	71.3
		PMH-3-C	10670	6238	12406	7874	81.7	71.7
		Seedtech 2324-C	4980	6129	5893	6775	76.5	73.1
		BIO 9681-C	5911	5003	7110	7031	79.4	74.0
	250:80:100	Siri-4527	7677	6671	8795	9274	71.1	75.0
		HTMH 5202	8054	7125	9089	9163	77.8	75.9
		DAS-MH-105	10876	7948	12209	10274	80.1	77.7
		X35D601	12144	7407	13543	8274	71.9	75.0
		DKC9133	9852	5631	11632	10218	74.2	74.0
		IM8556	6467	5285	9740	9718	74.2	77.7
		CP.999	7965	5804	9421	7966	80.3	77.3
		PRO-392	9490	5566	11076	8497	82.0	76.8
		DKC9141 (IM8539)	12765	6671	14425	9163	80.9	75.4
		PMH-1-C	11596	6519	13242	9149	83.5	74.0
		PMH-3-C	11340	7667	12648	8441	81.7	73.1
		Seedtech 2324-C	5460	7407	6382	8330	77.7	75.4
		BIO 9681-C	6721	5241	7727	8079	82.3	75.0
High (50x20 cm)	200:65:80	Siri-4527	7807	4765	9152	8386	81.1	89.8
		HTMH 5202	8359	4678	10408	8397	89.8	90.7
		DAS-MH-105	11672	3855	14077	9107	96.7	90.7
		X35D601	12760	3682	15595	7497	85.6	87.4
		DKC9133	11234	4895	13670	8386	91.5	88.8
		IM8556	6687	4808	7938	7721	86.9	89.3
		CP.999	8553	4202	9700	7664	86.6	88.8
		PRO-392	9878	4288	12030	8108	97.1	88.4
		DKC9141 (IM8539)	13587	4505	16310	7164	95.8	88.8
		PMH-1-C	12189	4115	15904	7242	100.0	87.9
		PMH-3-C	11890	4700	17002	7202	100.0	92.1
		Seedtech 2324-C	5864	4505	6654	6664	73.8	90.2
		BIO 9681-C	7066	4331	8536	7997	91.2	90.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
High (50x20 cm)	250:80:100	Siri-4527	9479	7061	10866	10052	86.6	90.7
		HTMH 5202	9672	7212	10993	9274	90.2	93.9
		DAS-MH-105	13064	7710	15112	10496	96.8	92.1
		X35D601	14480	6627	17422	8441	86.8	91.1
		DKC9133	11825	7277	13906	10163	88.1	90.7
		IM8556	7568	5025	9269	9107	88.7	90.7
		CP.999	9399	4938	10958	8790	87.4	90.2
		PRO-392	11280	5025	13299	9385	98.4	90.2
		DKC9141 (IM8539)	15367	5804	18680	7719	98.8	90.2
		PMH-1-C	13740	6108	16808	8163	100.0	88.8
		PMH-3-C	13456	6259	15695	7560	99.3	93.9
		Seedtech 2324-C	6572	6584	7672	9385	76.0	87.9
		BIO 9681-C	7875	5328	9310	9330	92.8	92.1
Mean of location			9642.6	5551.5	11492.6	8395.6	84.3	82.3
Normal (60x20 cm)			8849.9	5784.4	10409.5	8352.8	77.5	74.5
High (50x20 cm)			10435.4	5318.7	12575.6	8438.4	91.0	90.2
CD at 5%			199.6	199.1	544.9	NS	1.0	1.6
CV (%)			3.0	5.2	6.9	4.6	1.7	2.8
200:65:80			9124	4722	11065	7775	83.6	81.4
250:80:100			10161	6381	11920	9016	84.9	83.3
CD at 5%			146.5	1585.3	302.4	619.0	NS	NS
CV (%)			3.4	64.2	5.9	16.6	3.6	5.5
Siri-4527			7919	5761	9173	8719	76.8	82.6
HTMH 5202			8301	5788	9694	8666	83.5	83.7
DAS-MH-105			11353	6016	13283	9205	88.1	83.7
X35D601			12646	5761	14828	7969	78.9	81.3
DKC9133			10493	5544	12527	9316	81.7	81.4
IM8556			6631	5057	8607	8667	80.5	82.8
CP.999			8279	4938	9731	8076	82.9	83.4
PRO-392			9808	5041	11710	8488	89.7	81.7
DKC9141 (IM8539)			13392	5534	15749	8108	88.7	82.0
PMH-1-C			12081	5382	14844	8263	91.4	80.5
PMH-3-C			11839	6216	14438	7770	90.7	82.7
Seedtech 2324-C			5719	6156	6650	7789	76.0	81.7
BIO 9681-C			6893	4976	8171	8109	86.4	82.8
CD at 5%			681.4	560.1	806.8	471.4	4.6	NS
CV (%)			8.7	12.5	8.7	6.9	6.7	4.4

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
Normal (60x20 cm)	200:65:80	Siri-4527	52.5	68.5	212.3	173.3	58.7	54.7
		HTMH 5202	61.6	72.6	215.7	164.7	59.3	54.0
		DAS-MH-105	65.8	76.3	225.0	169.3	62.0	55.7
		X35D601	60.3	72.2	245.0	170.3	61.3	57.0
		DKC9133	62.1	76.3	216.7	168.7	55.7	57.0
		IM8556	62.4	74.0	220.9	205.3	58.3	57.3
		CP.999	59.5	74.0	240.3	197.0	61.7	54.3
		PRO-392	69.2	74.5	231.7	166.3	61.0	55.7
		DKC9141 (IM8539)	69.1	71.7	285.0	166.3	63.3	55.0
		PMH-1-C	85.2	75.9	250.0	192.7	54.7	55.0
		PMH-3-C	84.2	75.9	232.3	211.0	57.3	56.7
		Seedtech 2324-C	51.0	76.3	230.0	179.0	60.7	55.7
		BIO 9681-C	61.6	74.0	235.3	178.0	62.3	58.0
	250:80:100	Siri-4527	54.7	78.7	237.0	187.3	57.0	53.3
		HTMH 5202	63.3	77.3	225.0	187.7	57.4	53.0
		DAS-MH-105	67.1	80.5	231.0	172.0	60.3	54.0
		X35D601	60.9	77.3	252.3	192.0	59.3	56.3
		DKC9133	63.9	80.0	230.0	193.0	54.0	55.7
		IM8556	65.2	74.5	245.7	169.7	56.3	56.7
		CP.999	61.8	75.0	247.3	188.3	58.9	55.0
		PRO-392	72.1	78.7	238.0	202.0	59.3	55.3
		DKC9141 (IM8539)	70.6	73.1	311.7	181.7	61.7	53.0
		PMH-1-C	86.4	75.9	260.0	195.7	53.0	54.7
		PMH-3-C	84.5	79.6	245.7	187.7	55.3	56.0
		Seedtech 2324-C	52.4	77.3	240.7	191.3	59.3	55.0
		BIO 9681-C	64.7	77.7	243.3	217.3	60.7	57.3
High (50x20 cm)	200:65:80	Siri-4527	73.7	79.6	216.7	180.7	59.7	55.0
		HTMH 5202	84.7	87.9	207.3	164.3	60.5	55.3
		DAS-MH-105	89.0	84.7	227.3	174.3	63.0	56.0
		X35D601	77.8	79.1	248.3	177.7	62.0	58.0
		DKC9133	87.1	83.3	227.3	186.7	57.3	56.7
		IM8556	80.6	82.8	241.3	193.0	60.0	58.3
		CP.999	78.7	80.5	242.0	156.0	62.7	57.0
		PRO-392	89.1	73.6	235.0	159.0	62.6	55.7
		DKC9141 (IM8539)	87.1	82.4	287.3	150.3	64.7	54.7
		PMH-1-C	104.2	80.0	249.3	170.7	55.7	55.3
		PMH-3-C	103.6	72.2	235.0	194.3	58.7	57.0
		Seedtech 2324-C	67.1	80.0	235.0	181.0	62.0	56.3
		BIO 9681-C	82.9	79.6	237.3	160.3	63.7	57.7

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
High (50x20 cm)	250:80:100	Siri-4527	72.2	88.4	240.0	186.0	60.3	53.3
		HTMH 5202	84.8	93.5	227.0	183.0	61.0	53.3
		DAS-MH-105	88.6	85.1	232.7	184.0	63.7	54.3
		X35D601	78.9	85.6	256.7	178.0	62.7	56.3
		DKC9133	82.0	86.5	235.0	199.0	58.3	55.7
		IM8556	83.2	84.2	250.7	205.7	59.7	55.3
		CP.999	79.4	87.9	252.3	186.7	63.0	55.0
		PRO-392	92.8	92.1	242.7	205.3	62.7	55.0
		DKC9141 (IM8539)	91.9	91.1	317.7	183.0	65.0	53.0
		PMH-1-C	109.5	83.7	264.7	191.3	57.0	55.0
		PMH-3-C	108.6	91.1	250.7	209.3	58.7	56.0
		Seedtech 2324-C	69.1	86.5	244.7	197.0	62.0	55.0
		BIO 9681-C	84.3	82.4	248.3	219.7	63.7	57.0
Mean of location			75.8	79.8	242.3	184.3	60.0	55.6
Normal (60x20 cm)			65.9	75.7	240.3	184.9	58.8	55.4
High (50x20 cm)			85.8	84.0	244.3	183.7	61.2	55.7
CD at 5%			1.8	4.0	NS	NS	0.7	NS
CV (%)			3.5	7.2	3.0	5.6	1.6	1.3
200:65:80			75.0	77.2	235.8	176.6	60.3	56.1
250:80:100			76.7	82.4	248.9	192.1	59.6	55.0
CD at 5%			1.5	2.2	2.9	5.0	0.5	1.0
CV (%)			4.5	6.1	2.6	6.1	1.7	3.9
Siri-4527			63.3	78.8	226.5	181.8	58.9	54.1
HTMH 5202			73.6	82.8	218.8	174.9	59.6	53.9
DAS-MH-105			77.6	81.7	229.0	174.9	62.3	55.0
X35D601			69.5	78.5	250.6	179.5	61.3	56.9
DKC9133			73.8	81.5	227.3	186.8	56.3	56.3
IM8556			72.9	78.9	239.6	193.4	58.6	56.9
CP.999			69.9	79.3	245.5	182.0	61.6	55.3
PRO-392			80.8	79.7	236.8	183.2	61.4	55.4
DKC9141 (IM8539)			79.7	79.6	300.4	170.3	63.7	53.9
PMH-1-C			96.3	78.9	256.0	187.6	55.1	55.0
PMH-3-C			95.2	79.7	240.9	200.6	57.5	56.4
Seedtech 2324-C			59.9	80.0	237.6	187.1	61.0	55.5
BIO 9681-C			73.4	78.4	241.1	193.8	62.6	57.5
CD at 5%			5.7	NS	4.7	8.0	0.8	0.9
CV (%)			9.3	8.0	2.4	5.4	1.7	2.0

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		100-seed weight (g)		Net returns (Rs. /ha)	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
Normal (60x20 cm)	200:65:80	Siri-4527	62.3	60.3	36.0	34.3	57791	39991
		HTMH 5202	62.3	60.3	24.0	35.3	63503	36258
		DAS-MH-105	65.7	61.3	38.0	35.0	101037	39658
		X35D601	65.0	62.7	40.0	35.7	120628	49707
		DKC9133	57.7	61.7	40.0	34.8	90719	39997
		IM8556	62.0	63.7	22.0	36.4	45028	47900
		CP.999	65.3	59.7	30.0	33.6	64637	44062
		PRO-392	65.0	61.0	34.0	35.8	84041	49657
		DKC9141 (IM8539)	66.3	59.7	34.0	39.2	129700	48797
		PMH-1-C	58.0	60.0	33.0	38.6	115023	44730
		PMH-3-C	60.0	62.3	30.0	34.7	113212	60484
		Seedtech 2324-C	64.0	61.3	30.0	38.4	33548	57590
		BIO 9681-C	65.3	63.3	40.0	34.6	46582	45022
	250:80:100	Siri-4527	60.7	58.3	36.0	37.1	69512	65747
		HTMH 5202	60.4	58.0	24.0	39.3	74783	70811
		DAS-MH-105	64.0	59.3	38.0	38.5	114287	81941
		X35D601	63.0	61.7	40.0	38.3	132045	72716
		DKC9133	56.0	61.7	40.0	36.6	99951	55208
		IM8556	60.0	62.0	22.0	39.0	52567	50473
		CP.999	62.6	60.0	30.0	36.3	73532	53822
		PRO-392	63.3	60.7	34.0	37.0	94883	51878
		DKC9141 (IM8539)	64.7	59.0	34.0	40.0	140739	65580
		PMH-1-C	56.3	59.7	33.0	38.9	124368	63816
		PMH-3-C	58.0	61.7	30.0	38.4	120794	75954
		Seedtech 2324-C	62.7	60.3	30.0	39.5	38469	72799
		BIO 9681-C	63.7	62.7	40.0	36.0	56118	47516
High (50x20 cm)	200:65:80	Siri-4527	64.4	60.3	35.3	33.5	72381	44115
		HTMH 5202	64.5	60.3	23.5	32.8	80102	43135
		DAS-MH-105	67.7	61.3	37.2	33.2	126480	34737
		X35D601	66.7	62.7	39.2	35.7	141718	30330
		DKC9133	60.3	61.7	39.2	33.8	120348	45608
		IM8556	64.7	63.7	21.6	35.3	56696	43615
		CP.999	67.3	62.3	29.4	32.9	82813	36555
		PRO-392	67.6	61.0	33.3	33.9	101364	38218
		DKC9141 (IM8539)	68.7	59.7	33.3	36.4	153296	39292
		PMH-1-C	60.0	60.7	32.3	35.1	133718	34926
		PMH-3-C	62.3	62.3	29.4	33.8	129543	41592
		Seedtech 2324-C	66.3	61.3	29.4	35.7	45174	38543
		BIO 9681-C	67.7	63.3	39.2	32.9	61997	38548

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Days to 50% silking		100-seed weight (g)		Net returns (Rs. /ha)	
			Banswara	Chhindwara	Banswara	Chhindwara	Banswara	Chhindwara
High (50x20 cm)	250:80:100	Siri-4527	65.0	58.3	35.3	35.6	88948	71196
		HTMH 5202	65.0	58.3	23.5	38.8	96685	71773
		DAS-MH-105	68.3	59.3	37.2	36.6	144168	79335
		X35D601	67.3	61.7	39.2	37.3	163999	63799
		DKC9133	61.3	61.7	39.2	35.7	126822	73853
		IM8556	64.3	62.0	21.6	38.2	67231	46368
		CP.999	67.7	60.3	29.4	36.2	92871	44895
		PRO-392	67.7	60.3	33.3	36.4	119192	46784
		DKC9141 (IM8539)	69.0	58.7	33.3	39.2	176417	53252
		PMH-1-C	61.3	60.0	32.3	39.6	153633	57405
		PMH-3-C	62.3	61.7	29.4	36.1	149668	58244
		Seedtech 2324-C	66.3	60.3	29.4	38.6	53287	64717
		BIO 9681-C	67.7	62.7	39.2	35.4	71524	50188
Mean of location			63.8	60.9	32.8	36.3	97453.2	52368.0
Normal (60x20 cm)			62.1	60.9	33.2	37.0	86827	55081
High (50x20 cm)			65.4	61.0	32.5	35.7	108080	49655
CD at 5%			0.7	NS	0.0	0.6	3506.4	2106.1
CV (%)			1.5	0.9	0.0	2.4	5.2	5.8
200:65:80			64.1	61.5	32.8	35.1	91195	42810
250:80:100			63.4	60.4	32.8	37.6	103711	61926
CD at 5%			0.5	NS	NS	0.7	2019.8	19093.2
CV (%)			1.6	6.7	0.0	4.3	4.7	82.0
Siri-4527			63.1	59.3	35.6	35.1	72158	55262
HTMH 5202			63.1	59.3	23.8	36.5	78768	55494
DAS-MH-105			66.4	60.3	37.6	35.8	121493	58918
X35D601			65.5	62.2	39.6	36.8	139597	54138
DKC9133			58.8	61.7	39.6	35.2	109460	53667
IM8556			62.8	62.8	21.8	37.2	55380	47089
CP.999			65.7	60.6	29.7	34.8	78463	44834
PRO-392			65.9	60.8	33.7	35.8	99870	46634
DKC9141 (IM8539)			67.2	59.3	33.7	38.7	150038	51730
PMH-1-C			58.9	60.1	32.7	38.0	131685	50219
PMH-3-C			60.7	62.0	29.7	35.7	128304	59069
Seedtech 2324-C			64.8	60.8	29.7	38.1	42619	58412
BIO 9681-C			66.1	63.0	39.6	34.7	59055	45318
CD at 5%			0.7	1.0	0.0	1.5	9561.7	6448.2
CV (%)			1.3	2.1	0.0	5.1	12.1	15.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	B:C ratio		Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains /row
			Banswara	Chhindwara	Chhindwara			
Normal (60x20 cm)	200:65:80	Siri-4527	1.60	1.73	15.0	12.7	12.7	29.7
		HTMH 5202	1.76	1.57	13.3	12.5	12.7	25.3
		DAS-MH-105	2.79	1.72	13.2	11.8	13.3	25.3
		X35D601	3.33	2.16	14.7	11.5	14.0	27.7
		DKC9133	2.51	1.73	14.1	12.5	11.3	27.3
		IM8556	1.24	2.08	13.7	12.7	12.0	21.7
		CP.999	1.79	1.91	12.2	12.7	13.3	27.3
		PRO-392	2.32	2.15	11.5	11.5	13.3	21.3
		DKC9141 (IM8539)	3.59	2.12	13.6	11.6	13.3	29.3
		PMH-1-C	3.18	1.94	13.9	13.5	12.0	25.3
		PMH-3-C	3.13	2.62	14.3	12.7	13.3	27.0
		Seedtech 2324-C	0.93	2.50	14.5	12.6	12.0	24.7
		BIO 9681-C	1.29	1.95	13.1	11.7	14.7	26.3
	250:80:100	Siri-4527	1.83	2.64	15.4	13.7	13.3	28.0
		HTMH 5202	1.97	2.85	14.8	13.5	15.3	34.3
		DAS-MH-105	3.01	3.29	12.0	14.0	14.0	26.0
		X35D601	3.48	2.92	16.5	13.9	14.0	32.3
		DKC9133	2.63	2.22	14.0	12.0	12.0	30.3
		IM8556	1.38	2.03	13.3	12.2	10.7	26.3
		CP.999	1.94	2.16	14.8	12.5	12.0	28.3
		PRO-392	2.50	2.09	17.9	13.6	13.3	33.3
		DKC9141 (IM8539)	3.71	2.64	14.5	14.8	13.3	26.3
		PMH-1-C	3.28	2.57	16.7	13.8	12.7	36.0
		PMH-3-C	3.18	3.05	20.8	15.1	14.0	40.3
		Seedtech 2324-C	1.01	2.93	14.4	13.3	12.7	25.3
		BIO 9681-C	1.48	1.91	16.1	15.4	15.3	32.3
High (50x20 cm)	200:65:80	Siri-4527	1.96	1.90	14.7	12.2	13.3	26.3
		HTMH 5202	2.17	1.85	15.4	13.3	13.3	21.0
		DAS-MH-105	3.43	1.49	13.2	12.1	12.7	21.3
		X35D601	3.84	1.30	15.0	12.5	12.7	25.3
		DKC9133	3.26	1.96	12.6	12.5	12.0	31.0
		IM8556	1.54	1.88	14.2	12.5	13.3	22.3
		CP.999	2.24	1.57	13.6	13.7	13.3	22.3
		PRO-392	2.75	1.64	12.3	12.0	12.0	20.7
		DKC9141 (IM8539)	4.15	1.69	12.2	11.2	12.7	28.7
		PMH-1-C	3.62	1.50	12.9	11.1	12.7	26.7
		PMH-3-C	3.51	1.79	12.6	11.6	10.7	27.3
		Seedtech 2324-C	1.22	1.66	13.9	12.5	12.0	25.3
		BIO 9681-C	1.68	1.66	15.8	12.3	12.7	28.0

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	B:C ratio		Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains /row
			Banswara	Chhindwara	Chhindwara			
High (50x20 cm)	250:80:100	Siri-4527	2.30	2.84	15.3	14.3	14.0	27.7
		HTMH 5202	2.50	2.86	15.2	13.2	13.3	36.7
		DAS-MH-105	3.72	3.16	13.1	12.7	12.0	30.7
		X35D601	4.24	2.54	16.7	14.5	12.7	37.7
		DKC9133	3.28	2.95	13.8	12.2	12.7	29.0
		IM8556	1.74	1.85	13.0	12.4	14.0	29.7
		CP.999	2.40	1.79	15.3	13.4	12.0	28.0
		PRO-392	3.08	1.87	15.4	14.4	12.0	24.7
		DKC9141 (IM8539)	4.56	2.12	15.7	14.4	12.7	24.3
		PMH-1-C	3.97	2.29	13.9	13.7	14.0	27.7
		PMH-3-C	3.87	2.32	18.2	14.7	14.7	34.0
		Seedtech 2324-C	1.38	2.58	14.8	13.6	12.7	27.7
		BIO 9681-C	1.85	2.00	17.7	14.5	12.0	31.7
Mean of location			2.60	2.16	14.5	13.0	12.9	27.9
Normal (60x20 cm)			2.34	2.29	14.5	13.0	13.1	28.4
High (50x20 cm)			2.85	2.04	14.5	13.0	12.8	27.5
CD at 5%			0.09	0.08	NS	NS	NS	NS
CV (%)			5.05	5.67	4.8	3.3	8.7	17.4
200:65:80			2.49	1.85	13.7	12.3	12.7	25.6
250:80:100			2.70	2.48	15.4	13.7	13.1	30.3
CD at 5%			0.05	NS	0.4	0.3	0.4	1.5
CV (%)			4.70	82.87	5.9	5.5	6.7	12.3
Siri-4527			1.92	2.28	15.1	13.2	13.3	27.9
HTMH 5202			2.10	2.28	14.7	13.1	13.7	29.3
DAS-MH-105			3.24	2.42	12.9	12.6	13.0	25.8
X35D601			3.72	2.23	15.7	13.1	13.3	30.8
DKC9133			2.92	2.21	13.6	12.3	12.0	29.4
IM8556			1.48	1.96	13.6	12.5	12.5	25.0
CP.999			2.09	1.86	14.0	13.1	12.7	26.5
PRO-392			2.66	1.94	14.3	12.9	12.7	25.0
DKC9141 (IM8539)			4.00	2.14	14.0	13.0	13.0	27.2
PMH-1-C			3.51	2.07	14.3	13.0	12.8	28.9
PMH-3-C			3.42	2.45	16.5	13.5	13.2	32.2
Seedtech 2324-C			1.14	2.42	14.4	13.0	12.3	25.8
BIO 9681-C			1.57	1.88	15.7	13.5	13.7	29.6
CD at 5%			0.25	0.27	0.6	0.4	0.8	2.4
CV (%)			12.09	15.13	4.9	4.1	8.0	10.4

Table 9: Performance of pre release popcorn genotypes in kharif under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Stover yield (kg/ha)		Plants ('000/ha)		Cobs ('00/ha)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
Normal (60x20 cm)	150:50:60	VL Popcorn-2	2869	4256	7671	6106	83.3	75.5	83.3	80.7
		KDPC-2 (Pop corn)	5093	4561	9047	6537	83.3	72.2	83.3	73.9
		VL Pop corn-C	3527	4219	9224	5986	83.3	71.1	83.3	80.0
	200:60:80	VL Popcorn-2	5013	4676	9024	6560	83.3	73.4	93.3	88.9
		KDPC-2 (Pop corn)	6323	4530	10771	6522	83.3	73.3	83.3	79.1
		VL Pop corn-C	3925	4109	9539	5843	83.3	67.8	83.3	79.6
High (50x20 cm)	150:50:60	VL Popcorn-2	4265	4192	11561	6080	100.0	91.1	100.0	89.8
		KDPC-2 (Pop corn)	5467	5104	10926	7192	100.0	73.8	100.0	75.6
		VL Pop corn-C	4770	3615	10334	5089	100.0	86.8	100.0	86.3
	200:60:80	VL Popcorn-2	5109	5613	12290	8015	100.0	97.2	102.0	115.0
		KDPC-2 (Pop corn)	6240	6390	11410	9040	100.0	85.6	100.0	89.6
		VL Pop corn-C	4199	5492	11140	7847	100.0	89.3	100.0	91.0
Mean of location			4733.4	4729.7	10244.7	6734.7	91.7	79.7	92.7	85.8
Normal (60x20 cm)			4458	4392	9213	6259	83.3	72.2	85.0	80.4
High (50x20 cm)			5008	5068	11277	7210	100.0	87.3	100.3	91.2
CD at 5%			NS	NS	1776.0	NS	0.0	7.3	1.9	8.8
CV (%)			14.8	14.1	12.1	12.1	0.0	6.3	1.4	7.2
150:50:60			4332	4324	9794	6165	91.7	78.4	91.7	81.1
200:60:80			5135	5135	10696	7304	91.7	81.1	93.7	90.5
CD at 5%			316.3	378.8	621.0	601.1	NS	NS	1.9	5.9
CV (%)			7.2	8.7	6.5	9.6	0.0	3.8	2.2	7.4
VL Popcorn-2			4314	4684	10136	6690	91.7	84.3	94.6	93.6
KDPC-2 (Pop corn)			5781	5146	10539	7323	91.7	76.2	91.7	79.6
VL Pop corn-C			4105	4359	10059	6191	91.7	78.7	91.7	84.2
CD at 5%			345.4	333.4	NS	458.3	0.0	2.6	1.8	4.1
CV (%)			8.4	8.1	10.6	7.9	0.0	3.7	2.2	5.5

Density	N:P_2O_5:K_2O	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking		100-seed weight (g)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
Normal (60x20 cm)	150:50:60	VL Popcorn-2	145.4	172.9	54.7	50.3	59.7	52.3	11.7	14.0
		KDPC-2 (Pop corn)	169.8	177.7	53.7	50.7	57.7	52.7	13.9	18.0
		VL Pop corn-C	144.4	158.0	55.0	50.7	58.7	52.7	12.7	13.3
	200:60:80	VL Popcorn-2	157.2	167.9	54.7	50.0	57.3	52.0	12.9	14.7
		KDPC-2 (Pop corn)	172.1	162.0	53.3	51.0	56.0	53.0	14.9	17.7
		VL Pop corn-C	154.5	160.4	55.7	50.7	60.7	52.7	12.3	13.3
High (50x20 cm)	150:50:60	VL Popcorn-2	147.7	167.7	57.0	50.3	59.7	52.3	11.8	13.3
		KDPC-2 (Pop corn)	171.6	173.5	53.7	50.7	56.3	52.7	14.2	16.7
		VL Pop corn-C	147.7	166.9	56.0	50.7	59.0	52.7	12.2	14.0
	200:60:80	VL Popcorn-2	152.3	171.9	55.0	50.3	59.0	52.3	13.4	13.3
		KDPC-2 (Pop corn)	173.0	169.9	53.0	50.7	56.3	52.7	15.1	18.3
		VL Pop corn-C	155.1	170.8	56.7	51.0	60.3	53.0	12.5	14.0
Mean of location			157.6	168.3	54.9	50.6	58.4	52.6	13.1	15.1
Normal (60x20 cm)			157.2	166.5	54.5	50.6	58.3	52.6	13.1	15.2
High (50x20 cm)			157.9	170.1	55.2	50.6	58.4	52.6	13.2	14.9
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.5	2.8	5.6	0.9	4.2	0.8	10.3	5.9
150:50:60			154.5	169.5	55.0	50.6	58.5	52.6	12.8	14.9
200:60:80			160.7	167.2	54.7	50.6	58.3	52.6	13.5	15.2
CD at 5%			NS	NS	NS	NS	NS	NS	5.5	NS
CV (%)			5.9	2.1	6.5	1.2	6.4	1.1	4.5	6.8
VL Popcorn-2			150.7	170.1	55.3	50.3	58.9	52.3	12.5	13.8
KDPC-2 (Pop corn)			171.6	170.8	53.4	50.8	56.6	52.8	14.5	17.7
VL Pop corn-C			150.4	164.0	55.8	50.8	59.7	52.8	12.4	13.7
CD at 5%			11.4	5.2	1.4	0.4	1.6	0.4	0.7	1.1
CV (%)			8.4	3.6	3.0	1.0	3.2	1.0	5.8	8.8

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs. /ha)		B:C ratio		Insect-pest and disease incidence	Popping (%)
			Almora	Bajaura	Almora	Bajaura	Almora	Almora
Normal (60x20 cm)	150:50:60	VL Popcorn-2	89849	95828	1.68	3.61	3.3	66.3
		KDPC-2 (Pop corn)	201045	105338	3.75	3.87	4.0	68.3
		VL Pop corn-C	122736	94616	2.29	3.58	4.0	66.7
	200:60:80	VL Popcorn-2	196094	106993	3.59	3.78	4.0	70.3
		KDPC-2 (Pop corn)	262568	102586	4.90	3.66	3.7	58.3
		VL Pop corn-C	142642	89405	2.66	3.32	4.0	73.7
High (50x20 cm)	150:50:60	VL Popcorn-2	154641	93482	2.64	3.52	4.0	67.7
		KDPC-2 (Pop corn)	214764	121730	3.66	4.28	3.3	70.3
		VL Pop corn-C	179911	75382	3.07	3.03	3.7	71.3
	200:60:80	VL Popcorn-2	196663	135872	3.35	4.49	4.0	70.7
		KDPC-2 (Pop corn)	253401	159988	4.32	5.11	4.0	71.0
		VL Pop corn-C	151339	132091	2.58	4.39	4.0	77.0
Mean of location			180471.0	109442.5	3.2	3.89	3.8	69.3
Normal (60x20 cm)			169155	99127	3.1	3.63	3.8	67.3
High (50x20 cm)			191787	119757	3.3	4.14	3.8	71.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			19.4	18.9	19.2	14.0	7.5	5.2
150:50:60			160491	97729	2.8	3.65	3.7	68.4
200:60:80			200451	121156	3.6	4.12	3.9	70.2
CD at 5%			15769.9	11830.5	0.3	0.3	NS	NS
CV (%)			9.4	11.7	9.4	8.8	11.5	9.1
VL Popcorn-2			159312	108044	2.8	3.85	3.8	68.8
KDPC-2 (Pop corn)			232944	122411	4.2	4.23	3.8	67.0
VL Pop corn-C			149157	97873	2.7	3.58	3.9	72.2
CD at 5%			17250.4	10358.8	0.3	0.3	NS	NS
CV (%)			11.0	10.9	11.0	8.2	8.1	10.9

Table 10: Performance of pre release popcorn genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)
			Ludhiana	Karnal	Karnal	Ludhiana	Ludhiana	Karnal	Ludhiana
High (60x20 cm)	150:50:60	VL Popcorn-2	2863	2475	2989	4870	80.0	72.9	82.2
		KDPC-2 (Pop corn)	2852	1924	2412	4793	78.5	68.9	78.9
		VL Pop corn-C	2430	1999	2224	3863	79.6	74.5	81.5
	200:60:80	VL Popcorn-2	3315	2521	3045	5637	80.7	74.3	81.9
		KDPC-2 (Pop corn)	3252	2058	2579	5467	80.7	68.9	81.5
		VL Pop corn-C	3093	2096	2472	4915	80.7	71.9	84.1
Normal (50x20 cm)	150:50:60	VL Popcorn-2	3163	2957	3571	5378	98.1	88.7	98.5
		KDPC-2 (Pop corn)	3407	2447	3066	5726	97.0	85.7	95.6
		VL Pop corn-C	3285	2567	3027	5222	96.7	88.7	98.9
	200:60:80	VL Popcorn-2	3537	2999	3622	6015	97.0	88.7	98.9
		KDPC-2 (Pop corn)	3707	2476	3103	6230	97.8	84.8	100.0
		VL Pop corn-C	3270	2633	3272	5200	97.4	88.0	99.6
Mean of location			3181.2	2429.4	2948.4	5276.2	88.7	79.7	90.1
Normal (60x20 cm)			2967	2179	2620	4924	80.1	71.9	81.7
High (50x20 cm)			3395	2680	3277	5628	97.3	87.5	98.6
CD at 5%			200.4	277.8	167.6	336.9	3.5	15.0	1.9
CV (%)			4.4	8.0	4.0	4.5	2.7	13.1	1.5
150:50:60			3000	2395	2882	4975	88.3	79.9	89.3
200:60:80			3362	2464	3015	5577	89.1	79.4	91.0
CD at 5%			153.9	NS	NS	257.5	NS	NS	NS
CV (%)			5.2	7.0	7.4	5.3	1.8	4.7	3.5
VL Popcorn-2			3219	2738	3307	5475	89.0	81.2	90.4
KDPC-2 (Pop corn)			3305	2226	2790	5554	88.5	77.1	89.0
VL Pop corn-C			3019	2324	2749	4800	88.6	80.8	91.0
CD at 5%			NS	235.5	317.5	616.8	NS	NS	NS
CV (%)			13.5	11.2	12.4	13.5	2.4	5.4	3.6

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking		Days to maturity
			Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal
High (60x20 cm)	150:50:60	VL Popcorn-2	173.7	110.0	59.0	53.0	60.7	55.0	79.3
		KDPC-2 (Pop corn)	171.0	121.0	59.7	53.0	61.3	55.0	76.3
		VL Pop corn-C	162.7	145.0	59.7	54.3	61.3	56.3	77.3
	200:60:80	VL Popcorn-2	182.0	114.3	58.7	52.0	60.0	54.0	80.0
		KDPC-2 (Pop corn)	180.0	124.7	58.0	51.3	59.3	54.3	76.7
		VL Pop corn-C	168.7	150.0	58.0	53.7	59.3	56.0	77.7
Normal (50x20 cm)	150:50:60	VL Popcorn-2	176.0	117.3	59.3	51.7	60.7	54.0	80.7
		KDPC-2 (Pop corn)	175.0	126.3	60.3	51.7	61.7	54.3	76.7
		VL Pop corn-C	169.0	150.0	60.0	52.7	61.3	55.3	78.3
	200:60:80	VL Popcorn-2	184.0	120.0	59.0	51.3	60.7	53.7	81.0
		KDPC-2 (Pop corn)	181.7	134.0	59.3	50.7	61.0	53.3	77.7
		VL Pop corn-C	169.0	155.0	59.7	51.7	61.3	54.3	79.3
Mean of location			174.4	130.6	59.2	52.3	60.7	54.6	78.4
Normal (60x20 cm)			173.0	127.5	58.8	52.9	60.3	55.1	77.9
High (50x20 cm)			175.8	133.8	59.6	51.6	61.1	54.2	78.9
CD at 5%			NS	2.5	NS	0.6	NS	NS	NS
CV (%)			4.1	1.4	1.7	0.8	2.1	1.3	1.9
150:50:60			171.2	128.3	59.7	52.7	61.2	55.0	78.1
200:60:80			177.6	133.0	58.8	51.8	60.3	54.3	78.7
CD at 5%			5.0	4.1	NS	0.4	NS	0.4	0.4
CV (%)			3.1	3.3	2.3	0.9	2.5	0.8	0.6
VL Popcorn-2			178.9	115.4	59.0	52.0	60.5	54.2	80.3
KDPC-2 (Pop corn)			176.9	126.5	59.3	51.7	60.8	54.3	76.8
VL Pop corn-C			167.3	150.0	59.3	53.1	60.8	55.5	78.2
CD at 5%			3.5	3.9	NS	0.8	NS	0.8	0.6
CV (%)			2.3	3.4	1.3	1.7	1.6	1.7	0.8

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs/ha)		BC ratio		Popping (%)
			Ludhiana	Karnal	Ludhiana	Karnal	Karnal
High (60x20 cm)	150:50:60	VL Popcorn-2	59499	52302	1.35	2.33	93.7
		KDPC-2 (Pop corn)	59056	33120	1.34	1.84	12.3
		VL Pop corn-C	43627	35723	0.99	1.91	90.0
	200:60:80	VL Popcorn-2	74216	52170	1.62	2.27	93.3
		KDPC-2 (Pop corn)	71893	36038	1.57	1.88	13.3
		VL Pop corn-C	65933	37349	1.44	1.91	90.0
Normal (50x20 cm)	150:50:60	VL Popcorn-2	69820	69111	1.56	2.75	93.3
		KDPC-2 (Pop corn)	78619	51326	1.76	2.31	12.7
		VL Pop corn-C	73989	55514	1.66	2.41	90.7
	200:60:80	VL Popcorn-2	81725	68812	1.77	2.67	93.0
		KDPC-2 (Pop corn)	87838	50588	1.90	2.23	13.0
		VL Pop corn-C	71821	56071	1.55	2.36	89.7
Mean of location			69836.3	49843.6	1.54	2.24	65.4
Normal (60x20 cm)			62371	41117	1.39	2.02	65.4
High (50x20 cm)			77302	58570	1.70	2.46	65.4
CD at 5%			7248.1	9680.8	0.16	0.24	NS
CV (%)			7.2	13.5	7.2	7.5	1.1
150:50:60			64102	49516	1.44	2.26	65.4
200:60:80			75571	50171	1.64	2.22	65.4
CD at 5%			5567.5	NS	0.12	NS	NS
CV (%)			8.6	11.9	8.6	6.6	3.6
VL Popcorn-2			71315	60599	1.58	2.51	93.3
KDPC-2 (Pop corn)			74352	42768	1.64	2.06	12.8
VL Pop corn-C			63842	46164	1.41	2.15	90.1
CD at 5%			NS	8206.0	NS	0.20	1.3
CV (%)			22.2	19.0	22.5	10.5	2.3

Table 11: Performance of pre release popcorn genotypes in kharif under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)			Stover yield (kg/ha)		
			Ambikapur	Bahraich	Bhubaneswar	Ambikapur	Bahraich	Bhubneshwar
Normal (60x20 cm)	150:50:60	VL Popcorn-2	3312	3083	3083	5101	4221	3500
		KDPC-2 (Pop corn)	5116	2867	3333	8152	3973	3750
		VL Pop corn-C	3806	2780	2417	6052	3863	3417
	200:60:80	VL Popcorn-2	3660	3260	3583	5539	4597	3944
		KDPC-2 (Pop corn)	5006	2997	3917	7959	4327	4194
		VL Pop corn-C	4316	3150	3167	6863	3857	3750
High (50x20 cm)	150:50:60	VL Popcorn-2	3513	2917	3667	5385	3920	5056
		KDPC-2 (Pop corn)	4651	2717	4250	7395	3800	5556
		VL Pop corn-C	3447	2630	3417	5481	3593	5222
	200:60:80	VL Popcorn-2	4427	3110	4333	6815	4133	5278
		KDPC-2 (Pop corn)	4797	2927	4583	7628	3890	5972
		VL Pop corn-C	4769	2793	3833	7345	3793	4889
Mean of location			4235.0	2935.8	3631.9	6642.8	3997.3	4544.0
Normal (60x20 cm)			4203	3023	3250	6611	4140	3759
High (50x20 cm)			4267	2849	4014	6675	3855	5329
CD at 5%			NS	NS	NS	NS	NS	692.6
CV (%)			5.1	11.2	19.9	6.2	5.3	10.6
150:50:60			3974	2832	3361	6261	3895	4417
200:60:80			4496	3039	3903	7025	4099	4671
CD at 5%			330.7	NS	493.8	554.0	123.2	NS
CV (%)			8.4	10.9	14.7	9.0	3.3	8.5
VL Popcorn-2			3728	3093	3667	5710	4218	4444
KDPC-2 (Pop corn)			4893	2877	4021	7783	3998	4868
VL Pop corn-C			4085	2838	3208	6435	3777	4319
CD at 5%			371.4	148.8	364.2	574.2	151.4	243.4
CV (%)			10.1	5.9	11.6	10.0	4.4	6.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		Plant height (cm)		
			Ambika.	Bahraich	Bhub.	Ambika.	Bahraich	Ambika.	Bahraich	Bhub.
Normal (60x20 cm)	150:50:60	VL Popcorn-2	80.6	82.3	26.3	80.4	82.1	185.2	175.0	128.5
		KDPC-2 (Pop corn)	78.5	82.1	27.7	89.3	81.8	191.8	174.3	128.5
		VL Pop corn-C	80.6	85.2	27.7	92.3	81.6	186.7	175.7	130.7
	200:60:80	VL Popcorn-2	78.5	82.3	27.3	82.5	82.0	181.9	178.0	132.2
		KDPC-2 (Pop corn)	81.3	82.3	27.3	95.8	82.0	201.0	177.3	133.0
		VL Pop corn-C	79.2	82.2	27.0	91.6	81.9	193.9	179.0	130.5
High (50x20 cm)	150:50:60	VL Popcorn-2	94.4	98.3	41.3	103.4	97.8	184.1	173.3	131.5
		KDPC-2 (Pop corn)	95.8	97.9	40.7	109.5	97.6	200.9	170.3	132.8
		VL Pop corn-C	95.8	97.7	42.3	108.5	97.4	187.7	174.0	134.2
	200:60:80	VL Popcorn-2	96.5	98.4	38.3	107.2	98.0	190.1	177.0	131.7
		KDPC-2 (Pop corn)	95.8	98.3	40.3	112.7	97.9	209.5	176.3	135.2
		VL Pop corn-C	95.8	98.3	37.7	105.4	97.9	203.1	177.7	134.7
Mean of location			87.7	90.4	33.7	98.2	89.8	193.0	175.7	132.0
Normal (60x20 cm)			79.7	82.7	27.2	88.7	81.9	190.1	176.6	130.6
High (50x20 cm)			95.7	98.2	40.1	107.8	97.8	195.9	174.8	133.4
CD at 5%			0.0	3.1	3.8	12.4	0.8	NS	0.9	2.6
CV (%)			0.0	2.4	7.9	8.8	0.6	2.7	0.3	1.3
150:50:60			87.6	90.6	34.3	97.2	89.7	189.4	173.8	131.0
200:60:80			87.8	90.3	33.0	99.2	89.9	196.6	177.6	132.9
CD at 5%			NS	NS	NS	NS	NS	NS	0.8	1.3
CV (%)			1.6	1.8	6.1	5.0	0.5	4.8	0.5	1.1
VL Popcorn-2			87.5	90.3	33.3	93.4	90.0	185.3	175.8	131.0
KDPC-2 (Pop corn)			87.8	90.2	34.0	101.8	89.8	200.8	174.6	132.4
VL Pop corn-C			87.8	90.9	33.7	99.5	89.7	192.8	176.6	132.5
CD at 5%			NS	NS	NS	6.3	0.2	8.3	0.5	NS
CV (%)			1.9	1.8	6.1	7.4	0.2	5.0	0.4	2.3

Ambika.= Ambikapur
Bhub.= Bhubneshwar

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% tasseling			Days to 50% silking			100-seed weight (g)		
			Ambika	Bahraich	Bhub	Ambika	Bahraich	Bhub	Ambika	Bahraich	Bhub
Normal (60x20 cm)	150:50:60	VL Popcorn-2	47.0	45.7	45.7	49.0	48.3	49.7	15.2	18.0	15.9
		KDPC-2 (Pop corn)	48.3	46.7	45.7	50.3	49.7	48.7	19.8	18.1	16.1
		VL Pop corn-C	46.3	46.7	46.7	48.3	49.3	50.3	16.2	17.9	15.9
	200:60:80	VL Popcorn-2	46.0	43.7	47.0	48.0	47.7	51.0	16.5	18.4	16.1
		KDPC-2 (Pop corn)	47.7	44.3	45.7	49.7	47.3	49.3	21.9	18.3	16.2
		VL Pop corn-C	46.3	44.7	45.3	48.3	48.0	50.0	17.1	18.0	16.0
High (50x20 cm)	150:50:60	VL Popcorn-2	45.7	47.3	44.3	47.7	49.7	49.3	14.9	17.9	16.0
		KDPC-2 (Pop corn)	47.0	48.0	45.0	49.0	51.0	48.7	19.8	18.0	16.1
		VL Pop corn-C	46.0	47.0	48.3	48.0	51.7	50.7	16.2	17.6	15.9
	200:60:80	VL Popcorn-2	46.0	46.0	45.0	48.0	50.0	48.0	14.6	18.2	16.1
		KDPC-2 (Pop corn)	48.3	45.3	45.0	50.3	49.3	49.0	18.3	18.2	16.3
		VL Pop corn-C	47.3	47.0	48.0	49.3	50.7	51.3	16.0	18.0	16.0
Mean of location			46.8	46.0	46.0	48.8	49.4	49.7	17.2	18.1	16.0
Normal (60x20 cm)			46.9	45.3	46.0	48.9	48.4	49.8	17.8	18.1	16.0
High (50x20 cm)			46.7	46.8	45.9	48.7	50.4	49.5	16.6	18.0	16.1
CD at 5%			NS	0.4	NS	NS	0.7	NS	NS	0.0	NS
CV (%)			0.7	0.6	1.0	0.7	1.0	2.7	12.2	0.2	0.4
150:50:60			46.7	46.9	45.9	48.7	49.9	49.6	17.0	17.9	16.0
200:60:80			46.9	45.2	46.0	48.9	48.8	49.8	17.4	18.2	16.1
CD at 5%			NS	0.3	NS	NS	0.8	NS	NS	0.1	NS
CV (%)			1.7	0.7	2.2	1.6	1.8	1.4	6.8	0.4	1.4
VL Popcorn-2			46.2	45.7	45.5	48.2	48.9	49.5	15.3	18.1	16.0
KDPC-2 (Pop corn)			47.8	46.1	45.3	49.8	49.3	48.9	19.9	18.2	16.2
VL Pop corn-C			46.5	46.3	47.1	48.5	49.9	50.6	16.4	17.9	15.9
CD at 5%			0.8	0.4	1.3	0.8	0.6	1.1	1.6	0.0	0.2
CV (%)			1.9	1.1	3.4	1.9	1.4	2.5	10.5	0.3	1.2

Ambika.= Ambikapur
Bhub.= Bhubneshwar

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs. /ha)			B:C ratio			Popping (%)
			Ambika	Bahraich	Bhub	Ambika	Bahraich	Bhub	Bahraich
Normal (60x20 cm)	150:50:60	VL Popcorn-2	16960	43888	24153	0.67	2.99	0.43	98.8
		KDPC-2 (Pop corn)	41933	39307	30653	1.64	2.78	0.54	99.5
		VL Pop corn-C	23250	37463	7403	0.91	2.70	0.13	99.5
	200:60:80	VL Popcorn-2	19682	52463	37098	0.72	3.18	0.66	99.6
		KDPC-2 (Pop corn)	36279	46927	45681	1.33	2.95	0.81	99.3
		VL Pop corn-C	27896	42857	26487	1.02	2.78	0.47	99.4
High (50x20 cm)	150:50:60	VL Popcorn-2	19659	40253	40292	0.77	2.82	0.71	99.5
		KDPC-2 (Pop corn)	34139	36133	55376	1.34	2.64	0.98	99.3
		VL Pop corn-C	18465	34193	34209	0.72	2.55	0.61	99.5
	200:60:80	VL Popcorn-2	29529	42333	57181	1.08	2.76	1.01	99.5
		KDPC-2 (Pop corn)	33829	38423	64126	1.24	2.59	1.14	99.4
		VL Pop corn-C	33755	35660	44292	1.24	2.42	0.78	99.6
Mean of location			27948.0	40825.1	38912.6	1.06	2.76	0.69	99.4
Normal (60x20 cm)			27667	43817	28579	1.05	2.90	0.51	99.3
High (50x20 cm)			28229	37833	49246	1.07	2.63	0.87	99.5
CD at 5%			NS	288	NS	NS	0.06	NS	NS
CV (%)			8.4	0.5	45.2	8.42	1.49	45.2	0.2
150:50:60			25734	38540	32014	1.01	2.75	0.57	99.3
200:60:80			30162	43111	45811	1.10	2.78	0.81	99.5
CD at 5%			NS	433.5	12531.7	NS	0.03	0.2	NS
CV (%)			18.8	1.1	34.8	18.83	1.09	34.8	0.2
VL Popcorn-2			21458	44735	39681	0.81	2.94	0.70	99.3
KDPC-2 (Pop corn)			36545	40198	48959	1.39	2.74	0.87	99.4
VL Pop corn-C			25841	37543	28098	0.97	2.61	0.50	99.5
CD at 5%			4921.1	515.7	9266.7	0.18	0.04	0.2	NS
CV (%)			20.3	1.5	27.5	20.00	1.53	27.5	0.4

Ambika.= Ambikapur
Bhub.= Bhubneshwar

Table 12: Performance of pre release popcorn genotypes in kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)		Cob yield (kg/ha)	Stover yield (kg/ha)		Plants ('000/ ha)	Cobs ('000/ ha)
			Hyderabad	Karimnagar	Karimnagar	Hyderabad	Karimnagar	Hyderabad	
Norma (60x20 cm)	150:50:60	VL Popcorn-2	1981	3967	4606	4803	4875	77.5	72.2
		KDPC-2 (Pop corn)	2876	5921	6897	5103	6848	79.3	74.6
		VL Pop corn-C	2522	4244	4963	5843	5910	80.3	78.6
	200:60:80	VL Popcorn-2	2372	4520	5365	4967	4949	74.8	71.3
		KDPC-2 (Pop corn)	3316	6995	8079	5403	6919	78.3	76.0
		VL Pop corn-C	3185	4460	5089	6140	4477	80.0	77.6
High (50x20 cm)	150:50:60	VL Popcorn-2	2751	4047	4672	4998	5296	91.9	84.2
		KDPC-2 (Pop corn)	3700	5666	6450	5330	7411	94.3	87.8
		VL Pop corn-C	3474	4075	4701	6090	5516	89.2	85.3
	200:60:80	VL Popcorn-2	3195	4624	5299	5130	4835	97.3	91.4
		KDPC-2 (Pop corn)	3764	5893	6898	5667	6946	92.7	90.2
		VL Pop corn-C	3637	4035	4652	6303	4409	96.9	91.9
Mean of location			3064.5	4870.5	5639.2	5481.5	5699.2	86.0	81.8
Normal (60x20 cm)			2709	5018	5833	5377	5663	78.3	75.1
High (50x20 cm)			3420	4723	5445	5586	5736	93.7	88.5
CD at 5%			NS	60	303	95	NS	4.1	2.3
CV (%)			23.4	0.9	3.7	1.2	10.9	3.3	1.9
150:50:60			2884	4653	5382	5361	5976	85.4	80.5
200:60:80			3245	5088	5897	5602	5422	86.7	83.1
CD at 5%			NS	NS	NS	49.7	NS	NS	1.4
CV (%)			12.8	14.4	13.4	1.0	20.5	2.4	1.9
VL Popcorn-2			2575	4289	4985	4974	4989	85.4	79.8
KDPC-2 (Pop corn)			3414	6119	7081	5376	7031	86.1	82.2
VL Pop corn-C			3205	4203	4851	6094	5078	86.6	83.3
CD at 5%			431.2	466.4	475.5	363.0	524.5	NS	1.4
CV (%)			16.3	11.1	9.7	7.7	10.6	1.5	2.0

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	VL Popcorn-2	201.0	176.7	49.0	43.7	50.7	46.7
		KDPC-2 (Pop corn)	220.3	195.0	47.7	42.3	50.3	45.3
		VL Pop corn-C	202.0	181.0	48.3	44.7	50.0	47.7
	200:60:80	VL Popcorn-2	208.3	181.3	48.0	45.0	50.0	47.7
		KDPC-2 (Pop corn)	206.7	192.0	49.0	42.0	51.0	45.0
		VL Pop corn-C	208.7	186.7	48.3	44.7	50.3	47.7
High (50x20 cm)	150:50:60	VL Popcorn-2	199.7	169.0	49.7	45.0	51.7	47.7
		KDPC-2 (Pop corn)	215.7	176.0	51.0	42.0	53.0	45.0
		VL Pop corn-C	213.7	190.0	50.7	44.0	52.7	46.7
	200:60:80	VL Popcorn-2	205.0	187.3	50.3	44.0	52.3	46.7
		KDPC-2 (Pop corn)	214.0	192.0	50.0	42.3	52.0	45.0
		VL Pop corn-C	206.3	176.3	50.0	43.0	52.0	46.3
Mean of location			208.4	183.6	49.3	43.6	51.3	46.4
Normal (60x20 cm)			207.8	185.4	48.4	43.7	50.4	46.7
High (50x20 cm)			209.1	181.8	50.3	43.4	52.3	46.2
CD at 5%			NS	NS	1.6	NS	1.2	NS
CV (%)			0.9	8.2	2.2	2.3	1.6	2.2
150:50:60			208.7	181.3	49.4	43.6	51.4	46.5
200:60:80			208.2	185.9	49.3	43.5	51.3	46.4
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			1.8	3.9	1.4	1.2	1.0	1.7
VL Popcorn-2			203.5	178.6	49.3	44.4	51.2	47.2
KDPC-2 (Pop corn)			214.2	188.8	49.4	42.2	51.6	45.1
VL Pop corn-C			207.7	183.5	49.3	44.1	51.3	47.1
CD at 5%			4.8	NS	NS	0.8	NS	0.8
CV (%)			2.7	5.5	1.7	2.1	1.6	1.9

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Cob length cm)		Cob Girth (cm)		Grain rows/cob		Grains/row	
			Hyder.	Karim.	Hyder.	Karim.	Hyder.	Karim.	Hyder.	Karim.
Norma (60x20 cm)	150:50:60	VL Popcorn-2	16.6	16.7	10.8	11.2	14.0	12.5	36.7	37.9
		KDPC-2 (Pop corn)	17.4	16.2	10.9	12.8	13.7	14.1	38.7	35.3
		VL Pop corn-C	18.4	17.8	11.2	11.7	12.7	12.8	40.3	38.3
	200:60:80	VL Popcorn-2	16.9	15.7	11.0	11.1	14.7	13.1	37.0	34.9
		KDPC-2 (Pop corn)	17.8	16.6	11.4	13.5	13.3	14.7	40.0	36.3
		VL Pop corn-C	17.9	17.6	11.0	11.6	14.3	12.8	40.7	37.0
High (50x20 cm)	150:50:60	VL Popcorn-2	16.7	16.4	10.7	11.6	13.0	13.1	37.3	37.0
		KDPC-2 (Pop corn)	17.5	16.7	10.5	13.1	14.0	14.1	38.0	37.5
		VL Pop corn-C	17.1	17.7	10.1	11.4	12.3	13.2	40.0	38.7
	200:60:80	VL Popcorn-2	16.0	17.0	10.2	11.1	12.3	12.4	39.3	38.3
		KDPC-2 (Pop corn)	16.9	17.5	10.9	13.4	13.0	14.0	40.3	36.8
		VL Pop corn-C	17.6	17.1	11.0	11.5	14.0	13.1	40.3	37.5
Mean of location			17.2	16.9	10.8	12.0	13.4	13.3	39.1	37.1
Normal (60x20 cm)			17.5	16.8	11.1	12.0	13.8	13.3	38.9	36.6
High (50x20 cm)			17.0	17.1	10.6	12.0	13.1	13.3	39.2	37.6
CD at 5%			0.5	NS	0.2	NS	NS	NS	NS	0.7
CV (%)			1.9	5.5	0.9	2.0	6.4	1.0	4.1	1.4
150:50:60			17.3	16.9	10.7	12.0	13.3	13.3	38.5	37.5
200:60:80			17.2	16.9	10.9	12.0	13.6	13.3	39.6	36.8
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			2.3	10.0	3.7	1.6	4.3	1.9	4.5	5.8
VL Popcorn-2			16.5	16.5	10.7	11.2	13.5	12.8	37.6	37.0
KDPC-2 (Pop corn)			17.4	16.8	10.9	13.2	13.5	14.2	39.3	36.5
VL Pop corn-C			17.8	17.6	10.8	11.6	13.3	13.0	40.3	37.9
CD at 5%			0.3	0.7	NS	0.4	NS	0.7	1.5	NS
CV (%)			2.1	4.9	2.6	3.6	3.9	6.1	4.3	5.7

Hyder. = Hyderabad
Karim. = Karimnagar

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	100-seed weight (g)		Net Returns (Rs. /ha)		BC Ratio		Popping (%)	Popping volume
			Hyder.	Karim.	Hyder.	Karim.	Hyder.	Karim.	Hyderabad	
Norma (60x20 cm)	150:50:60	VL Popcorn-2	15.0	14.9	9418	76385	1.21	2.26	71.0	0.77
		KDPC-2 (Pop corn)	16.3	19.5	32102	143797	1.71	3.38	77.3	1.17
		VL Pop corn-C	17.7	14.5	23983	85962	1.53	2.42	77.7	1.19
	200:60:80	VL Popcorn-2	16.3	13.1	17618	94452	1.38	2.54	72.7	1.16
		KDPC-2 (Pop corn)	17.3	19.5	41672	179854	1.89	3.93	79.3	1.17
		VL Pop corn-C	19.0	14.9	39125	92386	1.84	2.50	80.7	1.19
High (50x20 cm)	150:50:60	VL Popcorn-2	15.0	14.0	27971	77113	1.61	2.23	67.3	1.15
		KDPC-2 (Pop corn)	15.3	17.5	52020	132950	2.14	3.13	74.7	1.17
		VL Pop corn-C	17.3	13.4	47122	78060	2.03	2.25	78.3	1.18
	200:60:80	VL Popcorn-2	16.3	13.3	37473	95986	1.79	2.51	68.3	1.17
		KDPC-2 (Pop corn)	17.0	19.3	52227	139785	2.10	3.20	74.0	1.19
		VL Pop corn-C	16.7	13.3	49697	75678	2.05	2.19	72.0	1.20
Mean of location			16.6	15.6	35869.0	106034.0	1.77	2.71	74.4	1.14
Normal (60x20 cm)			16.9	16.1	27320	112139	1.59	2.84	76.4	1.11
High (50x20 cm)			16.3	15.1	44418	99929	1.95	2.59	72.4	1.18
CD at 5%			NS	NS	NS	2054.5	NS	0.01	NS	NS
CV (%)			3.0	6.1	49.8	1.4	21.61	0.26	7.9	15.36
150:50:60			16.1	15.6	32103	99044	1.71	2.61	74.4	1.10
200:60:80			17.1	15.6	39635	113024	1.84	2.81	74.5	1.18
CD at 5%			NS	NS	NS	NS		NS	NS	NS
CV (%)			7.9	9.0	27.4	22.9	11.85	14.64	6.9	16.09
VL Popcorn-2			15.7	13.8	23120	85984	1.50	2.39	69.8	1.06
KDPC-2 (Pop corn)			16.5	18.9	44505	149096	1.96	3.41	76.3	1.18
VL Pop corn-C			17.7	14.0	39982	83022	1.86	2.34	77.2	1.19
CD at 5%			0.6	1.1	10573.1	16089.2	0.23	0.26	3.4	NS
CV (%)			4.5	7.8	34.1	17.5	14.99	11.07	5.2	15.60

Hyder. = Hyderabad
Karim. = Karimnagar

Table 13: Performance of pre release popcorn genotypes in kharif under varying planting density and nutrients levels in Central Western Zone (CWZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
			Godhra				
Normal (60x20 cm)	150:50:60	VL Popcorn-2	2445	3055	33.9	46.1	134.0
		KDPC-2 (Pop corn)	2778	2778	21.7	30.0	144.3
		VL Pop corn-C	2556	2500	32.2	43.3	142.7
	200:60:80	VL Popcorn-2	3000	3889	39.4	48.3	145.3
		KDPC-2 (Pop corn)	3111	2833	34.8	36.1	143.7
		VL Pop corn-C	1945	1944	26.7	32.8	147.0
High (50x20 cm)	150:50:60	VL Popcorn-2	3000	3667	35.3	56.0	140.5
		KDPC-2 (Pop corn)	3133	2334	24.0	30.7	137.0
		VL Pop corn-C	3467	3318	34.0	58.7	151.5
	200:60:80	VL Popcorn-2	2533	2667	33.3	40.4	139.0
		KDPC-2 (Pop corn)	3751	2333	27.3	52.7	143.0
		VL Pop corn-C	3000	2334	28.0	42.0	152.5
Mean of location			2893.1	2804.2	30.9	43.1	143.4
Normal (60x20 cm)			2639.0	2833.2	31.5	39.4	142.8
High (50x20 cm)			3147.2	2775.3	30.3	46.7	143.9
CD at 5%			433.5	NS	NS	NS	NS
CV (%)			10.4	12.7	33.1	19.3	7.1
150:50:60			2896	2942	30.2	44.1	141.7
200:60:80			2890	2667	31.6	42.0	145.1
CD at 5%			NS	NS	NS	NS	NS
CV (%)			50.4	61.4	38.7	43.9	3.5
VL Popcorn-2			2745	3319	35.5	47.7	139.7
KDPC-2 (Pop corn)			3193	2569	27.0	37.3	142.0
VL Pop corn-C			2742	2524	30.2	44.2	148.4
CD at 5%			NS	NS	NS	NS	NS
CV (%)			28.4	34.1	32.4	25.7	7.8

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
			Godhra				
Normal (60x20 cm)	150:50:60	VL Popcorn-2	48.7	51.3	11.7	103628	4.95
		KDPC-2 (Pop corn)	45.0	48.7	21.7	119600	5.56
		VL Pop corn-C	47.3	49.7	16.3	107789	5.11
	200:60:80	VL Popcorn-2	47.0	50.0	17.7	133478	6.09
		KDPC-2 (Pop corn)	44.0	48.7	18.7	136389	6.20
		VL Pop corn-C	48.0	52.0	12.3	74028	3.64
High (50x20 cm)	150:50:60	VL Popcorn-2	47.5	51.0	12.5	131100	5.67
		KDPC-2 (Pop corn)	44.0	47.5	14.5	134418	5.79
		VL Pop corn-C	48.0	50.0	17.5	153555	6.47
	200:60:80	VL Popcorn-2	47.3	50.0	17.7	107089	5.08
		KDPC-2 (Pop corn)	43.5	47.5	19.5	167139	7.37
		VL Pop corn-C	49.0	52.0	13.5	129565	5.94
Mean of location			46.6	49.9	16.1	124814.8	5.7
Normal (60x20 cm)			46.7	50.1	16.4	112485	5.3
High (50x20 cm)			46.6	49.7	15.9	137144	6.1
CD at 5%			NS	NS	NS		
CV (%)			1.3	2.6	5.4		
150:50:60			46.8	49.7	15.7	125015	5.6
200:60:80			46.5	50.0	16.6	124615	5.7
CD at 5%			NS	NS	0.6		
CV (%)			5.0	4.4	4.0		
VL Popcorn-2			47.6	50.6	14.9	118824	5.4
KDPC-2 (Pop corn)			44.1	48.1	18.6	139386	6.2
VL Pop corn-C			48.1	50.9	14.9	116234	5.3
CD at 5%			1.1	1.0	0.4		
CV (%)			2.8	2.3	3.0		

Table 14: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Green fodder yield (kg/ha)		Cob yield (kg/ha)		Plants ('000/ha)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
Normal (60x20 cm)	150:50:60	ADVSW-2	21650	21067	15079	26815	83.3	75.0
		ADVSW-1	24209	22665	15053	27582	83.3	70.4
		FSCH 41	24551	21998	16746	22086	83.3	68.9
		Madhuri-C	19083	20309	10228	17874	83.3	74.3
		WOSC -C	17817	21416	10089	16342	83.3	73.6
		Priya-C	12314	17679	10073	14681	83.3	74.1
	200:60:80	ADVSW-2	32839	23595	22356	27881	83.3	73.3
		ADVSW-1	34067	22565	20707	29991	83.3	70.0
		FSCH 41	26599	22789	19807	21122	83.3	67.7
		Madhuri-C	20784	23591	11681	18426	83.3	72.1
		WOSC -C	19042	21296	10783	18535	83.3	73.5
		Priya-C	17098	18217	12930	14195	83.3	73.0
High (50x20 cm)	150:50:60	ADVSW-2	25324	26359	21517	27398	100.0	83.0
		ADVSW-1	29701	21067	21777	28243	100.0	80.7
		FSCH 41	30271	23646	21870	24713	100.0	83.5
		Madhuri-C	21415	21989	12084	16701	100.0	83.5
		WOSC -C	16402	20528	10415	16958	100.0	87.5
		Priya-C	18067	18470	10540	15283	100.0	83.3
	200:60:80	ADVSW-2	38042	28603	26001	29030	100.0	82.4
		ADVSW-1	35364	22656	24356	34304	100.0	81.1
		FSCH 41	35978	29687	23299	28722	100.0	82.2
		Madhuri-C	24972	23518	13578	20751	100.0	85.1
		WOSC -C	24691	23140	14445	17677	100.0	83.9
		Priya-C	18339	18596	13808	20859	100.0	84.6
Mean of location			24525.8	22310	16217.6	22341	91.7	77.8
Normal (60x20 cm)			22504	21432	14628	21294	83.3	72.2
High (50x20 cm)			26547	23188	17807	23387	100.0	83.4
CD at 5%			1163.1	848.6	1032.4	469.5	0.0	2.1
CV (%)			4.7	3.8	6.3	2.1	0.0	2.7
150:50:60			21734	21433	14623	21223	91.7	78.2
200:60:80			27318	23188	17813	23458	91.7	77.4
CD at 5%			1694.4	1058.2	1579.1	1166.8	NS	NS
CV (%)			10.6	7.2	14.9	8.0	0.0	3.0
ADVSW-2			29464	24906	21238	27781	91.7	78.4
ADVSW-1			30835	22238	20473	30030	91.7	75.6
FSCH 41			29350	24530	20430	24161	91.7	75.6
Madhuri-C			21563	22352	11893	18438	91.7	78.8
WOSC -C			19488	21595	11433	17378	91.7	79.6
Priya-C			16455	18240	11838	16255	91.7	78.8
CD at 5%			1904.1	934.1	1247.7	1764.2	0.0	2.1
CV (%)			9.4	5.1	9.3	9.6	0.0	3.3

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Turcicum Leaf Blight (1-5 scale score)
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora
Normal (60x20 cm)	150:50:60	ADVSW-2	85.7	82.7	170.5	178.2	61.7	61.7	3.0
		ADVSW-1	86.9	74.1	185.7	169.4	60.7	55.7	3.0
		FSCH 41	86.3	65.9	168.4	178.5	58.7	51.7	2.7
		Madhuri-C	83.3	74.4	160.7	176.2	56.3	51.3	3.0
		WOSC -C	89.7	72.9	169.7	188.6	57.0	51.3	3.7
		Priya-C	83.3	73.9	141.6	157.9	57.3	50.3	4.0
	200:60:80	ADVSW-2	95.2	85.0	183.8	189.2	60.3	61.3	3.0
		ADVSW-1	89.6	75.0	204.8	193.9	61.0	55.7	2.7
		FSCH 41	83.3	67.4	163.8	184.6	59.0	51.3	2.7
		Madhuri-C	83.3	76.1	175.5	197.1	55.0	50.7	3.7
		WOSC -C	85.9	72.0	171.5	197.7	56.3	50.3	3.7
		Priya-C	83.3	72.2	156.4	171.3	54.7	50.0	4.0
High (50x20 cm)	150:50:60	ADVSW-2	110.7	94.3	181.5	186.0	61.0	61.7	3.0
		ADVSW-1	107.0	86.8	180.7	190.2	60.7	55.7	3.0
		FSCH 41	112.5	87.2	173.4	186.8	57.3	51.7	2.7
		Madhuri-C	100.0	85.1	177.6	182.0	54.7	50.7	4.0
		WOSC -C	105.1	82.4	176.7	199.1	56.0	50.7	3.7
		Priya-C	100.0	80.2	156.3	168.0	56.3	49.7	3.7
	200:60:80	ADVSW-2	111.9	95.7	185.1	184.0	61.7	61.7	3.7
		ADVSW-1	106.0	89.0	185.8	187.3	59.7	55.7	3.0
		FSCH 41	102.7	85.7	185.5	185.8	56.0	51.7	3.0
		Madhuri-C	100.0	82.6	180.2	190.4	53.7	50.3	4.0
		WOSC -C	114.7	81.4	179.9	185.9	57.0	50.7	4.0
		Priya-C	102.5	80.0	174.5	180.1	56.0	50.0	4.0
Mean of location			96.2	80.1	174.6	183.7	57.8	53.4	3.4
Normal (60x20 cm)			86.3	74.3	171.0	181.9	58.2	53.4	3.3
High (50x20 cm)			106.1	85.9	178.1	185.5	57.5	53.3	3.5
CD at 5%			2.8	1.4	NS	NS	NS	NS	NS
CV (%)			2.9	1.7	4.1	9.3	2.5	0.6	12.6
150:50:60			95.9	80.0	170.2	180.1	58.1	53.5	3.3
200:60:80			96.5	80.2	178.9	187.3	57.5	53.3	3.4
CD at 5%			NS	NS	7.6	5.6	NS	NS	NS
CV (%)			6.6	4.2	6.7	4.6	3.9	1.1	7.8
ADVSW-2			100.9	89.4	180.2	184.4	61.2	61.6	3.2
ADVSW-1			97.4	81.2	189.3	185.2	60.5	55.7	2.9
FSCH 41			96.2	76.5	172.8	183.9	57.8	51.6	2.8
Madhuri-C			91.7	79.5	173.5	186.4	54.9	50.8	3.7
WOSC -C			98.9	77.2	174.5	192.8	56.6	50.8	3.8
Priya-C			92.3	76.6	157.2	169.3	56.1	50.0	3.9
CD at 5%			4.7	2.7	8.8	6.6	1.4	0.5	0.4
CV (%)			5.9	4.1	6.1	4.4	2.9	1.1	12.4

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Days to 50% silking		Net returns (Rs. /ha)		B:C ratio		Total soluble solids (%)	
			Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
Normal (60x20 cm)	150:50:60	ADVSW-2	64.7	63.7	346734	105771	7.3	3.88	20.3	17.2
		ADVSW-1	63.7	57.7	348088	110243	7.3	4.00	17.6	18.2
		FSCH 41	61.3	53.7	390711	82498	8.2	3.25	18.6	18.3
		Madhuri-C	59.7	53.3	223458	85400	4.7	3.32	19.9	18.8
		WOSC -C	60.0	53.3	218825	53542	4.6	2.46	21.3	19.0
		Priya-C	61.0	52.3	214173	43742	4.5	2.19	19.8	19.5
	200:60:80	ADVSW-2	63.3	63.3	537366	110305	11.2	3.86	19.6	18.2
		ADVSW-1	64.0	57.7	497269	120444	10.4	4.13	18.0	17.1
		FSCH 41	62.0	53.3	468936	76187	9.9	2.98	18.6	17.4
		Madhuri-C	58.0	52.7	261129	63025	5.5	2.64	20.9	18.0
		WOSC -C	58.0	52.3	237237	62654	5.0	2.63	20.9	19.0
		Priya-C	58.3	52.0	289412	39724	6.1	2.03	19.6	19.1
High (50x20 cm)	150:50:60	ADVSW-2	63.3	63.7	506634	110399	9.8	3.97	18.9	18.2
		ADVSW-1	63.3	57.7	516719	112511	10.0	4.03	17.3	18.2
		FSCH 41	60.3	53.7	519367	95889	10.1	3.58	19.0	18.4
		Madhuri-C	57.7	52.7	267938	55169	5.2	2.49	18.8	19.4
		WOSC -C	59.7	52.7	222086	55870	4.3	2.50	19.6	19.4
		Priya-C	59.7	51.7	226669	46669	4.4	2.26	20.1	18.4
	200:60:80	ADVSW-2	64.3	63.7	628887	117651	12.2	4.02	20.3	17.7
		ADVSW-1	62.7	57.7	585766	141643	11.4	4.64	19.5	18.1
		FSCH 41	59.0	53.7	559897	116545	10.9	3.99	19.2	18.2
		Madhuri-C	56.7	52.3	308143	74224	6.0	2.91	21.2	19.2
		WOSC -C	60.3	52.7	329233	58703	6.4	2.51	23.6	19.2
		Priya-C	58.7	52.0	308532	72795	6.0	2.87	18.2	19.2
Mean of location			60.8	55.4	375550	83817	7.6	3.21	19.6	18.5
Normal (60x20 cm)			61.2	55.4	336111	79461	7.1	3.11	19.6	18.3
High (50x20 cm)			60.5	55.3	414989	88172	8.1	3.31	19.6	18.6
CD at 5%			NS	NS	25528.8	NS	0.5	NS	0.0	NS
CV (%)			3.7	0.6	6.7	11.5	6.8	8.2	0.1	11.2
150:50:60			61.2	55.5	333450	79809	6.7	3.16	19.3	18.6
200:60:80			60.4	55.3	417651	87825	8.4	3.27	20.0	18.4
CD at 5%			NS	NS	40008	NS	0.8	NS	NS	NS
CV (%)			3.9	1.1	16.3	17.4	15.8	12.6	7.4	6.1
ADVSW-2			63.9	63.6	504905	111032	10.1	3.93	19.8	17.8
ADVSW-1			63.4	57.7	486960	121210	9.8	4.20	18.1	17.9
FSCH 41			60.7	53.6	484728	92780	9.8	3.45	18.8	18.1
Madhuri-C			58.0	52.8	265167	69454	5.4	2.84	20.2	18.9
WOSC -C			59.5	52.8	251845	57692	5.1	2.52	21.4	19.2
Priya-C			59.4	52.0	259697	50733	5.3	2.34	19.4	19.1
CD at 5%			1.6	0.5	32216.4	11393.2	0.6	0.3	1.1	0.8
CV (%)			3.1	1.1	10.4	16.5	10.2	11.5	6.6	5.2

Table 15: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P_2O_5:K_2O	Genotypes	Cob yield (kg/ha)	Green fodder yield (Kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	BC ratio
			Ludhiana								
High (60x20 cm)	200:65:80	ADVSW-2	13263	22741	81.5	81.9	163.7	61.0	62.7	55930	1.27
		ADVSW-1	10581	16519	80.0	82.2	162.0	65.0	66.7	34241	0.78
		FSCH 41	12878	21852	80.4	80.4	165.0	60.7	62.3	52819	1.20
		Madhuri-C	12778	21593	80.4	81.5	153.0	60.3	62.0	51986	1.18
		WOSC -C	9633	24000	80.7	84.1	168.0	58.0	59.7	35286	0.80
		Priya-C	10626	16667	81.1	84.1	148.0	59.0	60.7	34641	0.79
	250:80:100	ADVSW-2	12363	21741	79.6	82.2	169.7	60.0	61.3	47996	1.05
		ADVSW-1	10837	18111	81.1	82.2	165.0	64.3	65.7	35574	0.78
		FSCH 41	13085	23519	80.4	81.9	168.3	59.3	60.7	53930	1.18
		Madhuri-C	13056	23407	78.5	78.9	158.0	59.7	61.0	53652	1.17
		WOSC -C	9704	25185	79.6	81.5	173.3	57.3	59.0	35141	0.77
		Priya-C	11737	20259	80.7	81.9	152.0	58.3	59.7	42907	0.94
Normal (50x20 cm)	200:65:80	ADVSW-2	12848	23074	98.1	98.9	165.7	61.7	63.7	53207	1.19
		ADVSW-1	10767	18074	98.1	98.5	168.3	66.0	68.0	36219	0.81
		FSCH 41	13200	23926	97.0	97.8	169.3	61.0	63.0	56085	1.26
		Madhuri-C	13241	23963	98.1	95.9	158.7	60.3	62.3	56363	1.26
		WOSC -C	10167	26185	97.4	96.7	170.3	59.0	61.7	39919	0.89
		Priya-C	11015	18667	96.7	97.0	150.7	60.0	62.0	38241	0.86
	250:80:100	ADVSW-2	13470	25926	96.7	96.7	171.0	61.0	63.0	57873	1.25
		ADVSW-1	10981	19704	95.6	95.6	167.3	65.0	66.7	37340	0.81
		FSCH 41	13233	25333	97.8	98.5	169.3	60.3	62.0	55918	1.21
		Madhuri-C	13889	26963	97.0	95.6	160.0	60.0	61.7	61318	1.32
		WOSC -C	10207	27741	96.7	98.9	175.7	58.3	60.3	39929	0.86
		Priya-C	11893	21963	97.0	96.7	158.0	59.7	60.3	44840	0.97
Mean of location			11893.8	22379.6	88.8	89.6	163.8	60.6	62.3	46306.5	1.02
Normal (60x20 cm)			11712	21299	80.3	81.9	162.2	60.3	61.8	44509	0.99
High (50x20 cm)			12076	23460	97.2	97.2	165.4	61.0	62.9	48104	1.06
CD at 5%			NS	NS	1.4	2.1	NS	0.3	1.0	NS	NS
CV (%)			9.3	12.5	1.5	2.3	3.6	0.5	1.6	19.7	19.7
200:65:80			11750	21438	89.1	89.9	161.9	61.0	62.9	45412	1.02
250:80:100			12038	23321	88.4	89.2	165.6	60.3	61.8	47202	1.03
CD at 5%			NS	882.9	NS	NS	NS	0.6	0.9	NS	NS
CV (%)			3.8	6.0	3.3	4.2	8.6	1.5	2.3	8.5	8.2
ADVSW-2			12986	23370	89.0	89.9	167.5	60.9	62.7	53752	1.19
ADVSW-1			10792	18102	88.7	89.6	165.7	65.1	66.8	35844	0.79
FSCH 41			13099	23657	88.9	89.6	168.0	60.3	62.0	54688	1.21
Madhuri-C			13241	23981	88.5	88.0	157.4	60.1	61.8	55830	1.23
WOSC -C			9928	25778	88.6	90.3	171.8	58.2	60.2	37569	0.83
Priya-C			11318	19389	88.9	89.9	152.2	59.3	60.7	40157	0.89
CD at 5%			536.3	1364.9	NS	NS	5.6	0.7	0.9	4438.5	0.1
CV (%)			5.5	7.4	2.1	3.0	4.1	1.5	1.8	11.6	11.6

Table 16: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

$N:P_2O_5:K_2O$	Germplasm	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Cob length (cm)	Grains rows/cob	Grains/ row
		Delhi							
100:40:30	ADVSW-2	1955	2815	44.4	46.7	123.0	13.6	14.6	23.3
	ADVSW-1	1374	1852	48.1	48.1	128.5	12.9	15.2	26.2
	FSCH 41	1968	2593	54.8	58.5	121.0	12.4	13.0	32.0
	Madhuri-C	1940	2444	55.6	62.2	125.5	11.4	11.6	29.1
	WOSC -C	1531	1926	45.2	59.3	123.5	11.9	12.2	28.3
	Priya-C	1715	2148	54.1	67.4	109.0	11.3	13.0	25.0
150:50:40	ADVSW-2	1919	2667	45.2	45.2	125.0	15.9	14.4	31.2
	ADVSW-1	2442	3333	61.5	55.6	132.5	12.8	15.8	30.0
	FSCH 41	1162	1556	37.8	43.0	121.0	13.3	11.8	30.3
	Madhuri-C	1212	1481	57.8	57.0	128.5	13.6	12.2	26.4
	WOSC -C	1459	1852	41.5	50.4	128.0	13.0	12.8	27.5
	Priya-C	1391	1704	60.0	68.1	123.0	11.1	11.4	25.7
200:60:50	ADVSW-2	1126	1704	40.7	47.4	129.0	15.1	15.4	26.3
	ADVSW-1	2467	3333	63.0	60.0	146.0	13.9	16.2	27.9
	FSCH 41	2442	3185	49.6	58.5	134.5	13.2	13.2	34.6
	Madhuri-C	1897	2444	56.3	65.2	130.0	12.3	11.8	28.1
	WOSC -C	1247	1630	42.2	53.3	129.5	12.7	12.2	28.2
	Priya-C	1472	1926	73.3	85.2	120.0	11.0	12.4	21.8
Location mean		1706.7	2255.1	51.7	57.3	126.5	12.8	13.3	27.9
C.D.(5%) AiBj-AiBk		663.6	896.7	28.3	23.3	19.3	1.5	1.6	5.4
C.D.(5%) AiBk-AjBk		684.4	911.5	32.6	33.1	25.2	4.0	1.9	5.0
F(5%)		s	s	NS	NS	NS	NS	NS	NS
100:40:30		1747	2296	50.4	57.0	121.8	12.2	13.3	27.3
150:50:40		1598	2099	50.6	53.2	126.3	13.3	13.1	28.5
200:60:50		1775	2370	54.2	61.6	131.5	13.0	13.5	27.8
C.D. (5%) Ai-Aj		363.9	459.0	22.3	28.0	20.0	3.9	1.3	0.9
C.V. (%) Error A		12.1	11.6	24.6	27.8	9.0	17.5	5.6	1.8
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS
ADVSW-2		1667	2395	43.5	46.4	125.7	14.9	14.8	26.9
ADVSW-1		2094	2840	57.5	54.6	135.7	13.2	15.7	28.0
FSCH 41		1857	2444	47.4	53.3	125.5	13.0	12.7	32.3
Madhuri-C		1683	2123	56.5	61.5	128.0	12.4	11.9	27.9
WOSC -C		1412	1802	43.0	54.3	127.0	12.5	12.4	28.0
Priya-C		1526	1926	62.5	73.6	117.3	11.1	12.3	24.2
C.D. (5%) Bi-Bj		383.1	517.7	16.4	13.4	11.2	0.9	0.9	3.1
C.V. (%) ErrorB		18.2	18.7	25.7	19.1	7.2	5.4	5.7	9.2
F (5%)		s	s	NS	s	NS	s	s	s

Table 17: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Cob yield (kg/ha)		Green fodder yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	
			Ambikapur	Bahraich	Ambikapur	Bahraich	Ambikapur	Bahraich
Normal (60x20 cm)	150:50:60	ADVSW-2	10689	2890	13254	3893	77.8	82.3
		ADVSW-1	13755	2797	17057	3697	78.5	82.4
		FSCH 41	9864	2983	12231	3910	77.8	82.2
		Madhuri-C	15720	2647	19493	3600	79.2	82.2
		WOSC -C	12022	2897	14907	3820	79.9	82.4
		Priya-C	11328	2893	14047	3373	79.9	82.1
	200:60:80	ADVSW-2	11592	3730	14721	4317	79.2	82.4
		ADVSW-1	13755	3567	17469	4163	80.6	82.5
		FSCH 41	14300	3260	18161	3867	78.5	82.4
		Madhuri-C	18178	3257	23086	3890	78.5	82.6
		WOSC -C	13823	3407	17556	4000	78.5	82.5
		Priya-C	11917	3640	15134	4247	77.8	82.4
High (50x20 cm)	150:50:60	ADVSW-2	9967	2613	12159	3550	95.8	98.6
		ADVSW-1	17460	2577	21301	3510	93.8	98.4
		FSCH 41	13774	2810	16804	3643	95.8	98.3
		Madhuri-C	16199	2503	19763	3355	95.8	98.4
		WOSC -C	13774	2590	16804	3460	96.5	98.3
		Priya-C	10767	2783	13136	3713	97.9	98.4
	200:60:80	ADVSW-2	11333	3290	14053	3870	96.5	98.3
		ADVSW-1	16867	3370	20915	3940	96.5	92.9
		FSCH 41	16700	3453	20708	4030	95.1	98.2
		Madhuri-C	20667	3140	25627	3867	95.1	98.2
		WOSC -C	13200	3243	16368	3953	93.8	98.1
		Priya-C	11990	3373	14868	4013	96.5	98.1
Mean of location			13735.0	3071.4	17067.6	3820.1	87.3	90.1
Normal (60x20 cm)			13079	3164	16426	3898	78.8	82.4
High (50x20 cm)			14391	2979	17709	3742	95.8	97.9
CD at 5%			613.6	111.8	719.6	111.5	2.2	1.9
CV (%)			4.4	3.6	4.2	2.9	2.5	2.1
150:50:60			12943	2749	15913	3627	87.4	90.4
200:60:80			14527	3394	18222	4013	87.2	89.9
CD at 5%			1274.0	543.0	1601.2	125.7	NS	NS
CV (%)			14.2	27.0	14.3	5.0	2.7	2.2
ADVSW-2			10895	3131	13547	3908	87.3	90.4
ADVSW-1			15459	3078	19185	3828	87.3	89.1
FSCH 41			13659	3127	16976	3863	86.8	90.3
Madhuri-C			17691	2887	21992	3678	87.2	90.3
WOSC -C			13205	3034	16409	3808	87.2	90.3
Priya-C			11500	3173	14296	3837	88.0	90.3
CD at 5%			1499.9	32.3	1864.6	69.1	NS	NS
CV (%)			13.2	1.3	13.2	2.2	2.8	2.1

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Cob yield (kg/ha)		Green fodder yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	
			Ambikapur	Bahraich	Ambikapur	Bahraich	Ambikapur	Bahraich
Normal (60x20 cm)	150:50:60	ADVSW-2	10689	2890	13254	3893	77.8	82.3
		ADVSW-1	13755	2797	17057	3697	78.5	82.4
		FSCH 41	9864	2983	12231	3910	77.8	82.2
		Madhuri-C	15720	2647	19493	3600	79.2	82.2
		WOSC -C	12022	2897	14907	3820	79.9	82.4
		Priya-C	11328	2893	14047	3373	79.9	82.1
	200:60:80	ADVSW-2	11592	3730	14721	4317	79.2	82.4
		ADVSW-1	13755	3567	17469	4163	80.6	82.5
		FSCH 41	14300	3260	18161	3867	78.5	82.4
		Madhuri-C	18178	3257	23086	3890	78.5	82.6
		WOSC -C	13823	3407	17556	4000	78.5	82.5
		Priya-C	11917	3640	15134	4247	77.8	82.4
High (50x20 cm)	150:50:60	ADVSW-2	9967	2613	12159	3550	95.8	98.6
		ADVSW-1	17460	2577	21301	3510	93.8	98.4
		FSCH 41	13774	2810	16804	3643	95.8	98.3
		Madhuri-C	16199	2503	19763	3355	95.8	98.4
		WOSC -C	13774	2590	16804	3460	96.5	98.3
		Priya-C	10767	2783	13136	3713	97.9	98.4
	200:60:80	ADVSW-2	11333	3290	14053	3870	96.5	98.3
		ADVSW-1	16867	3370	20915	3940	96.5	92.9
		FSCH 41	16700	3453	20708	4030	95.1	98.2
		Madhuri-C	20667	3140	25627	3867	95.1	98.2
		WOSC -C	13200	3243	16368	3953	93.8	98.1
		Priya-C	11990	3373	14868	4013	96.5	98.1
Mean of location			13735.0	3071.4	17067.6	3820.1	87.3	90.1
Normal (60x20 cm)			13079	3164	16426	3898	78.8	82.4
High (50x20 cm)			14391	2979	17709	3742	95.8	97.9
CD at 5%			613.6	111.8	719.6	111.5	2.2	1.9
CV (%)			4.4	3.6	4.2	2.9	2.5	2.1
150:50:60			12943	2749	15913	3627	87.4	90.4
200:60:80			14527	3394	18222	4013	87.2	89.9
CD at 5%			1274.0	543.0	1601.2	125.7	NS	NS
CV (%)			14.2	27.0	14.3	5.0	2.7	2.2
ADVSW-2			10895	3131	13547	3908	87.3	90.4
ADVSW-1			15459	3078	19185	3828	87.3	89.1
FSCH 41			13659	3127	16976	3863	86.8	90.3
Madhuri-C			17691	2887	21992	3678	87.2	90.3
WOSC -C			13205	3034	16409	3808	87.2	90.3
Priya-C			11500	3173	14296	3837	88.0	90.3
CD at 5%			1499.9	32.3	1864.6	69.1	NS	NS
CV (%)			13.2	1.3	13.2	2.2	2.8	2.1

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% silking		100 seed weight in (g)	Net returns (Rs./ha)		BC ratio		Popping (%)
			Ambikapur	Bahraich	Bahraich	Ambikapur	Bahraich	Ambikapur	Bahraich	Bahraich
Normal (60x20 cm)	150:50:60	ADVSW-2	47.7	51.7	17.0	79702	39693	2.61	2.80	99.4
		ADVSW-1	52.3	52.3	17.2	111318	37707	3.65	2.71	99.4
		FSCH 41	50.3	51.0	17.3	71196	41577	2.33	2.88	99.4
		Madhuri-C	53.3	53.0	16.9	131578	34533	4.31	2.57	99.3
		WOSC -C	48.3	51.7	17.0	93442	39087	3.06	2.80	99.3
		Priya-C	48.7	52.3	17.2	86292	39240	2.83	2.78	99.6
	200:60:80	ADVSW-2	48.3	51.0	18.0	87297	49717	2.70	3.06	99.4
		ADVSW-1	53.7	52.0	18.2	109621	45997	3.39	2.91	99.4
		FSCH 41	52.7	50.7	18.2	115240	39400	3.57	2.64	99.4
		Madhuri-C	53.3	52.0	17.9	155255	41290	4.81	2.66	99.3
		WOSC -C	49.3	53.0	18.0	110322	42767	3.42	2.78	99.4
		Priya-C	48.7	51.0	18.2	90650	47700	2.81	2.98	99.6
High (50x20 cm)	150:50:60	ADVSW-2	48.7	53.7	16.9	72207	33817	2.37	2.53	99.5
		ADVSW-1	51.7	53.3	17.0	149425	33043	4.90	2.50	99.5
		FSCH 41	51.3	51.7	17.0	111441	37843	3.65	2.71	99.5
		Madhuri-C	53.7	53.0	16.8	136431	31422	4.47	2.42	99.6
		WOSC -C	49.3	51.3	17.0	111441	33260	3.65	2.51	99.5
		Priya-C	49.0	52.3	16.9	80454	37380	2.64	2.70	99.4
	200:60:80	ADVSW-2	50.0	52.0	17.8	84547	40237	2.62	2.67	99.5
		ADVSW-1	53.7	52.7	17.9	141595	41707	4.38	2.73	99.6
		FSCH 41	52.7	52.0	18.1	139877	43563	4.33	2.81	99.3
		Madhuri-C	55.0	53.3	17.7	180773	35867	5.60	2.49	99.7
		WOSC -C	49.3	51.0	17.9	103792	38020	3.21	2.58	99.5
		Priya-C	49.0	49.7	18.0	91317	41813	2.83	2.74	99.5
Mean of location			50.8	52.0	17.5	110217.3	39444.9	3.51	2.71	99.5
Normal (60x20 cm)			50.6	51.8	17.6	103493	41559	3.29	2.80	99.4
High (50x20 cm)			51.1	52.2	17.4	116942	37331	3.72	2.62	99.5
CD at 5%			0.1	NS	0.1	6315.6	1780.4	0.19	0.06	NS
CV (%)			0.2	2.9	0.6	5.7	4.5	5.40	2.02	0.3
150:50:60			50.4	52.3	17.0	102911	36550	3.37	2.66	99.4
200:60:80			51.3	51.7	18.0	117524	42340	3.64	2.75	99.5
CD at 5%			0.5	0.1	0.1	13139.9	535.5	NS	0.02	NS
CV (%)			1.5	0.3	0.5	18.2	2.1	17.24	1.09	0.3
ADVSW-2			48.7	52.1	17.4	80938	40866	2.58	2.77	99.4
ADVSW-1			52.8	52.6	17.5	127990	39613	4.08	2.71	99.5
FSCH 41			51.8	51.3	17.6	109439	40596	3.47	2.76	99.4
Madhuri-C			53.8	52.8	17.3	151009	35778	4.80	2.54	99.5
WOSC -C			49.1	51.8	17.5	104749	38283	3.34	2.67	99.4
Priya-C			48.8	51.3	17.6	87178	41533	2.78	2.80	99.5
CD at 5%			0.7	0.5	0.0	15464.6	612.3	0.49	0.02	NS
CV (%)			1.6	1.1	0.3	17.0	1.9	17.08	0.71	0.1

Table 18: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

N:P2O5:K2O	Density	Genotypes	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% silking
			Dholi				
120:50:60	Normal (60x20 cm)	ADVSW-2	15323	81.6	81.3	165.7	61.0
		ADVSW-1	16500	80.7	81.1	150.3	62.0
		FSCH 41	19253	81.3	104.0	169.0	64.7
		Madhuri-C	13070	82.2	82.7	171.3	65.0
		WOSC -C	14035	80.9	82.2	152.0	64.7
		Priya-C	14694	82.2	82.2	159.7	63.0
	High (50x20 cm)	ADVSW-2	18803	96.4	96.2	167.3	62.3
		ADVSW-1	17127	94.9	95.1	169.7	64.7
		FSCH 41	18658	94.9	94.9	171.7	65.0
		Madhuri-C	16318	94.9	94.9	170.7	50.0
		WOSC -C	17729	95.1	94.4	163.3	61.7
		Priya-C	17473	98.0	97.8	161.7	59.7
150:50:60	Normal (60x20 cm)	ADVSW-2	15105	82.0	81.8	171.3	65.3
		ADVSW-1	16400	80.9	80.7	170.7	66.7
		FSCH 41	13573	80.7	79.8	168.3	65.0
		Madhuri-C	14734	82.0	81.6	170.3	65.3
		WOSC -C	16400	79.6	80.7	154.3	58.7
		Priya-C	13573	82.4	79.8	157.0	61.0
	High (50x20 cm)	ADVSW-2	14734	94.7	81.6	166.0	63.3
		ADVSW-1	15018	96.0	80.4	168.3	67.0
		FSCH 41	13719	97.3	82.0	156.7	65.3
		Madhuri-C	17323	97.1	94.4	151.3	65.0
		WOSC -C	17130	98.0	95.3	162.7	64.3
		Priya-C	17417	99.1	96.2	148.0	65.0
Mean of location			16004.5	88.9	87.5	163.2	63.2
120:50:60			16582	88.6	90.6	164.4	62.0
150:50:60			15427	89.1	84.5	162.1	64.3
CD at 5%			NS	NS	NS	NS	0.8
CV (%)			14.7	1.2	10.6	3.5	1.3
Normal (60x20 cm)			15222	81.4	83.1	163.3	63.5
High (50x20 cm)			16787	96.4	91.9	163.1	62.8
CD at 5%			696.3	1.2	5.6	NS	0.7
CV (%)			6.6	2.0	9.7	1.6	1.7
ADVSW-2			15991	88.7	85.2	167.6	63.0
ADVSW-1			16261	88.1	84.3	164.8	65.1
FSCH 41			16301	88.6	90.2	166.4	65.0
Madhuri-C			15361	89.1	88.4	165.9	61.3
WOSC -C			16324	88.4	88.2	158.1	62.3
Priya-C			15789	90.4	89.0	156.6	62.2
CD at 5%			NS	1.2	NS	2.7	1.0
CV (%)			10.3	1.6	9.7	2.0	2.0

Table 19: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Green cob yield with husk (kg/ha)		Green cob yield without husk (kg/ha)		Green fodder Yield (kg/ha)	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	ADVSW-2	22620	2338	19297	1909	26165	1792
		ADVSW-1	24380	2523	21393	1952	26130	1750
		FSCH 41	19337	1094	17727	827	19950	1146
		Madhuri-C	16293	1413	15217	1070	18130	1083
		WOSC -C	17873	1502	16790	1224	19283	1153
		Priya-C	16793	1821	15550	1002	18520	903
	200:60:80	ADVSW-2	23793	2056	21627	1608	28130	1514
		ADVSW-1	25383	2524	21993	1968	25187	2208
		FSCH 41	19773	1086	18500	800	20397	1083
		Madhuri-C	17893	1500	15923	1099	18330	1549
		WOSC -C	20280	1325	17250	987	20507	1111
		Priya-C	17623	1169	16563	842	18870	1167
High (50x20 cm)	150:50:60	ADVSW-2	19020	2740	18570	2223	22640	1910
		ADVSW-1	22503	2914	19833	2180	20920	1847
		FSCH 41	18107	1508	18347	1178	17380	948
		Madhuri-C	18147	1937	17210	1396	18090	1354
		WOSC -C	18407	1526	18513	1297	18278	1292
		Priya-C	16280	1585	15120	1335	18293	1049
	200:60:80	ADVSW-2	20230	2554	20467	1936	24140	1819
		ADVSW-1	20289	2251	19537	1685	21490	1847
		FSCH 41	19293	1449	18413	1103	18503	861
		Madhuri-C	19417	1564	17857	1168	18397	1208
		WOSC -C	18637	1796	18430	1372	18317	1292
		Priya-C	17426	1278	16403	1014	18770	958
Mean of location			19574.9	1810.5	18188.8	1382.3	20617.4	1368.5
Normal (60x20 cm)			20170	1696	18153	1274	21633	1372
High (50x20 cm)			18980	1925	18225	1491	19602	1365
CD at 5%			NS	NS	NS	180.5	662.9	NS
CV (%)			6.1	19.4	5.7	12.9	3.2	18.2
150:50:60			19147	1908	17797	1466	20315	1352
200:60:80			20003	1713	18580	1299	20920	1385
CD at 5%			668.6	33.9	146.6	78.1	572.0	NS
CV (%)			5.2	2.9	1.2	8.6	4.2	13.5
ADVSW-2			21416	2422	19990	1919	25269	1759
ADVSW-1			23139	2553	20689	1946	23432	1913
FSCH 41			19127	1284	18247	977	19058	1010
Madhuri-C			17938	1603	16552	1183	18237	1299
WOSC -C			18799	1537	17746	1220	19096	1212
Priya-C			17031	1463	15909	1048	18613	1019
CD at 5%			890.7	278.5	794.2	202.1	1181.1	161.7
CV (%)			5.5	18.6	5.3	17.7	6.9	14.3

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	ADVSW-2	74.5	63.2	77.1	68.1	208.3	205.0
		ADVSW-1	78.1	61.8	76.6	65.3	231.0	216.7
		FSCH 41	78.3	36.8	74.7	52.8	205.7	199.0
		Madhuri-C	74.9	63.9	76.0	82.6	212.0	189.3
		WOSC -C	80.9	67.4	72.4	84.0	203.0	196.0
		Priya-C	77.8	68.1	74.5	84.7	184.7	162.3
	200:60:80	ADVSW-2	81.8	52.1	73.9	65.3	224.0	199.7
		ADVSW-1	82.4	62.5	78.8	59.0	243.3	187.7
		FSCH 41	76.9	35.4	79.1	52.1	205.3	183.7
		Madhuri-C	79.0	71.5	78.1	84.0	207.0	200.3
		WOSC -C	79.8	61.1	73.8	79.2	225.0	194.0
		Priya-C	84.3	66.7	79.7	72.2	199.3	166.0
High (50x20 cm)	150:50:60	ADVSW-2	86.0	75.0	84.7	73.3	227.7	203.3
		ADVSW-1	93.2	75.8	87.8	79.2	243.3	205.3
		FSCH 41	93.6	50.0	85.0	57.5	212.0	208.0
		Madhuri-C	88.1	82.5	89.7	95.8	214.0	187.7
		WOSC -C	86.7	85.8	86.7	110.8	217.0	180.0
		Priya-C	94.2	90.8	89.1	100.0	200.3	159.3
	200:60:80	ADVSW-2	84.1	67.5	84.9	75.0	220.3	205.0
		ADVSW-1	91.8	56.7	89.6	68.3	228.0	205.3
		FSCH 41	84.6	47.5	90.9	57.5	222.7	203.7
		Madhuri-C	80.9	75.8	91.0	85.0	202.3	187.7
		WOSC -C	90.5	85.8	87.2	97.5	189.7	201.3
		Priya-C	91.8	71.7	89.3	90.8	191.3	177.3
Mean of location			83.9	65.6	82.1	76.7	213.2	192.7
Normal (60x20 cm)			79.1	59.2	76.2	70.8	212.4	191.6
High (50x20 cm)			88.8	72.1	88.0	82.6	214.1	193.7
CD at 5%			4.3	9.5	0.8	5.8	NS	NS
CV (%)			5.0	14.2	1.0	7.5	6.9	5.4
150:50:60			83.8	68.4	81.2	79.5	213.3	192.7
200:60:80			84.0	62.9	83.0	73.8	213.2	192.6
CD at 5%			NS	3.3	0.5	4.7	NS	NS
CV (%)			2.5	7.7	0.9	9.3	5.8	4.7
ADVSW-2			81.6	64.4	80.2	70.4	220.1	203.3
ADVSW-1			86.4	64.2	83.2	68.0	236.4	203.8
FSCH 41			83.4	42.4	82.4	55.0	211.4	198.6
Madhuri-C			80.7	73.4	83.7	86.9	208.8	191.3
WOSC -C			84.5	75.0	80.0	92.9	208.7	192.8
Priya-C			87.0	74.3	83.1	86.9	193.9	166.3
CD at 5%			3.5	6.9	2.2	7.0	9.4	7.3
CV (%)			5.1	12.7	3.2	11.0	5.4	4.6

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to5 0% tasseling		Days to 50% silking		Cob length (cm)	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	ADVSW-2	49.0	44.7	48.7	47.7	19.0	20.0
		ADVSW-1	50.0	45.3	51.7	48.3	20.3	20.1
		FSCH 41	49.0	45.7	51.0	48.7	16.7	17.3
		Madhuri-C	49.7	44.3	51.7	48.3	18.3	18.4
		WOSC -C	50.3	43.7	52.0	46.7	19.3	18.9
		Priya-C	49.7	43.7	51.7	46.7	16.7	16.5
	200:60:80	ADVSW-2	50.7	45.0	53.3	48.0	20.3	20.3
		ADVSW-1	51.0	44.7	53.0	47.7	19.8	20.6
		FSCH 41	52.0	45.3	53.7	48.3	18.3	17.1
		Madhuri-C	51.3	44.3	52.7	46.7	17.3	17.8
		WOSC -C	52.0	44.3	53.7	47.3	19.8	19.1
		Priya-C	51.7	43.7	53.0	46.7	17.3	16.7
High (50x20 cm)	150:50:60	ADVSW-2	50.3	44.3	51.7	47.3	17.7	19.5
		ADVSW-1	49.3	44.7	51.0	47.7	19.0	20.5
		FSCH 41	49.3	45.3	51.3	48.3	17.7	17.3
		Madhuri-C	50.0	43.3	51.7	46.3	19.0	19.0
		WOSC -C	50.0	45.3	52.7	48.3	16.8	17.8
		Priya-C	49.7	44.3	52.0	47.3	16.0	15.9
	200:60:80	ADVSW-2	52.7	45.3	54.7	48.3	18.3	20.0
		ADVSW-1	52.3	45.0	54.3	48.0	18.7	20.9
		FSCH 41	52.0	45.3	54.0	48.3	18.7	17.2
		Madhuri-C	52.7	44.0	54.7	47.0	17.3	17.4
		WOSC -C	52.3	44.3	54.3	47.3	18.0	17.5
		Priya-C	52.3	44.0	54.3	47.3	17.3	16.4
Mean of location			50.8	44.6	52.6	47.6	18.2	18.4
Normal (60x20 cm)			50.5	44.6	52.2	47.6	18.6	18.6
High (50x20 cm)			51.1	44.6	53.1	47.6	17.9	18.3
CD at 5%			NS	NS	0.8	NS	NS	NS
CV (%)			1.8	1.0	1.6	1.0	5.7	4.8
150:50:60			49.7	44.6	51.4	47.6	18.0	18.4
200:60:80			51.9	44.6	53.8	47.6	18.4	18.4
CD at 5%			0.5	NS	0.8	NS	NS	NS
CV (%)			1.6	1.2	2.4	1.8	4.4	2.6
ADVSW-2			50.7	44.8	52.1	47.8	18.8	20.0
ADVSW-1			50.7	44.9	52.5	47.9	19.5	20.5
FSCH 41			50.6	45.4	52.5	48.4	17.8	17.2
Madhuri-C			50.9	44.0	52.7	47.1	18.0	18.1
WOSC -C			51.2	44.4	53.2	47.4	18.5	18.4
Priya-C			50.8	43.9	52.8	47.0	16.8	16.4
CD at 5%			NS	0.7	NS	0.7	0.8	0.8
CV (%)			2.0	1.9	2.0	1.8	5.6	5.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Cob Girth (cm)		Grain rows/cob		Grains/row	
			Hyderabad	Karimnagar	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	ADVSW-2	16.0	17.8	17.3	16.8	38.3	34.6
		ADVSW-1	16.0	17.2	18.0	18.1	38.0	38.1
		FSCH 41	15.0	15.1	12.7	12.9	36.7	33.7
		Madhuri-C	14.3	14.0	12.7	13.5	37.7	31.1
		WOSC -C	14.3	14.3	14.7	13.9	34.3	35.3
		Priya-C	14.0	13.2	14.0	13.6	36.0	31.8
	200:60:80	ADVSW-2	16.0	17.7	17.3	16.8	34.7	36.0
		ADVSW-1	17.7	18.1	14.0	18.1	41.7	37.7
		FSCH 41	15.7	14.4	14.0	13.6	37.0	34.2
		Madhuri-C	14.3	13.7	13.3	14.0	37.3	31.5
		WOSC -C	14.3	13.9	14.7	14.0	42.0	33.4
		Priya-C	15.3	12.4	14.7	13.3	37.0	30.6
High (50x20 cm)	150:50:60	ADVSW-2	16.7	17.9	16.7	17.1	38.7	35.0
		ADVSW-1	15.3	17.7	13.3	16.9	42.3	35.3
		FSCH 41	16.3	15.5	13.3	13.2	37.7	34.6
		Madhuri-C	14.0	13.5	12.7	12.9	36.0	35.3
		WOSC -C	14.3	13.8	15.3	13.0	44.0	35.2
		Priya-C	13.7	13.1	14.0	13.5	34.7	25.9
	200:60:80	ADVSW-2	17.0	17.4	19.3	17.3	39.3	35.9
		ADVSW-1	15.7	17.6	16.7	16.9	39.7	36.7
		FSCH 41	16.5	15.4	14.0	13.5	40.7	33.5
		Madhuri-C	13.7	13.4	12.7	13.1	41.0	31.2
		WOSC -C	16.5	14.2	14.7	13.7	38.0	34.3
		Priya-C	17.0	12.9	14.7	13.3	38.0	33.4
Mean of location			15.4	15.2	14.8	14.7	38.4	33.9
Normal (60x20 cm)			15.3	15.2	14.8	14.9	37.6	34.0
High (50x20 cm)			15.6	15.2	14.8	14.5	39.2	33.9
CD at 5%			NS	NS	NS	NS	0.9	NS
CV (%)			2.7	2.1	7.3	13.6	2.4	8.4
150:50:60			15.0	15.3	14.6	14.6	37.9	33.8
200:60:80			15.8	15.1	15.0	14.8	38.9	34.0
CD at 5%			0.4	NS	NS	NS	0.6	NS
CV (%)			4.2	2.9	6.6	2.7	2.4	4.6
ADVSW-2			16.4	17.7	17.7	17.0	37.8	35.4
ADVSW-1			16.2	17.7	15.5	17.5	40.4	37.0
FSCH 41			15.9	15.1	13.5	13.3	38.0	34.0
Madhuri-C			14.1	13.7	12.8	13.4	38.0	32.3
WOSC -C			14.9	14.1	14.8	13.7	39.6	34.6
Priya-C			15.0	12.9	14.3	13.4	36.4	30.4
CD at 5%			0.6	0.5	1.1	0.7	NS	2.1
CV (%)			5.0	4.2	8.8	5.5	8.7	7.3

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Total soluble solids (%)		100-seed weight (g)	Net Returns (Rs. /ha)		BC Ratio	
			Hyderabad	Karimnagar	Hyderabad	Hyderabad	Karimnagar	Hyderabad	Karimnagar
Norma (60x20 cm)	150:50:60	ADVSW-2	11.4	12.6	37.3	252695	217857	6.6	5.0
		ADVSW-1	10.9	11.9	35.3	273780	206746	7.1	4.8
		FSCH 41	10.5	12.3	33.3	207080	156746	5.6	3.9
		Madhuri-C	13.3	13.3	31.3	168740	276191	4.8	6.1
		WOSC -C	13.5	11.0	33.3	188853	281746	5.2	6.2
		Priya-C	13.2	12.6	34.7	175130	284524	4.9	6.2
	200:60:80	ADVSW-2	12.5	10.1	38.0	267010	204688	6.7	4.6
		ADVSW-1	13.0	12.1	34.0	283147	179688	7.1	4.2
		FSCH 41	12.1	12.7	40.7	211037	151910	5.5	3.7
		Madhuri-C	14.3	12.3	38.0	186410	279688	5.0	6.0
		WOSC -C	14.2	10.0	34.0	217227	260244	5.7	5.6
		Priya-C	15.3	14.7	33.3	183710	232466	4.9	5.1
High (50x20 cm)	150:50:60	ADVSW-2	11.9	9.6	36.7	205070	237958	5.5	5.3
		ADVSW-1	13.0	9.8	34.7	245150	261292	6.4	5.7
		FSCH 41	12.3	13.7	36.0	188850	174625	5.1	4.2
		Madhuri-C	11.6	13.0	35.3	190040	327958	5.1	6.9
		WOSC -C	14.5	13.3	36.7	193348	387958	5.2	8.0
		Priya-C	14.6	12.0	30.7	167843	344625	4.7	7.2
	200:60:80	ADVSW-2	14.2	9.6	36.0	219360	242567	5.6	5.2
		ADVSW-1	16.2	9.7	34.7	217422	215900	5.6	4.8
		FSCH 41	13.8	13.7	38.0	202475	172567	5.3	4.0
		Madhuri-C	15.0	12.0	34.0	203857	282567	5.3	5.9
		WOSC -C	14.3	12.0	34.7	194417	332567	5.1	6.8
		Priya-C	14.0	14.0	34.0	180346	305900	4.8	6.3
Mean of location			13.3	12.0	35.2	209291.5	250790.8	5.5	5.5
Normal (60x20 cm)			12.9	12.1	35.3	217902	227708	5.8	5.1
High (50x20 cm)			13.8	11.9	35.1	200682	273874	5.3	5.9
CD at 5%			NS	NS	NS	14381.6	23283.9	0.3	0.4
CV (%)			7.8	8.6	5.3	6.8	9.2	5.6	7.4
150:50:60			12.6	12.1	34.6	204715	263186	5.5	5.8
200:60:80			14.1	11.9	35.8	213868	238396	5.5	5.2
CD at 5%			0.7	NS	1.0	7859.1	18662.1	NS	0.3
CV (%)			7.6	11.8	4.3	5.7	11.4	4.7	9.5
ADVSW-2			12.5	10.5	37.0	236034	225768	6.1	5.0
ADVSW-1			13.3	10.9	34.7	254875	215907	6.5	4.9
FSCH 41			12.2	13.1	37.0	202361	163962	5.4	3.9
Madhuri-C			13.5	12.7	34.7	187262	291601	5.0	6.2
WOSC -C			14.2	11.6	34.7	198461	315629	5.3	6.6
Priya-C			14.3	13.3	33.2	176757	291879	4.8	6.2
CD at 5%			0.6	1.1	1.8	10774.4	27930.5	0.2	0.5
CV (%)			5.0	10.7	6.1	6.2	13.5	5.1	11.1

Table 20: Performance of pre release sweet corn genotypes in kharif under varying planting density and nutrients levels in Central Western Zone (CWZ).

Density	N:P_2O_5:K_2O	Genotypes	Green fodder yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	TSS (%)	Net returns (Rs. /ha)	B:C ratio
			Godhra									
Normal (60x20 cm)	150:50:60	ADVSW-2	5417	9334	54.2	46.7	151.5	56.0	61.0	11.7	124593	5.75
		ADVSW-1	7334	12500	54.2	51.7	158.0	54.0	59.5	11.7	175923	7.70
		FSCH 41	1709	8029	29.0	44.4	156.8	53.8	55.8	9.8	94668	4.61
		Madhuri-C	4584	8083	49.2	66.7	163.0	47.5	50.0	15.5	104168	4.97
		WOSC -C	6834	10079	59.8	76.9	160.9	50.8	56.8	15.1	134918	6.14
		Priya-C	3334	10500	54.2	87.5	144.5	49.0	50.5	13.1	137923	6.26
	200:60:80	ADVSW-2	4834	11000	56.7	40.8	155.5	56.0	61.0	11.5	146601	6.22
		ADVSW-1	6500	11417	55.0	35.8	165.0	55.0	61.0	11.3	156182	6.56
		FSCH 41	4167	10833	63.3	53.3	153.5	53.0	56.0	9.0	142763	6.09
		Madhuri-C	6250	9667	83.3	72.5	153.5	45.5	50.0	13.2	129432	5.61
		WOSC -C	4584	7500	72.5	59.2	148.5	50.0	54.0	12.7	93601	4.34
		Priya-C	2917	6417	67.5	65.8	134.0	48.0	51.0	11.3	74016	3.64
High (50x20 cm)	150:50:60	ADVSW-2	6150	7516	54.7	35.5	148.6	57.9	62.9	12.4	96051	4.66
		ADVSW-1	8200	12813	65.6	51.9	146.6	56.8	62.9	10.5	177656	7.77
		FSCH 41	1366	4510	38.3	32.5	125.1	53.8	56.8	9.4	42489	2.62
		Madhuri-C	5466	6014	64.2	64.2	139.4	49.7	52.8	11.7	72694	3.77
		WOSC -C	6150	8746	58.8	56.0	143.5	49.7	55.8	17.5	114051	5.35
		Priya-C	4000	7067	64.0	64.7	141.0	47.0	49.5	16.3	87761	4.34
	200:60:80	ADVSW-2	8884	13940	76.5	60.1	153.0	55.0	57.0	10.3	198801	8.08
		ADVSW-1	7867	13600	72.7	51.3	167.5	54.0	59.5	10.5	191667	7.83
		FSCH 41	4100	9704	47.8	46.5	153.8	51.8	55.8	6.9	125689	5.48
		Madhuri-C	4834	5000	59.3	42.0	158.0	47.5	50.5	14.9	56594	3.02
		WOSC -C	4784	7790	34.2	50.6	168.1	50.8	53.8	20.4	98351	4.50
		Priya-C	5000	8534	73.3	63.3	135.5	46.5	50.0	13.3	109937	4.92
Mean of location			5219.2	9191.2	58.7	55.0	151.0	51.6	55.6	12.5	120272	5.4
Normal (60x20 cm)			4872	9613	58.2	58.4	153.7	51.5	55.6	12.1	126232	5.7
High (50x20 cm)			5567	8769	59.1	51.6	148.3	51.7	55.6	12.8	114312	5.2
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS		
CV (%)			22.2	40.1	23.4	18.8	2.9	5.6	4.0	16.3		
150:50:60			5045	8766	53.8	56.6	148.2	52.2	56.2	12.9	113575	5.3
200:60:80			5393	9617	63.5	53.4	153.8	51.1	55.0	12.1	126969	5.5
CD at 5%			NS	NS	4.7	NS	NS	NS	NS	NS		
CV (%)			55.7	27.2	6.4	34.2	9.5	2.6	1.8	11.1		
ADVSW-2			6321	10447	60.5	45.8	152.2	56.2	60.5	11.5	141511	6.2
ADVSW-1			7475	12582	61.9	47.7	159.3	55.0	60.7	11.0	175357	7.5
FSCH 41			2836	8269	44.6	44.2	147.3	53.1	56.1	8.8	101402	4.7
Madhuri-C			5283	7191	64.0	61.3	153.5	47.6	50.8	13.8	90722	4.3
WOSC -C			5588	8529	56.3	60.7	155.3	50.3	55.1	16.4	110230	5.1
Priya-C			3813	8129	64.7	70.3	138.8	47.6	50.3	13.5	102409	4.8
CD at 5%			1577.8	2436.4	NS	13.1	7.8	1.1	1.6	1.6		
CV (%)			29.0	25.4	25.7	22.8	4.9	2.1	2.7	12.1		

Table 21: Performance of pre release QPM genotypes in kharif under varying planting density and nutrients levels in Northern Hill Zone (NHZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
			Bajaura				
Normal (60x20 cm)	150:50:60	APQH9 (EDV)	7387	11585	73.1	69.6	197.8
		Vivek QPM-9-C	7577	11534	70.3	68.5	195.5
		HQPM 1-C	10394	14810	81.8	73.3	207.5
		HQPM 4-C	12279	17759	81.8	79.2	233.3
	200:60:80	APQH9 (EDV)	8186	11842	79.9	70.3	210.1
		Vivek QPM-9-C	9258	13476	78.4	73.6	208.4
		HQPM 1-C	11464	15855	81.4	75.5	209.1
		HQPM 4-C	12339	17948	83.3	81.4	221.1
High (50x20 cm)	150:50:60	APQH9 (EDV)	7078	11880	80.3	72.2	195.0
		Vivek QPM-9-C	8255	12111	85.1	79.3	198.6
		HQPM 1-C	10823	16296	95.5	87.0	199.5
		HQPM 4-C	12503	18469	98.1	93.2	220.8
	200:60:80	APQH9 (EDV)	8632	14013	87.0	81.0	209.0
		Vivek QPM-9-C	8678	13560	84.7	79.6	206.2
		HQPM 1-C	11657	16687	98.8	94.0	208.4
		HQPM 4-C	12742	19784	98.8	94.0	224.6
Mean of location			9953	14851	84.9	79.5	209.1
Normal (60x20 cm)			9860.5	14351.0	78.7	73.9	210.4
High (50x20 cm)			10046.0	15350.0	91.0	85.0	207.8
CD at 5%			184.0	NS	3.3	6.4	NS
CV (%)			1.5	9.0	3.1	6.5	2.4
150:50:60			9537.0	14305.4	83.2	77.8	206.0
200:60:80			10369.6	15395.7	86.5	81.2	212.1
CD at 5%			NS	190.4	2.1	2.9	NS
CV (%)			11.2	1.6	3.0	4.5	3.7
APQH9 (EDV)			7821.0	12330.0	80.1	73.3	203.0
Vivek QPM-9-C			8442.1	12670.5	79.7	75.2	202.2
HQPM 1-C			11084.4	15911.9	89.4	82.4	206.1
HQPM 4-C			12465.7	18489.8	90.5	87.0	224.9
CD at 5%			440.7	524.6	2.5	2.6	5.7
CV (%)			5.3	4.2	3.5	3.9	3.2

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
			Bajaura				
Normal (60x20 cm)	150:50:60	APQH9 (EDV)	45.0	47.0	24.0	61183	2.67
		Vivek QPM-9-C	45.0	47.0	26.7	63416	2.73
		HQPM 1-C	54.7	56.7	29.3	99840	3.72
		HQPM 4-C	54.7	56.7	28.0	124819	4.40
	200:60:80	APQH9 (EDV)	44.7	46.7	25.3	69169	2.79
		Vivek QPM-9-C	44.7	46.7	26.0	83334	3.16
		HQPM 1-C	54.0	56.0	28.0	111714	3.90
		HQPM 4-C	54.0	56.0	28.0	123887	4.21
High (50x20 cm)	150:50:60	APQH9 (EDV)	44.7	46.7	25.3	57308	2.54
		Vivek QPM-9-C	44.7	46.7	24.7	71619	2.93
		HQPM 1-C	54.0	56.0	25.3	105780	3.85
		HQPM 4-C	54.0	56.0	28.7	127677	4.44
	200:60:80	APQH9 (EDV)	44.3	46.3	24.0	75857	2.95
		Vivek QPM-9-C	44.3	46.3	26.7	76050	2.95
		HQPM 1-C	54.0	56.0	27.3	114288	3.93
		HQPM 4-C	54.0	56.0	23.3	129789	4.33
Mean of location			49.4	51.4	26.3	93483	3.47
Normal (60x20 cm)			49.6	51.6	26.9	92170.3	3.45
High (50x20 cm)			49.3	51.3	25.7	94796.1	3.49
CD at 5%			NS	NS	NS	1989.1	NS
CV (%)			0.6	0.6	10.1	1.7	1.3
150:50:60			49.6	51.6	26.5	88955.3	3.41
200:60:80			49.3	51.3	26.1	98011.2	3.53
CD at 5%			NS	NS	NS	NS	NS
CV (%)			1.2	1.1	8.2	14.4	10.3
APQH9 (EDV)			44.7	46.7	24.7	65879.4	2.74
Vivek QPM-9-C			44.7	46.7	26.0	73604.8	2.94
HQPM 1-C			54.2	56.2	27.5	107905.4	3.85
HQPM 4-C			54.2	56.2	27.0	126543.3	4.35
CD at 5%			0.3	0.3	1.5	5464.9	0.1
CV (%)			0.7	0.6	6.8	6.9	4.9

Table 22: Performance of pre release QPM genotypes in kharif under varying planting density and nutrients levels in North West Plain Zone (NWPZ).

Density	N:P_2O_5:K_2O	Genotypes	Grain yield (kg/ha)		Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)
			Ludhiana	Karnal	Karnal	Ludhiana	Ludhiana	Karnal	Ludhiana
Normal (60x20 cm)	200:65:80	AQH4 (EDV)	5863	6741	8593	9089	79.6	82.2	82.2
		HM4-C	5565	7150	9095	9011	78.1	82.2	78.9
		HQPM 1-C	6315	8436	10078	10419	79.3	82.5	81.5
		HQPM 4-C	6056	7903	9879	10174	80.0	81.4	80.4
	250:80:100	AQH4 (EDV)	6141	6831	8708	9519	80.0	82.3	81.5
		HM4-C	5963	7242	9212	9952	80.4	82.3	81.5
		HQPM 1-C	6759	8781	11327	11152	80.4	81.9	84.1
		HQPM 4-C	6322	8474	10593	10622	80.7	81.2	84.1
High (50x20 cm)	200:65:80	AQH4 (EDV)	6089	7780	10315	9441	97.8	98.7	98.9
		HM4-C	6033	8092	9897	9778	97.8	99.0	98.5
		HQPM 1-C	6665	9339	11157	10996	96.3	98.7	98.9
		HQPM 4-C	6489	8723	10903	10904	96.7	97.7	97.8
	250:80:100	AQH4 (EDV)	6383	8280	10554	9896	97.8	98.3	95.9
		HM4-C	6463	7798	9920	10470	96.7	98.2	96.7
		HQPM 1-C	7259	9595	11464	11981	97.4	98.0	100.0
		HQPM 4-C	6948	8981	11227	11674	96.3	94.9	97.0
Mean of location			6332.1	8134.1	10182.7	10317.4	88.4	90.0	89.9
Normal (60x20 cm)			6123	7695	9686	9992	79.8	82.0	81.8
High (50x20 cm)			6541	8574	10680	10643	97.1	98.0	98.0
CD at 5%			NS	624.3	993.6	NS	3.3	1.6	4.8
CV (%)			7.7	6.2	7.9	6.5	3.0	1.4	4.3
200:65:80			6134	8020	9990	9976	88.2	90.3	89.6
250:80:100			6530	8248	10376	10658	88.7	89.6	90.1
CD at 5%			356.7	196.4	223.5	667.1	NS	NS	NS
CV (%)			7.0	3.0	2.7	8.1	1.1	1.8	5.3
AQH4 (EDV)			6119	7408	9543	9486	88.8	90.4	89.6
HM4-C			6006	7571	9531	9803	88.2	90.4	88.9
HQPM 1-C			6750	9038	11007	11137	88.3	90.3	91.1
HQPM 4-C			6454	8520	10650	10844	88.4	88.8	89.8
CD at 5%			243.8	269.5	356.8	412.8	NS	NS	NS
CV (%)			4.6	3.9	4.2	4.7	2.3	1.8	2.9

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Plant height (cm)		Days to 50% tasseling		Days to 50% silking		Days to maturity
			Ludhiana	Karnal	Ludhiana	Karnal	Ludhiana	Karnal	Karnal
Normal (60x20 cm)	200:65:80	AQH4 (EDV)	169.0	145.0	60.7	48.3	62.0	51.0	82.7
		HM4-C	180.0	136.7	61.0	52.3	62.7	54.3	84.3
		HQPM 1-C	191.7	145.0	62.0	51.3	63.3	53.3	85.3
		HQPM 4-C	200.0	195.0	64.3	49.7	65.7	52.3	85.3
	250:80:100	AQH4 (EDV)	171.0	153.3	59.0	47.3	60.7	50.7	85.3
		HM4-C	182.7	150.0	59.7	52.0	61.0	54.0	86.3
		HQPM 1-C	192.3	155.0	61.7	50.0	63.0	52.0	87.0
		HQPM 4-C	202.3	212.0	64.0	48.7	65.3	50.7	86.3
High (50x20 cm)	200:65:80	AQH4 (EDV)	173.0	171.7	61.0	47.0	62.7	50.3	83.0
		HM4-C	181.7	165.0	61.7	51.7	64.0	54.3	86.3
		HQPM 1-C	194.7	148.7	62.7	51.0	64.0	52.7	85.3
		HQPM 4-C	208.7	201.7	65.0	49.3	66.3	51.7	86.3
	250:80:100	AQH4 (EDV)	173.7	185.0	59.7	46.7	61.3	50.0	84.7
		HM4-C	184.7	173.3	60.3	50.7	62.0	53.3	87.3
		HQPM 1-C	194.0	151.0	62.0	49.7	63.3	52.0	87.0
		HQPM 4-C	204.3	208.7	64.3	48.3	65.3	50.3	87.3
Mean of location			187.7	168.6	61.8	49.6	63.3	52.1	85.6
Normal (60x20 cm)			186.1	161.5	61.5	50.0	63.0	52.3	85.3
High (50x20 cm)			189.3	175.6	62.1	49.3	63.6	51.8	85.9
CD at 5%			NS	4.6	NS	NS	NS	NS	NS
CV (%)			5.0	2.2	1.6	2.0	1.4	2.0	2.4
200:65:80			187.3	163.6	62.3	50.1	63.8	52.5	84.8
250:80:100			188.1	173.5	61.3	49.2	62.8	51.6	86.4
CD at 5%			NS	5.5	0.6	0.4	0.9	0.3	0.5
CV (%)			7.4	4.0	1.3	1.0	1.7	0.8	0.8
AQH4 (EDV)			171.7	163.8	60.1	47.3	61.7	50.5	83.9
HM4-C			182.3	156.3	60.7	51.7	62.4	54.0	86.1
HQPM 1-C			193.2	149.9	62.1	50.5	63.4	52.5	86.2
HQPM 4-C			203.8	204.3	64.4	49.0	65.7	51.3	86.3
CD at 5%			5.9	4.8	0.6	0.9	0.6	1.0	1.0
CV (%)			3.7	3.4	1.1	2.2	1.2	2.2	1.4

Cont…..

Density	$N:P_2O_5:K_2O$	Genotypes	Net returns (Rs/ha)		BC ratio	
			Ludhiana	Karnal	Ludhiana	Karnal
Normal (60x20 cm)	200:65:80	AQH4 (EDV)	49218	64155	1.07	2.5
		HM4-C	44684	70218	0.97	2.7
		HQPM 1-C	57060	89314	1.24	3.1
		HQPM 4-C	52975	81405	1.15	2.9
	250:80:100	AQH4 (EDV)	51839	63441	1.08	2.4
		HM4-C	49519	69538	1.03	2.6
		HQPM 1-C	62423	102792	1.30	3.3
		HQPM 4-C	55444	87838	1.16	3.0
High (50x20 cm)	200:65:80	AQH4 (EDV)	52355	84219	1.13	3.0
		HM4-C	51791	79580	1.11	2.9
		HQPM 1-C	62238	102727	1.34	3.4
		HQPM 4-C	59525	93577	1.28	3.2
	250:80:100	AQH4 (EDV)	55286	84954	1.14	2.9
		HM4-C	56940	77802	1.18	2.8
		HQPM 1-C	70093	104488	1.45	3.4
		HQPM 4-C	65180	95371	1.35	3.2
Mean of location			56035.7	84463.7	1.19	3.0
Normal (60x20 cm)			52895	78588	1.13	2.8
High (50x20 cm)			59176	90340	1.25	3.1
CD at 5%			NS	11708.8	NS	0.3
CV (%)			14.1	11.2	14.4	7.2
200:65:80			53731	83149	1.16	3.0
250:80:100			58340	85778	1.21	2.9
CD at 5%			NS	NS	NS	NS
CV (%)			13.1	4.0	13.5	2.5
AQH4 (EDV)			52175	74192	1.11	2.7
HM4-C			50733	74284	1.07	2.7
HQPM 1-C			62954	99830	1.33	3.3
HQPM 4-C			58281	89548	1.23	3.1
CD at 5%			3965.8	4226.7	0.1	0.1
CV (%)			8.4	5.9	8.4	3.9

Table 23: Performance of pre release QPM genotypes in kharif under varying planting density and nutrients levels in North East Plain Zone (NEPZ).

Density	$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
			Ranchi				
Normal (60x20 cm)	200:65:80	AQH9(EDV)	6766	9419	81.5	77.4	224.9
		HM9-C	6182	8657	79.6	75.6	229.4
		HQPM 1-C	7345	10269	80.0	76.3	218.9
		HQPM 4-C	6812	9540	79.6	77.0	212.2
	250:80:100	AQH9(EDV)	6637	9073	82.2	79.3	240.9
		HM9-C	7025	9676	80.7	77.0	245.9
		HQPM 1-C	7096	9584	79.3	75.2	236.2
		HQPM 4-C	6600	9091	79.3	76.7	214.0
High (50x20 cm)	200:65:80	AQH9(EDV)	6489	10190	107.0	98.5	244.8
		HM9-C	6569	10247	107.0	99.6	228.9
		HQPM 1-C	5936	9403	107.0	100.0	232.6
		HQPM 4-C	6081	9392	107.4	99.3	231.4
	250:80:100	AQH9(EDV)	7827	11819	108.1	100.7	230.9
		HM9-C	7373	11210	107.4	99.6	235.4
		HQPM 1-C	5951	9376	106.7	99.3	224.9
		HQPM 4-C	6553	10350	106.3	98.5	212.2
Mean of location			6702.6	9830.9	93.7	88.1	229.0
Normal (60x20 cm)			6808	9413	80.3	76.8	227.8
High (50x20 cm)			6597	10248	107.1	99.4	230.1
CD at 5%			NS	669.8	1.8	2.4	NS
CV (%)			5.8	5.5	1.5	2.2	2.7
200:65:80			6523	9640	93.7	88.0	227.9
250:80:100			6883	10022	93.8	88.3	230.1
CD at 5%			344.8	NS	NS	NS	NS
CV (%)			6.4	5.4	2.8	4.7	2.4
AQH9(EDV)			6930	10125	94.7	89.0	235.4
HM9-C			6787	9948	93.7	88.0	234.9
HQPM 1-C			6582	9658	93.2	87.7	228.1
HQPM 4-C			6512	9593	93.1	87.9	217.5
CD at 5%			NS	NS	NS	NS	11.6
CV (%)			8.2	7.5	3.2	4.4	6.0

Cont…..

Density	N:P_2O_5:K_2O	Genotypes	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio
			Ranchi				
Normal (60x20 cm)	200:65:80	AQH9(EDV)	49.0	53.0	32.1	58384	1.78
		HM9-C	51.0	55.0	32.8	50555	1.54
		HQPM 1-C	49.0	53.0	31.3	66236	2.02
		HQPM 4-C	49.0	53.0	30.3	59063	1.80
	250:80:100	AQH9(EDV)	49.0	52.0	35.4	55046	1.60
		HM9-C	48.0	51.0	36.1	60308	1.76
		HQPM 1-C	48.0	51.0	34.7	61168	1.78
		HQPM 4-C	50.0	53.0	31.6	54612	1.59
High (50x20 cm)	200:65:80	AQH9(EDV)	51.0	54.7	32.6	54740	1.66
		HM9-C	49.0	52.7	30.5	55793	1.69
		HQPM 1-C	47.0	50.7	31.0	47322	1.44
		HQPM 4-C	49.0	52.7	30.9	49141	1.49
	250:80:100	AQH9(EDV)	50.0	54.3	31.8	70490	2.01
		HM9-C	52.0	56.3	32.4	64398	1.83
		HQPM 1-C	50.0	54.3	31.0	45376	1.29
		HQPM 4-C	50.0	54.3	29.3	53552	1.53
Mean of location			49.4	53.2	32.1	56636.6	1.68
Normal (60x20 cm)			49.1	52.6	33.0	58172	1.74
High (50x20 cm)			49.8	53.8	31.2	55102	1.62
CD at 5%			NS	NS	1.5	NS	NS
CV (%)			3.0	2.5	3.8	9.3	9.5
200:65:80			49.3	53.1	31.4	55154	1.68
250:80:100			49.6	53.3	32.8	58119	1.67
CD at 5%			NS	NS	0.6	NS	NS
CV (%)			4.2	3.6	2.5	10.1	10.2
AQH9(EDV)			49.8	53.5	33.0	59665	1.76
HM9-C			50.0	53.8	33.0	57764	1.71
HQPM 1-C			48.5	52.3	32.0	55025	1.63
HQPM 4-C			49.5	53.3	30.5	54092	1.60
CD at 5%			0.4	0.4	1.4	NS	NS
CV (%)			1.0	0.9	2.5	13.0	13.2

Cont…..

Table 24: Performance of pre release QPM genotypes in kharif under varying planting density and nutrients levels in Peninsular Zone (PZ).

$N:P_2O_5:K_2O$	Genotypes	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
		Vagarai				
150:65:65	AQH8(EDV)	4606	4347	30.7	20.2	162.1
	APQH9(EDV)	6685	4104	38.0	28.0	178.5
	HM8-C	3835	3610	31.6	24.7	154.5
	Vivek QPM-9-C	3494	6171	30.4	21.6	170.7
200:80:80	AQH8(EDV)	5277	5283	32.9	24.9	153.7
	APQH9(EDV)	7014	4568	33.1	20.2	181.7
	HM8-C	7391	5908	35.1	21.1	157.0
	Vivek QPM-9-C	4426	6467	32.4	26.7	173.7
250:95:95	AQH8(EDV)	5916	4051	36.2	26.0	158.0
	APQH9(EDV)	4684	5543	36.9	23.3	166.0
	HM8-C	3940	5241	32.9	23.8	147.0
	Vivek QPM-9-C	7727	4884	33.8	24.7	175.3
Location mean		5416.4	5014.8	33.7	23.8	164.8
C.D.(5%) AiBj-AiBk		2322.3	1411.7	5.7	6.9	28.5
C.D.(5%) AiBk-AjBk		3191.1	2040.6	5.9	7.1	30.9
F(5%)		S	S	NS	NS	NS
150:65:65		4655	4558	32.7	23.6	166.5
200:80:80		6027	5557	33.4	23.2	166.5
250:95:95		5567	4930	34.9	24.4	161.6
C.D. (5%) Ai-Aj		2517.1	1657.8	3.4	3.9	19.0
C.V. (%) Error A		41.0	29.2	8.9	14.5	10.2
F (5%)		NS	NS	NS	NS	NS
AQH8(EDV)		5266	4561	33.3	23.7	157.9
APQH9(EDV)		6128	4738	36.0	23.9	175.4
HM8-C		5056	4919	33.2	23.2	152.8
Vivek QPM-9-C		5216	5841	32.2	24.3	173.2
C.D. (5%) Bi-Bj		1340.8	815.1	3.3	4.0	16.4
C.V. (%) ErrorB		25.0	16.4	9.8	17.0	10.1
F (5%)		NS.	S	NS	NS	S

Cont…..

$N:P_2O_5:K_2O$	Genotypes	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
		Vagarai				
150:65:65	AQH8(EDV)	47.7	52.7	27.7	46128	3.1
	APQH9(EDV)	48.7	51.7	28.7	76786	4.5
	HM8-C	51.0	49.3	28.0	34755	2.6
	Vivek QPM-9-C	50.7	51.7	25.7	29716	2.4
200:80:80	AQH8(EDV)	50.0	53.3	27.7	55320	3.5
	APQH9(EDV)	50.3	51.7	27.0	80940	4.6
	HM8-C	50.0	52.7	28.0	86504	4.8
	Vivek QPM-9-C	49.3	51.7	25.0	42776	2.9
250:95:95	AQH8(EDV)	48.0	52.7	26.3	64080	3.8
	APQH9(EDV)	50.7	52.0	25.0	45911	3.0
	HM8-C	49.7	51.7	26.0	34940	2.5
	Vivek QPM-9-C	50.0	52.0	27.0	90796	4.9
Location mean		49.7	51.9	26.8	57387.7	3.5
C.D.(5%) AiBj-AiBk		1.1	1.5	7.0	34253.4	1.5
C.D.(5%) AiBk-AjBk		1.4	1.7	7.5	47068.6	2.1
F(5%)		S	S	NS	S	S
150:65:65		49.5	51.3	27.5	46846	3.1
200:80:80		49.9	52.3	26.9	66385	3.9
250:95:95		49.6	52.1	26.1	58932	3.5
C.D. (5%) Ai-Aj		1.0	1.1	4.5	37127.4	1.7
C.V. (%) Error A		1.8	1.9	14.7	57.1	41.1
F (5%)		NS	NS	NS	NS	NS
AQH8(EDV)		48.6	52.9	27.2	55176	3.4
APQH9(EDV)		49.9	51.8	26.9	67879	4.0
HM8-C		50.2	51.2	27.3	52066	3.3
Vivek QPM-9-C		50.0	51.8	25.9	54429	3.4
C.D. (5%) Bi-Bj		0.6	0.9	4.0	19776.2	0.9
C.V. (%) ErrorB		1.2	1.7	15.2	34.8	25.0
F (5%)		S	S	NS	NS	NS

Table 25: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Karnal.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs./ha)	B:C ratio
Zero tillage	RDF	7705	65.3	64.7	223.0	52.0	54.0	79990	2.97
	SSNM	8331	64.6	66.1	226.0	51.7	54.3	88402	3.13
	FFP	8706	64.8	64.7	231.3	51.3	53.3	94844	3.33
Conventional tillage	RDF	7435	65.4	63.6	219.3	53.7	56.7	75978	2.87
	SSNM	7777	65.3	65.1	224.3	53.3	56.3	80181	2.93
	FFP	8242	63.7	64.3	231.7	52.3	55.0	87965	3.16
Permanent Beds	RDF	7541	65.8	64.1	225.3	51.7	54.0	77547	2.91
	SSNM	8221	65.1	65.1	226.7	51.3	54.0	86766	3.09
	FFP	8645	65.2	65.8	233.0	50.7	52.7	93941	3.31
Location mean		8067.0	65.0	64.8	226.7	52.0	54.5	85068.2	3.08
C.D.(5%) AiBj-AiBk		551.3	2.9	4.3	9.9	1.0	1.7	8187.0	0.20
C.D.(5%) AiBk-AjBk		512.9	2.7	4.3	11.4	1.0	1.6	7616.1	0.18
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		8247	64.9	65.2	226.8	51.7	53.9	87745	3.14
Conventional tillage		7818	64.8	64.3	225.1	53.1	56.0	81375	2.99
Permanent beds		8135	65.4	65.0	228.3	51.2	53.6	86085	3.10
C.D. (5%) Ai-Aj		250.7	1.4	2.5	8.2	0.6	0.9	3722.7	0.09
C.V. (%) Error A		2.4	1.6	2.9	2.8	0.9	1.3	3.3	2.2
F (5%)		S	NS	NS	NS	S	S	S	S
RDF (150:60:60)		7560	65.5	64.2	222.6	52.4	54.9	77838	2.92
SSNM (165:66:72)		8110	65.0	65.4	225.7	52.1	54.9	85116	3.05
FFP (210:95:50)		8531	64.6	64.9	232.0	51.4	53.7	92250	3.27
C.D. (5%) Bi-Bj		318.3	1.7	2.5	5.7	0.6	1.0	4726.8	0.11
C.V. (%) ErrorB		3.8	2.5	3.7	2.4	1.0	1.7	5.4	3.6
F (5%)		S	NS	NS	S	S	S	S	S

Treatment details:

A. Main plot: Tillage practices	**B. Sub plot: Nutrient management (N:P2O5:K2O)**
T1: Zero tillage	N1: RDF (150:60:60)
T2: Conventional tillage	N2: SSNM based on nutrient expert (165:66:72)
T3: Permanent Beds	N3: Farmers Practice (210:95:50)

Table 26: Nutrient management in maize-wheat-green gram cropping system under different tillage practices at Pantnagar.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
Zero tillage	FFP	6723	16138	64.6	63.0	189.7	49.0
	SSNM	7336	18360	66.1	66.1	201.3	49.0
	100% RDF	7514	17196	63.5	63.5	198.1	48.3
Conventional tillage	FFP	6034	15714	64.6	62.4	187.9	49.7
	SSNM	7088	16878	63.5	61.9	197.5	49.7
	100% RDF	7763	17354	66.7	66.1	196.0	49.7
Permanent beds	FFP	6132	15714	63.5	60.8	186.3	48.3
	SSNM	6982	16561	63.0	61.4	195.4	48.3
	100% RDF	7443	18836	64.6	63.5	192.0	48.3
Location mean		7001.6	16972.4	64.4	63.2	193.8	48.9
C.D.(5%) AiBj-AiBk		958.9	1864.2	4.3	5.1	13.0	1.2
C.D.(5%) AiBk-AjBk		873.0	2107.2	4.4	5.6	16.3	1.5
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		7191	17231	64.7	64.2	196.4	48.8
Conventional tillage		6961	16649	64.9	63.5	193.8	49.7
Permanent bed		6852	17037	63.7	61.9	191.2	48.3
C.D. (5%) Ai-Aj		394.2	1479.1	2.6	3.8	12.6	1.1
C.V. (%) Error A		4.3	6.7	3.1	4.6	5.0	1.7
F (5%)		NS	NS	NS	NS	NS	NS
FFP (93:64:32)		6296	15855	64.2	62.1	188.0	49.0
SSNM (120:10:46)		7135	17266	64.2	63.1	198.1	49.0
100% RDF (120:60:40)		7573	17795	64.9	64.4	195.4	48.8
C.D. (5%) Bi-Bj		553.6	1076.3	2.5	2.9	7.5	0.7
C.V. (%) ErrorB		7.7	6.2	3.8	4.5	3.8	1.4
F (5%)		S	S	NS	NS	S	NS

Treatment details:

A. Main plot: Tillage practices
T1: Zero tillage
T2: Conventional tillage
T3: Permanent bed

B. Sub plot: Nutrient levels (N:P2O5:K2O)
N1: Farmer's Practice (93:64:32)
N2: SSNM based on nutrient expert (120:10:46)
N3: 100% RDF (120:60:40)

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Tillage practices	Nutrient management	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)
Zero Tillage	FFP	52.0	24.8	72736	4.45	16.5	12.4
	SSNM	52.0	26.6	81504	5.19	17.5	13.0
	100% RDF	51.3	26.9	81462	4.50	17.5	13.0
Conventional tillage	FFP	52.0	24.2	55455	2.26	17.1	12.1
	SSNM	52.0	26.1	70076	2.94	17.7	12.8
	100% RDF	52.0	26.2	76619	2.92	17.8	12.8
Permanent Beds	FFP	51.0	24.6	62959	3.44	16.8	12.0
	SSNM	51.0	25.7	74881	4.25	17.5	12.7
	100% RDF	51.0	26.0	78588	3.92	17.4	12.8
Location mean		51.6	25.7	72697.6	3.76	17.3	12.6
C.D.(5%) AiBj-AiBk		1.2	2.5	12705.3	0.65	0.9	0.9
C.D.(5%) AiBk-AjBk		2.0	3.2	11567.7	0.60	0.9	0.9
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		51.8	26.1	78567	4.71	17.2	12.8
Conventional tillage		52.0	25.5	67383	2.71	17.5	12.6
Permanent bed		51.0	25.4	72142	3.87	17.2	12.5
C.D. (5%) Ai-Aj		1.7	2.6	5223.5	0.30	0.5	0.6
C.V. (%) Error A		2.5	7.7	5.5	5.99	2.4	3.6
F (5%)		NS	NS	S	S	NS	NS
FFP (93:64:32)		51.7	24.5	63717	3.39	16.8	12.2
SSNM (120:10:46)		51.7	26.2	75487	4.13	17.6	12.8
100% RDF (120:60:40)		51.4	26.4	78889	3.78	17.6	12.9
C.D. (5%) Bi-Bj		0.7	1.4	7335.4	0.37	0.5	0.5
C.V. (%) ErrorB		1.3	5.4	9.8	9.63	2.9	4.1
F (5%)		NS	S	S	S	S	S

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Tillage practices	Nutrient management	Nutrient uptake (kg/ha)								
		Grain			Stover			Total		
		N	P	K	N	P	K	N	P	K
Zero tillage	FFP	89.5	20.7	21.5	28.2	10.0	65.0	117.7	30.7	86.5
	SSNM	107.2	21.1	24.8	49.1	9.8	74.8	156.3	30.9	99.6
	100% RDF	110.4	23.0	24.2	48.3	11.2	70.4	158.8	34.3	94.5
Conventional tillage	FFP	83.2	18.8	20.2	32.1	10.0	68.1	115.3	28.8	88.3
	SSNM	107.0	20.2	24.7	46.1	10.2	74.4	153.1	30.4	99.0
	100% RDF	115.5	23.0	25.6	45.0	12.0	80.2	160.4	35.0	105.9
Permanent beds	FFP	74.9	18.4	20.0	29.1	9.4	64.8	104.0	27.8	84.8
	SSNM	105.4	19.9	23.4	41.1	9.6	68.2	146.5	29.5	91.6
	100% RDF	108.3	22.5	24.7	46.6	12.0	79.2	154.9	34.5	104.0
Location mean		100.2	20.8	23.2	40.6	10.5	71.7	140.8	31.3	94.9
C.D.(5%) AiBj-AiBk		9.8	2.9	4.6	13.1	2.5	14.4	15.3	4.0	14.2
C.D.(5%) AiBk-AjBk		11.1	2.6	5.2	16.4	2.3	18.3	18.8	3.6	17.2
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Zero tillage		102.4	21.6	23.5	41.9	10.3	70.1	144.2	32.0	93.5
Conventional tillage		101.9	20.7	23.5	41.1	10.7	74.2	142.9	31.4	97.7
Permanent bed		96.2	20.3	22.7	38.9	10.3	70.7	135.1	30.6	93.4
C.D. (5%) Ai-Aj		7.8	1.1	3.6	12.6	1.0	14.2	14.3	1.6	12.8
C.V. (%) Error A		5.9	4.1	11.9	23.7	7.3	15.2	7.7	3.9	10.3
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
FFP (93:64:32)		82.5	19.3	20.6	29.8	9.8	66.0	112.3	29.1	86.5
SSNM (120:10:46)		106.5	20.4	24.3	45.5	9.9	72.4	152.0	30.3	96.8
100% RDF (120:60:40)		111.4	22.9	24.8	46.6	11.7	76.6	158.0	34.6	101.4
C.D. (5%) Bi-Bj		5.7	1.7	2.6	7.6	1.4	8.3	8.8	2.3	8.2
C.V. (%) ErrorB		5.5	7.7	11.1	18.1	13.4	11.3	6.1	7.2	8.4
F (5%)		S	S	S	S	S	S	S	S	S

Table 27: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Ear height (cm)	Days of 50% tasseling	Days of 50% silking	Days of maturity
Zero tillage	RDF	5166	6867	98.0	96.2	176.0	71.6	53.3	55.3	100.0
	SSNM	6069	8067	98.0	96.4	171.7	80.4	52.7	54.3	96.7
	FFP	5952	7911	98.2	98.7	179.0	71.5	53.7	56.7	106.7
Conventional till	RDF	5316	7067	98.2	97.8	172.3	80.0	51.7	55.3	98.7
	SSNM	5684	7556	99.3	99.1	173.3	80.8	53.0	57.0	97.3
	FFP	5317	7067	98.4	97.1	180.0	75.7	55.3	58.3	110.0
Permanent bed	RDF	4832	6422	99.6	98.4	171.0	76.1	54.7	57.7	98.0
	SSNM	6487	8622	96.2	96.0	179.3	78.7	55.7	58.7	96.7
	FFP	5149	6844	99.6	100.2	184.3	78.2	56.3	60.3	100.7
Location mean		5552.4	7380.2	98.4	97.8	176.3	77.0	54.0	57.1	100.5
C.D.(5%) AiBj-AiBk		487.4	647.8	3.1	4.3	3.8	2.9	1.3	1.6	2.7
C.D.(5%) AiBk-AjBk		447.7	595.0	3.1	4.0	3.2	2.8	1.2	1.5	3.9
F(5%)		S	S	NS	NS	S	S	S	NS	S
Zero tillage		5729	7615	98.1	97.1	175.6	74.5	53.2	55.4	101.1
Conventional till		5439	7230	98.7	98.0	175.2	78.8	53.3	56.9	102.0
Permanent bed		5489	7296	98.4	98.2	178.2	77.7	55.6	58.9	98.4
C.D. (5%) Ai-Aj		209.3	277.9	1.8	2.0	1.0	1.6	0.7	0.8	3.3
C.V. (%) Error A		2.9	2.9	1.4	1.6	0.4	1.6	0.9	1.1	2.5
F (5%)		S	S	NS	NS	S	S	S	S	NS
RDF (120:60:40)		5105	6785	98.6	97.5	173.1	75.9	53.2	56.1	98.9
SSNM (159:34.5:75)		6080	8081	97.9	97.2	174.8	80.0	53.8	56.7	96.9
FFP (170:90:60)		5473	7274	98.7	98.7	181.1	75.1	55.1	58.4	105.8
C.D. (5%) Bi-Bj		281.4	374.0	1.8	2.5	2.2	1.7	0.7	0.9	1.6
C.V. (%) ErrorB		4.9	4.9	1.8	2.5	1.2	2.1	1.3	1.5	1.5
F (5%)		S	S	NS	NS	S	S	S	S	S

Treatment details:

A. Main plot: Tillage practices

T1: Zero tillage

T2: Conventional tillage

T3: Permanent bed

B. Sub plot: Nutrient levels (N:P2O5:K2O)

N1: RDF (120:60:40)

N2: SSNM based on nutrient practices (159:34.5:75)

N3: Farmer's fertilizer Practices (170:90:60)

Table 28: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Banswara.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
Zero tillage	RDF	6132	7645	61.2	57.9	238.3	49.7
	SSNM	7093	8262	64.2	64.6	245.7	50.3
	FFP	4630	6576	58.1	53.5	212.7	47.3
Conventional till	RDF	4295	6060	57.2	50.9	221.7	48.7
	SSNM	4871	6276	62.2	58.7	231.0	49.0
	FFP	3337	5188	52.1	44.6	202.7	45.3
Permanent bed	RDF	4667	7028	62.6	57.6	230.0	50.3
	SSNM	5432	6600	62.2	60.7	235.0	51.0
	FFP	3773	5773	54.6	46.6	206.3	47.7
Location mean		4914.5	6600.9	59.4	55.0	224.8	48.8
C.D.(5%) AiBj-AiBk		736.4	787.7	5.9	6.3	10.4	3.1
C.D.(5%) AiBk-AjBk		678.3	758.5	5.1	5.5	9.5	3.4
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		5952	7494	61.1	58.7	232.2	49.1
Conventional till		4168	5841	57.2	51.4	218.4	47.7
Permanent bed		4624	6467	59.8	54.9	223.8	49.7
C.D. (5%) Ai-Aj		320.3	409.7	1.7	1.8	4.2	2.3
C.V. (%) Error A		5.0	4.7	2.2	2.5	1.4	3.7
F (5%)		S	S	S	S	S	NS
RDF		5031	6911	60.3	55.5	230.0	49.6
SSNM		5799	7046	62.9	61.3	237.2	50.1
FFP		3913	5846	54.9	48.2	207.2	46.8
C.D. (5%) Bi-Bj		425.2	454.8	3.4	3.7	6.0	1.8
C.V. (%) ErrorB		8.4	6.7	5.6	6.5	2.6	3.6
F (5%)		S	S	S	S	S	S

Treatment details:

A. Main plot: Tillage practices
T1: Zero tillage
T2: Conventional till
T3: Permanent bed

B. Sub plot: Nutrient levels (N:P2O5:K2O)
N1: RDF (120:60:40)
N2: SSNM based on nutrient expert (130:37:41)
N3: Farmer's fertilizer practice (55:23:00)

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Tillage practices	Nutrient management	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Grain rows/cob	Grains/row
Zero tillage	RDF	51.3	37.7	54152	1.79	13.3	37.3
	SSNM	50.3	38.0	68548	2.34	14.0	38.0
	FFP	47.3	31.0	36802	1.38	12.0	35.7
Conventional till	RDF	50.3	32.3	25277	0.76	12.7	37.0
	SSNM	50.7	34.0	34283	1.06	13.3	36.0
	FFP	47.3	29.7	15553	0.52	11.3	30.3
Permanent bed	RDF	52.0	32.3	28383	0.81	12.0	38.7
	SSNM	52.0	34.0	40044	1.17	14.0	37.7
	FFP	49.7	30.0	19547	0.62	12.0	31.3
Location mean		50.1	33.2	35843.4	1.16	12.7	35.8
C.D.(5%) AiBj-AiBk		3.6	2.8	10309.5	0.33	2.1	2.9
C.D.(5%) AiBk-AjBk		3.5	3.1	9496.2	0.30	1.9	3.2
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		49.7	35.6	53168	1.84	13.1	37.0
Conventional till		49.4	32.0	25038	0.78	12.4	34.4
Permanent bed		51.2	32.1	29325	0.86	12.7	35.9
C.D. (5%) Ai-Aj		1.9	2.1	4484.7	0.14	0.8	2.2
C.V. (%) Error A		2.9	4.8	9.6	9.5	4.8	4.6
F (5%)		NS	S	S	S	NS	NS
RDF		51.2	34.1	35938	1.12	12.7	37.7
SSNM		51.0	35.3	47625	1.52	13.8	37.2
FFP		48.1	30.2	23967	0.84	11.8	32.4
C.D. (5%) Bi-Bj		2.1	1.6	5952.2	0.19	1.2	1.7
C.V. (%) ErrorB		4.0	4.7	16.2	15.8	9.3	4.6
F (5%)		S	S	S	S	S	S

Table 29: Nutrient management in maize-wheat-green gram cropping system under different tillage practices in Udaipur.

Tillage practices	Nutrient management	Green gram yield (kg/ha)	Wheat yield (kg/ha)	Maize grain yield (kg/ha)	Maize stover yield (kg/ha)	Maize plants ('000/ha)	Maize cobs ('000/ha)
ZT	RDF	345	4228	4034	6178	62.8	62.1
CT		325	3725	3525	5186	61.0	60.3
PB		290	3318	3836	5788	61.3	60.7
ZT	SSNM	421	4521	4421	6820	63.0	62.2
CT		375	4014	3913	5755	62.7	61.5
PB		311	3525	4272	6486	63.7	63.0
ZT	FFP	325	3520	3006	4539	61.3	60.4
CT		302	3067	2936	4356	62.4	61.2
PB		271	2513	3126	4789	62.1	60.6
Location mean		329.5	3603.5	3674.4	5544.1	62.3	61.3
C.D.(5%) AiBj-AiBk		34.4	418.7	356.8	505.0	3.8	3.7
C.D.(5%) AiBk-AjBk		52.4	504.2	414.2	623.2	4.4	4.2
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		320	3757	3799	5717	61.7	61.0
Conventional tillage		369	4020	4202	6354	63.1	62.2
Permanent bed		299	3033	3023	4561	61.9	60.7
C.D. (5%) Ai-Aj		44.7	375.6	298.6	473.4	3.2	2.9
C.V. (%) Error A		10.4	8.0	6.2	6.5	4.0	3.7
F (5%)		S	S	S	S	NS	NS
RDF (90:40:30)		364	4090	3821	5846	62.4	61.6
SSNM (134:52:00)		334	3602	3458	5099	62.0	61.0
FFP (80:30:00)		291	3119	3744	5688	62.4	61.4
C.D. (5%) Bi-Bj		19.8	241.8	206.0	291.6	2.2	2.1
C.V. (%) ErrorB		5.9	6.5	5.5	5.1	3.4	3.4
F (5%)		S	S	S	S	NS	NS

Treatment details:

A. Main plot: Tillage practices
T1: Zero tillage
T2: Conventional tillage
T3: Permanent bed

B. Sub plot: Nutrient levels (N:P2O5:K2O)
N1: RDF (90:40:30)
N2: SSNM (134:52:00)
N3: Farmers Fertilizer Practice (80:30:00)

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Tillage practices	Nutrient management	Maize plant height (cm)	Days to 50% tasseling	Days to 50% silking	Shelling (%)	Net Returns (Rs/ha)	B:C ratio
ZT	RDF	240.2	50.0	50.0	81.2	37273	2.28
CT		235.2	50.0	50.0	78.3	29676	1.80
PB		230.3	49.7	49.7	80.3	34307	1.96
ZT	SSNM	245.5	49.0	49.0	83.2	42727	2.48
CT		240.2	49.3	49.3	80.2	35034	1.98
PB		241.8	48.7	48.7	82.4	40434	2.17
ZT	FFP	241.9	49.7	49.7	75.3	22440	1.69
CT		237.8	50.3	50.3	70.4	21325	1.50
PB		236.9	50.0	50.0	73.3	24246	1.60
Location mean		238.9	49.6	49.6	78.3	31940.0	1.94
C.D.(5%) AiBj-AiBk		11.1	2.8	2.8	5.7	5027.8	0.19
C.D.(5%) AiBk-AjBk		12.1	3.2	3.2	6.2	5873.4	0.22
F(5%)		NS	NS	NS	NS	NS	NS
Zero tillage		235.2	49.9	49.9	79.9	33752	2.01
Conventional tillage		242.5	49.0	49.0	81.9	39398	2.21
Permanent bed		238.9	50.0	50.0	73.0	22670	1.60
C.D. (5%) Ai-Aj		8.2	2.3	2.3	4.2	4260.1	0.15
C.V. (%) Error A		2.6	3.5	3.5	4.1	10.2	5.9
F (5%)		NS	NS	NS	S	S	S
RDF (90:40:30)		242.6	49.6	49.6	79.9	34146	2.15
SSNM (134:52:00)		237.7	49.9	49.9	76.3	28678	1.76
FFP (80:30:00)		236.3	49.4	49.4	78.7	32996	1.91
C.D. (5%) Bi-Bj		6.4	1.6	1.6	3.3	2902.8	0.11
C.V. (%) ErrorB		2.6	3.2	3.2	4.1	8.8	5.5
F (5%)		NS	NS	NS	NS	S	S

Table 30: Nutrient management in Rice- Maize cropping system under different tillage practices in Dholi.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stalk yield (kg/ha)	Days of flowering	Days of maturity	Plant height (cm)	Ear height (cm)	Moisture (%)
Zero tillage	RDF	2795.7	6088.9	101.3	139.0	60.7	26.5	19.0
	SSNM	3085.3	5600.0	100.7	138.7	59.4	26.3	18.2
	FFP	2708.0	5333.3	100.7	138.3	59.1	26.4	18.3
Conventional till	RDF	2375.3	7355.6	98.0	137.7	62.0	26.9	17.6
	SSNM	3373.7	8355.6	96.7	138.7	63.1	27.1	19.0
	FFP	2797.0	7355.6	98.0	138.0	63.4	27.8	18.0
Permanent bed	RDF	3374.0	6222.2	99.7	139.3	60.0	26.9	17.4
	SSNM	3507.3	6444.4	100.3	140.3	59.5	26.7	17.6
	FFP	2730.0	5022.2	100.7	139.7	58.8	26.3	18.5
Location mean		2971.8	6419.8	99.6	138.9	60.7	26.8	18.2
C.D.(5%) AiBj-AiBk		539.1	1383.3	2.1	1.8	2.0	1.1	
C.D.(5%) AiBk-AjBk		683.4	1616.6	2.2	1.6	1.7	1.1	
F(5%)		NS	NS	NS	NS	NS	NS	
Zero tillage		2863.0	5674.1	100.9	138.7	59.7	26.4	18.5
Conventional till		2848.7	7688.9	97.6	138.1	62.8	27.3	18.2
Permanent bed		3203.8	5896.3	100.2	139.8	59.4	26.6	17.8
C.D. (5%) Ai-Aj		529.3	1172.9	1.4	0.7	0.7	0.7	
C.V. (%) Error A		13.6	14.0	1.1	0.4	0.8	1.9	
F (5%)		NS	S	S	S	S	NS	
RDF (120:60:40)		2848.3	6555.6	99.7	138.7	60.9	26.8	18.0
SSNM (159:34.5:75)		3322.1	6800.0	99.2	139.2	60.6	26.7	18.3
FFP (170:90:60)		2745.0	5903.7	99.8	138.7	60.4	26.8	18.3
C.D. (5%) Bi-Bj		311.2	798.7	1.2	1.0	1.1	0.6	
C.V. (%) ErrorB		10.2	12.1	1.2	0.7	1.8	2.2	
F (5%)		S	NS	NS	NS	NS	NS	

Treatment details:

A. Main plot: Tillage practices

T1: Zero till

T2: Conventional till

T3: 3. Permanent bed

B. Sub plot: Nutrient levels (N:P2O5:K2O)

H1: RDF (120:60:40)

H2: SSNM based on nutrient practices (159:34.5:75)

H3: Farmer's fertilizer Practices (170:90:60)

Table 31: Nutrient management in maize-oat cropping systems under different tillage practices in Srinagar.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
Zero tillage	RDF	5432	13776	82.3	96.7	237.0	84.3	88.0	25.3
	SSNM	5544	13361	82.3	98.3	234.7	83.0	87.0	25.6
	FFP	4343	10425	82.4	88.4	222.0	79.7	85.0	22.2
Conventional tillage	RDF	5005	10722	82.5	95.3	237.0	85.0	89.0	24.9
	SSNM	5216	10638	82.4	95.2	241.3	83.3	88.7	25.3
	FFP	4016	11873	82.6	85.4	215.3	79.7	85.3	22.4
Permanent bed	RDF	5526	13944	82.2	87.2	236.0	86.0	90.7	25.4
	SSNM	5419	14140	82.3	88.4	239.0	84.7	89.7	25.2
	FFP	4253	11167	82.5	78.5	216.7	82.3	86.3	22.1
Location mean		4972.7	12227.2	82.4	90.4	231.0	83.1	87.7	24.3
C.D.(5%) AiBj-AiBk		478.3	536.8	0.9	2.5	14.4	3.2	3.1	1.2
C.D.(5%) AiBk-AjBk		413.9	606.6	1.0	2.3	12.9	3.3	2.9	1.4
F(5%)		NS	S	NS	NS	NS	NS	NS	NS
Zero tillage		5106	12520	82.3	94.5	231.2	82.3	86.7	24.4
Conventional tillage		4746	11077	82.5	92.0	231.2	82.7	87.7	24.2
Permanent beds		5066	13084	82.3	84.7	230.6	84.3	88.9	24.2
C.D. (5%) Ai-Aj		140.2	425.7	0.7	1.1	5.3	2.1	1.5	1.0
C.V. (%) Error A		2.2	2.7	0.7	1.0	1.8	1.9	1.3	3.2
F (5%)		S	S	NS	S	NS	NS	S	NS
RDF		5321	12814	82.3	93.1	236.7	85.1	89.2	25.2
SSNM		5393	12713	82.3	94.0	238.3	83.7	88.4	25.3
FFP		4204	11155	82.5	84.1	218.0	80.6	85.6	22.3
C.D. (5%) Bi-Bj		276.1	309.9	0.5	1.4	8.3	1.8	1.8	0.7
C.V. (%) ErrorB		5.4	2.5	0.6	1.5	3.5	2.1	2.0	2.7
F (5%)		S	S	NS	S	S	S	S	S

Treatment details:

A. Main plot: Tillage Practices

T1: Zero till

T2: Conventional till

T3: Permanent Bed

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (120:60:40)

N2: SSNM based on nutrient expert (90:50:30)

N3: Farmers fertilizer practice (20:10:00)

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Tillage practices	Nutrient management	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
Zero tillage	RDF	122161	2.68	12.7	20.6	13.4	13.8	44.8
	SSNM	121983	2.57	16.5	19.9	13.3	11.8	41.2
	FFP	75667	1.66	22.8	19.8	11.6	11.1	35.0
Conventional tillage	RDF	95225	2.42	11.9	22.2	13.5	14.3	46.4
	SSNM	98851	2.18	16.6	21.3	11.6	14.3	46.5
	FFP	64121	1.32	23.3	20.7	10.4	10.5	39.9
Permanent bed	RDF	95868	2.00	10.6	20.9	13.3	14.1	45.8
	SSNM	95899	2.09	22.2	20.5	11.7	13.3	42.6
	FFP	47827	1.02	27.9	20.3	11.1	11.0	35.8
Location mean		90844.6	1.99	18.3	20.7	12.2	12.7	42.0
C.D.(5%) AiBj-AiBk		5224.2	0.29	2.6	2.3	2.0	2.4	2.6
C.D.(5%) AiBk-AjBk		4640.1	0.26	3.3	1.9	1.9	2.4	2.8
F(5%)		S	NS	S	NS	NS	NS	NS
Zero tillage		106604	2.30	17.3	20.1	12.7	12.2	40.4
Conventional tillage		86065	1.98	17.3	21.4	11.9	13.0	44.3
Permanent beds		79865	1.70	20.2	20.6	12.0	12.8	41.4
C.D. (5%) Ai-Aj		1865.4	0.10	2.5	0.3	1.0	1.3	1.8
C.V. (%) Error A		1.6	3.9	10.4	1.1	6.1	8.1	3.3
F (5%)		S	S	S	S	NS	NS	S
RDF		104418	2.37	11.7	21.2	13.4	14.1	45.7
SSNM		105578	2.28	18.5	20.6	12.2	13.1	43.4
FFP		62538	1.33	24.7	20.3	11.0	10.9	36.9
C.D. (5%) Bi-Bj		3016.2	0.17	1.5	1.3	1.1	1.4	1.5
C.V. (%) ErrorB		3.2	8.1	8.1	6.2	9.1	10.6	3.4
F (5%)		S	S	S	NS	S	S	S

Table 32: Nutrient management in maize-mustard cropping systems under different tillage practices in Delhi.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cobs ('000/ha)	Cob length (cm)	Grains rows/cob	Grains/ row	Shelling (%)	100-seed weight (g)
Zero tillage	Control	2548	41.9	12.5	12.5	24.5	83.0	23.4
	100% RDF	4167	50.7	15.1	12.9	31.9	85.2	25.6
	SSNM	4185	54.4	13.7	11.9	28.6	84.5	23.5
	50% RDF+CR	3630	43.0	15.5	13.1	31.8	84.4	24.7
Permanent bed	Control	2852	44.1	13.8	12.9	28.8	83.6	24.2
	100% RDF	3600	49.3	14.0	12.5	31.0	82.8	24.5
	SSNM	3504	53.3	14.0	12.7	30.2	85.2	24.0
	50% RDF+CR	3685	47.0	13.4	12.3	27.0	84.4	24.3
Conventional tillage	Control	2570	43.7	12.2	12.5	23.9	83.4	23.6
	100% RDF	4022	62.2	13.2	13.2	25.2	85.2	25.6
	SSNM	3889	46.7	13.5	12.4	28.4	84.7	24.1
	50% RDF+CR	3348	47.0	11.7	13.1	27.6	83.7	23.7
Location mean		3500.0	48.6	13.6	12.7	28.2	84.2	24.3
C.D.(5%) AiBj-AiBk		942.6	14.0	1.9	1.2	5.0	2.7	2.7
C.D.(5%) AiBk-AjBk		992.5	14.1	1.9	1.2	5.9	2.6	3.2
F(5%)		NS	NS	NS	NS	NS	NS	NS
Zero tillage		3632	47.5	14.2	12.6	29.2	84.3	24.3
Permanent bed		3410	48.4	13.8	12.6	29.3	84.0	24.3
Conventional tillage		3457	49.9	12.6	12.8	26.3	84.3	24.2
C.D. (5%) Ai-Aj		577.9	7.4	1.0	0.7	4.2	1.2	2.3
C.V. (%) Error A		14.6	13.4	6.3	5.1	13.1	1.3	8.2
F (5%)		NS	NS	S	NS	NS	NS	NS
Control		2657	43.2	12.8	12.7	25.7	83.3	23.7
100% RDF		3930	54.1	14.1	12.9	29.4	84.4	25.2
SSNM		3859	51.5	13.7	12.3	29.1	84.8	23.8
50% RDF+CR @2.5 t/ha		3554	45.7	13.5	12.8	28.8	84.2	24.2
C.D. (5%) Bi-Bj		544.2	8.1	1.1	0.7	2.9	1.6	1.6
C.V. (%) ErrorB		15.7	16.8	8.0	5.4	10.2	1.9	6.5
F (5%)		S	S	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage Practices
T1: Zero till
T2: Permanent Bed
T3: Conventional till

B. Sub plot: Nutrient management (N:P2O5:K2O)
N1: Control
N2: 100% RDF
N3: SSNM
N4: 50% RDF+CR @2.5 t/ha

Table 33: Nutrient management in maize-chickpea cropping systems under different tillage practices in Delhi.

Tillage practices	Nutrient management	Grain yield (kg/ha)	Cobs ('000/ha)	Cob length (cm)	Grains rows/cob	Grains/row	Shelling (%)	100-seed weight (g)
Zero tillage	Control	2733.3	46.7	13.4	12.9	26.7	83.9	23.5
	100% RDF	4396.3	48.1	14.9	12.1	31.0	84.8	25.6
	SSNM	3885.2	56.3	13.6	11.3	30.1	84.6	24.6
	50% RDF+CR	4474.1	54.4	15.4	13.1	32.6	85.3	24.5
Permanent bed	Control	2625.9	42.2	11.6	12.3	23.4	83.4	23.6
	100% RDF	3366.7	48.1	13.0	12.1	26.6	84.1	24.4
	SSNM	3514.8	53.0	13.7	12.3	29.0	83.9	22.6
	50% RDF+CR	3481.5	42.2	15.3	13.1	33.1	84.4	24.1
Conventional tillage	Control	2233.3	43.7	11.9	12.0	25.3	81.5	22.3
	100% RDF	3529.6	54.1	13.2	12.8	26.9	85.1	22.9
	SSNM	3714.8	55.6	13.5	11.5	31.3	85.0	25.1
	50% RDF+CR	2977.8	48.1	12.3	12.5	24.6	84.6	23.5
Location mean		3411.1	49.4	13.5	12.3	28.4	84.2	23.9
C.D.(5%) AiBj-AiBk		849.4	11.8	1.4	1.7	3.6	2.4	2.6
C.D.(5%) AiBk-AjBk		884.6	11.0	1.8	1.5	4.0	2.4	2.9
F(5%)		NS	NS	S	NS	S	NS	NS
Zero tillage		3872.2	51.4	14.3	12.4	30.1	84.6	24.6
Permanent bed		3247.2	46.4	13.4	12.4	28.0	84.0	23.7
Conventional tillage		3113.9	50.4	12.7	12.2	27.0	84.1	23.4
C.D. (5%) Ai-Aj		503.1	4.3	1.3	0.4	2.6	1.2	1.9
C.V. (%) Error A		13.0	7.7	8.6	2.6	8.1	1.3	7.1
F (5%)		S	NS	NS	NS	NS	NS	NS
Control		2530.9	44.2	12.3	12.4	25.1	83.0	23.2
100% RDF		3764.2	50.1	13.7	12.4	28.2	84.7	24.3
SSNM		3704.9	54.9	13.6	11.7	30.1	84.5	24.1
50% RDF+CR @2.5 t/ha		3644.4	48.3	14.3	12.9	30.1	84.8	24.0
C.D. (5%) Bi-Bj		490.4	6.8	0.8	1.0	2.1	1.4	1.5
C.V. (%) ErrorB		14.5	13.9	6.1	8.0	7.3	1.7	6.3
F (5%)		S	S	S	NS	S	S	NS

Treatment details:

A. Main plot: Tillage Practices
T1: Zero till
T2: Permanent Bed
T3: Conventional till

B. Sub plot: Nutrient management (N:P2O5:K2O)
N1: Control
N2: 100% RDF
N3: SSNM
N4: 50% RDF+CR @2.5 t/ha

Table 34: Nutrient management in maize-mustard cropping systems under different tillage practices in Chhindwara.

Tillage practices	Nutrient management	Density	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
Zero tillage	60:30:20	60x20 cm	3783	8066	77.2	74.7	181.0	49.3	53.7
		50x20 cm	3943	8274	93.3	92.7	187.3	50.0	54.0
	120:60:40	60x20 cm	6102	12856	77.5	78.9	195.7	49.0	53.7
		50x20 cm	6282	13050	88.6	91.6	191.0	49.0	54.0
	140:34:71	60x20 cm	6595	13675	78.0	76.9	205.3	47.3	51.3
		50x20 cm	6865	13883	95.8	91.1	203.7	48.0	52.3
Conventional tillage	60:30:20	60x20 cm	4019	8781	76.6	74.1	186.7	49.7	53.7
		50x20 cm	4207	9094	97.7	93.9	185.0	48.7	53.0
	120:60:40	60x20 cm	6497	13293	79.7	78.3	195.0	49.0	53.3
		50x20 cm	6740	13370	98.3	97.5	193.7	49.0	52.7
	140:34:71	60x20 cm	6754	13869	80.0	80.0	209.7	47.0	50.7
		50x20 cm	6907	14071	97.7	96.6	208.0	48.0	51.7
Permanent bed	60:30:20	60x20 cm	3728	7351	76.6	71.9	180.3	49.7	54.3
		50x20 cm	3762	7407	88.3	85.0	179.7	49.7	54.0
	120:60:40	60x20 cm	5984	12217	78.0	73.9	196.7	49.0	53.7
		50x20 cm	6185	12509	92.2	86.6	190.7	50.7	54.0
	140:34:71	60x20 cm	6588	13238	78.0	75.0	198.3	48.3	52.0
		50x20 cm	6740	13432	92.7	87.7	193.7	49.3	52.7
Mean of location			5649.0	11579.9	85.9	83.7	193.4	48.9	53.0
Zero tillage			5595	11634	85.1	84.3	194.0	48.8	53.2
Conventional tillage			5854	12080	88.3	86.7	196.3	48.6	52.5
Permanent bed			5498	11026	84.3	80.0	189.9	49.4	53.4
CD at 5%			262.6	723.9	1.8	1.0	3.0	0.5	NS
CV (%)			5.0	6.8	2.3	1.2	1.7	1.0	1.8
FFP (60:30:20)			3907	8162	85.0	82.1	183.3	49.5	53.8
RDF (120:60:40)			6298	12883	85.7	84.5	193.8	49.3	53.6
SSNM (140:34:71)			6742	13695	87.0	84.5	203.1	48.0	51.8
CD at 5%			377.3	430.8	NS	NS	5.6	0.7	0.7
CV (%)			9.2	5.1	3.5	4.2	4.0	2.0	1.9
60x20 cm			5561	11483	78.0	76.0	194.3	48.7	52.9
50x20 cm			5737	11677	93.9	91.4	192.5	49.1	53.1
CD at 5%			164.2	NS	1.4	1.6	NS	0.4	NS
CV (%)			5.1	5.4	2.7	3.3	2.8	1.3	1.5

Treatment details:

A. Main plot: Tillage practices	B. Sub plot: Nutrient management (N:P2O5:K2O)	C. Sub-sub plot: Density
T1: Zero Tillage	N1: (60:30:20)	S1: 60x20 cm (83,000/ha plant)
T2: Conventional tillage	N2: (120:60:40)	S2: 50x20 cm (100,000/ha plant)
T3: Permanent tillage	N3: SSNM (140:34:71)	

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Tillage practices	Nutrient management	Density	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
Zero tillage	60:30:20	60x20 cm	37.8	37491	2.07	5.4	16.4	14.9	14.0	27.3
		50x20 cm	36.5	39440	2.15	4.8	16.8	15.3	14.7	29.0
	120:60:40	60x20 cm	38.2	68824	3.34	4.3	17.3	15.4	14.0	28.0
		50x20 cm	38.0	70991	3.41	4.4	17.4	15.6	14.0	28.0
	140:34:71	60x20 cm	38.8	75524	3.63	3.6	17.8	15.8	12.7	23.7
		50x20 cm	38.5	78750	3.75	2.9	18.2	16.0	14.7	29.0
Conventional tillage	60:30:20	60x20 cm	38.0	38778	1.88	4.4	16.9	15.0	13.3	26.0
		50x20 cm	37.6	41202	1.98	4.5	16.9	15.7	14.0	28.7
	120:60:40	60x20 cm	38.5	71530	3.09	3.1	17.6	15.9	14.7	28.3
		50x20 cm	38.2	74239	3.18	2.5	18.1	15.1	12.7	29.0
	140:34:71	60x20 cm	38.9	75152	3.22	2.8	18.1	16.5	15.3	30.0
		50x20 cm	38.7	77010	3.27	2.6	19.6	17.5	15.3	31.7
Permanent bed	60:30:20	60x20 cm	36.9	33780	1.68	4.7	15.1	15.2	12.7	25.3
		50x20 cm	35.9	34063	1.68	5.6	15.6	15.7	13.3	25.3
	120:60:40	60x20 cm	37.9	64509	2.85	3.9	17.2	15.3	14.7	26.7
		50x20 cm	37.5	67061	2.94	4.8	17.5	15.3	14.7	27.0
	140:34:71	60x20 cm	38.4	72789	3.19	3.5	17.7	15.7	14.0	28.7
		50x20 cm	38.0	74636	3.24	3.3	18.1	15.9	15.3	30.3
Mean of location			37.9	60876.0	2.81	4.0	17.4	15.7	14.1	27.9
Zero tillage			38.0	61837	3.06	4.2	17.3	15.5	14.0	27.5
Conventional tillage			38.3	62985	2.77	3.3	17.9	16.0	14.2	28.9
Permanent bed			37.4	57806	2.60	4.3	16.9	15.5	14.1	27.2
CD at 5%			0.6	2742.3	0.13	NS	0.7	NS	NS	NS
CV (%)			1.6	4.9	4.98	25.2	4.3	5.1	8.5	9.9
FFP (60:30:20)			37.1	37459	1.91	4.9	16.3	15.3	13.7	26.9
RDF (120:60:40)			38.0	69526	3.13	3.9	17.5	15.4	14.1	27.8
SSNM (140:34:71)			38.6	75644	3.38	3.1	18.3	16.2	14.6	28.9
CD at 5%			1.0	4672.1	0.21	0.8	1.5	0.8	NS	NS
CV (%)			3.5	10.6	10.5	28.0	11.5	6.9	8.6	16.7
60x20 cm			38.2	59820	2.77	4.0	17.1	15.5	13.9	27.1
50x20 cm			37.7	61932	2.84	3.9	17.6	15.8	14.3	28.7
CD at 5%			NS	1769.0	NS	NS	NS	NS	NS	1.3
CV (%)			3.3	5.1	5.3	33.4	7.8	10.0	6.1	8.3

Table 35: Nutrient management for maize genotypes under different cropping systems at Bajaura.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
K 25 Gold	RDF	10636	15654	78.0	74.8	227.0	68.0	70.0
	SSNM	12063	17733	79.7	76.1	226.0	68.0	70.0
	FFP	8970	13091	77.9	72.6	210.8	68.3	70.3
Bisco 855	RDF	9530	14029	75.2	71.3	210.5	67.3	69.3
	SSNM	10038	14726	73.8	69.5	214.8	67.0	69.0
	FFP	7538	11067	73.2	64.9	203.9	67.3	69.3
Bio 9220	RDF	8843	12990	78.2	71.9	224.4	68.0	70.0
	SSNM	9700	14187	77.0	73.0	226.3	67.3	69.3
	FFP	6881	10108	73.9	67.5	203.2	67.7	69.7
DKC 9106	RDF	9190	13508	77.0	72.4	224.3	69.0	71.0
	SSNM	11611	17062	77.3	72.2	244.0	68.3	70.3
	FFP	7984	11654	74.1	69.8	228.6	68.3	70.3
HQPM 1	RDF	7349	10802	79.3	68.2	203.1	70.0	72.0
	SSNM	8279	12172	76.3	70.2	203.6	69.3	71.3
	FFP	5041	7516	76.8	64.6	188.5	69.3	71.3
Location mean		8910.3	13086.7	76.5	70.6	215.9	68.2	70.2
C.D.(5%) AiBj-AiBk		1011.8	1417.0	4.4	3.2	11.7	0.8	0.8
C.D.(5%) AiBk-AjBk		1453.5	2187.5	5.2	4.8	14.3	1.1	1.1
F(5%)		NS	NS	NS	NS	NS	NS	NS
K 25 Gold		10556	15493	78.6	74.5	221.3	68.1	70.1
Bisco 855		9035	13274	74.0	68.6	209.7	67.2	69.2
Bio 9220		8475	12428	76.4	70.8	217.9	67.7	69.7
DKC 9106		9595	14075	76.1	71.4	232.3	68.6	70.6
HQPM 1		6890	10163	77.4	67.6	198.4	69.6	71.6
C.D. (5%) Ai-Aj		1198.0	1859.2	3.9	4.0	10.7	0.9	0.9
C.V. (%) Error A		12.4	13.1	4.7	5.3	4.6	1.3	1.2
F (5%)		S	S	NS	S	S	S	S
RDF		9110	13397	77.5	71.7	217.9	68.5	70.5
SSNM		10338	15176	76.8	72.2	222.9	68.0	70.0
FFP		7283	10687	75.2	67.9	207.0	68.2	70.2
C.D. (5%) Bi-Bj		452.5	633.7	1.9	1.4	5.2	0.4	0.4
C.V. (%) ErrorB		6.7	6.4	3.3	2.7	3.2	0.7	0.7
F (5%)		S	S	NS	S	S	S	S

Treatment details:

A. Main plot: Hybrids

H1: K 25 Gold
H2: Bisco 855
H3: Bio 9220
H4: DKC 9106
H5: HQPM 1

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (120:60:40)
N2: SSNM based on nutrient expert (150:64:113)
N3: FFP- 50% of RDF (60:30:20)

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Hybrids	Nutrient management	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
K 25 Gold	RDF	30.7	103667	3.84	6.7	17.0	15.6	14.7	38.0
	SSNM	32.0	119882	4.07	7.6	16.9	16.0	15.0	39.0
	FFP	29.3	84874	3.55	8.3	15.5	15.3	14.3	34.0
Bisco 855	RDF	37.3	89098	3.44	8.6	16.1	15.0	12.3	35.0
	SSNM	38.7	93167	3.38	8.3	17.6	15.0	12.3	37.3
	FFP	34.0	66072	2.99	9.6	16.1	14.4	13.3	36.0
Bio 9220	RDF	28.7	80023	3.19	7.2	15.7	15.1	14.3	34.0
	SSNM	32.0	88683	3.27	6.9	16.0	15.3	14.7	34.0
	FFP	30.7	57412	2.73	8.5	15.0	15.4	14.7	32.0
DKC 9106	RDF	31.3	84604	3.32	6.4	14.5	15.6	14.3	32.0
	SSNM	31.3	113913	3.92	7.4	14.7	15.8	14.3	33.7
	FFP	31.3	71883	3.16	8.3	13.5	15.5	15.0	30.0
HQPM 1	RDF	27.3	60346	2.65	15.1	15.7	14.6	14.0	36.3
	SSNM	28.0	70021	2.79	11.9	16.5	14.8	14.0	37.3
	FFP	25.3	33266	2.00	15.8	16.1	14.7	13.7	35.7
Location mean		31.2	81127.4	3.22	9.1	15.8	15.2	14.1	35.0
C.D.(5%) AiBj-AiBk		5.2	13251.2	0.37	3.9	1.2	1.1	1.2	4.2
C.D.(5%) AiBk-AjBk		4.5	19175.2	0.53	6.2	1.9	1.1	1.5	4.5
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
K 25 Gold		30.7	102807	3.82	7.5	16.5	15.6	14.7	37.0
Bisco 855		36.7	82779	3.27	8.8	16.6	14.8	12.7	36.1
Bio 9220		30.4	75373	3.06	7.5	15.6	15.3	14.6	33.3
DKC 9106		31.3	90134	3.47	7.4	14.2	15.6	14.6	31.9
HQPM 1		26.9	54544	2.48	14.3	16.1	14.7	13.9	36.4
C.D. (5%) Ai-Aj		1.5	15857.4	0.44	5.3	1.7	0.7	1.1	2.9
C.V. (%) Error A		4.6	18.0	12.5	53.5	9.6	4.1	7.3	7.5
F (5%)		S	S	S	NS	NS	S	S	S
RDF		31.1	83548	3.29	8.8	15.8	15.2	13.9	35.1
SSNM		32.4	97133	3.49	8.4	16.4	15.4	14.1	36.3
FFP		30.1	62701	2.89	10.1	15.2	15.1	14.2	33.5
C.D. (5%) Bi-Bj		2.3	5926.1	0.16	1.7	0.5	0.5	0.5	1.9
C.V. (%) ErrorB		9.8	9.6	6.7	25.0	4.5	4.1	5.0	7.1
F (5%)		NS	S	S	NS	S	NS	NS	S

Table 36: Nutrient management for maize genotypes under different cropping systems in Srinagar.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
DKC 7074	RDF	6930	14079	82.5	90.6	214.7	90.7	95.7
	SSNM	6345	14308	82.2	90.5	218.3	92.3	96.3
	FFP	3950	11367	82.5	72.4	212.3	84.3	89.7
HQPM-1	RDF	7542	13876	82.3	99.4	238.3	87.3	92.0
	SSNM	7223	13494	82.4	98.7	240.3	86.3	91.0
	FFP	4076	10568	82.3	88.4	229.0	79.0	84.3
Bio 605	RDF	7152	10487	82.4	97.2	217.7	87.0	91.7
	SSNM	6918	10637	82.2	94.7	219.3	86.0	93.0
	FFP	4330	11738	82.4	68.5	205.7	82.7	88.3
Kanchan 101	RDF	6445	12692	82.5	95.2	232.3	89.3	93.7
	SSNM	6064	12800	82.4	96.7	235.7	90.3	96.0
	FFP	3777	12367	82.4	78.5	216.7	85.7	91.0
HM-4	RDF	6147	13220	82.5	87.2	213.3	85.0	90.0
	SSNM	5417	12633	82.3	84.7	219.7	86.3	92.3
	FFP	3441	12637	82.7	65.4	207.7	79.7	84.7
Location mean		5717.0	12460.2	82.4	87.2	221.4	86.1	91.3
C.D.(5%) AiBj-AiBk		334.1	516.5	0.9	2.4	9.7	3.0	2.9
C.D.(5%) AiBk-AjBk		312.0	609.8	0.8	2.1	9.8	3.3	2.8
F(5%)		S	S	NS	S	NS	NS	NS
DKC 7074		5742	13251	82.4	84.5	215.1	89.1	93.9
HQPM-1		6280	12646	82.3	95.5	235.9	84.2	89.1
Bio 605		6133	10954	82.3	86.8	214.2	85.2	91.0
Kanchan 101		5428	12619	82.5	90.1	228.2	88.4	93.6
HM-4		5001	12830	82.5	79.1	213.6	83.7	89.0
C.D. (5%) Ai-Aj		151.9	441.6	0.5	0.9	5.9	2.2	1.5
C.V. (%) Error A		2.4	3.3	0.5	1.0	2.4	2.4	1.5
F (5%)		S	S	NS	S	S	S	S
RDF (120:60:40)		6843	12871	82.4	93.9	223.3	87.9	92.6
SSNM (90:50:30)		6393	12775	82.3	93.1	226.7	88.3	93.7
FFP (20:10:00)		3915	11735	82.5	74.7	214.3	82.3	87.6
C.D. (5%) Bi-Bj		149.4	231.0	0.4	1.1	4.3	1.4	1.3
C.V. (%) ErrorB		3.4	2.4	0.6	1.6	2.6	2.1	1.8
F (5%)		S	S	NS	S	S	S	S

Treatment details:

A. Main plot: Hybrids

H1: DKC 7074
H2: HQPM-1
H3: Bio 605
H4: Kanchan 101
H5: HM-4

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (120:60:40)
N2: SSNM based on nutrient expert (90:50:30)
N3: Farmers fertilizer practice (20:10:00)

Cont…..

Hybrids	Nutrient management	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
DKC 7074	RDF	24.7	130678	2.9	12.3	19.2	13.4	14.0	43.1
	SSNM	25.2	117739	2.5	12.7	19.3	13.5	12.7	41.3
	FFP	21.4	71668	1.4	22.9	15.3	11.0	10.8	38.6
HQPM-1	RDF	24.6	144477	2.9	12.0	23.3	13.2	14.2	47.5
	SSNM	25.0	139263	3.0	12.4	22.0	12.3	13.9	46.8
	FFP	22.3	84080	1.9	23.2	17.3	9.9	10.9	39.1
Bio 605	RDF	24.7	139840	3.0	10.4	21.7	12.9	13.9	42.5
	SSNM	25.0	134748	2.8	11.2	20.0	12.3	13.5	40.3
	FFP	21.2	75882	1.7	24.8	16.6	11.2	10.7	36.5
Kanchan 101	RDF	25.1	123874	2.6	11.5	20.9	13.2	13.1	41.0
	SSNM	24.9	115215	2.4	11.5	20.0	12.2	12.8	39.5
	FFP	21.9	67672	1.5	25.2	17.7	10.6	10.8	33.6
HM-4	RDF	25.1	114411	2.4	12.8	18.6	12.7	12.3	40.2
	SSNM	25.2	105017	2.2	11.7	19.3	11.7	13.0	37.8
	FFP	21.6	57737	1.2	23.8	16.3	10.9	9.9	33.2
Location mean		23.8	108153.4	2.3	15.9	19.2	12.1	12.4	40.1
C.D.(5%) AiBj-AiBk		1.4	4668.2	0.2	2.2	1.8	1.8	1.1	1.7
C.D.(5%) AiBk-AjBk		1.3	4593.9	0.2	2.2	2.2	2.0	1.0	2.4
F(5%)		NS	S	NS	NS	NS	NS	NS	S
DKC 7074		23.7	106695	2.3	16.0	17.9	12.7	12.5	41.0
HQPM-1		24.0	122607	2.6	15.9	20.9	11.8	13.0	44.4
Bio 605		23.6	116823	2.5	15.5	19.4	12.1	12.7	39.8
Kanchan 101		24.0	102253	2.1	16.1	19.6	12.0	12.2	38.0
HM-4		23.9	92388	1.9	16.1	18.1	11.8	11.7	37.0
C.D. (5%) Ai-Aj		0.5	2572.8	0.1	1.2	1.6	1.4	0.4	1.9
C.V. (%) Error A		2.1	2.2	5.3	7.1	7.7	10.4	3.3	4.4
F (5%)		NS	S	S	NS	S	NS	S	S
RDF (120:60:40)		24.8	130656	2.7	11.8	20.8	13.1	13.5	42.9
SSNM (90:50:30)		25.0	122396	2.6	11.9	20.1	12.4	13.2	41.1
FFP (20:10:00)		21.7	71408	1.5	24.0	16.7	10.7	10.6	36.2
C.D. (5%) Bi-Bj		0.6	2087.7	0.1	1.0	0.8	0.8	0.5	0.8
C.V. (%) ErrorB		3.4	2.5	5.9	8.1	5.6	8.7	5.1	2.5
F (5%)		S	S	S	S	S	S	S	S

Table 37: Nutrient management for maize genotypes under different cropping systems in Karnal.

Hybrids	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs./ha)	B:C ratio
HQPM-1	100% RDF	7872	9718	70.2	200.3	51.3	53.0	82459	3.0
	SSNM	8036	9921	70.1	204.7	51.7	54.3	83926	3.0
	FFP	8345	10302	69.6	208.0	49.7	52.3	88208	3.1
PMH-1	100% RDF	7766	9588	70.1	232.7	50.0	52.3	80895	3.0
	SSNM	7952	9817	70.2	243.3	51.7	53.7	82675	3.0
	FFP	8289	10233	69.8	257.3	48.7	50.7	87374	3.1
PMH-3	100% RDF	8075	9969	69.6	248.3	52.7	55.3	85478	3.1
	SSNM	8285	10229	69.3	255.0	52.7	54.7	87623	3.1
	FFP	8553	10559	69.7	256.7	50.0	51.7	91296	3.2
CMH-08-292	100% RDF	7686	9489	69.3	213.3	51.3	53.3	79708	3.0
	SSNM	7857	9700	70.1	218.3	49.3	51.7	81263	3.0
	FFP	8142	10052	70.4	227.7	48.3	50.7	85197	3.0
Location mean		8071.5	9964.8	69.9	230.5	50.6	52.8	84675.2	3.0
C.D.(5%) AiBj-AiBk		463.7	572.5	1.9	12.3	1.1	1.2	6886.4	0.2
C.D.(5%) AiBk-AjBk		514.0	634.6	2.0	10.8	1.2	1.2	7633.6	0.2
F(5%)		NS	NS	NS	NS	S	S	NS	NS
HQPM-1		8084	9981	70.0	204.3	50.9	53.2	84864	3.0
PHM-1		8002	9879	70.1	244.4	50.1	52.2	83648	3.0
PHM-3		8304	10252	69.6	253.3	51.8	53.9	88132	3.1
CMH-08-292		7895	9747	69.9	219.8	49.7	51.9	82056	3.0
C.D. (5%) Ai-Aj		349.6	431.6	1.2	4.0	0.8	0.6	5191.4	0.1
C.V. (%) Error A		3.8	3.8	1.5	1.5	1.4	1.0	5.3	3.5
F (5%)		NS	NS	NS	S	S	S	NS	NS
100% RDF (150:60:60)		7850	9691	69.8	223.7	51.3	53.5	82135	3.0
SSNM (172:65:74)		8033	9917	69.9	230.3	51.3	53.6	83872	3.0
FFP (210:95:50)		8332	10287	69.9	237.4	49.2	51.3	88019	3.1
C.D. (5%) Bi-Bj		231.9	286.3	1.0	6.1	0.6	0.6	3443.2	0.1
C.V. (%) ErrorB		3.3	3.3	1.6	3.1	1.3	1.3	4.7	3.1
F (5%)		S	S	NS	S	S	S	S	NS

Treatment details:

A. Main plot: Hybrids	**B. Sub plot: Nutrient management (N:P2O5:K2O)**
H1: HQPM-1	N1: 100% RDF (150:60:60)
H2: PMH-1	N2: SSNM based on nutrient expert (172:65:74)
H3: PMH-3	N3: Farmers Practice (210:95:50)
H4: CMH-08-292	

Table 38: Nutrient management for maize genotypes under different cropping systems in Ludhiana.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Net returns (Rs./ha)	BC ratio
PMH 1	RDF	7361	13620	65.0	65.7	59.0	61.0	231.7	62505	1.44
	SSNM	7465	14481	65.3	66.0	58.3	61.3	234.7	61755	1.34
	FP	6875	12238	65.5	66.0	60.0	61.7	218.3	55537	1.29
PMH 3	RDF	7326	13553	65.0	66.2	59.7	61.3	224.0	62003	1.43
	SSNM	7674	14887	65.5	66.2	60.7	62.7	229.0	64768	1.40
	FP	6563	11681	65.0	65.7	61.0	62.7	209.3	51053	1.18
HQPM 1	RDF	6076	11667	64.4	65.0	58.3	60.3	176.3	55853	1.29
	SSNM	6493	12854	65.0	65.5	58.0	60.0	183.3	59777	1.28
	FP	5579	10486	64.6	65.5	58.7	60.7	155.0	47928	1.11
PMH 4	RDF	6424	11113	65.0	68.1	55.3	57.3	173.3	48469	1.12
	SSNM	7049	12757	64.8	68.3	55.7	57.7	177.3	54170	1.15
	FP	5949	9697	65.0	67.4	58.0	60.0	159.0	41628	0.97
CM-08-292	RDF	6979	12912	65.3	66.4	57.7	59.7	230.0	57006	1.31
	SSNM	7639	14819	65.3	66.7	56.7	58.7	232.0	63346	1.35
	FP	5972	10630	64.6	66.2	59.7	61.7	212.7	42584	0.99
Location mean		6761.6	12493.1	65.0	66.3	58.4	60.4	203.1	55225.6	1.24
C.D.(5%) AiBj-AiBk		1152.2	2145.1	2.0	2.0	2.9	2.7	19.5	17174.1	0.39
C.D.(5%) AiBk-AjBk		1133.3	2104.5	2.2	2.1	2.6	2.6	20.0	16753.0	0.38
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
PMH 1		7234	13447	65.3	65.9	59.1	61.3	228.2	59932	1.35
PMH 3		7188	13373	65.2	66.0	60.4	62.2	220.8	59275	1.34
HQPM 1		6049	11669	64.7	65.4	58.3	60.3	171.6	54519	1.23
PMH 4		6474	11189	65.0	67.9	56.3	58.3	169.9	48089	1.08
CM-08-292		6863	12787	65.0	66.4	58.0	60.0	224.9	54312	1.21
C.D. (5%) Ai-Aj		634.0	1170.6	1.5	1.4	1.2	1.3	12.2	9197.9	0.21
C.V. (%)										
Error A		8.6	8.6	2.1	2.0	1.9	1.9	5.5	15.3	15.24
F (5%)		S	S	NS	S	S	S	S	NS	NS
RDF (125:60:30)		6833	12573	65.0	66.3	58.0	59.9	207.1	57167	1.32
SSNM (as per genotype)		7264	13960	65.2	66.5	57.9	60.1	211.3	60763	1.30
FFP (175:57.5:00)		6188	10946	65.0	66.2	59.5	61.3	190.9	47746	1.11
C.D. (5%) Bi-Bj		515.3	959.3	0.9	0.9	1.3	1.2	8.7	7680.5	0.17
C.V. (%)										
ErrorB		10.0	10.1	1.8	1.8	2.9	2.7	5.6	18.3	18.22
F (5%)		S	S	NS	NS	S	NS	S	S	S

Treatments details:

Main plot: Hybrids

H1: PMH 1
H2: PMH 3
H3: HQPM 1
H4: PMH 4
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (125:60:30)

N2: SSNM based on nutrient expert (as per genotype)

H1: PMH 1 (220:60:145)
H2: PMH 3 (220:60:145)
H3: HQPM 1 (220:50:120)
H4: PMH 4 (220:54:128)
H5: CMH-08-292 (220:54:128)

N3: Farmers practices (175:57.5:00)

Table 39: Nutrient management for maize genotypes under different cropping systems in Pantnagar.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
100% RDF	PMH-1	5832	11612	77.8	78.8	200.0	52.0	54.7	34.1
	PMH-3	5775	11134	79.1	80.0	201.1	52.7	54.7	27.7
	HQPM-1	5710	11467	77.6	78.5	194.4	50.3	53.7	28.7
	CAH-1561	5126	10556	78.9	80.4	183.2	53.7	56.7	28.7
	CMH-08-292	5562	10934	78.2	79.3	198.9	50.3	54.0	31.8
SSNM	PMH-1	7330	12867	78.5	80.5	221.7	50.7	54.3	39.3
	PMH-3	6324	11578	78.7	80.5	209.5	51.7	55.0	31.7
	HQPM-1	6425	11747	81.8	83.5	199.4	50.0	53.0	29.2
	CAH-1561	5519	10695	77.6	83.0	188.8	54.3	58.0	29.4
	CMH-08-292	5838	12289	77.5	78.7	213.9	50.7	54.0	32.8
FFP	PMH-1	5669	11312	78.5	79.1	200.5	52.3	55.3	32.5
	PMH-3	5237	10445	80.9	81.7	194.2	51.7	54.7	26.8
	HQPM-1	5236	9928	80.4	81.5	192.8	50.7	54.3	27.9
	CAH-1561	4999	10045	76.4	77.6	172.2	54.7	58.0	23.9
	CMH-08-292	4949	9689	78.2	79.5	193.9	52.0	55.7	29.0
Location mean		5702.2	11086.5	78.7	80.2	197.6	51.8	55.1	30.2
C.D.(5%) AiBj-AiBk		228.4	390.7	5.5	5.2	8.0	2.9	2.8	0.9
C.D.(5%) AiBk-AjBk		247.0	407.4	5.6	5.7	7.9	3.4	3.8	0.9
F(5%)		S	S	NS	NS	NS	NS	NS	S
100% RDF (120:60:40)		5601	11140	78.3	79.4	195.5	51.8	54.7	30.2
SSNM (as per genotype)		6287	11835	78.8	81.2	206.7	51.5	54.9	32.5
FFP (93:64:32)		5218	10284	78.9	79.9	190.7	52.3	55.6	28.0
C.D. (5%) Ai-Aj		142.5	215.4	2.7	3.3	3.5	2.2	2.9	0.3
C.V. (%) Error A		2.5	1.9	3.4	4.1	1.7	4.2	5.2	0.9
F (5%)		S	S	NS	NS	S	NS	NS	S
PMH-1		6277	11930	78.2	79.5	207.4	51.7	54.8	35.3
PMH-3		5779	11052	79.5	80.8	201.6	52.0	54.8	28.7
HQPM-1		5791	11047	79.9	81.2	195.5	50.3	53.7	28.6
CAH-1561		5215	10432	77.6	80.3	181.4	54.2	57.6	27.3
CMH-08-292		5449	10971	78.0	79.2	202.2	51.0	54.6	31.2
C.D. (5%) Bi-Bj		131.9	225.5	3.2	3.0	4.6	1.7	1.6	0.5
C.V. (%) ErrorB		2.4	2.1	4.2	3.8	2.4	3.3	3.0	1.8
F (5%)		S	S	NS	NS	S	S	S	S

Treatments details:

Main plot: Hybrids

H1: PMH 1
H2: PMH 3
H3: HQPM 1
H4: CAH-1561
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (120:60:40)
N2: SSNM based on nutrient expert (as per genotype)
H1: PMH 1 (140:37:71) H4: CAH-1561 (140:37:71)
H2: PMH 3 (140:37:71) H5: CMH-08-292 (140:37:71)
H3: HQPM 1 (120:33:46)
N3: Farmers practices (93:64:32)

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Hybrids	Nutrient management	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Total uptake maize (kg/ha)		
								N	P_2O_5	K_2O
100% RDF	PMH-1	52095	2.07	15.4	14.5	12.6	33.6	225.5	35.9	54.1
	PMH-3	51331	2.04	16.6	14.6	12.9	33.6	222.4	35.6	53.5
	HQPM-1	50479	2.00	15.6	14.1	13.3	32.8	231.7	35.0	50.8
	CAH-1561	42741	1.70	14.7	14.1	12.5	31.5	199.6	30.8	47.6
	CMH-08-292	48509	1.92	16.9	14.2	13.1	32.9	214.1	34.6	51.2
SSNM	PMH-1	71923	2.85	15.7	14.8	15.2	37.6	289.3	52.3	57.3
	PMH-3	58602	2.33	17.3	14.9	14.4	35.8	233.7	42.2	47.3
	HQPM-1	61119	2.54	15.7	14.5	14.2	34.9	281.2	45.0	55.7
	CAH-1561	47936	1.90	15.5	14.4	13.9	33.7	213.4	38.1	46.7
	CMH-08-292	52154	2.07	17.2	15.4	14.4	35.4	265.3	48.0	55.9
FFP	PMH-1	50819	2.09	14.9	13.9	12.4	26.4	183.8	30.9	47.6
	PMH-3	45090	1.86	16.8	12.8	12.1	24.9	180.8	30.9	45.5
	HQPM-1	45081	1.86	14.3	13.8	12.4	24.4	204.7	33.8	48.7
	CAH-1561	41941	1.72	13.9	13.8	12.0	23.3	177.0	29.5	44.6
	CMH-08-292	41274	1.70	16.2	13.2	12.5	24.9	171.2	29.1	44.5
Location mean		50739.7	2.04	15.8	14.2	13.2	31.1	219.6	36.8	50.1
C.D.(5%) AiBj-AiBk		3025.9	0.12	1.0	0.3	0.4	0.9	59.2	11.0	15.2
C.D.(5%) AiBk-AjBk		3271.8	0.13	1.0	0.3	0.5	1.1	89.0	15.6	23.5
F(5%)		S	S	NS	S	S	NS	NS	NS	NS
100% RDF (120:60:40)		49031	1.95	15.8	14.3	12.9	32.9	218.7	34.4	51.4
SSNM (as per genotype)		58347	2.34	16.3	14.8	14.4	35.5	256.6	45.1	52.6
FFP (93:64:32)		44841	1.85	15.2	13.5	12.3	24.8	183.5	30.9	46.2
C.D. (5%) Ai-Aj		1888.1	0.07	0.4	0.1	0.3	0.7	72.7	12.3	19.4
C.V. (%) Error A		3.7	3.6	2.3	0.9	2.4	2.3	32.6	32.9	38.3
F (5%)		S	S	S	S	S	S	NS	NS	NS
PMH-1		58279	2.34	15.3	14.4	13.4	32.5	232.9	39.7	53.0
PMH-3		51674	2.07	16.9	14.1	13.1	31.4	212.3	36.2	48.8
HQPM-1		52226	2.13	15.2	14.1	13.3	30.7	239.2	38.0	51.7
CAH-1561		44206	1.77	14.7	14.1	12.8	29.5	196.6	32.8	46.3
CMH-08-292		47312	1.90	16.7	14.2	13.3	31.1	216.9	37.2	50.5
C.D. (5%) Bi-Bj		1747.0	0.07	0.6	0.2	0.3	0.5	34.2	6.4	8.8
C.V. (%) ErrorB		3.5	3.6	3.7	1.2	2.0	1.7	16.0	17.8	18.0
F (5%)		S	S	S	S	S	S	NS	NS	NS

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Hybrids	Nutrient management	Maize						
		pH	EC (d Sm/m)	Org. C (%)	Bulk density (g/cm^3)	Available N (kg/ha)	Available P (kg/ha)	Available K (kg/ha)
100% RDF	PMH-1	7.10	0.32	0.82	1.41	185.1	32.2	144.0
	PMH-3	7.07	0.30	0.78	1.40	186.7	30.7	146.3
	HQPM-1	7.17	0.32	0.86	1.44	184.0	29.4	150.9
	CAH-1561	7.07	0.32	0.85	1.36	181.3	28.4	139.8
	CMH-08-292	7.00	0.31	0.82	1.39	185.2	28.7	144.0
SSNM	PMH-1	7.17	0.33	0.89	1.39	200.4	29.7	154.8
	PMH-3	7.10	0.34	0.89	1.40	204.9	30.0	153.0
	HQPM-1	7.23	0.34	0.80	1.43	194.4	31.0	157.2
	CAH-1561	7.07	0.35	0.87	1.36	208.6	30.1	150.3
	CMH-08-292	7.07	0.34	0.90	1.42	199.6	29.0	154.1
FFP	PMH-1	7.10	0.35	0.85	1.41	194.5	28.8	147.2
	PMH-3	7.17	0.36	0.84	1.42	195.7	32.1	146.7
	HQPM-1	7.13	0.32	0.80	1.44	199.2	33.4	146.4
	CAH-1561	7.23	0.34	0.83	1.37	201.5	31.8	146.7
	CMH-08-292	7.27	0.33	0.87	1.41	201.6	29.7	144.8
Location mean		7.13	0.33	0.84	1.40	194.8	30.3	148.4
C.D.(5%) AiBj-AiBk		0.21	0.04	0.06	0.04	7.8	3.1	7.7
C.D.(5%) AiBk-AjBk		0.22	0.04	0.07	0.07	9.2	3.3	9.0
F(5%)		NS	NS	NS	NS	S	NS	NS
100% RDF (120:60:40)		7.08	0.31	0.83	1.40	184.5	29.9	145.0
SSNM (as per genotype)		7.13	0.34	0.87	1.40	201.6	29.9	153.9
FFP (93:64:32)		7.18	0.34	0.84	1.41	198.5	31.2	146.4
C.D. (5%) Ai-Aj		0.12	0.02	0.04	0.06	6.1	2.0	6.0
C.V. (%) Error A		1.63	4.85	4.67	4.02	3.1	6.4	4.0
F (5%)		NS	S	NS	NS	S	NS	S
PMH-1		7.12	0.33	0.85	1.40	193.3	30.2	148.7
PMH-3		7.11	0.33	0.84	1.40	195.8	30.9	148.7
HQPM-1		7.18	0.33	0.82	1.44	192.6	31.3	151.5
CAH-1561		7.12	0.34	0.85	1.37	197.1	30.1	145.6
CMH-08-292		7.11	0.33	0.86	1.41	195.5	29.1	147.6
C.D. (5%) Bi-Bj		0.12	0.02	0.04	0.02	4.5	1.8	4.4
C.V. (%) ErrorB		1.78	7.25	4.54	1.76	2.4	6.0	3.1
F (5%)		NS	NS	NS	S	NS	NS	NS

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Hybrids	Nutrient management	Wheat						
		pH	EC (d Sm/m)	Org. C (%)	Bulk density (g/cm^3)	Available N (kg/ha)	Available P (kg/ha)	Available K (kg/ha)
100% RDF	PMH-1	7.17	0.33	0.84	1.41	181.2	32.4	143.7
	PMH-3	7.17	0.30	0.79	1.40	184.7	31.1	144.4
	HQPM-1	7.20	0.32	0.87	1.44	183.8	31.1	148.2
	CAH-1561	7.20	0.32	0.86	1.38	180.7	29.4	138.6
	CMH-08-292	7.20	0.31	0.83	1.37	182.4	27.6	144.5
SSNM	PMH-1	7.27	0.35	0.91	1.37	197.8	27.6	156.7
	PMH-3	7.20	0.34	0.90	1.39	205.4	28.7	155.6
	HQPM-1	7.23	0.33	0.82	1.40	191.4	28.4	155.9
	CAH-1561	7.13	0.35	0.89	1.36	206.7	27.9	153.2
	CMH-08-292	7.20	0.33	0.92	1.41	202.5	27.3	156.9
FFP	PMH-1	7.03	0.33	0.85	1.42	193.2	30.1	142.9
	PMH-3	7.20	0.34	0.86	1.44	192.2	33.6	145.0
	HQPM-1	7.17	0.31	0.82	1.43	196.2	35.6	143.2
	CAH-1561	7.23	0.32	0.84	1.39	199.1	34.1	143.5
	CMH-08-292	7.27	0.31	0.90	1.42	199.2	31.9	143.6
Location mean		7.19	0.33	0.86	1.40	193.1	30.5	147.7
C.D.(5%) AiBj-AiBk		0.14	0.03	0.06	0.04	6.9	3.1	7.2
C.D.(5%) AiBk-AjBk		0.19	0.02	0.06	0.05	7.6	3.2	8.0
F(5%)		NS	NS	S	NS	S	NS	NS
100% RDF (120:60:40)		7.19	0.32	0.84	1.40	182.6	30.3	143.9
SSNM (as per genotype)		7.21	0.34	0.89	1.38	200.8	28.0	155.7
FFP (93:64:32)		7.18	0.32	0.85	1.42	196.0	33.1	143.6
C.D. (5%) Ai-Aj		0.15	0.01	0.03	0.04	4.5	1.6	4.9
C.V. (%) Error A		2.01	2.42	3.89	3.02	2.3	5.2	3.3
F (5%)		NS	S	S	NS	S	S	S
PMH-1		7.16	0.34	0.87	1.40	190.8	30.0	147.8
PMH-3		7.19	0.33	0.85	1.41	194.1	31.1	148.3
HQPM-1		7.20	0.32	0.83	1.42	190.5	31.7	149.1
CAH-1561		7.19	0.33	0.86	1.38	195.5	30.5	145.1
CMH-08-292		7.22	0.32	0.88	1.40	194.7	29.0	148.3
C.D. (5%) Bi-Bj		0.08	0.01	0.04	0.02	4.0	1.8	4.2
C.V. (%) ErrorB		1.18	4.71	4.23	1.58	2.1	6.1	2.9
F (5%)		NS	NS	NS	S	S	S	NS

Table 40: Nutrient management for maize genotypes under different cropping systems in Ambikapur.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
NK 30	100% RDF	7640	13113	64.2	71.3	238.1	53.7	55.7
	SSNM	8615	14659	64.7	75.3	240.8	56.3	58.0
	FFP	5882	12019	64.4	64.2	225.8	54.3	56.3
Bioseed 9682	100% RDF	7710	12971	64.0	69.6	233.7	53.7	55.7
	SSNM	8058	12858	64.4	72.0	239.5	53.3	55.0
	FFP	5626	10477	63.6	63.6	223.5	54.3	56.3
HQPM 1	100% RDF	6852	11143	64.7	66.7	221.3	55.7	57.7
	SSNM	8095	12813	65.1	70.2	228.3	56.0	58.3
	FFP	5099	9373	64.9	64.9	210.4	54.7	56.7
CMH-08-350	100% RDF	6363	11046	64.7	64.7	205.2	54.7	56.7
	SSNM	6920	11757	65.1	65.6	211.5	55.0	56.7
	FFP	4935	8858	65.3	65.3	201.9	52.0	54.0
CMH-08-292	100% RDF	6618	11059	64.7	65.3	219.1	54.3	56.3
	SSNM	7152	11244	64.0	66.7	223.2	54.7	56.3
	FFP	5073	9505	64.7	64.7	209.5	54.0	56.0
Location mean		6709.2	11526.3	64.6	67.3	222.1	54.4	56.4
C.D.(5%) AiBj-AiBk		959.0	2638.9	1.5	2.6	16.2	2.4	2.5
C.D.(5%) AiBk-AjBk		1294.2	3132.0	1.8	2.3	20.7	2.5	2.7
F(5%)		NS	NS	NS	S	NS	NS	NS
NK 30		7379	13264	64.4	70.3	234.9	54.8	56.7
Bioseed 9682		7131	12102	64.0	68.4	232.2	53.8	55.7
HQPM 1		6682	11110	64.9	67.3	220.0	55.4	57.6
CMH-08-350		6073	10553	65.0	65.2	206.2	53.9	55.8
CMH-08-292		6281	10603	64.4	65.6	217.3	54.3	56.2
C.D. (5%) Ai-Aj		1032.4	2278.4	1.3	1.0	15.9	1.6	1.7
C.V. (%) Error A		14.2	18.2	1.9	1.3	6.6	2.6	2.8
F (5%)		NS	NS	NS	S	S	NS	NS
100% RDF (150:60:40)		7037	11866	64.4	67.5	223.5	54.4	56.4
SSNM (170:67:86)		7768	12666	64.7	70.0	228.7	55.1	56.9
FFP (120:60:40)		5323	10046	64.6	64.5	214.2	53.9	55.9
C.D. (5%) Bi-Bj		428.9	1180.2	0.7	1.2	7.2	1.1	1.1
C.V. (%) ErrorB		8.4	13.4	1.4	2.3	4.3	2.6	2.6
F (5%)		S	S	NS	S	S	NS	NS

Treatment details:

A. Main plot: Hybrids

H1: NK 30
H2: Bioseed 9682
H3: HQPM 1
H4: CMH-08-350
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: 100% RDF (150:60:40)
N2: SSNM based on nutrient expert (170:67:86)
N3: Farmer's Practice (120:60:40)

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Hybrids	Nutrient management	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
NK 30	100% RDF	38.5	71516	2.67	17.5	15.2	15.4	40.6
	SSNM	37.5	84427	3.09	18.2	15.8	16.0	42.2
	FFP	34.9	51874	2.12	17.0	14.0	13.6	35.1
Bioseed 9682	100% RDF	36.5	72613	2.71	17.3	15.1	15.3	39.9
	SSNM	38.4	76309	2.80	17.9	15.6	16.0	41.3
	FFP	32.0	48255	1.97	16.7	13.9	13.6	35.1
HQPM 1	100% RDF	36.5	61746	2.30	16.8	14.9	15.2	39.6
	SSNM	36.2	77071	2.82	17.6	15.4	15.9	41.2
	FFP	33.7	41548	1.70	16.1	13.5	13.3	33.0
CMH-08-350	100% RDF	33.2	55758	2.08	16.6	14.3	14.1	36.9
	SSNM	34.1	62010	2.27	16.6	14.1	14.3	39.0
	FFP	32.9	38749	1.58	15.3	12.3	12.6	32.2
CMH-08-292	100% RDF	34.6	58129	2.17	16.1	14.7	14.4	38.4
	SSNM	35.9	64270	2.35	17.0	14.8	14.6	39.4
	FFP	34.5	40997	1.67	15.7	12.7	13.1	32.9
Location mean		35.3	60351.6	2.29	16.8	14.4	14.5	37.8
C.D.(5%) AiBj-AiBk		2.3	12533.4	0.48	1.6	1.2	0.9	2.6
C.D.(5%) AiBk-AjBk		2.4	17160.3	0.65	1.4	1.2	1.2	3.2
F(5%)		S	NS	NS	NS	NS	NS	NS
NK 30		36.9	69272	2.63	17.5	15.0	15.0	39.3
Bioseed 9682		35.6	65726	2.49	17.3	14.9	15.0	38.8
HQPM 1		35.5	60122	2.27	16.8	14.6	14.8	38.0
CMH-08-350		33.4	52173	1.98	16.2	13.6	13.6	36.1
CMH-08-292		35.0	54465	2.07	16.2	14.1	14.0	36.9
C.D. (5%) Ai-Aj		1.6	13800.3	0.53	0.6	0.7	0.9	2.4
C.V. (%) Error A		4.2	21.0	21.1	3.2	4.2	5.8	5.7
F (5%)		S	NS	NS	S	S	S	NS
100% RDF (150:60:40)		35.8	63952	2.39	16.9	14.8	14.9	39.1
SSNM (170:67:86)		36.4	72818	2.67	17.5	15.1	15.3	40.6
FFP (120:60:40)		33.6	44285	1.81	16.1	13.3	13.2	33.7
C.D. (5%) Bi-Bj		1.0	5605.1	0.21	0.7	0.6	0.4	1.2
C.V. (%) ErrorB		3.8	12.2	12.3	5.6	5.0	3.6	4.1
F (5%)		S	S	S	S	S	S	S

Table 41: Nutrient managements for maize genotypes under different cropping system in Bahraich.

Hybrids	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	100-seed weight (g)
PMH-1	RDF	4865	6574	5767	82.7	82.3	204.3	24.8
	SSNM	5057	6760	6030	82.8	82.3	207.3	25.3
	FFP	3305	4590	4235	82.5	82.1	195.7	22.0
PMH-3	RDF	4958	6701	5887	82.8	82.2	200.0	24.9
	SSNM	5175	6900	6083	82.8	82.2	205.0	25.4
	FFP	3384	4744	4270	82.4	82.1	193.7	22.6
CMH-08-350	RDF	4694	6372	5662	82.8	82.4	198.3	24.7
	SSNM	4931	6633	5820	82.7	82.3	204.3	25.0
	FFP	3134	4435	4072	82.5	82.0	192.3	22.2
CMH-08-287	RDF	3989	5489	4946	83.8	82.4	207.0	24.8
	SSNM	4301	5866	5182	82.8	82.4	209.7	25.0
	FFP	3006	4274	3967	82.4	82.4	199.7	22.4
CMH-08-292	RDF	3915	5363	4856	82.8	82.4	207.0	24.8
	SSNM	4513	6098	5453	82.8	82.4	209.3	25.0
	FFP	3052	4279	4012	82.6	82.2	201.0	22.0
Location mean		4151.9	5671.9	5082.7	82.7	82.3	202.3	24.1
C.D.(5%) AiBj-AiBk		36.8	23.0	97.1	0.8	0.3	1.2	0.1
C.D.(5%) AiBk-AjBk		42.5	23.9	96.4	0.8	0.3	1.2	0.1
F(5%)		S	S	S	NS	NS	S	S
PMH-1		4409	5975	5344	82.7	82.2	202.4	24.0
PMH-3		4506	6115	5413	82.7	82.2	199.6	24.3
CMH-08-350		4253	5814	5184	82.7	82.2	198.3	24.0
CMH-08-287		3765	5210	4698	83.0	82.4	205.4	24.1
CMH-08-292		3827	5247	4774	82.7	82.3	205.8	23.9
C.D. (5%) Ai-Aj		30.1	14.9	55.1	0.5	0.2	0.6	0.1
C.V. (%) Error A		0.7	0.2	1.0	0.5	0.2	0.3	0.2
F (5%)		S	S	S	NS	NS	S	S
RDF (150:50:40)		4484	6100	5423	83.0	82.3	203.3	24.8
SSNM (170:67:84)		4795	6452	5714	82.8	82.3	207.1	25.1
FFP (150:50:00)		3176	4464	4111	82.5	82.2	196.5	22.2
C.D. (5%) Bi-Bj		16.4	10.3	43.4	0.4	0.1	0.5	0.1
C.V. (%) ErrorB		0.5	0.2	1.1	0.6	0.2	0.3	0.3
F (5%)		S	S	S	S	S	S	S

Treatment details:

A. Main plot: Hybrids

H1: PMH-1
H2: PMH-3
H3: CMH-08-350
H4: CMH-08-287
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: RDF (150:50:40)
N2: SSNM based on nutrient expert (170:67:84)
N3: FFP (150:50:00)

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Hybrids	Nutrient management	Days to maturity	System productivity	Net return (Rs./ha)	B:C ratio	Nutrient uptake (kg/ha)		
						N	P	K
PMH-1	RDF	95.0	4610	51869	3.35	145.3	26.8	92.9
	SSNM	98.0	5485	53795	3.34	151.8	27.8	96.5
	FFP	87.0	3607	30498	2.52	98.9	18.5	62.8
PMH-3	RDF	96.7	5378	53297	3.42	147.8	27.2	94.0
	SSNM	99.0	5609	55526	3.41	153.9	28.0	97.7
	FFP	86.7	3689	31641	2.58	100.4	18.6	64.4
CMH-08-350	RDF	93.7	5098	49377	3.24	138.8	25.3	88.1
	SSNM	96.0	5346	51849	3.25	145.9	27.2	92.9
	FFP	84.0	3425	27945	2.39	93.8	17.7	56.5
CMH-08-287	RDF	95.7	4342	38788	2.76	118.4	22.6	75.0
	SSNM	97.0	4671	42727	2.84	127.8	24.7	81.4
	FFP	86.0	3290	24987	2.30	90.0	17.7	57.7
CMH-08-292	RDF	95.0	4261	37659	2.71	117.4	22.2	74.8
	SSNM	96.0	4902	45634	2.91	134.8	25.7	85.7
	FFP	87.7	3339	26741	2.33	91.7	17.3	58.0
Location mean		92.9	4470.2	41488.8	2.89	123.8	23.1	78.5
C.D.(5%) AiBj-AiBk		1.9	511.1	892.8	0.06	0.6	0.3	2.6
C.D.(5%) AiBk-AjBk		2.1	536.8	958.7	0.06	0.6	0.5	2.5
F(5%)		NS	NS	S	S	S	S	S
PMH-1		93.3	4567	45387	3.07	132.0	24.3	84.0
PMH-3		94.1	4892	46821	3.13	134.0	24.6	85.4
CMH-08-350		91.2	4623	43057	2.96	126.2	23.4	79.2
CMH-08-287		92.9	4101	35501	2.63	112.1	21.6	71.4
CMH-08-292		92.9	4167	36678	2.65	114.7	21.7	72.8
C.D. (5%) Ai-Aj		1.4	338.6	624.5	0.03	0.4	0.5	1.4
C.V. (%) Error A		1.4	7.0	1.4	1.1	0.3	1.9	1.6
F (5%)		S	S	S	S	S	S	S
RDF (150:50:40)		95.2	4738	46198	3.10	133.5	24.8	85.0
SSNM (170:67:84)		97.2	5203	49906	3.15	142.8	26.7	90.8
FFP (150:50:00)		86.3	3470	28363	2.42	95.0	17.9	59.9
C.D. (5%) Bi-Bj		0.8	228.6	399.3	0.03	0.2	0.1	1.2
C.V. (%) ErrorB		1.2	6.7	1.3	1.2	0.3	0.8	2.0
F (5%)		S	S	S	S	S	S	S

Table 42: Nutrient management for maize genotypes under different cropping systems in Ranchi.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
PMH-1	100 % RDF	6050	9376	65.3	63.1	234.2	51.0	55.0	31.2
	SSNM	6781	10333	65.6	63.6	213.4	50.7	54.7	32.3
	FFP	3945	7375	66.1	64.2	210.7	51.7	55.7	31.1
PMH-3	100 % RDF	6888	10494	65.6	63.9	211.2	50.3	54.3	29.9
	SSNM	7530	10934	65.8	64.2	226.9	49.0	52.0	30.8
	FFP	4129	7018	66.1	63.3	209.8	50.7	54.7	29.7
CMH-08-350	100 % RDF	7418	10967	66.7	65.0	224.6	48.7	52.7	33.7
	SSNM	8450	12182	66.7	65.6	241.9	48.3	50.3	34.9
	FFP	4480	7293	65.6	62.8	216.3	49.3	53.3	30.4
CMH-08-287	100 % RDF	6652	10546	66.9	65.3	241.1	50.3	53.3	35.2
	SSNM	7376	11420	65.8	63.6	248.5	50.0	53.7	35.5
	FFP	3827	6287	66.7	63.9	213.6	50.7	55.3	31.4
CMH-08-292	100 % RDF	6871	10466	65.6	63.6	243.0	49.0	52.0	32.8
	SSNM	8098	11536	66.4	64.7	242.9	48.3	52.0	35.9
	FFP	4418	7415	66.4	63.9	228.4	50.3	54.3	28.9
Location mean		6194.2	9576.0	66.1	64.0	227.1	49.9	53.6	32.3
C.D.(5%) AiBj-AiBk		881.0	1367.5	3.3	4.2	24.8	2.8	3.2	3.0
C.D.(5%) AiBk-AjBk		870.0	1258.4	4.3	4.8	23.0	3.3	2.9	3.0
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
PMH-1		5592	9028	65.6	63.6	219.5	51.1	55.1	31.6
PMH-3		6182	9482	65.8	63.8	215.9	50.0	53.7	30.1
CMH-08-350		6783	10147	66.3	64.4	227.6	48.8	52.1	33.0
CMH-08-287		5952	9418	66.5	64.3	234.4	50.3	54.1	34.0
CMH-08-292		6463	9806	66.1	64.1	238.1	49.2	52.8	32.5
C.D. (5%) Ai-Aj		491.0	582.4	3.4	3.3	11.0	2.3	1.3	1.8
C.V. (%) Error A		7.3	5.6	4.7	4.7	4.4	4.3	2.2	5.0
F (5%)		S	S	NS	NS	S	NS	S	S
100% RDF		6776	10370	66.0	64.2	230.8	49.9	53.5	32.6
SSNM		7647	11281	66.1	64.3	234.7	49.3	52.5	33.9
FFP		4159.9	7077.5	66.2	63.6	215.8	50.5	54.7	30.3
C.D. (5%) Bi-Bj		394.0	611.6	1.5	1.9	11.1	1.2	1.4	1.3
C.V. (%) ErrorB		8.4	8.4	3.0	3.9	6.4	3.3	3.5	5.5
F (5%)		S	S	NS	NS	S	NS	S	S

Treatment details:

A. Main plot: Hybrids

H1: PMH-1
H2: PMH-3
H3: CMH-08-350
H4: CMH-08-287
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: 100% RDF
N2: SSNM based on nutrient expert
N3: Farmers fertilizer practice

Cont…..

Hybrids	Nutrient management	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grains/ row	Grain rows/cob
PMH-1	100 % RDF	52207	1.76	3.4	18.8	14.6	28.7	13.5
	SSNM	59831	1.89	3.0	18.8	14.6	30.7	13.7
	FFP	27499	1.04	3.0	15.6	12.2	25.6	12.3
PMH-3	100 % RDF	63493	2.14	2.6	19.5	14.7	31.1	14.3
	SSNM	69808	2.20	2.5	20.2	15.6	32.1	14.8
	FFP	29804	1.13	4.2	17.1	13.4	27.3	12.5
CMH-08-350	100 % RDF	70562	2.38	2.5	19.8	14.9	31.6	14.3
	SSNM	82194	2.59	1.6	20.4	15.4	32.8	15.0
	FFP	34476	1.31	4.3	17.5	13.9	27.3	12.8
CMH-08-287	100 % RDF	60410	2.04	2.5	18.2	14.1	29.9	13.5
	SSNM	67917	2.14	3.4	19.2	13.9	30.3	13.3
	FFP	25637	0.97	4.2	16.0	12.6	25.1	11.9
CMH-08-292	100 % RDF	63266	2.14	3.0	19.1	15.0	30.8	14.3
	SSNM	77405	2.44	2.5	19.9	15.2	32.1	14.9
	FFP	33708	1.28	3.8	16.5	13.7	25.7	12.7
Location mean		54547.9	1.83	3.1	18.4	14.3	29.4	13.6
C.D.(5%) AiBj-AiBk		11764.4	0.40	3.2	1.6	1.3	2.6	1.2
C.D.(5%) AiBk-AjBk		11594.7	0.39	3.1	1.6	1.2	2.8	1.1
F(5%)		NS	NS	NS	NS	NS	NS	NS
PMH-1		46512	1.56	3.1	17.7	13.8	28.3	13.2
PMH-3		54368	1.83	3.1	18.9	14.6	30.2	13.9
CMH-08-350		62411	2.09	2.8	19.2	14.7	30.6	14.0
CMH-08-287		51322	1.72	3.3	17.8	13.5	28.4	12.9
CMH-08-292		58127	1.95	3.1	18.5	14.6	29.6	14.0
C.D. (5%) Ai-Aj		6515.3	0.21	1.7	0.9	0.6	1.8	0.5
C.V. (%) Error A		11.0	10.6	50.5	4.3	3.6	5.7	3.5
F (5%)		S	S	NS	S	S	NS	S
100% RDF		61988	2.09	2.8	19.1	14.7	30.4	14.0
SSNM		71431	2.25	2.6	19.7	14.9	31.6	14.3
FFP		30225	1.15	3.9	16.5	13.1	26.2	12.4
C.D. (5%) Bi-Bj		5261.2	0.18	1.4	0.7	0.6	1.2	0.5
C.V. (%) ErrorB		12.7	12.7	60.0	5.1	5.3	5.2	5.2
F (5%)		S	S	NS	S	S	S	S

Table 43: Nutrient management for maize genotypes under different cropping system (maize alone) in Dharwad.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
HQPM-1	RDF	5929	7717	75.2	72.9	203.2	51.0	55.0
	STCR	5811	7586	74.9	72.6	213.1	52.3	56.3
	SSNM	5978	7730	78.2	75.9	206.8	52.0	56.3
CMH-08-292	RDF	5752	7495	74.1	71.8	220.4	51.7	55.3
	STCR	5655	7355	73.8	71.6	230.9	52.0	55.7
	SSNM	5818	7410	76.8	74.5	227.2	51.0	55.3
CMH-08-287	RDF	5905	7647	81.0	78.6	236.0	52.0	56.0
	STCR	5621	7393	80.2	77.8	233.2	51.7	55.7
	SSNM	5802	7523	78.8	76.4	226.9	51.3	55.3
Bioseed	RDF	5618	7443	77.9	75.6	216.5	51.3	56.0
	STCR	5556	7197	79.3	77.0	217.1	50.7	55.3
	SSNM	5219	7013	73.2	71.0	207.3	51.0	55.0
GH-0727	RDF	5596	7326	74.9	72.6	213.8	51.0	55.0
	STCR	5774	7428	79.1	76.7	216.5	51.0	55.0
	SSNM	5691	7377	77.1	74.8	216.4	51.3	55.3
Location mean		5714.9	7442.7	77.0	74.7	219.0	51.4	55.5
C.D.(5%) AiBj-AiBk		653.4	599.9	5.8	5.6	11.5	1.5	1.6
C.D.(5%) AiBk-AjBk		676.6	638.5	4.9	4.8	13.0	1.5	1.6
F(5%)		NS	NS	NS	NS	NS	NS	NS
HQPM-1		5906	7677	76.1	73.8	207.7	51.8	55.9
CMH-08-292		5742	7420	74.9	72.6	226.2	51.6	55.4
CMH-08-287		5776	7521	80.0	77.6	232.0	51.7	55.7
Bioseed		5464	7218	76.8	74.5	213.6	51.0	55.4
GH-0727		5687	7377	77.0	74.7	215.6	51.1	55.1
C.D. (5%) Ai-Aj		417.4	410.7	1.4	1.4	9.1	0.9	0.9
C.V. (%) Error A		6.7	5.1	1.7	1.7	3.8	1.7	1.6
F (5%)		NS	NS	S	S	S	NS	NS
RDF		5760	7525	76.6	74.3	218.0	51.4	55.5
STCR		5683	7392	77.4	75.1	222.2	51.5	55.6
SSNM		5702	7411	76.8	74.5	216.9	51.3	55.5
C.D. (5%) Bi-Bj		292.2	268.3	2.6	2.5	5.1	0.7	0.7
C.V. (%) ErrorB		6.7	4.7	4.4	4.4	3.1	1.7	1.7
F (5%)		NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Hybrids
H1: HQPM-1
H2: CMH-08-292
H3: CMH-08-287
H4: Bioseed
H5: GH-0727

B. Sub plot: Nutrient management (N:P2O5:K2O)
N1: RDF
N2: STCR
N3: SSNM

Cont…..

Hybrids	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
HQPM-1	RDF	16.4	4.4	14.4	34.8	30.0	40611	2.30
	STCR	16.8	4.5	15.8	36.2	27.3	34664	1.97
	SSNM	15.5	4.5	15.4	33.1	27.0	43243	2.49
CMH-08-292	RDF	18.2	4.7	14.4	35.9	32.0	38485	2.24
	STCR	18.0	4.7	13.6	31.0	32.7	32748	1.92
	SSNM	18.5	4.6	13.9	35.2	34.0	41190	2.42
CMH-08-287	RDF	16.3	4.6	15.0	31.9	32.0	40285	2.29
	STCR	16.5	4.5	14.7	32.8	32.7	32414	1.91
	SSNM	16.4	3.8	14.2	33.8	32.3	41135	2.42
Bioseed	RDF	17.6	4.6	15.2	42.0	31.0	36984	2.19
	STCR	16.6	4.2	13.7	40.7	29.7	31522	1.88
	SSNM	16.3	4.2	14.1	37.0	22.7	34327	2.18
GH-0727	RDF	15.8	4.6	14.1	31.2	31.7	36623	2.18
	STCR	17.4	4.5	13.9	35.7	32.0	34101	1.96
	SSNM	16.6	4.8	14.2	32.1	36.3	39785	2.37
Location mean		16.9	4.5	14.4	34.9	30.9	37207.7	2.18
C.D.(5%) AiBj-AiBk		1.1	0.1	0.8	1.4	3.7	7647.8	0.24
C.D.(5%) AiBk-AjBk		1.1	0.1	0.9	1.3	3.3	7938.7	0.25
F(5%)		S	S	S	S	S	NS	NS
HQPM-1		16.2	4.5	15.2	34.7	28.1	39506	2.25
CMH-08-292		18.2	4.7	14.0	34.0	32.9	37474	2.19
CMH-08-287		16.4	4.3	14.6	32.8	32.3	37945	2.21
Bioseed		16.9	4.3	14.3	39.9	27.8	34278	2.08
GH-0727		16.6	4.6	14.1	33.0	33.3	36836	2.17
C.D. (5%) Ai-Aj		0.7	0.1	0.6	0.6	1.5	4917.0	0.15
C.V. (%) Error A		3.9	2.1	3.8	1.5	12.2	12.2	6.5
F (5%)		S	S	S	S	NS	NS	NS
RDF		16.9	4.6	14.6	35.1	31.3	38597	2.24
STCR		17.1	4.5	14.3	35.3	30.9	33090	1.93
SSNM		16.7	4.4	14.4	34.2	30.5	39936	2.37
C.D. (5%) Bi-Bj		0.5	0.1	0.4	0.6	1.6	3420.2	0.11
C.V. (%) ErrorB		3.7	1.7	3.3	2.4	7.0	12.1	6.4
F (5%)		NS	S	NS	S	NS	S	S

Table 44: Nutrient management of maize hybrids under different cropping systems in Hyderabad.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant Height (cm)	Days to 50% tasseling	Days to 50% silking
DHM 117	100% RDF	7953	8233	59.9	59.5	236.7	56.7	54.7
HQPM 1		6853	7247	57.2	57.4	216.3	55.3	53.3
PMH 1		8163	8313	65.2	61.9	245.3	60.0	56.7
PMH 3		7700	8033	61.1	60.4	246.7	61.0	55.3
CMH 08-292		7967	8173	59.4	58.5	237.0	58.7	55.3
DHM 117	SSNM	7437	7737	59.0	59.0	224.7	57.3	53.7
HQPM 1		6353	6627	56.8	57.5	217.3	56.0	53.0
PMH 1		7813	8020	63.7	61.9	244.0	60.7	55.3
PMH 3		7370	7573	61.7	61.1	248.7	61.3	54.7
CMH 08-292		7780	7940	60.4	59.1	246.7	61.0	54.7
DHM 117	FFP	7903	8140	59.1	59.4	231.3	60.0	54.7
HQPM 1		6713	7033	55.7	56.6	220.3	58.3	54.7
PMH 1		7920	7807	62.5	61.1	252.0	62.7	56.3
PMH 3		7597	7913	61.9	60.8	252.0	62.7	56.7
CMH 08-292		7780	7947	61.1	60.3	248.0	62.7	56.3
Location mean		7553.6	7782.4	60.3	59.6	237.8	59.6	55.0
C.D.(5%) AiBj-AiBk		425.8	465.3	5.1	4.2	8.2	2.6	1.9
C.D.(5%) AiBk-AjBk		390.9	488.5	5.5	4.1	10.6	2.2	1.8
F(5%)		S	S	S	NS	S	S	S
DHM 117		7657	7931	60.8	59.6	232.8	57.3	54.9
HQPM 1		7701	7981	59.8	59.3	236.1	59.0	54.8
PMH 1		7179	7407	60.7	60.1	236.7	59.3	54.3
PMH 3		7466	7704	58.4	58.3	232.8	59.8	54.7
CMH 08-292		7766	7889	61.8	60.7	250.7	62.7	56.4
C.D. (5%) Ai-Aj		179.3	308.0	3.6	2.3	8.2	0.5	0.9
C.V. (%) Error A		2.2	3.6	5.5	3.5	3.2	0.8	1.5
F (5%)		S	S	NS	NS	S	S	S
100% RDF (200:60:50)		7541	7728	60.1	59.5	239.9	59.5	54.8
SSNM		7627	7899	60.3	59.6	236.1	59.5	55.1
FFP (215:90:50)		7493	7721	60.5	59.8	237.4	59.9	55.2
C.D. (5%) Bi-Bj		190.4	208.1	2.3	1.9	3.6	1.2	0.8
C.V. (%) ErrorB		3.3	3.5	5.0	4.2	2.0	2.5	2.0
F (5%)		NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Hybrids	Target yield (t/ha)	**SSNM dose (kg N-P2O5-K2O /ha**
H1: DHM 117	10	150:69:98
H2: HQPM 1	8	140:47:56
H3: PMH 1	8.5	140:47:56
H4: PMH 3	9	140:61:90
H5: CMH 08-292	9	140:61:90

B. Sub plot: Nutrient management (N:P2O5:K2O)
N1: 100%RDF (200:60:50)
N2: SSNM (Based on nutrient expert)
N3: Farmers practice (215:90:50)

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Hybrids	Nutrient management	Days to maturity	Cob length (cm)	Cob Girth (cm)	Grains/ row	100-seed weight (g)	Net returns (Rs. /ha)	BC Ratio
DHM 117	100% RDF	94.7	17.8	15.8	34.3	38.7	65826	2.44
HQPM 1		89.7	16.5	14.7	30.7	35.7	50539	2.10
PMH 1		98.0	18.9	16.1	42.0	40.3	68636	2.50
PMH 3		97.7	18.2	15.9	38.0	37.7	62332	2.36
CMH 08-292		94.3	18.2	15.9	40.0	39.0	65939	2.44
DHM 117	SSNM	93.7	17.5	15.5	33.3	37.7	57230	2.21
HQPM 1		89.3	16.0	14.4	28.7	35.3	44741	2.01
PMH 1		95.0	18.3	15.8	37.3	38.7	65114	2.46
PMH 3		95.3	18.1	15.7	35.3	36.7	57131	2.24
CMH 08-292		96.0	17.5	15.5	37.3	38.7	62828	2.36
DHM 117	FFP	95.3	17.8	16.1	36.7	38.3	63130	2.32
HQPM 1		92.0	16.6	14.9	32.0	35.3	46554	1.97
PMH 1		96.7	19.1	16.3	40.7	40.0	63014	2.32
PMH 3		97.7	18.5	16.2	37.3	37.7	58917	2.23
CMH 08-292		97.0	18.7	16.0	41.0	38.7	61334	2.28
Location mean		94.8	17.8	15.7	36.3	37.9	59551.0	2.28
C.D.(5%) AiBj-AiBk		2.1	0.7	0.5	2.8	1.7	5898.7	0.13
C.D.(5%) AiBk-AjBk		2.0	0.7	0.5	2.6	1.4	5438.6	0.12
F(5%)		S	S	S	S	S	S	S
DHM 117		94.1	17.8	15.5	35.7	38.2	61667	2.35
HQPM 1		95.2	18.0	15.8	37.1	38.1	61834	2.34
PMH 1		93.2	17.5	15.3	33.8	36.9	55662	2.24
PMH 3		94.4	17.3	15.5	35.3	37.4	57504	2.22
CMH 08-292		97.1	18.7	16.2	39.7	38.8	61088	2.28
C.D. (5%) Ai-Aj		1.1	0.4	0.3	1.3	0.5	2535.5	0.05
C.V. (%) Error A		1.1	2.0	1.9	3.2	1.2	3.9	2.2
F (5%)		S	S	S	S	S	S	S
100% RDF (200:60:50)		94.9	17.7	15.6	35.8	38.1	59748	2.30
SSNM		94.4	17.8	15.7	36.4	37.9	60728	2.31
FFP (215:90:50)		95.2	18.0	15.6	36.7	37.7	58177	2.24
C.D. (5%) Bi-Bj		0.9	0.3	0.2	1.3	0.7	2638.0	0.06
C.V. (%) ErrorB		1.3	2.2	1.8	4.6	2.6	5.8	3.3
F (5%)		NS	NS	NS	NS	NS	NS	S

Table 45: Nutrient management for maize hybrids under site specific nutrient management based approach in Karimnagar.

Hybrids	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stalk yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
PMH 1	FFP	8610	10162	8000	272.3	120.3	48.7	51.0
	RDF	9853	11728	8761	280.0	118.3	49.3	52.0
	SSNM	9329	11161	8593	279.0	117.7	49.0	51.0
PMH 3	FFP	9530	12229	8396	278.0	128.7	50.0	52.0
	RDF	9888	12404	9692	276.3	131.0	49.0	51.7
	SSNM	9679	12098	9280	275.0	125.0	49.3	52.3
HQPM 1	FFP	7717	9188	7791	241.0	85.7	50.0	52.0
	RDF	8048	9590	8082	241.3	84.0	49.0	51.7
	SSNM	7210	8364	8037	247.0	84.3	49.3	51.7
DHM 117	FFP	8478	11250	9778	255.7	103.7	50.0	52.0
	RDF	8899	11787	10296	261.7	116.0	50.3	49.7
	SSNM	8544	10808	9037	268.3	112.3	49.7	52.0
CMH-08-292	FFP	7712	8592	7926	259.7	122.3	47.7	50.7
	RDF	7764	9108	8148	271.3	120.3	48.0	50.3
	SSNM	7580	8921	9444	273.7	119.3	48.7	51.3
Location mean		8589.3	10492.6	8750.8	265.4	112.6	49.2	51.4
C.D.(5%) AiBj-AiBk		1008.1	1206.8	1025.3	18.8	11.4	1.6	2.4
C.D.(5%) AiBk-AjBk		1033.8	1216.2	1211.8	16.9	11.6	1.6	2.9
F(5%)		NS	NS	NS	NS	NS	NS	NS
PMH 1		9264	11017	8451	277.1	118.8	49.0	51.3
PMH 3		9699	12243	9123	276.4	128.2	49.4	52.0
HQPM 1		7658	9047	7970	243.1	84.7	49.4	51.8
DHM 117		8640	11281	9704	261.9	110.7	50.0	51.2
CMH-08-292		7685	8874	8506	268.2	120.7	48.1	50.8
C.D. (5%) Ai-Aj		627.3	715.3	878.2	7.0	6.9	0.9	2.2
C.V. (%) Error A		6.7	6.3	9.2	2.4	5.7	1.6	3.9
F (5%)		S	S	S	S	S	S	NS
FFP (253:58:750)		8409	10284	8378	261.3	112.1	49.3	51.5
RDF (200:60:50)		8890	10923	8996	266.1	113.9	49.1	51.1
SSNM (Based on nutrient expert)		8468	10270	8878	268.6	111.7	49.2	51.7
C.D. (5%) Bi-Bj		450.8	539.7	458.5	8.4	5.1	0.7	1.1
C.V. (%) ErrorB		6.9	6.8	6.9	4.2	5.9	2.0	2.8
F (5%)		NS	S	S	NS	NS	NS	NS

Treatment details:

A. Main plot: Hybrids	**SSNM dose**	**B. Sub plot: Nutrient management (N:P2O5:K2O)**
H1: PMH 1	190:84:143	N1: Farmers practice (253:58:750)
H2: PMH 3	190:84:143	N2: 100%RDF (200:60:50)
H3: HQPM 1	170:67:86	N3: SSNM (Based on nutrient expert)
H4: DHM 117	190:84:143	
H5: CMH-08-292	190:84:143	

Cont…..

Hybrids	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row	100-grain weight (g)	Net returns (Rs./ha)	B:C Ratio
PMH 1	FFP	21.3	16.3	14.9	40.7	31.5	80131	2.86
	RDF	20.6	16.1	14.8	41.2	31.4	99211	3.38
	SSNM	21.5	15.8	13.7	40.0	30.3	90106	3.08
PMH 3	FFP	19.9	16.5	14.1	35.4	35.5	93291	3.17
	RDF	20.4	16.3	14.5	36.3	35.7	99716	3.39
	SSNM	19.3	16.3	14.3	34.8	34.8	95112	3.20
HQPM 1	FFP	18.6	14.9	13.7	34.7	28.1	67360	2.57
	RDF	19.1	15.3	14.4	36.5	30.3	73394	2.76
	SSNM	18.8	15.1	14.0	36.1	30.0	60677	2.43
DHM 117	FFP	18.5	16.7	14.5	33.7	33.2	78250	2.82
	RDF	19.3	18.3	15.5	34.8	33.3	85569	3.05
	SSNM	18.1	16.9	14.4	30.7	31.7	78886	2.82
CMH-08-292	FFP	20.6	16.4	14.7	35.9	34.5	67289	2.57
	RDF	20.4	16.0	13.9	36.9	34.5	69339	2.66
	SSNM	20.9	16.3	13.9	35.3	33.5	65100	2.50
Location mean		19.8	16.2	14.4	36.2	32.6	80228.8	2.88
C.D.(5%) AiBj-AiBk		1.8	1.0	0.9	4.8	2.0	14416.0	0.34
C.D.(5%) AiBk-AjBk		1.9	1.2	1.0	4.8	2.8	14782.6	0.35
F(5%)		NS	NS	NS	NS	NS	NS	NS
PMH 1		21.2	16.1	14.5	40.6	31.1	89816	3.11
PMH 3		19.9	16.4	14.3	35.5	35.3	96040	3.25
HQPM 1		18.8	15.1	14.0	35.8	29.4	67144	2.59
DHM 117		18.6	17.3	14.8	33.1	32.7	80902	2.90
CMH-08-292		20.6	16.2	14.1	36.1	34.2	67243	2.58
C.D. (5%) Ai-Aj		1.3	0.9	0.7	2.9	2.3	8970.8	0.21
C.V. (%) Error A		6.0	5.3	4.7	7.4	6.4	10.3	6.7
F (5%)		S	S	NS	S	S	S	S
FFP (253:58:750)		19.8	16.1	14.4	36.1	32.6	77264	2.80
RDF (200:60:50)		20.0	16.4	14.6	37.1	33.0	85446	3.05
SSNM (Based on nutrient expert)		19.7	16.1	14.1	35.4	32.1	77976	2.81
C.D. (5%) Bi-Bj		0.8	0.5	0.4	2.1	0.9	6447.0	0.15
C.V. (%) ErrorB		5.2	3.7	3.7	7.7	3.7	10.5	6.9
F (5%)		NS	NS	S	NS	NS	S	S

Table 46: Nutrient management for maize genotypes under different cropping systems in Chhindwara.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
PMH-1	60:30:20	4018	8930	61.8	58.1	171.0	53.7	57.7
	120:60:40	4666	9163	63.3	59.6	172.7	52.7	56.7
	140:34:71	5662	9856	64.1	61.5	178.3	51.7	55.0
PMH-3	60:30:20	4625	9368	60.7	59.3	167.7	53.0	56.3
	120:60:40	5911	11016	62.6	60.4	177.3	52.7	56.0
	140:34:71	6273	11877	63.7	61.8	178.7	52.7	56.0
HQPM-1	60:30:20	4429	8959	59.6	58.1	169.0	53.3	56.7
	120:60:40	4629	9944	63.7	59.3	172.3	51.7	54.3
	140:34:71	5225	10119	65.2	61.1	177.3	51.0	53.7
CMH-08-350	60:30:20	4296	9834	58.9	56.7	171.0	52.3	56.3
	120:60:40	5314	10177	64.1	58.9	171.7	51.0	54.3
	140:34:71	5536	10513	64.8	63.3	174.7	50.3	54.0
CMH-08-292	60:30:20	4263	10243	62.6	60.0	174.3	53.0	57.0
	120:60:40	5696	10739	63.7	60.0	180.3	51.7	55.0
	140:34:71	5962	11330	64.8	63.7	182.3	51.0	54.3
Location mean		5100.5	10137.9	62.9	60.1	174.6	52.1	55.6
C.D.(5%) AiBj-AiBk		276.8	890.9	2.5	2.7	7.8	1.8	1.8
C.D.(5%) AiBk-AjBk		342.2	882.6	3.0	2.6	8.4	1.7	1.6
F(5%)		S	NS	NS	NS	NS	NS	NS
PMH-1		4782	9316	63.1	59.7	174.0	52.7	56.4
PMH-3		5603	10754	62.3	60.5	174.6	52.8	56.1
HQPM-1		4761	9674	62.8	59.5	172.9	52.0	54.9
CMH-08-350		5049	10175	62.6	59.6	172.4	51.2	54.9
CMH-08-292		5307	10771	63.7	61.2	179.0	51.9	55.4
C.D. (5%) Ai-Aj		257.6	501.5	2.1	1.4	5.5	0.8	0.5
C.V. (%) Error A		4.6	4.6	3.1	2.1	2.9	1.3	0.9
F (5%)		S	S	NS	NS	NS	S	S
60:30:20		4326	9467	60.7	58.4	170.6	53.1	56.8
120:60:40		5243	10208	63.5	59.6	174.9	51.9	55.3
140:34:71		5732	10739	64.5	62.3	178.3	51.3	54.6
C.D. (5%) Bi-Bj		123.8	398.4	1.1	1.2	3.5	0.8	0.8
C.V. (%) ErrorB		3.2	5.2	2.4	2.6	2.6	2.1	1.9
F (5%)		S	S	S	S	S	S	S

Treatment details:

A. Main plot: Hybrids

H1: PMH-1
H2: PMH-3
H3: HQPM-1
H4: CMH-08-350
H5: CMH-08-292

B. Sub plot: Nutrient management (N:P2O5:K2O)

N1: 60:30:20
N2: 120:60:40
N3: 140:34:71 (SSNM)

Cont…..

Hybrids	Nutrient management	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
PMH-1	60:30:20	37.2	41088	2.22	6.6	14.3	11.2	12.7	22.7
	120:60:40	36.9	46376	2.21	3.5	14.4	12.1	12.7	26.7
	140:34:71	37.8	58676	2.76	2.3	14.4	12.1	13.3	27.7
PMH-3	60:30:20	37.4	48729	2.63	7.9	14.3	11.5	12.7	26.7
	120:60:40	38.8	63465	3.02	5.9	14.9	12.3	12.7	28.7
	140:34:71	38.7	68734	3.24	2.3	15.0	12.5	12.7	30.7
HQPM-1	60:30:20	35.2	45859	2.48	4.3	13.5	11.1	12.7	22.0
	120:60:40	36.5	47121	2.24	3.5	14.1	11.4	12.7	22.3
	140:34:71	37.6	54045	2.55	2.8	14.3	11.7	13.3	26.7
CMH-08-350	60:30:20	37.6	45639	2.46	7.6	14.3	11.7	12.7	23.7
	120:60:40	38.6	55350	2.63	4.6	15.0	12.5	12.7	30.0
	140:34:71	39.3	58213	2.74	2.9	15.2	12.6	12.7	30.7
CMH-08-292	60:30:20	38.3	45869	2.48	5.3	14.8	12.2	14.0	28.0
	120:60:40	38.6	60579	2.88	4.1	15.7	12.7	12.7	32.3
	140:34:71	39.1	64336	3.03	2.3	15.9	12.8	12.7	32.3
Location mean		37.8	53605.4	2.64	4.4	14.7	12.0	12.8	27.4
C.D.(5%) AiBj-AiBk		2.1	3238.1	0.16	3.7	1.0	0.7	1.9	2.6
C.D.(5%) AiBk-AjBk		2.2	4065.4	0.20	3.9	0.9	0.9	2.0	3.0
F(5%)		NS	S	S	NS	NS	NS	NS	NS
PMH-1		37.3	48713	2.40	4.2	14.4	11.8	12.9	25.7
PMH-3		38.3	60310	2.96	5.4	14.7	12.1	12.7	28.7
HQPM-1		36.4	49008	2.42	3.5	14.0	11.4	12.9	23.7
CMH-08-350		38.5	53067	2.61	5.0	14.8	12.3	12.7	28.1
CMH-08-292		38.7	56928	2.80	3.9	15.5	12.6	13.1	30.9
C.D. (5%) Ai-Aj		1.4	3094.9	0.15	2.6	0.5	0.7	1.3	2.1
C.V. (%) Error A		3.5	5.3	5.26	53.6	3.1	5.3	9.1	6.9
F (5%)		S	S	S	NS	S	S	NS	S
60:30:20		37.1	45437	2.45	6.4	14.2	11.5	12.9	24.6
120:60:40		37.9	54578	2.60	4.3	14.8	12.2	12.7	28.0
140:34:71		38.5	60801	2.86	2.5	15.0	12.4	12.9	29.6
C.D. (5%) Bi-Bj		0.9	1448.1	0.07	1.6	0.4	0.3	0.8	1.2
C.V. (%) ErrorB		3.2	3.5	3.51	49.0	3.8	3.6	8.5	5.6
F (5%)		S	S	S	S	S	S	NS	S

Table 47: Nutrient management for maize genotypes under different nutrient management practices in Udaipur.

Hybrids	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plant ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B:C Ratio
PHM-1	RDF	4420	6941	56.7	54.7	270.2	78.3	49.7	37474	1.66
	SSNM	4843	7609	56.0	54.0	275.0	82.2	50.0	43074	1.90
	FFP	3533	5566	56.9	54.9	264.9	74.2	49.0	25422	1.13
PHM-3	RDF	5533	8592	59.3	57.3	267.4	80.3	52.3	52485	2.33
	SSNM	6040	9165	58.7	56.9	272.6	85.3	51.0	58990	2.60
	FFP	3830	5962	59.1	57.8	263.7	78.3	51.3	29378	1.30
HQPM-1	RDF	3830	5557	55.1	52.4	240.5	76.3	48.3	29010	1.29
	SSNM	4327	6202	56.9	54.9	235.3	80.4	49.3	35467	1.57
	FFP	2933	4524	56.2	53.8	230.4	74.4	48.7	17180	0.76
CMH-08-350	RDF	4223	6562	57.1	54.7	275.0	80.3	50.0	34735	1.54
	SSNM	5350	8375	57.6	55.1	280.3	83.5	49.0	49920	2.20
	FFP	3337	5025	56.7	55.3	270.2	78.3	50.3	22521	1.00
CMH-08-292	RDF	5630	8778	61.3	59.1	273.2	83.8	49.0	53831	2.39
	SSNM	6133	9571	60.7	58.2	278.4	85.4	50.3	60516	2.67
	FFP	4133	6545	60.0	58.0	270.3	80.3	50.7	33601	1.49
Location mean		4539.8	6998.3	57.9	55.8	264.5	80.1	49.9	38907.0	1.72
C.D.(5%) AiBj-AiBk		570.0	1086.4	4.9	5.2	11.6	5.2	2.4	7767.8	0.34
C.D.(5%) AiBk-AjBk		664.9	1193.4	5.1	5.4	17.2	5.6	2.5	8776.2	0.39
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
PHM-1		4266	6705	56.5	54.5	270.1	78.2	49.6	35323	1.56
PHM-3		5134	7906	59.0	57.3	267.9	81.3	51.6	46951	2.08
HQPM-1		3697	5428	56.1	53.7	235.4	77.0	48.8	27219	1.21
CMH-08-350		4303	6654	57.1	55.0	275.2	80.7	49.8	35726	1.58
CMH-08-292		5299	8298	60.7	58.4	273.9	83.2	50.0	49316	2.18
C.D. (5%) Ai-Aj		476.0	800.5	3.2	3.3	14.4	3.8	1.5	6081.8	0.27
C.V. (%) Error A		9.6	10.5	5.0	5.4	5.0	4.3	2.8	14.4	14.38
F (5%)		S	S	S	S	S	S	S	S	S
100%RDF (90:40:30)		4727	7286	57.9	55.6	265.3	79.8	49.9	41507	1.84
SSNM (134:52:00)		5339	8184	58.0	55.8	268.3	83.4	49.9	49593	2.19
FFP (80:30:00)		3553	5524	57.8	56.0	259.9	77.1	50.0	25620	1.14
C.D. (5%) Bi-Bj		254.9	485.9	2.2	2.3	5.2	2.3	1.1	3473.9	0.15
C.V. (%) ErrorB		7.4	9.1	5.0	5.4	2.6	3.8	2.8	11.7	11.72
F (5%)		S	S	NS	NS	S	S	NS	S	S

Treatment details:

A. Main plot: Hybrids	**B. Sub plot: Nutrient management (N:P2O5:K2O)**
H1: PMH 1	N1: 100%RDF (90:40:30)
H2: PMH 3	N2: SSNM based on nutrient expert (134:52:00)
H3: HQPM 1	N3: Farmers practice (80:30:00)
H4: CMH-08-350	
H5: CMH-08-292	

Table 48: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season at Bajaura.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
K 25 Gold	Normal (60x20 cm)	RDF	10335	14853	75.0	68.7	232.4
		STCT	13823	19899	77.5	73.1	248.9
		SSNM	11041	16013	74.0	68.9	236.5
	High (60x15 cm)	RDF	11496	16630	98.1	82.6	253.7
		STCT	14293	20635	96.5	85.8	258.7
		SSNM	12183	17635	100.4	86.8	263.5
KH 121	Normal (60x20 cm)	RDF	8188	11911	77.5	65.7	232.6
		STCT	11116	16151	79.8	73.4	240.2
		SSNM	9154	13289	78.9	66.4	228.1
	High (60x15 cm)	RDF	8926	12900	97.8	77.0	222.3
		STCT	13124	18963	99.5	83.7	238.3
		SSNM	9626	13862	98.1	80.7	226.4
Mean of location			11108.7	16061.8	87.8	76.1	240.1
K 25 Gold			12195	17611	86.9	77.6	248.9
KH 121			10022	14513	88.6	74.5	231.3
CD at 5%			587.8	731.6	NS	NS	9.7
CV (%)			3.7	3.2	3.2	4.1	2.8
Normal (60x20 cm)			10609	15353	77.1	69.4	236.5
High (60x15 cm)			11608	16771	98.4	82.8	243.8
CD at 5%			814.3	1136.8	5.7	4.1	NS
CV (%)			7.9	7.6	7.0	5.8	5.2
RDF (120:60:40)			9736	14073	87.1	73.5	235.2
STCT (284:203:108)			13089	18912	88.3	79.0	246.5
SSNM (150:64:113)			10501	15200	87.9	75.7	238.6
CD at 5%			891.0	1162.3	NS	2.4	5.6
CV (%)			9.3	8.4	3.3	3.6	2.7

Treatment details:

A. Main plot: Hybrids
H1: K 25 Gold
H2: KH 121

B. Sub plot: Density
D1: Normal (60x20 cm)
D2: High (60x15 cm)

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: RDF (120:60:40)
N2: STCR (284:203:108)
N3: SSNM based on nutrient expert (150:64:113)

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Hybrids	Density	Nutrient management	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio
K 25 Gold	Normal (60x20 cm)	RDF	61.0	63.0	27.3	99416	3.72
		STCT	59.7	61.7	30.0	132082	3.66
		SSNM	61.0	63.0	31.3	106237	3.72
	High (60x15 cm)	RDF	61.0	63.0	32.0	114368	4.10
		STCT	60.3	62.3	29.3	137921	3.75
		SSNM	60.7	62.7	28.7	120838	4.06
KH 121	Normal (60x20 cm)	RDF	68.0	70.0	30.0	71296	2.95
		STCT	67.7	69.7	28.7	96602	2.94
		SSNM	68.3	70.3	29.3	81409	3.08
	High (60x15 cm)	RDF	68.7	70.7	28.0	80545	3.18
		STCT	69.0	71.0	30.0	122555	3.45
		SSNM	69.0	71.0	32.0	87135	3.21
Mean of location			64.5	66.5	29.7	104200.3	3.49
K 25 Gold			60.6	62.6	29.8	118477	3.84
KH 121			68.4	70.4	29.7	89924	3.14
CD at 5%			2.2	2.2	NS	7586.5	0.3
CV (%)			2.4	2.3	4.9	5.1	5.8
Normal (60x20 cm)			64.3	66.3	29.4	97840	3.35
High (60x15 cm)			64.8	66.8	30.0	110560	3.63
CD at 5%			NS	NS	NS	10677.5	0.3
CV (%)			1.5	1.4	9.6	11.1	8.3
RDF (120:60:40)			64.7	66.7	29.3	91406	3.49
STCT (284:203:108)			64.2	66.2	29.5	122290	3.45
SSNM (150:64:113)			64.8	66.8	30.3	98905	3.52
CD at 5%			0.4	0.4	NS	11610.1	NS
CV (%)			0.7	0.7	10.2	12.9	9.2

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Hybrids	Density	Nutrient management	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
K 25 Gold	Normal (60x20 cm)	RDF	7.4	15.4	14.9	15.3	34.3
		STCT	8.9	16.6	15.3	15.0	38.0
		SSNM	9.0	16.3	15.2	14.3	35.0
	High (60x15 cm)	RDF	16.5	16.7	15.0	15.3	36.7
		STCT	12.9	16.7	15.4	15.0	36.7
		SSNM	14.0	15.6	15.1	15.0	34.7
KH 121	Normal (60x20 cm)	RDF	19.5	14.9	14.4	14.0	32.3
		STCT	15.1	16.1	15.0	15.7	33.3
		SSNM	17.8	14.4	13.9	14.3	30.7
	High (60x15 cm)	RDF	22.2	15.5	14.9	14.0	32.7
		STCT	17.5	16.1	14.4	14.7	34.7
		SSNM	18.9	15.5	14.9	14.3	32.0
Mean of location			15.0	15.8	14.9	14.8	34.3
K 25 Gold			11.5	16.3	15.2	15.0	35.9
KH 121			18.5	15.4	14.6	14.5	32.6
CD at 5%			4.4	NS	NS	0.0	NS
CV (%)			20.7	11.6	3.4	0.0	16.5
Normal (60x20 cm)			13.0	15.6	14.8	14.8	33.9
High (60x15 cm)			17.0	16.0	15.0	14.7	34.6
CD at 5%			1.1	0.5	NS	NS	1.4
CV (%)			8.1	3.7	2.7	6.0	6.0
RDF (120:60:40)			16.4	15.6	14.8	14.7	34.0
STCT (284:203:108)			13.6	16.4	15.1	15.1	35.7
SSNM (150:64:113)			15.0	15.5	14.8	14.5	33.1
CD at 5%			1.8	NS	NS	NS	NS
CV (%)			13.6	3.8	4.3	6.5	4.8

Table 49: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Srinagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
Kanchan 101	60x20 cm	RDF	6650	12728	81817	95.2	255.7
		STCR	6777	13565	82428	96.7	252.3
		SSNM	7003	12608	82122	90.6	256.3
	60x15 cm	RDF	5648	14423	110739	87.2	257.7
		STCR	5790	14852	110990	84.7	255.3
		SSNM	6057	15500	110005	88.4	259.3
Bio 605	60x20 cm	RDF	7142	13500	81647	97.2	266.7
		STCR	7339	12933	82212	98.7	269.3
		SSNM	7641	12285	82061	99.4	270.7
	60x15 cm	RDF	6343	14562	110772	90.5	271.7
		STCR	6498	15803	110748	90.7	272.7
		SSNM	6677	16336	110424	91.6	267.0
Mean of location			6630.5	14091.3	96330.6	92.6	262.9
Kanchan 101			6321	13946	96350	90.5	256.1
Bio 605			6940	14236	96311	94.7	269.7
CD at 5%			388.3	NS	NS	1.8	1.0
CV (%)			4.1	1.9	0.7	1.4	0.3
60x20 cm			7092	12937	82048	96.3	261.8
60x15 cm			6169	15246	110613	88.9	263.9
CD at 5%			121.3	209.1	1189.0	1.3	NS
CV (%)			2.0	1.6	1.3	1.5	1.9
RDF (120:60:40)			6446	13803	96244	92.5	262.9
STCR (96:48:38)			6601	14288	96595	92.7	262.4
SSNM (90:50:30)			6845	14182	96153	92.5	263.3
CD at 5%			68.2	306.7	NS	NS	NS
CV (%)			1.2	2.5	0.8	1.0	2.6

Treatment details:

A. Main plot: Hybrids
H1: Kanchan 101
H2: Bio 605

B. Sub plot: Density
D1: 60x20 cm = 83,000 plants/ha
D2: 60x15 cm = 1,11,000 plant/ha

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: RDF (120:60:40)
N2: STCR (96:48:38)
N3: SSNM based on nutrient expert (90:50:30)

Cont…..

Hybrids	Density	Nutrient management	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
Kanchan 101	60x20 cm	RDF	89.3	95.3	25.1	138786	2.92
		STCR	87.3	92.0	25.2	141443	2.98
		SSNM	89.3	94.7	25.1	146160	3.08
	60x15 cm	RDF	86.7	91.7	24.9	117881	2.48
		STCR	84.3	89.0	24.7	120837	2.55
		SSNM	85.3	89.3	25.0	126417	2.66
Bio 605	60x20 cm	RDF	88.0	93.3	24.6	149060	3.14
		STCR	87.0	91.7	25.0	153172	3.23
		SSNM	84.3	89.0	24.7	159461	3.36
	60x15 cm	RDF	84.0	89.3	25.2	132385	2.79
		STCR	82.0	87.0	25.2	135606	2.86
		SSNM	85.0	89.3	25.0	139342	2.94
Mean of location			86.1	91.0	25.0	138379.1	2.92
Kanchan 101			87.1	92.0	25.0	131920	2.78
Bio 605			85.1	89.9	24.9	144838	3.05
CD at 5%			1.2	NS	NS	8103.9	0.17
CV (%)			1.0	1.7	1.8	4.1	4.1
60x20 cm			87.6	92.7	24.9	148014	3.12
60x15 cm			84.6	89.3	25.0	128745	2.71
CD at 5%			1.4	1.4	NS	2530.5	0.05
CV (%)			1.7	1.7	1.8	2.0	2.0
RDF (120:60:40)			87.0	92.4	24.9	134528	2.83
STCR (96:48:38)			85.2	89.9	25.0	137765	2.90
SSNM (90:50:30)			86.0	90.6	25.0	142845	3.01
CD at 5%			1.2	1.5	NS	1423.3	0.03
CV (%)			1.6	1.8	2.8	1.2	1.2

Cont…..

Hybrids	Density	Nutrient management	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Kanchan 101	60x20 cm	RDF	12.3	18.2	12.7	12.3	38.1
		STCR	12.7	17.5	11.6	12.6	40.7
		SSNM	12.4	19.8	10.9	13.5	43.0
	60x15 cm	RDF	22.9	18.6	12.7	11.5	39.0
		STCR	23.2	19.1	10.5	10.5	41.8
		SSNM	23.5	20.9	11.7	13.3	44.9
Bio 605	60x20 cm	RDF	10.4	20.7	13.5	12.3	46.7
		STCR	11.2	21.4	12.9	14.3	47.9
		SSNM	12.8	23.7	11.2	13.5	49.8
	60x15 cm	RDF	24.1	19.7	13.2	12.6	39.9
		STCR	25.2	20.6	12.7	14.1	40.9
		SSNM	23.9	20.3	11.8	14.1	45.8
Mean of location			17.9	20.0	12.1	12.9	43.2
Kanchan 101			17.8	19.0	11.7	12.3	41.2
Bio 605			17.9	21.1	12.6	13.5	45.2
CD at 5%			NS	0.7	NS	0.8	2.8
CV (%)			9.8	2.2	6.3	4.2	4.4
60x20 cm			12.0	20.2	12.1	13.1	44.4
60x15 cm			23.8	19.9	12.1	12.7	42.0
CD at 5%			1.0	NS	NS	NS	1.5
CV (%)			5.8	5.5	4.2	7.1	3.7
RDF (120:60:40)			17.4	19.3	13.0	12.2	40.9
STCR (96:48:38)			18.1	19.6	11.9	12.9	42.8
SSNM (90:50:30)			18.1	21.2	11.4	13.6	45.9
CD at 5%			NS	NS	1.0	1.0	2.2
CV (%)			7.4	9.6	9.1	8.9	5.8

Table 50: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Karnal.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to Maturity	Net returns (Rs. /ha)	B:C ratio
DKC 9106	67x20 cm	RDF	7510	8995	73434	191.0	55.3	58.0	84.0	77088	2.9
		STCR	7823	9231	73096	201.3	54.3	57.0	86.7	81237	3.0
		SSNM	7694	9078	73395	194.7	54.0	56.7	88.3	80123	3.0
	67x15 cm	RDF	7537	8893	97738	201.0	55.0	56.7	84.3	77487	2.9
		STCR	8080	9534	97957	205.3	54.0	56.3	86.3	85049	3.1
		SSNM	7590	8956	97168	202.3	53.7	56.0	88.3	78578	3.0
DKS 9125	67x20 cm	RDF	8250	9800	73274	201.3	55.3	57.7	83.7	88079	3.2
		STCR	8622	10180	73188	207.7	54.7	56.7	86.0	93101	3.3
		SSNM	8300	9960	73318	203.0	54.3	56.0	88.0	89121	3.2
	67x15 cm	RDF	8530	10202	96901	207.3	57.0	59.0	84.3	92229	3.3
		STCR	8959	10751	98155	212.0	56.3	58.3	86.0	98112	3.4
		SSNM	8718	10341	97390	209.0	55.3	58.0	88.0	95329	3.4
Mean of location			8134.3	9660.2	85417.9	203.0	54.9	57.2	86.2	86294.4	3.1
DKC 9106			7706	9115	85465	199.3	54.4	56.8	86.3	79927	3.0
DKS 9125			8563	10206	85371	206.7	55.5	57.6	86.0	92662	3.3
CD at 5%			NS	985.1	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.5	7.1	1.1	2.6	3.1	3.1	1.2	12.0	8.0
67x20 cm			8033	9541	73284	199.8	54.7	57.0	86.1	84791	3.1
67x15 cm			8236	9780	97552	206.2	55.2	57.4	86.2	87797	3.2
CD at 5%			NS	NS	419.8	4.5	NS	NS	NS	NS	NS
CV (%)			6.2	4.4	0.5	2.4	1.1	1.1	1.0	8.7	5.8
RDF (150:60:60)			7957	9473	85337	200.2	55.7	57.8	84.1	83721	3.1
STCT (168:62:65)			8371	9924	85599	206.6	54.8	57.1	86.3	89375	3.2
SSNM (158:65:70)			8075	9584	85318	202.3	54.3	56.7	88.2	85788	3.1
CD at 5%			251.9	324.6	NS	3.7	0.7	NS	1.6	3740.9	NS
CV (%)			3.6	3.9	1.0	2.1	1.6	2.1	2.1	5.0	3.3

Treatment details:

A. Main plot: Hybrids
H1: DKC 9106
H2: DKS 9125

B. Sub plot: Density
D1: 67x20 cm
D2: 67x15 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: RDF (150:60:60)
N2: STCR (168:62:65)
N3: SSNM based on nutrient expert (158:65:70)

Table 51: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Ludhiana.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	BC ratio
PMH 1	67.5x20 cm	RDF	3819	7259	40.7	40.7	195.7	55.3	57.3	54526	1.25
		STCR	4012	7704	40.7	41.9	208.3	54.7	56.7	60303	1.41
		SSNM	4160	7944	40.7	40.5	211.7	53.7	55.7	62602	1.42
	67.5x15 cm	RDF	3870	7470	53.9	52.8	203.7	55.3	58.0	55440	1.26
		STCR	4266	8363	54.6	52.8	205.3	56.0	59.0	66520	1.54
		SSNM	4461	8699	54.9	53.9	216.3	52.7	55.3	70015	1.57
DKC 9125	67.5x20 cm	RDF	4063	7882	41.2	40.5	191.0	55.0	57.0	60961	1.40
		STCR	4183	8155	40.7	42.1	193.7	54.7	56.7	64854	1.52
		SSNM	4208	8289	41.0	42.1	200.7	53.7	55.7	64163	1.45
	67.5x15 cm	RDF	4262	8269	54.4	53.9	199.0	55.7	58.7	65544	1.49
		STCR	4486	8792	54.6	54.6	201.0	53.3	56.0	72174	1.67
		SSNM	4604	9116	55.1	54.9	204.7	53.7	56.3	73876	1.65
Mean of location			4199.5	8161.8	47.7	47.6	202.6	54.5	56.9	64248.2	1.47
PMH 1			4098	7907	47.6	47.1	206.8	54.6	57.0	61568	1.41
DKC 9125			4301	8417	47.8	48.0	198.3	54.3	56.7	66929	1.53
CD at 5%			NS	NS	NS	NS	5.8	NS	NS	NS	NS
CV (%)			11.3	11.4	1.8	5.9	2.0	0.6	0.8	19.0	18.9
67.5x20 cm			4074	7872	40.9	41.3	200.2	54.5	56.5	61235	1.41
67.5x15 cm			4325	8451	54.6	53.8	205.0	54.4	57.2	67262	1.53
CD at 5%			228.3	446.9	0.7	1.4	4.0	NS	NS	5873.7	NS
CV (%)			5.9	5.9	1.6	3.1	2.0	2.3	1.8	9.9	9.9
RDF			4003	7720	47.6	47.0	197.3	55.3	57.8	59118	1.35
STCR			4237	8253	47.7	47.9	202.1	54.7	57.1	65963	1.53
SSNM			4358	8512	47.9	47.9	208.3	53.4	55.8	67664	1.52
CD at 5%			160.5	314.6	NS	0.6	NS	NS	1.5	4130.0	0.1
CV (%)			4.4	4.5	1.5	1.5	5.0	3.5	3.1	7.4	7.4

Treatment details:

A. Main plot: Hybrids
H1: PMH 1
H2: DKS 9125

B. Sub plot: Density
D1: 67.5x20 cm
D2: 67.5x15 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: RDF
N2: STCR
N3: SSNM based on nutrient expert

Table 52: Effect of planting density and nutrient management practices on the performance of hybrids in Pantnagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
4212 (Rasi seeds)	67.5x20 cm	100% RDF	5741	9630	71.6	71.6	184.0	43.7
		STCR	5997	10165	70.4	70.4	193.1	43.7
		SSNM	5852	9547	71.6	71.6	182.4	43.3
	67.5x15 cm	100% RDF	6720	11013	89.8	89.8	182.4	44.0
		STCR	7530	12071	92.9	92.1	194.5	43.7
		SSNM	6632	11405	94.5	93.7	186.0	44.3
P 3377 (Pioneer)	67.5x20 cm	100% RDF	6684	17202	71.2	71.2	193.1	48.3
		STCR	8259	17490	71.6	71.6	206.7	48.0
		SSNM	6703	16996	73.3	73.3	196.9	48.0
	67.5x15 cm	100% RDF	7603	17597	95.2	95.2	195.0	49.0
		STCR	8598	19400	92.5	92.5	208.7	48.7
		SSNM	7568	18029	94.5	94.5	199.7	48.0
Mean of location			6990.6	14212.1	82.4	82.3	193.5	46.1
4212 (Rasi seeds)			6412	10639	81.8	81.5	187.1	43.8
P 3377 (Pioneer)			7569	17786	83.0	83.0	200.0	48.3
CD at 5%			150.8	1365.9	NS	NS	11.0	2.0
CV (%)			1.5	6.7	5.1	5.1	4.0	3.1
67.5x20 cm			6539	13505	71.6	71.6	192.7	45.8
67.5x15 cm			7442	14919	93.2	93.0	194.4	46.3
CD at 5%			561.5	996.8	2.3	2.2	NS	NS
CV (%)			8.7	7.6	2.9	2.9	5.9	1.4
100% RDF (120:60:40)			6687	13860	81.9	81.9	188.6	46.3
STCR (212:106:87)			7596	14782	81.8	81.6	200.8	46.0
SSNM (120:30:46)			6689	13994	83.4	83.2	191.2	45.9
CD at 5%			703.5	425.9	NS	NS	7.8	NS
CV (%)			11.6	3.5	3.9	4.3	4.7	1.0

Treatment details:

A. Main plot: Hybrids
H1: 4212 (Rasi seeds)
H2: P 3377 (Pioneer)

B. Sub plot: Density
D1: 67.5x20 cm
D2: 67.5x15 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (120:60:40)
N2: STCR (212:106:87)
N3: SSNM based on nutrient expert (120:30:46)

Cont…..

Hybrids	Density	Nutrient management	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)
4212 (Rasi seeds)	67.5x20 cm	100% RDF	47.0	25.4	49634	1.88	16.6	12.6
		STCR	47.0	26.3	48164	1.54	17.3	12.8
		SSNM	46.7	25.2	52616	2.11	16.5	12.7
	67.5x15 cm	100% RDF	47.3	25.2	62200	2.32	16.4	12.5
		STCR	47.0	26.2	68074	2.15	17.1	12.6
		SSNM	47.7	25.2	62548	2.47	16.5	12.3
P 3377 (Pioneer)	67.5x20 cm	100% RDF	50.7	26.2	62122	2.35	17.8	13.1
		STCR	50.0	27.5	78128	2.50	18.4	13.2
		SSNM	50.0	26.2	63885	2.56	17.8	12.9
	67.5x15 cm	100% RDF	51.0	26.2	73904	2.75	17.4	13.0
		STCR	50.7	27.1	82221	2.59	18.2	13.1
		SSNM	50.0	26.1	74950	2.96	17.3	12.9
Mean of location			48.8	26.1	64870.5	2.35	17.3	12.8
4212 (Rasi seeds)			47.1	25.6	57206	2.08	16.7	12.6
P 3377 (Pioneer)			50.4	26.5	72535	2.62	17.8	13.1
CD at 5%			0.6	0.5	1998.1	0.1	1.1	0.3
CV (%)			0.9	1.2	2.1	2.0	4.3	1.8
67.5x20 cm			48.6	26.1	59091	2.16	17.4	12.9
67.5x15 cm			48.9	26.0	70650	2.54	17.1	12.8
CD at 5%			NS	NS	7440.0	0.3	NS	NS
CV (%)			1.1	2.1	12.4	11.4	4.5	5.2
100% RDF (120:60:40)			49.0	25.7	61965	2.3	17.0	12.8
STCR (212:106:87)			48.7	26.8	69147	2.2	17.7	12.9
SSNM (120:30:46)			48.6	25.7	63500	2.5	17.0	12.7
CD at 5%			NS	0.6	NS	NS	0.5	NS
CV (%)			1.1	2.4	16.6	17.0	3.0	3.0

Cont…..

Hybrids	Density	Nutrient management	Nutrient uptake (kg/ha)								
			Grain			Stover			Total		
			N	P	K	N	P	K	N	P	K
4212 (Rasi seeds)	67.5x20 cm	100% RDF	66.0	17.2	23.2	14.2	5.5	40.8	80.2	22.8	64.0
		STCR	74.0	19.2	26.7	20.6	6.7	49.2	94.6	25.9	75.9
		SSNM	68.7	17.2	23.7	13.7	5.3	40.6	82.5	22.5	64.3
	67.5x15 cm	100% RDF	75.8	19.7	26.7	14.4	6.1	45.6	90.1	25.8	72.3
		STCR	96.3	23.6	33.2	20.0	8.0	57.6	116.3	31.6	90.8
		SSNM	76.1	19.7	26.3	15.2	6.1	48.2	91.3	25.8	74.5
P 3377 (Pioneer)	67.5x20 cm	100% RDF	79.3	20.5	27.3	26.4	9.8	75.3	105.7	30.4	102.5
		STCR	108.9	26.7	37.1	36.4	11.8	90.1	145.3	38.5	127.2
		SSNM	79.9	20.7	28.2	22.0	10.0	73.5	101.9	30.7	101.7
	67.5x15 cm	100% RDF	88.3	23.3	30.5	25.1	10.1	74.0	113.4	33.4	104.5
		STCR	109.5	28.3	38.3	39.4	12.7	94.6	148.9	41.0	132.9
		SSNM	87.2	23.0	30.2	22.7	9.8	77.1	109.9	32.7	107.3
Mean of location			84.2	21.6	29.3	22.5	8.5	63.9	106.7	30.1	93.2
4212 (Rasi seeds)			76.2	19.4	26.6	16.4	6.3	47.0	92.5	25.7	73.6
P 3377 (Pioneer)			92.2	23.8	31.9	28.7	10.7	80.8	120.8	34.5	112.7
CD at 5%			1.7	1.5	2.5	6.6	0.6	9.0	4.9	1.1	9.1
CV (%)			1.4	4.7	5.9	20.5	5.3	9.8	3.2	2.6	6.8
67.5x20 cm			79.5	20.3	27.7	22.2	8.2	61.6	101.7	28.5	89.3
67.5x15 cm			88.9	22.9	30.9	22.8	8.8	66.2	111.7	31.7	97.0
CD at 5%			9.3	1.9	NS	NS	NS	3.8	NS	3.0	6.5
CV (%)			11.9	9.3	12.3	22.5	17.4	6.4	13.2	10.7	7.6
100% RDF (120:60:40)			77.3	20.2	26.9	20.0	7.9	58.9	97.4	28.1	85.8
STCR (212:106:87)			97.2	24.4	33.8	29.1	9.8	72.9	126.3	34.2	106.7
SSNM (120:30:46)			78.0	20.1	27.1	18.4	7.8	59.9	96.4	27.9	87.0
CD at 5%			11.8	2.3	3.8	3.5	0.9	3.3	10.9	2.4	5.4
CV (%)			16.2	12.0	14.8	18.1	11.8	5.9	11.8	9.2	6.6

Table 53: Effect of planting density and nutrient management practices on the performance of hybrids in Ambikapur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
Bio 9637	60x20 cm	100% RDF	7118	10964	81.0	82.7	236.9	53.0	55.3
		STCR	7752	12354	80.3	83.5	237.8	52.7	54.7
		SSNM	8701	13834	81.0	83.5	235.8	53.7	55.7
	50x20 cm	100% RDF	6186	9363	99.2	100.2	244.9	53.3	55.0
		STCR	6527	10378	99.0	102.3	254.0	53.3	55.3
		SSNM	6546	10408	99.0	101.0	262.3	53.0	55.3
Bio 9682	60x20 cm	100% RDF	6076	9315	80.5	82.1	225.7	52.7	54.7
		STCR	6743	10721	81.3	84.6	229.7	52.7	55.0
		SSNM	7008	11143	81.6	84.0	234.9	53.7	55.7
	50x20 cm	100% RDF	5571	8583	98.5	99.4	227.4	53.0	55.0
		STCR	6339	10079	98.3	101.3	242.6	53.0	55.0
		SSNM	6486	10313	97.5	100.1	245.4	52.3	54.3
Mean of location			6754.4	10621.3	89.8	92.1	239.8	53.0	55.1
Bio 9637			7138	11217	89.9	92.2	245.3	53.2	55.2
Bio 9682			6370	10026	89.6	91.9	234.3	52.9	54.9
CD at 5%			732.6	1188.2	NS	NS	NS	0.2	0.2
CV (%)			7.6	7.8	1.9	2.3	7.3	0.3	0.3
60x20 cm			7233	11388	81.0	83.4	233.5	53.1	55.2
50x20 cm			6276	9854	98.6	100.7	246.1	53.0	55.0
CD at 5%			896.0	1437.8	1.8	1.9	NS	NS	NS
CV (%)			14.3	14.6	2.1	2.3	5.9	2.2	2.6
100% RDF (150:60:40)			6238	9556	89.8	91.1	233.7	53.0	55.0
STCR (165:75:81)			6840	10883	89.7	92.9	241.0	52.9	55.0
SSNM (170:67:86)			7185	11425	89.8	92.2	244.6	53.2	55.3
CD at 5%			565.9	894.3	NS	NS	7.9	NS	NS
CV (%)			9.7	9.7	1.7	1.8	3.8	2.3	2.5

Treatment details:

A. Main plot: Hybrids
H1: Bio 9637
H2: Bio 9682

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (150:60:40)
N2: STCR (165:75:81)
N3: SSNM based on nutrient expert (170:67:86)

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Hybrids	Density	Nutrient management	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row
Bio 9637	60x20 cm	100% RDF	34.2	65826	2.8	17.0	13.2	13.1	35.5
		STCR	37.1	72206	2.8	17.5	14.3	14.7	39.0
		SSNM	36.5	83371	3.2	18.2	14.9	15.3	40.5
	50x20 cm	100% RDF	33.0	54018	2.3	16.3	12.4	12.1	33.7
		STCR	36.1	56938	2.2	17.0	13.4	13.8	38.2
		SSNM	35.8	56208	2.1	17.8	14.0	14.5	39.6
Bio 9682	60x20 cm	100% RDF	31.6	52583	2.2	16.7	13.0	13.0	35.5
		STCR	36.3	59430	2.3	17.3	14.2	14.6	38.4
		SSNM	38.2	61900	2.4	17.9	14.7	15.2	39.7
	50x20 cm	100% RDF	33.3	46053	1.9	16.1	12.1	12.1	33.4
		STCR	35.1	54308	2.1	16.9	13.3	13.8	38.1
		SSNM	35.7	55278	2.1	17.6	13.7	14.5	39.6
Mean of location			35.2	59843.3	2.4	17.2	13.6	13.9	37.6
Bio 9637			35.5	64761	2.6	17.3	13.7	13.9	37.8
Bio 9682			35.0	54925	2.2	17.1	13.5	13.8	37.4
CD at 5%			NS	9260.3	0.3	NS	NS	NS	NS
CV (%)			1.8	10.8	10.0	2.7	2.6	2.5	1.1
60x20 cm			35.7	65886	2.6	17.4	14.1	14.3	38.1
50x20 cm			34.8	53800	2.1	16.9	13.2	13.5	37.1
CD at 5%			NS	11241.8	0.4	0.4	0.6	NS	0.8
CV (%)			5.1	20.3	20.1	2.4	5.0	7.3	2.2
100% RDF (150:60:40)			33.0	54620	2.3	16.5	12.7	12.6	34.5
STCR (165:75:81)			36.2	60721	2.4	17.2	13.8	14.2	38.4
SSNM (170:67:86)			36.6	64189	2.4	17.9	14.3	14.9	39.9
CD at 5%			1.0	7106.8	NS	0.7	0.5	0.4	1.2
CV (%)			3.4	13.7	13.8	4.8	4.3	3.5	3.7

Table 54: Effect of planting density and nutrient management practices on the performance of hybrids in Bahraich.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to maturity	Days to 50% silking
NM-849	60x20 cm	120:60:60	4161	5780	5052	82.8	82.4	191.0	98.0	49.7
		200:60:60	5303	6897	5955	79.4	82.4	195.0	100.3	47.0
		245:60:85	5560	7413	6445	82.6	82.3	197.3	101.3	45.3
	50x20 cm	120:60:60	3880	5413	4825	99.4	99.1	188.0	96.3	47.3
		200:60:60	4673	6372	5582	99.5	99.1	193.0	98.3	45.0
		245:60:85	5226	7097	6127	99.5	99.1	195.3	100.3	44.0
NM-1107	60x20 cm	120:60:60	4379	5972	5262	82.6	82.1	192.3	96.3	47.3
		200:60:60	5279	7070	6188	82.7	82.4	197.7	98.3	47.7
		245:60:85	5739	7552	6658	329.3	82.2	200.0	99.0	45.0
	50x20 cm	120:60:60	4066	5622	5331	99.1	98.8	190.3	95.3	46.0
		200:60:60	4997	6813	5873	99.2	98.9	196.0	97.0	44.7
		245:60:85	5383	7242	6283	99.3	99.0	198.3	98.3	43.7
Mean of location			4887.2	6603.5	5798.4	111.3	90.6	194.5	98.3	46.1
NM-849			4800	6495	5664	90.5	90.7	193.3	99.1	46.4
NM-1107			4974	6712	5933	132.0	90.6	195.8	97.4	45.7
CD at 5%			NS	37.6	150.2	NS	NS	NS	0.2	NS
CV (%)			3.3	0.4	1.8	110.2	0.2	1.1	0.2	1.1
60x20 cm			5070	6781	5927	123.2	82.3	195.6	98.9	47.0
50x20 cm			4704	6426	5670	99.3	99.0	193.5	97.6	45.1
CD at 5%			72.7	34.2	187.2	NS	0.2	0.6	0.2	0.7
CV (%)			1.6	0.6	3.5	110.7	0.2	0.3	0.2	1.6
120:60:60			4122	5697	5117	91.0	90.6	190.4	96.5	47.6
200:60:60			5063	6788	5900	90.2	90.7	195.4	98.5	46.1
245:60:85			5477	7326	6378	152.7	90.6	197.8	99.8	44.5
CD at 5%			92.0	36.5	149.4	NS	NS	0.7	0.3	0.5
CV (%)			2.2	0.6	3.0	110.9	0.1	0.4	0.3	1.2

Treatment details:

A. Main plot: Hybrids
H1: NM-849
H2: NM-1107

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (120:60:60)
N2: STCR (200:60:60)
N3: SSNM based on nutrient expert (245:60:85)

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Hybrids	Density	Nutrient management	Barrenness (%)	100-seed weight (g)	System productivity	Net profit (Rs./ha)	B:C Ratio	Nutrient uptake (kg/ha)		
								N	P	K
NM-849	60x20 cm	120:60:60	0.21	24.8	4522	43308	3.16	124.9	23.0	79.6
		200:60:60	0.35	25.2	5529	55401	3.52	152.1	27.7	96.8
		245:60:85	0.40	25.3	6020	61280	3.66	155.6	31.0	105.4
	50x20 cm	120:60:60	0.43	24.6	4221	39094	2.95	116.1	22.1	73.9
		200:60:60	0.36	25.0	5105	49003	3.22	139.5	25.3	88.8
		245:60:85	0.29	25.2	5664	56291	3.44	155.7	28.3	99.1
NM-1107	60x20 cm	120:60:60	0.30	25.0	4643	44997	3.25	137.7	23.2	81.0
		200:60:60	0.35	25.4	5721	58099	3.64	157.3	29.0	100.1
		245:60:85	0.50	25.5	6215	64005	3.78	170.9	31.7	108.7
	50x20 cm	120:60:60	0.42	24.8	4423	41927	3.09	121.6	22.6	77.2
		200:60:60	0.44	25.2	5416	53829	3.44	148.9	27.0	94.8
		245:60:85	0.45	25.4	5832	58648	3.54	127.0	29.1	102.1
Mean of location			0.38	25.1	5275.9	52156.9	3.39	142.3	26.7	92.3
NM-849			0.34	25.0	5177	50730	3.33	140.6	26.2	90.6
NM-1107			0.41	25.2	5375	53584	3.46	143.9	27.1	94.0
CD at 5%			NS	0.1	NS	2461.6	0.12	NS	NS	2.8
CV (%)			37.8	0.2	2.6	3.3	2.6	8.8	4.9	2.1
60x20 cm			0.35	25.2	5442	54515	3.50	149.7	27.6	95.3
50x20 cm			0.40	25.0	5110	49799	3.28	134.8	25.7	89.3
CD at 5%			0.03	0.1	86.8	1128.7	0.05	14.8	0.5	1.4
CV (%)			7.2	0.3	1.8	2.3	1.7	11.2	1.9	1.7
120:60:60			0.34	24.8	4452	42332	3.11	125.1	22.7	77.9
200:60:60			0.38	25.2	5443	54083	3.46	149.5	27.2	95.1
245:60:85			0.41	25.3	5933	60056	3.61	152.3	30.0	103.8
CD at 5%			NS	0.1	53.0	704.6	0.03	15.8	0.6	0.9
CV (%)			21.7	0.3	1.2	1.6	1.2	12.8	2.5	1.1

Table 55: Effect of planting density and nutrient management practices on the performance of hybrids in Bhubaneswar.

Hybrids	Density	Nutrient management	Maize grain yield (kg/ha)	Stover yield (kg/ha)	Plants (000/ ha)	Plant Height (cm)	Days to 50% silking	Days to 50% tasseling	100- Seed weight (g)
Hishel	60x20 cm	RDF	5055	12867	79.3	153.3	57.7	54.7	29.4
		STCR	5810	17911	78.7	163.0	59.0	55.0	30.2
		SSNM	5657	17467	79.3	168.8	58.0	55.0	31.4
	50x20 cm	RDF	5143	15733	96.7	154.0	59.0	55.0	31.0
		STCR	6474	18933	94.2	161.8	59.0	56.0	32.2
		SSNM	6114	18333	92.0	168.1	58.7	55.3	31.9
P 3441	60x20 cm	RDF	5331	16000	79.3	140.1	56.0	52.7	29.8
		STCR	6258	21778	77.8	145.5	57.7	54.0	31.6
		SSNM	5904	19467	77.6	153.6	56.0	53.0	32.4
	50x20 cm	RDF	5465	17022	95.8	133.9	57.0	54.0	31.3
		STCR	6980	22356	93.1	142.6	57.0	54.0	32.4
		SSNM	6665	22356	94.9	150.6	58.0	55.7	31.8
Mean of location			5904.7	18351.8	86.6	152.9	57.8	54.5	31.3
Hishel			5709	16874	86.7	161.5	58.6	55.2	31.0
P 3441			6101	19830	86.4	144.4	56.9	53.9	31.6
CD at 5%			NS	791.6	NS	6.9	0.5	1.0	NS
CV (%)			4.8	3.0	0.3	3.1	0.6	1.3	4.7
60x20 cm			5669	17581	78.7	154.1	57.4	54.1	30.8
50x20 cm			6140	19122	94.4	151.8	58.1	55.0	31.8
CD at 5%			201.8	1288.2	2.2	NS	NS	0.3	NS
CV (%)			3.7	7.6	2.7	2.3	1.4	0.6	3.6
RDF (120:60:60)			5249	15406	87.8	145.3	57.4	54.1	30.4
STCR (143:15:78)			6381	20244	85.9	153.2	58.2	54.8	31.6
SSNM 140:47:71			6085	19406	85.9	160.3	57.7	54.8	31.9
CD at 5%			293.1	815.9	1.4	3.0	NS	NS	0.8
CV (%)			5.7	5.1	1.9	2.2	2.0	2.6	3.1

Treatment details:

A. Main plot: Hybrids
H1: Hishel
H2: P 3441

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (120:60:60)
N2: STCR (143:15:78)
N3: SSNM based on nutrient expert (140:47:71)

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Hybrids	Density	Nutrient management	Net return (Rs)/ha	BC Ratio	Mustard seed yield (kg/ha)	Stover yield (kg/ha)	Plant height (cm)	System productivity (kg/ha)	System net return (Rs)	System B:C
Hishel	60x20 cm	RDF	23943	1.43	896	2008	91.5	6765	36069	0.65
		STCR	38882	1.71	919	2180	98.0	7564	47851	0.87
		SSNM	36438	1.66	908	2164	97.4	7391	45463	0.82
	50x20 cm	RDF	27971	1.51	895	2029	93.3	6851	37815	0.69
		STCR	48607	1.88	927	2209	104.2	8243	57022	1.03
		SSNM	43282	1.78	913	2186	102.8	7856	51779	0.94
P 3441	60x20 cm	RDF	30696	1.56	894	2041	97.6	7037	40307	0.73
		STCR	48613	1.88	926	2250	105.8	8025	54883	1.00
		SSNM	41669	1.76	912	2216	102.4	7645	49326	0.89
	50x20 cm	RDF	33478	1.61	902	2077	101.8	7187	42541	0.77
		STCR	58654	2.06	934	2287	113.1	8763	64765	1.17
		SSNM	54532	1.99	918	2224	110.3	8417	60102	1.09
Mean of location			40563.7	1.74	912.1	2155.9	101.5	7645.3	48993.5	0.89
Hishel			36521	1.66	909.7	2129.3	97.9	7445	46000	0.83
P 3441			44607	1.81	914.4	2182.4	105.2	7846	51987	0.94
CD at 5%			6135.9	0.11	NS	NS	3.8	NS	5918.3	0.11
CV (%)			10.5	4.47	1.2	1.2	2.6	4.0	8.4	8.42
60x20 cm			36707	1.67	909.3	2143.1	98.8	7404	45650	0.83
50x20 cm			44421	1.81	914.8	2168.7	104.2	7886	52337	0.95
CD at 5%			2611.5	0.05	NS	NS	4.7	224.8	2935.1	0.05
CV (%)			7.0	2.95	1.6	1.6	5.0	3.2	6.5	6.47
RDF (120:60:60)			29022	1.53	896.8	2038.8	96.0	6960	39183	0.71
STCR (143:15:78)			48689	1.88	926.5	2231.4	105.3	8149	56130	1.02
SSNM 140:47:71			43980	1.80	912.9	2197.4	103.2	7827	51668	0.94
CD at 5%			3741.7	0.07	21.7	21.7	5.0	290.6	3754.7	0.07
CV (%)			10.7	4.52	2.7	2.7	5.7	4.4	8.9	8.86

Table 56: Effect of planting density and nutrient management practices on the performance of Hybrid in kharif season in Dholi.

Hybrids	Density	Nutrient	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Moisture (%)
Pioner 3540	60x20 cm	RDF	5754	7478	82.0	81.8	57.7	59.7	190.8	18.2
		STCR	5864	7556	82.7	82.9	57.7	59.7	196.7	17.5
		SSNM	5586	7122	81.6	81.3	57.7	60.0	184.4	16.6
	50x20 cm	RDF	5291	6711	98.3	98.2	57.3	59.7	181.4	16.2
		STCR	5474	7033	98.6	98.4	57.7	59.7	182.3	17.3
		SSNM	5286	6822	97.8	97.9	55.7	57.7	179.5	17.7
RASI 4595	60x20 cm	RDF	5600	7189	82.0	81.7	55.7	58.0	184.5	17.2
		STCR	5690	7256	82.3	81.9	55.0	57.3	190.4	16.6
		SSNM	5559	7122	81.3	81.6	55.7	58.0	184.2	17.0
	50x20 cm	RDF	5171	6578	97.4	97.1	54.3	56.7	174.3	16.4
		STCR	5516	7011	99.0	98.7	56.7	59.0	184.1	16.4
		SSNM	4619	5878	96.9	96.6	54.3	57.3	172.6	16.5
Mean of location			5450.8	6979.6	90.0	89.8	56.3	58.6	183.8	17.0
Pioner 3540			5542	7120	90.1	90.1	57.3	59.4	185.8	17.3
RASI 4595			5359	6839	89.8	89.6	55.3	57.7	181.7	16.7
CD at 5%			NS	NS	NS	NS	0.4	1.5	1.8	NS
CV (%)			4.6	4.2	0.5	0.6	0.5	1.8	0.7	3.0
60x20 cm			5675	7287	82.0	81.9	56.6	58.8	188.5	17.2
50x20 cm			5226	6672	98.0	97.8	56.0	58.3	179.0	16.7
CD at 5%			108.3	124.5	1.2	1.0	NS	NS	3.2	0.4
CV (%)			2.1	1.9	1.4	1.2	1.2	1.5	1.9	2.7
RDF (120:60:40)			5454	6989	89.9	89.7	56.3	58.5	182.8	17.0
STCR (122:40:80)			5636	7214	90.6	90.5	56.8	58.9	188.4	17.0
SSNM (103:35:30)			5262	6736	89.4	89.3	55.8	58.3	180.2	17.0
CD at 5%			184.1	209.1	0.4	0.5	0.5	NS	2.0	NS
CV (%)			3.9	3.5	0.4	0.6	1.0	1.5	1.3	3.6

Treatment details:

A. Main plot: Hybrids

H1: Pioner 3540

H2: RASI 4595

B. Sub plot: Density

D1: 60x20 cm

D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)

N1: 100% RDF (120:60:60)

N2: STCR (122:40:80)

N3: SSNM based on nutrient expert (103:35:30)

Table 57: Effect of planting density and nutrient management practices on the performance of hybrids in Ranchi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
BIO-9637	60x20 cm	RDF	7576	10932	81.1	79.7	224.9	50.3	55.3	31.2
		STCR	7270	10148	82.2	80.8	237.9	50.0	53.0	32.5
		SSNM	8148	11437	82.2	81.4	197.9	51.0	54.0	32.2
	50x20 cm	RDF	6615	11992	96.9	91.9	198.3	51.0	54.3	30.8
		STCR	7638	13273	96.9	92.8	228.5	48.3	52.3	32.1
		SSNM	6598	11576	97.2	92.5	242.1	48.7	52.7	31.9
BIO-9682	60x20 cm	RDF	7494	10386	81.7	80.0	211.5	49.3	52.3	32.3
		STCR	9131	12623	81.1	80.0	215.3	47.3	50.3	33.6
		SSNM	8661	11816	81.7	80.6	232.5	47.7	51.7	33.5
	50x20 cm	RDF	6742	11544	95.8	91.4	233.3	50.0	54.7	31.5
		STCR	9216	13681	96.9	91.9	231.9	49.3	52.3	32.5
		SSNM	8280	12850	96.7	91.4	218.2	49.7	52.7	32.1
Mean of location			7780.7	11854.8	89.2	86.2	222.7	49.4	53.0	32.2
BIO-9637			7307	11560	89.4	86.5	221.6	49.9	53.6	31.8
BIO-9682			8254	12150	89.0	85.9	223.8	48.9	52.3	32.6
CD at 5%			677.2	314.7	NS	NS	NS	NS	NS	NS
CV (%)			6.1	1.9	1.8	1.9	2.5	5.6	4.2	2.8
60x20 cm			8047	11224	81.7	80.4	220.0	49.3	52.8	32.6
50x20 cm			7515	12486	96.8	92.0	225.4	49.5	53.2	31.8
CD at 5%			284.5	380.9	1.1	2.1	NS	NS	NS	0.7
CV (%)			4.0	3.5	1.3	2.7	2.8	4.0	3.9	2.3
RDF (150:60:40)			7107	11213	88.9	85.8	217.0	50.2	54.2	31.4
STCR(238:108:156)			8314	12431	89.3	86.4	228.4	48.8	52.0	32.7
SSNM (170:67:86)			7922	11920	89.4	86.5	222.7	49.3	52.8	32.4
CD at 5%			554.7	839.5	NS	NS	NS	1.0	1.1	NS
CV (%)			8.2	8.2	3.3	5.2	5.5	2.3	2.4	5.3

Treatment details:

A. Main plot: Hybrids
H1: BIO-9637
H2: BIO-9682

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (150:60:40)
N2: STCR (238:108:156)
N3: SSNM based on nutrient expert (170:67:86)

Cont…..

Hybrids	Density	Nutrient management	Net returns (Rs./ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
BIO-9637	60x20 cm	RDF	72313	2.42	1.7	18.7	15.2	13.5	26.8
		STCR	60687	1.63	1.7	20.8	17.3	14.7	29.3
		SSNM	77864	2.43	1.0	21.5	15.8	14.5	30.3
	50x20 cm	RDF	59187	1.93	5.2	20.5	12.5	12.6	28.6
		STCR	65536	1.72	4.3	21.3	13.3	14.8	29.7
		SSNM	56759	1.73	4.9	18.8	16.6	14.3	26.0
BIO-9682	60x20 cm	RDF	71087	2.38	2.0	19.2	15.4	14.4	27.5
		STCR	85749	2.30	1.4	24.3	16.0	16.7	34.1
		SSNM	84681	2.64	1.4	24.9	15.9	16.0	34.9
	50x20 cm	RDF	60728	1.98	4.7	20.8	16.4	12.7	28.9
		STCR	86316	2.26	5.1	19.2	16.2	13.7	26.7
		SSNM	79150	2.41	5.5	18.6	13.7	13.8	25.8
Mean of location			71671.4	2.15	3.2	20.7	15.4	14.3	29.1
BIO-9637			65391	1.98	3.1	20.3	15.1	14.1	28.4
BIO-9682			77952	2.33	3.3	21.2	15.6	14.5	29.7
CD at 5%			8957	0.32	NS	0.8	0.2	NS	1.0
CV (%)			8.7	10.2	24.6	2.7	0.9	2.9	2.5
60x20 cm			75397	2.30	1.5	21.6	15.9	15.0	30.5
50x20 cm			67946	2.01	4.9	19.9	14.8	13.6	27.6
CD at 5%			3830.1	0.11	2.2	0.5	0.4	0.7	0.7
CV (%)			5.8	5.6	74.8	2.6	2.8	5.5	2.6
RDF (150:60:40)			65829	2.17	3.4	19.8	14.9	13.3	28.0
STCR(238:108:156)			74572	1.98	3.1	21.4	15.7	15.0	29.9
SSNM (170:67:86)			74613	2.31	3.2	20.9	15.5	14.7	29.3
CD at 5%			7485.2	0.22	NS	0.9	NS	0.7	1.3
CV (%)			12.1	11.6	92.4	5.2	5.1	5.4	5.3

Table 58: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Coimbatore.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
CO H 6	60x20 cm	RDF	7182	12460	81.3	79.7	253.7	52.7	56.7
		STCR	7059	12149	80.9	78.8	249.3	52.3	56.0
		SSNM	5191	8904	80.8	78.0	236.9	50.7	54.3
	50x 20 cm	RDF	8289	14366	97.4	96.3	257.2	52.0	56.3
		STCR	8146	14019	97.0	94.8	254.6	51.7	55.3
		SSNM	5956	10202	96.8	94.6	244.6	49.7	53.7
CO H 8	60x20 cm	RDF	6486	11263	80.9	79.3	248.3	46.7	50.3
		STCR	6372	10966	80.8	78.8	246.7	46.3	50.0
		SSNM	4626	7921	80.6	77.8	235.9	45.3	49.7
	50x 20 cm	RDF	7507	12992	96.7	95.0	251.8	45.7	49.7
		STCR	7373	12688	96.3	94.5	248.5	45.3	49.0
		SSNM	5326	9106	95.9	93.8	240.6	44.3	48.7
Mean of location			6626.0	11419.6	88.8	86.8	247.3	48.6	52.5
CO H 6			6971	12017	89.1	87.0	249.4	51.5	55.4
CO H 8			6282	10823	88.5	86.5	245.3	45.6	49.6
CD at 5%			562.4	266.1	NS	NS	NS	2.5	3.5
CV (%)			5.9	1.6	1.2	0.8	5.5	3.6	4.7
60x20 cm			6153	10610	80.9	78.7	245.1	49.0	52.8
50x 20 cm			7099	12229	96.7	94.8	249.6	48.1	52.1
CD at 5%			537.3	563.5	1.7	1.0	NS	NS	NS
CV (%)			8.8	5.3	2.1	1.2	4.4	2.7	2.8
RDF (250:75:75)			7366	12770	89.1	87.6	252.8	49.3	53.3
STCR (232:99:37.5)			7237	12456	88.8	86.7	249.8	48.9	52.6
SSNM (110:61:90)			5275	9033	88.5	86.1	239.5	47.5	51.6
CD at 5%			498.0	592.6	NS	NS	9.7	0.7	0.9
CV (%)			8.7	6.0	2.1	2.6	4.5	1.8	1.9

Treatment details:

A. Main plot: Hybrids
H1: CO H 6
H2: CO H 8

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (250:75:75)
N2: STCR (232:99:37.5)
N3: SSNM based on nutrient expert (110:61:90)

Cont…..

Hybrids	Density	Nutrient management	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
CO H 6	60x20 cm	RDF	38.6	59079	2.26	18.9	14.7	14.8	37.0
		STCR	38.5	57350	2.23	18.5	14.5	14.7	36.6
		SSNM	37.5	31492	1.70	15.4	13.4	12.4	32.5
	50x 20 cm	RDF	38.4	72780	2.47	18.2	14.5	14.5	36.5
		STCR	38.3	70747	2.44	17.7	14.3	14.4	35.7
		SSNM	37.3	40135	1.84	14.5	13.3	12.3	31.2
CO H 8	60x20 cm	RDF	37.5	49334	2.07	18.3	14.5	14.7	35.0
		STCR	37.3	47732	2.04	17.8	14.2	14.4	34.3
		SSNM	36.3	23664	1.53	14.6	13.2	12.3	30.8
	50x 20 cm	RDF	37.3	61736	2.27	17.5	13.9	14.3	34.3
		STCR	37.1	59866	2.23	17.2	13.8	14.3	34.4
		SSNM	35.9	31349	1.67	14.1	13.1	12.3	30.1
Mean of location			37.5	50438.6	2.06	16.9	14.0	13.8	34.0
CO H 6			38.1	55264	2.16	17.2	14.1	13.8	34.9
CO H 8			36.9	45614	2.0	16.6	13.8	13.7	33.1
CD at 5%			NS	7451.3	0.2	NS	NS	0.1	NS
CV (%)			3.1	10.3	5.0	4.1	1.3	0.6	4.6
60x20 cm			37.6	44775	1.97	17.3	14.1	13.9	34.4
50x 20 cm			37.4	56102	2.15	16.5	13.8	13.7	33.7
CD at 5%			NS	7514.6	0.2	NS	NS	NS	0.2
CV (%)			6.1	16.1	8.3	4.6	3.4	3.1	0.5
RDF (250:75:75)			37.9	60732	2.27	18.2	14.4	14.6	35.7
STCR (232:99:37.5)			37.8	58924	2.24	17.8	14.2	14.4	35.3
SSNM (110:61:90)			36.8	31660	1.69	14.7	13.3	12.3	31.2
CD at 5%			NS	6229.4	0.1	0.4	0.4	0.4	0.7
CV (%)			8.8	14.3	7.4	2.6	3.4	2.9	2.3

Table 59: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season (cropping system maize alone) in Dharwad.

Density	Nutrient management	Hybrids	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
60x20 cm	RDF	Pinacle	5841	7807	79.0	75.1	162.4	51.0	55.7
		900 M-Gold	6113	8053	78.1	74.2	170.6	50.7	54.7
		GH-0727	6156	8124	80.4	76.4	184.7	51.3	56.0
	STCR	Pinacle	5787	7590	80.4	76.4	186.9	51.7	56.3
		900 M-Gold	5161	7124	80.3	76.3	130.5	52.0	55.0
		GH-0727	5814	7603	79.2	75.3	130.4	50.7	55.3
	SSNM	Pinacle	6131	8031	80.2	76.1	140.9	51.7	56.3
		900 M-Gold	5641	7541	77.6	73.7	133.5	51.0	56.0
		GH-0727	4819	6787	77.4	73.5	200.6	50.7	54.7
50x20 cm	RDF	Pinacle	6135	8035	91.0	86.5	221.2	52.0	56.3
		900 M-Gold	5619	7507	87.5	83.2	176.5	51.3	55.0
		GH-0727	5412	7397	88.2	83.8	190.5	51.3	55.7
	STCR	Pinacle	5936	7780	92.1	87.5	193.4	51.7	55.7
		900 M-Gold	5531	7417	91.9	87.3	193.7	51.3	55.3
		GH-0727	6074	8017	93.9	89.2	140.5	51.3	55.7
	SSNM	Pinacle	5649	7443	88.0	83.6	125.8	52.0	56.0
		900 M-Gold	5424	7370	91.9	87.3	130.6	50.7	54.7
		GH-0727	5625	7540	92.2	87.6	141.0	50.3	54.3
Mean of location			5714.9	7620.3	85.0	80.7	164.1	51.3	55.5
60x20 cm			5718	7629	79.2	75.2	160.1	51.2	55.6
50x20 cm			5712	7612	90.8	86.2	168.1	51.3	55.4
CD at 5%			NS	NS	3.4	3.2	NS	NS	NS
CV (%)			12.1	9.6	3.4	3.4	10.0	1.9	0.2
RDF			5879	7820	84.0	79.8	184.3	51.3	55.6
STCR			5717	7589	86.3	82.0	162.6	51.4	55.6
SSNM			5548	7452	84.5	80.3	145.4	51.1	55.3
CD at 5%			NS	NS	NS	NS	5.4	NS	NS
CV (%)			10.9	7.1	6.5	6.5	4.3	1.1	0.6
Pinacle			5913	7781	85.1	80.9	171.8	51.7	56.1
900 M-Gold			5582	7502	84.6	80.3	155.9	51.2	55.1
GH-0727			5650	7578	85.2	81.0	164.6	50.9	55.3
CD at 5%			NS	NS	NS	NS	8.6	0.5	0.5
CV (%)			9.5	7.0	3.9	3.9	7.6	1.4	1.2

Treatment details:

A. Main plot: Density
D1: 60x20 cm
D2: 50x20 cm

B. Sub plot: Nutrient management (N:P2O5:K2O)
N1: 100% RDF ()
N2: STCR ()
N3: SSNM based on nutrient expert ()

C. Sub-sub plot: Hybrids
H1: Pinacale
H2: 900 M-Gold
H3: GH-0727

Cont…..

Density	Nutrient management	Hybrids	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio
60x20 cm	RDF	Pinacle	17.3	5.0	17.0	37.9	24.7	39749	2.28
		900 M-Gold	16.5	4.9	17.5	33.9	31.0	42943	2.38
		GH-0727	18.5	4.9	14.9	35.3	38.7	43474	2.40
	STCR	Pinacle	17.7	5.0	15.5	36.5	23.0	38957	2.25
		900 M-Gold	16.9	4.6	15.7	32.1	25.7	31732	2.02
		GH-0727	17.4	4.8	14.5	36.2	32.0	39261	2.26
	SSNM	Pinacle	17.6	4.8	16.6	38.8	29.0	38587	2.08
		900 M-Gold	16.8	4.7	16.2	33.2	32.7	32815	1.92
		GH-0727	16.4	4.3	16.0	31.4	26.3	23174	1.65
50x20 cm	RDF	Pinacle	17.9	4.9	16.2	36.2	26.0	43154	2.39
		900 M-Gold	17.7	5.0	15.8	38.6	30.7	37054	2.19
		GH-0727	18.0	4.9	14.8	35.0	37.7	34709	2.11
	STCR	Pinacle	17.2	5.3	17.0	38.7	28.0	40757	2.31
		900 M-Gold	16.8	4.9	16.4	36.0	27.3	36015	2.16
		GH-0727	17.6	4.8	16.8	33.9	35.3	42479	2.36
	SSNM	Pinacle	18.3	5.1	17.4	35.1	28.0	32796	1.92
		900 M-Gold	18.2	4.9	15.7	42.4	30.3	30294	1.85
		GH-0727	17.4	4.7	14.4	34.6	36.0	32641	1.92
Mean of location			17.5	4.9	16.0	35.9	30.1	36699.4	2.14
60x20 cm			17.2	4.8	16.0	35.0	29.2	36744	2.14
50x20 cm			17.7	4.9	16.0	36.7	31.0	36655	2.13
CD at 5%			NS	NS	NS	NS	1.4	NS	NS
CV (%)			6.6	3.0	6.5	6.8	4.0	22.3	10.9
RDF			17.7	4.9	16.0	36.1	31.4	40180	2.29
STCR			17.3	4.9	16.0	35.6	28.6	38200	2.23
SSNM			17.4	4.8	16.0	35.9	30.4	31718	1.89
CD at 5%			NS	NS	NS	NS	1.2	5567.4	0.2
CV (%)			5.5	4.1	5.0	8.0	5.1	19.7	10.2
Pinacle			17.7	5.0	16.6	37.2	26.4	39000	2.20
900 M-Gold			17.2	4.8	16.2	36.0	29.6	35142	2.09
GH-0727			17.6	4.7	15.2	34.4	34.3	35956	2.12
CD at 5%			NS	0.1	0.7	1.5	2.0	NS	NS
CV (%)			5.0	2.2	6.0	6.2	9.6	17.4	9.2

Table 60: Effect of planting density and nutrient management practices on the performance of maize hybrids in Hyderabad.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant Height (cm)	Days to 50% silking	Days to 50% tasseling	Days to maturity
P 3396	Normal (60x20 cm)	RDF	7787	8217	79.9	72.7	223.3	51.7	54.3	98.7
		STCR	9160	9817	78.8	78.9	249.3	53.3	56.3	102.3
		SSNM	6865	7577	80.0	70.9	224.0	51.7	54.7	98.0
		150%	7818	9933	75.7	74.9	233.3	54.0	56.7	102.7
	High (50x20 cm)	RDF	7527	8067	94.2	81.4	232.3	52.7	55.7	101.0
		STCR	9331	9620	93.2	86.4	258.3	54.3	57.3	103.7
		SSNM	7134	7183	88.0	79.9	233.3	52.7	56.0	98.7
		150%	8145	8380	92.7	83.4	247.3	55.0	57.3	104.0
NK 6240	Normal (60x20 cm)	RDF	8397	9307	77.4	72.2	231.7	56.3	58.7	100.3
		STCR	10157	10700	79.8	75.7	256.0	57.3	59.3	100.7
		SSNM	7142	7797	78.2	75.5	227.7	54.7	57.3	99.3
		150%	9040	9700	79.1	76.6	245.3	57.7	60.0	103.0
	High (50x20 cm)	RDF	7727	8057	89.5	82.1	240.7	57.3	59.3	101.7
		STCR	9403	9497	86.9	82.1	263.0	58.7	61.0	106.0
		SSNM	6851	7590	90.7	85.4	238.7	57.0	59.7	103.0
		150%	8333	8553	88.9	83.3	254.0	59.3	61.7	107.0
Mean of location			8176.0	8749.6	84.6	78.8	241.1	55.2	57.8	101.9
P3396			7971	8599	85.3	78.6	237.7	53.2	56.0	101.1
NK 6240			8381	8900	83.8	79.1	244.6	57.3	59.6	102.6
CD at 5%			401.3	NS	NS	NS	3.1	3.8	1.5	0.6
CV (%)			4.0	3.9	6.6	1.9	1.0	5.6	2.1	0.5
Normal (60x20 cm)			8296	9131	78.6	74.7	236.3	54.6	57.2	100.6
High (50x20 cm)			8056	8368	90.5	83.0	246.0	55.9	58.5	103.1
CD at 5%			NS	327.8	4.7	3.2	4.6	0.1	0.6	1.3
CV (%)			6.8	4.7	7.0	5.1	2.4	0.3	1.3	1.6
RDF (200:60:50)			7859	8412	85.3	77.1	232.0	54.5	57.0	100.4
STCR (265:50:48)			9513	9908	84.7	80.8	256.7	55.9	58.5	103.2
SSNM (141:60:90)			6998	7537	84.2	77.9	230.9	54.0	56.9	99.8
150% (300:90:75)			8334	9142	84.1	79.6	245.0	56.5	58.9	104.2
CD at 5%			443.7	494.3	NS	2.6	4.2	0.5	0.8	1.9
CV (%)			6.4	6.7	5.3	3.9	2.0	1.1	1.7	2.2

Treatment details:

A. Main plot: Hybrids
H1: P3396
H2: NK 6240

B. Sub plot: Density
D1: Normal (60x20 cm)
D2: High (50x20 cm)

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (200:60:50)
N2: STCR (265:50:48)
N3: SSNM based on nutrient expert (141:60:90)
N4: 150% (300:90:75)

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Hybrids	Density	Nutrient management	Cob length (cm)	Cob Girth (cm)	Grains/ row	100-seed weight (g)	Net returns (Rs./ha)	BC Ratio	Absorbed /Utilized PAR	LAI
P 3396	Normal (60x20 cm)	RDF	16.1	15.1	33.0	31.3	63642	2.39	1416	3.2
		STCR	17.4	15.5	37.0	34.7	82935	1.80	1338	2.8
		SSNM	16.4	14.2	32.0	29.3	55388	1.34	1362	2.7
		150%	17.5	15.2	38.7	32.0	61850	1.24	1515	3.2
	High (50x20 cm)	RDF	16.0	14.3	31.3	30.0	59221	1.27	1126	3.6
		STCR	17.0	15.2	35.0	32.3	84065	1.79	1460	3.6
		SSNM	16.0	14.1	30.3	32.3	57596	1.36	1548	3.3
		150%	17.2	15.0	37.0	33.3	63643	1.26	1485	3.0
NK 6240	Normal (60x20 cm)	RDF	16.7	15.3	37.7	32.0	72662	1.59	1196	2.9
		STCR	17.9	15.8	40.3	35.3	96775	2.11	1659	5.0
		SSNM	16.7	14.9	32.7	32.0	59209	1.43	1549	4.3
		150%	18.1	15.7	38.7	34.0	79498	1.60	1570	3.9
	High (50x20 cm)	RDF	16.7	15.1	37.3	30.7	61802	1.32	1141	3.9
		STCR	17.7	15.6	38.7	32.7	84878	1.81	1572	4.2
		SSNM	16.7	15.0	32.0	30.7	54320	1.28	1459	3.6
		150%	17.9	15.4	36.7	32.7	66265	1.31	1565	4.0
Mean of location			17.0	15.1	35.5	32.2	68984.4	1.56	1435.1	3.6
P3396			16.7	14.8	34.3	31.9	66043	1.56	1406.3	3.2
NK 6240			17.3	15.4	36.8	32.5	71926	1.56	1463.9	4.0
CD at 5%			0.1	0.5	0.7	NS	5504.9	NS		
CV (%)			0.4	2.6	1.5	2.5	6.4	5.9		
Normal (60x20 cm)			17.1	15.2	36.3	32.6	71495	1.69	1450.6	3.5
High (50x20 cm)			16.9	15.0	34.8	31.8	66474	1.43	1419.5	3.7
CD at 5%			0.1	0.1	0.5	NS	NS	0.12		
CV (%)			0.6	0.9	1.9	9.4	10.5	9.7		
RDF			16.4	15.0	34.8	31.0	64332	1.64	1219.8	3.4
STCR			17.5	15.5	37.8	33.8	87163	1.88	1507.3	3.9
SSNM			16.4	14.6	31.8	31.1	56628	1.35	1479.5	3.5
150%			17.7	15.3	37.8	33.0	67814	1.35	1533.8	3.5
CD at 5%			0.3	0.2	1.3	1.6	5948.6	0.13		
CV (%)			1.9	1.5	4.3	5.9	10.2	9.6		

Table 61: Effect of planting density and Nutrient management practices on performance of Full season hybrids in kharif season in Karimnagar.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Cob yield (kg/ha)	Stalk yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
NK 6240	60x20 cm	SSNM	8683	10515	9111	223.0	110.3	47.0	49.3
		STCR	9027	11259	9222	231.7	116.3	47.0	49.3
		RDF	8812	10826	9074	216.7	106.3	46.7	49.3
	50x20 cm	SSNM	8228	10267	8370	218.0	108.0	47.0	49.3
		STCR	8934	11004	9333	231.7	113.0	47.0	49.3
		RDF	8769	10648	9185	225.0	108.7	47.0	49.7
K 3110	60x20 cm	SSNM	7429	9174	7630	228.0	114.9	46.0	48.0
		STCR	8256	9996	8407	224.3	111.3	47.0	49.0
		RDF	7909	9852	8222	236.0	125.3	46.0	48.3
	50x20 cm	SSNM	7193	8967	7852	226.0	115.3	46.0	49.0
		STCR	7994	9130	8370	239.3	121.7	46.7	49.7
		RDF	7872	8985	8259	242.0	123.7	47.7	49.7
Mean of location			8258.8	10051.9	8586.4	228.5	114.6	46.8	49.2
NK 6240			8742	10753	9049	224.3	110.4	46.9	49.4
K 3110			7775	9351	8123	232.6	118.7	46.6	48.9
CD at 5%			NS	1280.0	NS	NS	NS	NS	NS
CV (%)			13.6	8.9	9.7	2.8	5.8	1.8	1.2
60x20 cm			8353	10270	8611	226.6	114.1	46.6	48.9
50x20 cm			8165	9833	8562	230.3	115.1	46.9	49.4
CD at 5%			NS	288.4	NS	NS	NS	NS	NS
CV (%)			6.9	3.1	13.0	7.1	10.1	1.8	1.2
SSNM			7883	9731	8241	223.8	112.2	46.5	48.9
STCR			8553	10347	8833	231.8	115.6	46.9	49.3
RDF			8341	10078	8685	229.9	116.0	46.8	49.3
CD at 5%			446.6	NS	NS	NS	NS	NS	NS
CV (%)			6.2	7.1	7.1	3.5	4.5	2.1	2.1

Treatment details:

A. Main plot: Hybrids
H1: NK 6240
H2: K 3110

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: SSNM based on nutrient expert (190:84:143)
N2: STCR (260:94:61)
N3: 100% RDF (200:60:50)

Cont…..

Hybrids	Density	Nutrient management	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row	100-grain weight (g)	Net returns (Rs./ha)	B:C Ratio
NK 6240	60x20 cm	SSNM	18.3	15.0	13.7	35.5	38.3	61744	1.99
		STCR	18.4	14.9	14.1	34.9	38.4	64699	2.00
		RDF	18.2	15.4	14.1	36.1	39.8	64301	2.04
	50x20 cm	SSNM	18.3	14.0	13.7	33.9	37.9	54229	1.85
		STCR	18.2	14.2	13.6	34.1	38.4	62364	1.95
		RDF	17.9	15.0	13.9	34.5	38.7	62674	2.00
K 3110	60x20 cm	SSNM	17.6	15.1	13.6	38.0	34.5	43822	1.70
		STCR	18.5	15.6	13.5	38.9	35.7	53675	1.83
		RDF	18.5	15.4	13.4	39.3	37.0	51387	1.83
	50x20 cm	SSNM	17.1	15.0	13.1	35.6	33.7	39427	1.62
		STCR	18.0	15.2	13.2	37.7	33.6	48911	1.75
		RDF	18.3	15.2	13.3	39.1	34.9	49843	1.79
Mean of location			18.1	15.0	13.6	36.5	36.7	54756.2	1.86
NK 6240			18.2	14.8	13.9	34.8	38.6	61668	1.97
K 3110			18.0	15.2	13.3	38.1	34.9	47844	1.76
CD at 5%			NS	NS	NS	2.1	2.1	NS	NS
CV (%)			4.3	7.0	6.3	4.1	4.0	29.2	13.6
60x20 cm			18.3	15.2	13.7	37.1	37.3	56604	1.90
50x20 cm			18.0	14.8	13.5	35.8	36.2	52908	1.83
CD at 5%			NS	NS	0.2	NS	NS	NS	NS
CV (%)			6.6	7.4	1.2	4.6	6.0	14.9	7.0
SSNM			17.9	14.8	13.5	35.8	36.1	49805	1.79
STCR			18.3	15.0	13.6	36.4	36.5	57412	1.88
RDF			18.3	15.2	13.7	37.2	37.6	57051	1.92
CD at 5%			NS	NS	NS	NS	NS	6386.3	0.10
CV (%)			3.7	4.8	4.2	7.1	4.3	13.5	6.3

Table 62: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Banswara.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling
P-3441	60x20 cm	RDF	7226	8373	80.5	77.0	229.3	49.7
		STCR	6714	8030	75.8	71.5	205.0	47.3
		SSNM	8772	10400	81.9	88.7	240.0	50.3
	50x20 cm	RDF	8448	9933	92.6	88.4	238.3	50.3
		STCR	7439	9033	87.3	77.9	217.7	47.7
		SSNM	10364	11972	95.5	90.3	241.7	51.0
PAC-740	60x20 cm	RDF	9147	10933	82.6	95.8	241.7	48.7
		STCR	7467	8987	80.4	79.5	232.3	45.3
		SSNM	10796	12657	81.5	109.1	353.0	49.0
	50x20 cm	RDF	10379	12550	94.7	104.9	252.0	49.3
		STCR	8605	10267	91.9	89.3	235.7	44.0
		SSNM	12246	14133	97.3	115.0	258.3	49.7
Mean of location			8966.8	10605.7	86.8	90.6	245.4	48.5
P-3441			8160	9624	85.6	82.3	228.7	49.4
PAC-740			9773	11588	88.1	98.9	262.2	47.7
CD at 5%			876.7	NS	NS	8.6	NS	1.5
CV (%)			6.8	15.4	2.0	6.6	24.2	2.1
60x20 cm			8353	9897	80.4	86.9	250.2	48.4
50x20 cm			9580	11315	93.2	94.3	240.6	48.7
CD at 5%			920	732	3.4	NS	NS	NS
CV (%)			11.1	7.5	4.3	11.1	19.3	4.2
RDF (120:60:40)			8800	10447	87.6	91.5	240.3	49.5
STCR (83:51:52)			7556	9079	83.9	79.6	222.7	46.1
SSNM (182:51:57)			10544	12291	89.0	100.8	273.3	50.0
CD at 5%			543.1	744.0	1.9	5.4	NS	1.4
CV (%)			7.0	8.1	2.5	6.9	20.5	3.4

Treatment details:

A. Main plot: Hybrids
H1: P-3441
H2: PAC-740

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (120:60:40)
N2: STCR (83:51:52)
N3: SSNM based on nutrient expert (182:51:57)

Cont…..

Hybrids	Density	Nutrient management	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Grain rows/cob	Grains/ row
P-3441	60x20 cm	RDF	53.0	32.0	67973	2.05	12.0	44.0
		STCR	51.0	28.0	61326	1.88	12.0	37.7
		SSNM	53.3	34.7	88832	2.61	14.0	45.0
	50x20 cm	RDF	54.0	31.0	84334	2.48	12.0	42.3
		STCR	52.0	27.3	70728	2.12	12.0	35.3
		SSNM	54.3	32.3	110367	3.18	14.0	42.3
PAC-740	60x20 cm	RDF	52.0	35.0	94863	2.86	14.0	45.0
		STCR	49.7	30.7	71865	2.20	13.3	42.0
		SSNM	52.0	38.0	117162	3.45	15.3	48.7
	50x20 cm	RDF	53.0	32.0	111361	3.28	14.0	42.3
		STCR	49.0	29.7	87056	2.61	12.0	40.0
		SSNM	53.0	36.0	136713	3.94	14.7	45.0
Mean of location			52.2	32.2	91881.7	2.72	13.3	42.5
P-3441			52.9	30.9	80593	2.39	12.7	41.1
PAC-740			51.4	33.6	103170	3.05	13.9	43.8
CD at 5%			1.5	1.9	12274.1	0.37	NS	NS
CV (%)			2.0	4.1	9.3	9.4	9.1	7.1
60x20 cm			51.8	33.1	83670	2.51	13.4	43.7
50x20 cm			52.6	31.4	100093	2.93	13.1	41.2
CD at 5%			NS	0.7	12880.3	0.38	NS	2.0
CV (%)			3.1	2.4	15.1	15.2	13.8	5.0
RDF			53.0	32.5	89633	2.67	13.0	43.4
STCR			50.4	28.9	72744	2.20	12.3	38.8
SSNM			53.2	35.3	113269	3.29	14.5	45.3
CD at 5%			1.3	0.8	7604.0	0.23	1.0	2.2
CV (%)			2.9	2.8	9.6	9.6	8.9	6.0

Table 63: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Chhindwara.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
DKC 7074	60x20 (cm)	60:30:20	5160	14012	77.9	77.0	153.7	49.0	53.0
		120:60:40	6123	15814	78.3	78.7	157.3	48.3	52.3
		140:34:71	6691	16583	80.8	78.7	163.7	47.7	51.7
	50x20 (cm)	60:30:20	4889	14545	96.5	92.7	152.0	49.7	54.0
		120:60:40	6289	16365	97.7	93.6	156.3	48.3	52.7
		140:34:71	6831	16828	98.3	96.2	161.3	48.0	52.3
DKC 8101	60x20 (cm)	60:30:20	6315	14589	78.8	77.8	155.3	50.3	55.3
		120:60:40	7058	16618	78.9	79.6	162.7	49.7	54.7
		140:34:71	7277	17143	80.8	80.5	164.3	49.7	53.7
	50x20 (cm)	60:30:20	6193	14773	97.2	96.2	153.3	51.0	56.7
		120:60:40	7373	16723	97.5	98.8	156.0	50.3	55.7
		140:34:71	7452	17248	98.6	98.8	164.7	49.3	55.0
Mean of location			6471.0	15936.9	88.4	87.4	158.4	49.3	53.9
DKC 7074			5997	15691	88.3	86.2	157.4	48.5	52.7
DKC 8101			6945	16182	88.6	88.6	159.4	50.1	55.2
CD at 5%			412.9	NS	NS	NS	NS	1.0	0.7
CV (%)			4.4	3.6	1.1	2.2	1.6	1.5	0.9
60x 20 cm			6437	15793	79.2	78.7	159.5	49.1	53.4
50x20 cm			6504	16080	97.6	96.1	157.3	49.4	54.4
CD at 5%			NS	NS	1.5	2.3	NS	NS	0.6
CV (%)			6.1	6.9	1.9	2.8	2.1	1.3	1.1
(60:30:20)			5639	14480	87.6	85.9	153.6	50.0	54.8
(120:60:40)			6711	16380	88.1	87.7	158.1	49.2	53.8
SSNM (140:34:71)			7063	16951	89.6	88.6	163.5	48.7	53.2
CD at 5%			456.3	563.0	1.1	2.0	3.1	0.8	0.8
CV (%)			8.1	4.1	1.4	2.6	2.3	1.8	1.8

Treatment details:

A. Main plot: Hybrids
H1: DKC 7074
H2: DKC 8101

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (60:30:20)
N2: STCR (120:60:40)
N3: SSNM based on nutrient expert (140:34:71)

Cont…..

Hybrids	Density	Nutrient management	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
DKC 7074	60x20 (cm)	60:30:20	35.7	55242	3.05	5.7	15.1	14.0	12.7	27.3
		120:60:40	37.3	65593	3.18	5.0	15.4	14.8	13.3	28.3
		140:34:71	37.8	72705	3.49	4.5	16.6	15.0	13.3	30.3
	50x20 (cm)	60:30:20	34.3	52457	2.86	6.0	14.2	13.3	12.7	25.0
		120:60:40	36.7	67855	3.26	4.3	15.4	14.6	13.3	27.7
		140:34:71	37.5	74359	3.54	4.0	16.3	15.0	13.3	29.0
DKC 8101	60x20 (cm)	60:30:20	36.8	69096	3.81	5.3	15.3	14.5	13.3	28.0
		120:60:40	38.0	77160	3.74	4.6	16.7	15.7	13.3	32.7
		140:34:71	40.8	80004	3.84	4.1	17.7	16.8	14.7	35.3
	50x20 (cm)	60:30:20	35.6	67672	3.69	5.7	15.3	14.4	13.3	26.3
		120:60:40	37.3	80686	3.87	4.0	15.9	14.9	13.3	28.3
		140:34:71	39.0	81920	3.90	4.2	16.8	16.7	14.0	34.7
Mean of location			37.2	70395.8	3.52	4.8	15.9	15.0	13.4	29.4
DKC 7074			36.6	64702	3.23	4.9	15.5	14.5	13.1	27.9
DKC 8101			37.9	76090	3.81	4.7	16.3	15.5	13.7	30.9
CD at 5%			NS	5149.3	0.29	NS	0.7	NS	NS	2.8
CV (%)			3.3	5.1	5.7	15.7	2.9	11.0	12.4	6.7
60x 20 cm			37.7	69967	3.52	4.9	16.1	15.1	13.4	30.3
50x20 cm			36.7	70825	3.52	4.7	15.7	14.8	13.3	28.5
CD at 5%			NS	NS	NS	NS	NS	NS	NS	NS
CV (%)			8.0	7.5	7.3	18.5	3.5	7.1	9.0	9.1
(60:30:20)			35.6	61117	3.36	5.7	15.0	14.1	13.0	26.7
(120:60:40)			37.3	72824	3.51	4.4	15.9	15.0	13.3	29.3
SSNM (140:34:71)			38.8	77247	3.69	4.2	16.9	15.9	13.8	32.3
CD at 5%			2.4	5122.8	0.25	1.1	NS	1.1	NS	3.1
CV (%)			7.6	8.4	8.3	25.4	11.5	8.5	7.9	12.1

Table 64: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season (Maize-chickpea Trial) in Godhra.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
GAYMH-1	60x25 cm	120:60:0	1741	2407	60.7	36.3	143.3
		75:20:50	1814	2481	52.2	38.9	146.3
		140:30:37	1481	2407	50.4	40.0	145.0
	60x20 cm	120:60:0	1777	2407	51.5	36.3	152.0
		75:20:50	2037	2593	60.7	46.7	148.0
		140:30:37	1518	2407	51.5	38.9	146.7
HQPM-1	60x25 cm	120:60:0	3814	4259	57.0	55.9	138.3
		75:20:50	3703	4073	64.8	58.5	147.7
		140:30:37	3259	3148	63.3	60.4	137.7
	60x20 cm	120:60:0	2740	2963	53.3	47.0	139.3
		75:20:50	3370	3333	64.8	55.6	138.3
		140:30:37	2815	3888	64.8	45.6	143.0
Mean of location			2505.8	3030.6	57.9	46.7	143.8
GAYMH-1			1728	2450	54.5	39.5	146.9
HQPM-1			3284	3611	61.4	53.8	140.7
CD at 5%			210.6	921.3	NS	NS	3.3
CV (%)			5.9	21.2	13.0	24.0	1.6
60x25 cm			2635	3129	58.1	48.3	143.1
60x20 cm			2376	2932	57.8	45.0	144.6
CD at 5%			227.3	NS	NS	NS	NS
CV (%)			9.8	8.3	11.4	15.9	1.8
100% RDF (120:60:00)			2518	3009	55.6	43.9	143.3
STCR (75:20:50)			2731	3120	60.6	49.9	145.1
SSNM (140:30:37)			2268	2963	57.5	46.2	143.1
CD at 5%			NS	NS	NS	NS	NS
CV (%)			19.4	25.0	15.6	19.2	4.3

Treatment details:

A. Main plot: Hybrids
H1: GAYMH-1
H2: HQPM-1

B. Sub plot: Density
D1: 60x20 cm
D2: 50x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (120:60:00)
N2: STCR (75:20:50)
N3: SSNM based on nutrient expert (140:30:37)

Cont…..

Hybrids	Density	Nutrient management	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
GAYMH-1	60x25 cm	120:60:0	51.3	58.0	20.7	13967	1.76
		75:20:50	51.7	58.0	18.7	16663	1.97
		140:30:37	52.0	58.3	15.7	12663	1.81
	60x20 cm	120:60:0	51.3	57.3	24.7	14692	1.81
		75:20:50	51.3	57.7	26.7	19868	2.16
		140:30:37	52.7	55.7	21.7	13218	1.84
HQPM-1	60x25 cm	120:60:0	54.3	58.0	26.7	49692	3.74
		75:20:50	55.0	59.3	26.7	48573	3.83
		140:30:37	56.7	61.3	26.7	41020	3.60
	60x20 cm	120:60:0	55.3	60.0	27.0	25896	2.42
		75:20:50	54.3	59.0	24.7	41728	3.43
		140:30:37	55.7	60.7	26.7	36190	3.30
Mean of location			53.5	58.6	23.9	27847.5	2.6
GAYMH-1			51.7	57.5	21.3	15179	1.9
HQPM-1			55.2	59.7	26.4	40517	3.4
CD at 5%			1.2	1.9	0.2		
CV (%)			1.6	2.2	0.7		
60x25 cm			53.5	58.8	22.5	30430	2.8
60x20 cm			53.4	58.4	25.2	25265	2.5
CD at 5%			NS	NS	0.3		
CV (%)			3.4	1.9	1.4		
100% RDF (120:60:00)			53.1	58.3	24.8	26062	2.4
STCR (75:20:50)			53.1	58.5	24.2	31708	2.8
SSNM (140:30:37)			54.3	59.0	22.7	25773	2.6
CD at 5%			NS	NS	0.5		
CV (%)			2.5	1.4	2.2		

Table 65: Effect of planting density and nutrient management practices on the performance of hybrids in kharif season in Udaipur.

Hybrids	Density	Nutrient management	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)
PQPM-1	50x20 cm	RDF	4055	6053	95.2	92.5	229.5
		SSNM	4548	6813	94.8	92.2	233.4
		STCR	5135	7680	94.3	91.7	240.8
		G. Seeker	3828	5708	94.7	92.0	227.9
	60x20 cm	RDF	3723	5738	78.0	75.3	221.4
		SSNM	4115	6366	78.2	75.2	224.4
		STCR	4638	7175	78.3	75.3	232.0
		G. Seeker	3525	5409	78.0	75.3	218.1
HQPM-1	50x20 cm	RDF	4628	6902	95.7	93.0	233.1
		SSNM	5120	7636	95.3	92.5	234.5
		STCR	5628	8415	95.2	92.3	243.0
		G. Seeker	4423	6568	95.0	92.2	229.4
	60x20 cm	RDF	4030	6223	78.2	75.2	224.3
		SSNM	4625	7098	77.3	74.5	230.1
		STCR	5133	7896	78.3	75.5	236.8
		G. Seeker	3830	5937	78.0	75.2	223.5
Mean of location			4436.3	6726.1	86.5	83.7	230.1
PQPM-1			4195.6	6367.8	86.4	83.7	228.4
HQPM-1			4676.9	7084.3	86.6	83.8	231.8
CD at 5%			262.6	542.5	NS	NS	NS
CV (%)			7.4	10.1	6.0	6.0	6.7
50x20 cm			4670.3	6971.9	95.0	92.3	234.0
60x20 cm			4202.2	6480.2	78.0	75.2	226.3
CD at 5%			198.8	368.7	2.3	2.4	5.7
CV (%)			7.3	9.0	4.4	4.7	4.1
RDF (90:40:00)			4108.8	6229.0	86.8	84.0	227.1
SSNM (110:37:00)			4601.9	6978.3	86.4	83.6	230.6
STCR (157.8:87.11:81.7)			5133.1	7791.6	86.5	83.7	238.2
Green Seeker (80:40:00)			3901.3	5905.3	86.4	83.7	224.7
CD at 5%			162.7	210.7	NS	NS	4.5
CV (%)			5.1	4.4	2.5	2.6	2.7

Treatment details:

A. Main plot: Hybrids
H1: PQPM-1
H2: HQPM-1

B. Sub plot: Density
D1: 50x20 cm
D2: 60x20 cm

C. Sub-sub plot : Nutrient management (N:P2O5:K2O)
N1: 100% RDF (90:40:00)
N2: SSNM based on nutrient expert (110:37:00)
N3: STCR (157.8:87.11:81.7)
N4: Green Seeker (80:40:00)

Cont…..

Hybrids	Density	Nutrient management	Shelling (%)	Days to 50% tasseling	Days to 50% silking	Net returns (Rs/ha)	B:C ratio
PQPM-1	50x20 cm	RDF	72.5	48.8	52.8	33464	1.49
		SSNM	76.3	49.8	54.0	40140	1.78
		STCR	80.4	49.0	53.3	45472	1.79
		G. Seeker	71.2	50.8	55.3	30374	1.36
	60x20 cm	RDF	78.3	49.0	53.5	29296	1.32
		SSNM	80.8	49.5	53.5	34614	1.54
		STCR	79.9	49.8	53.8	39096	1.55
		G. Seeker	77.1	50.8	54.8	26584	1.20
HQPM-1	50x20 cm	RDF	73.4	47.3	50.8	41352	1.84
		SSNM	76.6	46.3	50.0	47997	2.12
		STCR	81.7	44.5	48.5	52264	2.06
		G. Seeker	71.9	48.0	52.5	38546	1.72
	60x20 cm	RDF	77.3	48.0	52.0	33568	1.51
		SSNM	82.0	46.5	51.0	41611	1.86
		STCR	86.1	46.3	51.0	45902	1.82
		G. Seeker	76.3	45.3	50.0	30878	1.39
Mean of location			77.6	48.1	52.3	38197.3	1.65
PQPM-1			77.1	49.7	53.8	34879.9	1.50
HQPM-1			78.2	46.5	50.7	41514.7	1.79
CD at 5%			NS	3.1	2.2	3548.9	0.2
CV (%)			6.8	8.1	5.2	11.7	11.9
50x20 cm			75.5	48.0	52.1	41201.0	1.77
60x20 cm			79.7	48.1	52.4	35193.5	1.52
CD at 5%			3.3	NS	NS	2801.9	0.1
CV (%)			7.0	4.6	4.5	12.0	11.2
RDF (90:40:00)			75.4	48.3	52.3	34419.8	1.54
SSNM (110:37:00)			78.9	48.0	52.1	41090.4	1.83
STCR (157.8:87.11:81.7)			82.0	47.4	51.6	45683.4	1.81
Green Seeker (80:40:00)			74.1	48.7	53.1	31595.4	1.42
CD at 5%			1.9	NS	NS	2101.0	0.1
CV (%)			3.4	4.3	4.3	7.7	8.0

Table 66: Effect of plant density and Nutrient management practices on performance of hybrids in Kharif season Rice – Maize cropping system in Dholi.

Hybrids	Density	Nutrient management	Grain yield (kg/ha) Rice	Stalk weight (kg/ha) Rice	Days of flowering Rice	Days of maturity Rice	Plant height (cm)	Ear height (cm)	Moisture (%) Rice
H_1	60x20 cm	RDF	3000	3444	98	139	63	27	17.6
		STCR	3222	2422	97	139	58	28	18
		SSNM	3311	3111	98	139	59	28	18.5
	50x20 cm	RDF	3756	2444	98	139	61	27	19
		STCR	3200	3333	98	139	60	26	17.6
		SSNM	3178	2778	98	138	60	28	18
H_2	60x20 cm	RDF	3156	3244	98	138	59	28	17.8
		STCR	3578	3556	97	138	59	27	18.2
		SSNM	3222	2156	98	139	59	27	17.2
	50x20 cm	RDF	3378	1778	98	140	59	26	18.5
		STCR	3289	3111	97	139	60	27	19.2
		SSNM	3222	2800	97	138	59	27	18
H_3	60x20 cm	RDF	3422	3778	97	137	58	28	17.2
		STCR	3644	2444	98	138	58	27	17.7
		SSNM	3156	2333	98	139	58	26	16.9
	50x20 cm	RDF	3489	1778	99	140	59	27	19.2
		STCR	3622	1800	98	140	58	27	18.1
		SSNM	3311	2889	97	138	60	27	19
Mean of location			3342.0	2733.3	97.8	138.5	59.2	27.1	18.1
H_1			3278	2922	97.7	138.6	60.2	27.4	18.1
H_2			3307	2774	97.7	138.4	59.1	27.0	18.2
H_3			3441	2504	97.9	138.7	58.4	26.9	18.0
CD at 5%			NS	NS	NS	NS	1.0	NS	
CV (%)			13.5	66.1	2.0	1.1	1.7	2.4	
60x20 cm			3301	2943	97.7	138.3	59.0	27.3	17.7
50x20 cm			3383	2523	97.8	138.8	59.4	26.8	18.5
CD at 5%			NS	NS	NS	NS	NS	NS	
CV (%)			12.0	34.2	0.9	1.0	6.0	2.9	
RDF			3367	2744	98.0	138.6	59.8	27.2	18.2
STCR			3426	2778	97.5	138.7	58.8	26.9	18.1
SSNM			3233	2678	97.8	138.3	59.1	27.2	17.9
CD at 5%			NS	NS	NS	NS	NS	NS	
CV (%)			14.0	28.0	1.1	0.6	3.7	3.1	

Table 67: Long term trial on integrated nutrient management in maize- wheat cropping system in Pantnagar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	3262	4683	75.6	75.0	147.2	58.3	62.3	20.6
T_2	5315	7537	80.0	82.1	175.0	56.7	60.7	25.7
T_3	4828	6847	79.2	82.0	173.8	57.3	61.0	23.7
T_4	4382	5934	81.8	79.2	167.2	57.3	61.3	21.7
T_5	3932	5857	80.6	81.2	152.2	58.3	62.7	23.8
T_6	4174	6101	80.5	81.6	164.4	57.7	62.0	21.9
T_7	5648	7778	81.5	83.7	180.6	55.0	58.3	30.4
T_8	4990	6842	79.2	79.6	168.5	57.3	61.3	24.6
T_9	5416	7689	79.4	83.5	176.7	55.3	59.3	28.8
T_{10}	3802	5502	79.6	79.0	150.5	57.0	61.7	21.5
Mean	4574.8	6477.1	79.8	80.7	165.6	57.0	61.1	24.25
CD	167.5	248.7	3.0	2.9	5.9	2.5	3.1	1.41
CV (%)	2.1	2.2	2.2	2.1	2.1	2.6	3.0	3.39
Significance	S	S	S	S	S	NS	NS	S

Treatment	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Total nutrient uptake (kg/ha)		
							N	P	K
T_1	24467	1.30	12.9	12.5	11.3	24.8	267.4	25.3	71.7
T_2	45241	1.80	15.7	14.2	14.0	36.8	239.3	21.6	55.5
T_3	40396	1.71	15.5	13.9	13.6	34.8	196.1	18.7	47.1
T_4	36095	1.64	14.3	13.7	13.2	32.5	153.2	16.5	37.5
T_5	25845	0.98	13.6	13.0	12.4	28.9	187.8	19.0	51.4
T_6	70214	2.53	13.7	13.2	12.7	30.3	289.1	26.9	75.4
T_7	45899	1.69	15.7	14.3	15.0	39.0	278.3	22.9	57.5
T_8	42275	1.77	14.5	13.9	13.7	34.6	244.8	21.6	54.1
T_9	45833	1.77	15.8	14.3	14.4	37.4	267.1	25.8	62.4
T_{10}	27872	1.24	13.5	12.6	12.3	27.4	139.5	15.7	37.2
Mean	40413.6	1.63	14.5	13.6	13.3	32.7	226.3	21.4	55.0
CD	2153.4	0.09	0.5	0.4	0.3	0.8	8.3	1.2	5.0
CV (%)	3.1	3.1	2.0	1.7	1.1	1.5	2.1	3.2	5.3
Significance	S	S	S	S	S	S	S	S	S

Cont…..

Treatment	No. of narrow leaves weeds/m^2	No. of broad leaves/m^2	No. of sedges/m^2	Weight narrow leaves (g)/m^2	Weight broad leaves (g)/m^2	Weight sedges (g)/m^2
T_1	44.0	2.0	44.0	163.4	24.9	13.1
T_2	35.3	0.0	21.3	133.5	0.0	5.9
T_3	17.3	0.7	20.3	65.4	1.4	5.7
T_4	22.3	1.7	36.0	82.9	17.3	10.0
T_5	18.0	0.7	46.3	69.8	2.0	13.0
T_6	23.7	1.0	3.0	87.9	15.1	1.2
T_7	26.3	1.0	13.3	98.5	9.7	3.9
T_8	23.0	0.0	20.0	86.4	0.0	5.7
T_9	27.7	0.0	10.0	103.5	0.0	2.8
T_{10}	22.7	0.7	16.0	87.4	6.1	4.3
Mean	26.0	0.8	23.0	97.9	7.6	6.6
CD	6.4	1.8	6.4	23.5	22.8	2.0
CV (%)	14.3	136.8	16.2	14.0	174.0	17.8
Significance	S	NS	S	S	NS	S

Treatment details:

T_1 Control (Unmanured)

T_2 100% RDF

T_3 75% RDF

T_4 50% RDF

T_5 FYM 10t/ha + Azatobactor

T_6 Maize + Cowpea with FYM 10 t.ha +Azatobactor

T_7 100% RDF + 5 t/ha FYM

T_8 50% RDF + 5 t/ha FYM

T_9 100% RDF + 5 kg Zn/ha

T_{10} FYM 5 t/ha (state practice)

Table 68: Weed management in maize systems in Bajaura.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	4304	5801	78.8	63.5	161.0	70.0	72.0	27.3
T_2	7542	9978	80.8	73.7	162.9	67.7	69.7	29.3
T_3	5749	7831	81.3	71.0	170.0	69.3	71.3	28.7
T_4	6691	8991	81.5	71.3	180.6	67.7	69.7	26.0
T_5	5758	7835	77.9	64.8	167.5	67.7	69.7	24.0
T_6	4973	6962	75.7	58.6	155.2	70.0	72.0	27.3
T_7	5192	6976	77.0	66.6	164.1	69.7	71.7	27.3
T_8	5648	7478	79.5	63.8	160.4	68.7	70.7	26.0
T_9	7347	9860	76.4	70.2	182.6	67.7	69.7	27.3
T_{10}	6980	9209	77.3	68.6	161.7	67.7	69.7	24.7
Mean	6018.4	8092.2	78.6	67.2	166.6	68.6	70.6	26.8
CD	1097.7	1336.0	4.1	6.0	18.3	1.4	1.4	3.5
CV (%)	10.6	9.6	3.0	5.2	6.4	1.2	1.2	7.6
Significance	S	S	NS	S	NS	S	S	NS

Treatments	Net returns (Rs. /ha)	B:C ratio	Barrenness in maize (%)	Grassy weeds m^2 at 50 DAS	Grassy, weeds m^2 at harvest	Broad leaves weeds m^2 at 50 DAS	Broad leaves weeds m^2 at harvest	Sedges m^2, if any at harvest
T_1	26701	1.90	19.4	196.7	134.0	7.33	1.67	4.67
T_2	60901	2.62	8.8	18.3	5.3	1.00	0.67	0.33
T_3	43665	2.38	12.5	135.3	102.0	1.33	0.33	0.33
T_4	55718	2.75	12.6	72.3	44.0	16.33	4.67	2.67
T_5	44117	2.41	16.9	73.0	51.3	0.00	0.33	1.00
T_6	31782	1.95	22.6	158.7	126.0	0.00	0.33	0.00
T_7	32409	1.91	13.5	170.0	123.7	0.67	0.00	0.67
T_8	39375	2.15	20.1	145.0	108.7	7.00	3.00	5.33
T_9	62968	2.90	11.6	36.7	21.7	0.00	0.00	1.67
T_{10}	54745	2.50	14.9	85.7	28.0	6.33	2.67	2.33
Mean	45238.0	2.35	15.3	109.2	74.5	4.00	1.37	1.90
CD	14135.5	0.43	6.4	73.0	27.6	9.20	2.28	3.82
CV (%)	18.2	10.6	24.5	39.0	21.6	134.1	97.3	117.1
Significance	S	S	S	S	S	S	S	NS

Cont…..

Treatments	Grassy weeds g/m^2 at 50 DAS	Grassy weeds g/m^2 at harvest	Broad leaves weeds g/m^2 at 50 DAS	Broad leaves weeds g/m^2 at harvest	Sedges g/m^2 at harvest
T_1	171.0	114.67	11.33	2.17	3.83
T_2	4.7	1.50	0.67	0.40	0.20
T_3	121.7	111.67	1.50	0.17	0.17
T_4	69.0	49.33	30.67	9.00	1.83
T_5	105.3	64.67	0.00	0.17	0.83
T_6	147.3	125.33	0.00	0.17	0.00
T_7	151.3	127.33	0.50	0.00	0.83
T_8	73.5	52.67	5.33	2.73	3.67
T_9	49.3	28.33	0.00	0.00	1.20
T_{10}	65.3	31.67	10.00	4.00	1.67
Mean	95.9	70.72	6.00	1.88	1.42
CD	32.9	24.87	24.35	5.71	2.87
CV (%)	20.0	20.5	236.6	177.1	117.5
Significance	S	S	NS	NS	NS

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 69: Weed management in maize systems in Srinagar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	3608	8901	82.3	65.1	153.3	82.3	86.7
T_2	6949	15075	82.4	99.7	217.7	90.7	94.0
T_3	5371	12637	82.4	88.3	219.3	86.3	90.3
T_4	5915	13494	82.2	95.0	235.0	90.0	94.3
T_5	5959	14079	82.5	96.7	232.3	89.3	94.0
T_6	5414	12633	82.4	90.7	235.7	90.3	95.0
T_7	6336	14106	82.5	98.5	242.3	91.7	96.7
T_8	4928	12367	82.3	87.2	213.3	87.3	93.3
T_9	5551	12800	82.5	94.9	219.7	86.0	92.3
T_{10}	6127	13876	82.2	97.1	227.3	91.3	95.3
Mean	5615.7	12996.8	82.4	91.3	219.6	88.5	93.2
CD	328.3	571.9	0.6	2.0	10.4	4.3	4.2
CV (%)	3.4	2.6	0.4	1.3	2.8	2.8	2.6
Significance	S	S	NS	S	S	S	S

Treatment	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Barrenness in maize (%)	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS
T_1	20.5	57737	0.63	32.1	89.3	74.0	93.7
T_2	25.1	114411	2.40	10.4	5.0	3.3	5.3
T_3	24.6	117739	2.53	11.5	25.3	18.7	25.7
T_4	25.0	134748	2.77	11.5	17.7	10.7	14.3
T_5	24.7	139263	2.98	12.8	14.3	10.3	11.3
T_6	25.0	123874	2.61	11.7	24.3	17.3	22.3
T_7	25.1	144477	2.86	12.3	11.7	8.0	7.0
T_8	25.2	117739	2.53	12.7	31.0	21.3	25.7
T_9	24.7	130678	2.89	12.0	21.3	13.3	16.3
T_{10}	25.2	139840	2.96	12.4	12.3	10.3	8.0
Mean	24.5	122050.7	2.52	13.9	25.2	18.7	23.0
CD	1.3	4099.8	0.23	2.1	4.7	3.6	3.4
CV (%)	3.1	2.0	5.3	9.0	10.9	11.3	8.7
Significance	S	S	S	S	S	S	S

Cont…..

Treatment	Broad leaves weeds m2 at harvest	Sedges, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	86.3	1.3	35.5	24.0	48.0	19.4	0.3
T_2	3.3	0.3	2.5	2.2	2.0	0.8	0.0
T_3	16.3	1.3	14.1	11.1	11.4	4.6	1.0
T_4	8.7	2.0	4.8	3.8	5.8	2.4	0.7
T_5	5.7	0.7	7.3	4.4	4.0	1.6	0.7
T_6	11.7	1.3	14.3	7.6	8.3	3.5	0.7
T_7	3.3	1.0	5.0	3.0	2.7	0.9	0.3
T_8	18.0	1.3	14.1	11.8	12.3	5.0	1.0
T_9	9.0	1.7	8.3	6.1	7.3	2.5	0.3
T_{10}	5.0	1.0	5.8	3.3	3.6	1.4	0.7
Mean	16.7	1.2	11.2	7.7	10.5	4.2	0.6
CD	3.6	1.3	2.5	1.7	1.8	0.7	0.8
CV (%)	12.6	63.5	12.9	12.6	9.8	9.3	87.2
Significance	S	NS	S	S	S	S	NS

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 70: Weed management in maize systems in Karnal.

Treatments	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	Net returns (Rs. /ha)	B:C ratio
T_1	3916	4835	69.5	133.3	57.3	60.3	88.7	29420	1.97
T_2	8555	10433	68.9	173.3	55.3	57.3	88.3	80641	2.61
T_3	4744	5857	68.9	155.0	56.7	60.3	90.3	39941	2.18
T_4	4931	6088	68.4	155.0	53.7	55.7	88.0	42011	2.22
T_5	5099	6295	69.2	145.0	57.0	59.3	88.0	45422	2.35
T_6	6115	7550	68.6	160.0	54.0	55.7	88.0	58463	2.53
T_7	7749	9567	68.3	160.0	53.7	56.0	87.3	81709	3.07
T_8	4668	5763	67.8	143.3	57.0	60.0	86.7	35526	2.00
T_9	5465	6747	68.5	151.7	55.7	58.7	88.7	51066	2.51
T_{10}	4924	6079	68.3	150.0	56.3	59.7	87.7	38308	2.05
Mean	5616.6	6921.2	68.6	152.7	55.7	58.3	88.2	50250.8	2.35
CD	462.4	569.6	2.9	11.5	1.3	1.5	2.7	6866.2	0.18
CV (%)	4.8	4.8	2.4	4.4	1.4	1.5	1.8	8.0	4.6
Significance	S	S	NS	S	S	S	NS	S	S

Treatments	Grassy weeds m2 at 50 DAS	Broad leaves weeds m2 at 50 DAS	Sedges m2 at 50 DAS	Grassy weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at 50 DAS	Sedges g/m2 at harvest
T_1	57.3	17.3	545.3	166.3	15.6	163.6
T_2	0.0	0.0	0.0	0.0	0.0	0.0
T_3	24.0	9.3	460.0	69.6	8.4	138.0
T_4	28.0	9.3	478.7	81.2	8.4	143.6
T_5	32.0	0.0	481.3	92.8	0.0	96.3
T_6	58.7	10.7	10.7	170.1	9.6	3.2
T_7	28.0	8.0	10.7	81.2	7.2	3.2
T_8	52.0	10.7	477.3	150.8	9.6	143.2
T_9	32.0	0.0	488.0	92.8	0.0	146.4
T_{10}	20.7	9.3	472.0	59.9	8.4	141.6
Mean	33.3	7.5	342.4	96.5	6.7	97.9
CD	6.6	3.7	49.0	19.3	3.3	14.2
CV (%)	11.6	28.6	8.3	11.6	28.6	8.5
Significance	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 71: Weed management in maize systems in Ludhiana.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Net returns (Rs/ha)	BC ratio
T_1	4262	6734	73.8	70.8	63.7	66.3	173.3	26281	0.67
T_2	6458	12593	81.9	81.5	61.7	63.0	208.0	59358	1.40
T_3	4669	8310	78.2	77.5	62.0	63.7	194.7	32953	0.83
T_4	5801	10896	79.9	79.2	62.7	64.7	200.0	51165	1.28
T_5	5007	9264	78.7	78.2	62.7	64.3	193.7	38608	0.97
T_6	4704	8185	75.0	74.5	63.0	65.3	181.0	30858	0.73
T_7	5424	10141	78.7	77.8	63.3	65.7	180.0	42247	0.99
T_8	4898	8743	78.2	77.8	61.7	63.7	195.3	33001	0.76
T_9	6269	12287	81.0	80.6	62.0	63.3	201.3	58591	1.46
T_{10}	6002	11736	81.3	81.0	61.7	63.0	201.0	50703	1.16
Mean	5349.3	9888.9	78.7	77.9	62.4	64.3	192.8	42376.6	1.02
CD	549.1	1077.0	3.8	4.2	2.2	1.8	12.2	8647.0	0.21
CV (%)	6.0	6.3	2.8	3.2	2.1	1.7	3.7	11.9	11.93
Significance	S	S	S	S	NS	S	S	S	S

Treatments	No. of weeds /m2 at 50 DAS			Dry weight of weeds g/m2 at 50 DAS		
	Grasses weed	Broadleaf	Sedges	Grasses weed	Broadleaf	Sedges
T_1	60.3	30.7	50.7	18.2	17.3	16.1
T_2	0.0	0.0	0.0	0.0	0.0	0.0
T_3	20.7	17.3	26.3	7.7	14.7	8.6
T_4	18.7	13.0	23.7	6.0	12.8	8.3
T_5	19.7	12.0	10.3	5.2	11.7	6.0
T_6	11.3	8.3	12.3	2.7	7.4	5.4
T_7	9.0	7.3	9.7	2.3	6.9	5.2
T_8	20.0	8.0	11.3	3.9	7.5	7.1
T_9	10.7	7.3	15.0	4.0	7.1	9.2
T_{10}	12.3	6.0	9.7	3.1	5.7	5.6
Mean	18.3	11.0	16.9	5.3	9.1	7.2
CD	6.9	5.9	4.6	2.3	3.6	2.5
CV (%)	22.0	31.0	16.0	25.0	22.9	20.4
Significance	S	S	S	S	S	S

Cont…..

Treatments	No. of weeds /m2 at harvest			Dry weight of weeds g /m2 at harvest		
	Grasses weed	Broadleaf	Sedges	Grasses weed	Broadleaf	Sedges
T_1	62.3	28.7	40.7	20.8	18.5	19.4
T_2	0.0	0.0	0.0	0.0	0.0	0.0
T_3	22.3	16.0	23.0	8.9	15.8	11.3
T_4	20.3	11.7	20.0	7.0	14.0	10.4
T_5	21.3	10.3	8.7	6.5	13.0	8.0
T_6	13.0	7.0	9.0	3.8	8.3	7.1
T_7	10.7	5.7	8.0	3.5	8.0	6.6
T_8	20.7	7.0	9.3	4.3	8.4	8.6
T_9	11.3	6.7	13.3	4.9	8.3	11.0
T_{10}	14.7	5.0	8.3	4.2	6.8	7.0
Mean	19.7	9.8	14.0	6.4	10.1	8.9
CD	6.6	4.0	4.7	2.7	3.4	2.8
CV (%)	19.5	23.9	19.5	24.3	19.4	18.3
Significance	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5 kg/ha pre-emergence

T_4 Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emergence

T_5 Atrazine (750 g/ha) + 2,4-D Amine (75%) at 25 DAS as PoE

T_6 Halosulfuron 60 g/ha at 25 DAS

T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS

T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750 g/ha) + 2,4-D Amine (75%) at 25 DAS as PoE

T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotryn (Laudis) 120 g/ha PoE at 25 DAS

Table 72: Weed management in maize systems in Pantnagar.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	3963	4829	45.3	46.6	142.6	43.3	46.7	19.1
T_2	6694	10812	63.7	63.7	183.8	41.7	45.7	22.7
T_3	5323	7778	60.3	60.3	176.2	42.0	46.0	20.8
T_4	5425	8590	60.3	60.3	178.3	42.3	45.7	20.2
T_5	6082	9188	60.7	60.7	181.8	42.3	46.0	22.3
T_6	5169	7350	62.4	62.4	164.3	42.3	45.7	20.1
T_7	5589	8162	62.4	62.0	181.3	43.0	46.3	20.9
T_8	5307	7991	63.7	63.7	171.1	43.0	46.3	20.4
T_9	6190	9530	63.7	63.7	176.7	42.0	45.7	22.2
T_{10}	6546	10684	62.0	62.8	181.5	41.7	45.3	22.4
Mean	5628.9	8491.5	60.4	60.6	173.8	42.4	45.9	21.1
CD	883.2	1481.6	5.1	6.3	11.4	1.3	1.1	1.6
CV (%)	9.1	10.2	4.9	6.0	3.8	1.7	1.3	4.4
Significance	S	S	S	S	S	NS	NS	S

Treatments	Net returns (Rs. /ha)	B:C ratio	Cob length (cm)	Cob girth (cm)	No. of sedges/m2 at 50 DAS	Dry weight of sedges g/m2 at 50 DAS	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest
T_1	31022	1.44	11.6	10.3	6.7	2.4	62.7	84.0
T_2	53280	1.50	14.7	11.9	0.0	0.0	0.0	0.0
T_3	47375	2.05	13.3	11.5	0.0	0.0	57.3	70.7
T_4	48552	2.08	13.4	11.6	0.0	0.0	20.0	50.7
T_5	57326	2.46	14.0	11.8	0.0	0.0	36.0	54.7
T_6	43443	1.73	12.4	11.2	1.3	0.1	41.3	74.7
T_7	47347	1.77	13.7	11.4	0.0	0.0	40.0	65.3
T_8	44360	1.71	13.7	11.4	6.7	1.5	18.7	45.3
T_9	57728	2.38	14.1	11.9	1.3	0.3	34.7	56.0
T_{10}	59111	2.14	14.2	11.9	20.0	3.9	2.7	34.7
Mean	48954.4	1.93	13.5	11.5	3.6	0.8	31.3	53.6
CD	11702.6	0.46	0.9	0.8	11.0	2.8	15.6	37.5
CV (%)	13.9	13.92	3.8	4.3	178.5	203.9	29.1	40.8
Significance	S	S	S	S	S	NS	S	S

Cont…..

Treatments	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedges, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	0.0	2.7	0.0	327.2	437.7	2.4	1.5	0.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	0.0	2.7	2.7	220.3	236.1	0.0	0.8	0.7
T_4	2.7	2.7	0.0	191.2	219.3	0.8	0.5	0.0
T_5	0.0	0.0	0.0	189.2	297.9	0.0	0.0	0.0
T_6	0.0	0.0	0.0	303.7	387.6	0.0	0.0	0.0
T_7	0.0	0.0	0.0	185.2	214.4	0.0	0.0	0.0
T_8	9.3	5.3	38.7	66.5	93.5	2.7	24.5	8.1
T_9	2.7	0.0	0.0	105.5	169.6	0.7	0.0	0.0
T_{10}	5.3	10.7	80.0	8.8	41.6	1.5	12.9	20.4
Mean	2.0	2.4	12.1	159.8	209.8	0.8	4.0	2.9
CD	4.6	5.4	20.0	71.3	162.2	2.7	10.5	4.3
CV (%)	133.9	131.1	96.1	26.0	45.1	199.8	152.1	86.1

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 73: Weed management in maize systems in Ambikapur.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
T_1	3121	4806	80.7	77.3	157.0	51.3	53.3	29.6
T_2	6205	9886	81.8	86.0	215.3	50.7	53.7	36.3
T_3	4831	7682	82.2	82.2	185.5	51.3	53.0	32.3
T_4	5515	8344	81.8	82.7	199.5	51.0	53.0	34.0
T_5	5490	8729	81.1	82.2	195.6	51.7	53.0	33.6
T_6	4459	7089	81.1	78.9	180.5	51.0	52.7	31.3
T_7	5329	8177	81.6	80.2	189.1	51.0	52.0	32.6
T_8	4327	6880	82.0	78.4	174.7	50.3	53.0	30.7
T_9	6001	9542	81.6	84.2	206.7	51.0	53.0	35.7
T_{10}	5705	8788	81.8	83.8	200.5	50.7	53.7	35.0
Mean	5098.3	7992.4	81.6	81.6	190.4	51.0	53.0	33.1
CD	499.3	809.3	2.4	1.7	14.2	1.2	1.1	2.1
CV (%)	5.7	5.9	1.7	1.2	4.3	1.4	1.2	3.8
Significance	S	S	NS	S	S	NS	NS	S

Treatments	Net returns (Rs. /ha)	B:C ratio	Barrenness in maize (%)	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedges, if any at harvest
T_1	17639	0.68	6.1	84.0	65.3	74.0	57.3	37.3
T_2	47595	1.25	1.1	0.0	0.0	0.0	0.0	0.0
T_3	40401	1.51	4.3	22.7	18.7	20.0	16.0	21.3
T_4	49197	1.82	3.3	10.7	8.7	10.7	8.7	16.7
T_5	49479	1.85	3.6	20.0	17.3	14.7	11.3	17.3
T_6	31899	1.06	4.6	24.7	20.7	26.7	22.0	22.7
T_7	43044	1.39	3.8	21.3	18.3	18.7	14.7	18.7
T_8	30300	1.01	4.9	28.7	23.3	37.3	29.3	23.3
T_9	55635	2.04	2.4	6.7	6.7	5.3	5.3	6.7
T_{10}	48156	1.56	2.7	9.3	7.3	6.7	6.7	14.0
Mean	41334.5	1.42	3.7	22.8	18.6	21.4	17.1	17.8
CD	6919.3	0.24	1.5	10.3	8.0	11.6	9.1	6.9
CV (%)	9.8	9.8	24.3	26.2	25.0	31.5	30.9	22.6
Significance	S	S	S	S	S	S	S	S

Cont…..

Treatments	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest
T_1	16.8	23.5	42.0	58.8
T_2	0.0	0.0	0.0	0.0
T_3	5.9	8.3	14.8	20.7
T_4	3.2	4.5	8.0	11.2
T_5	5.2	7.2	12.9	18.1
T_6	6.3	8.9	15.9	22.2
T_7	5.7	7.9	14.1	19.8
T_8	7.3	10.2	18.1	25.2
T_9	2.1	2.9	5.2	7.3
T_{10}	2.9	4.1	7.3	10.3
Mean	5.5	7.8	13.8	19.4
CD	2.1	2.9	5.2	7.3
CV (%)	22.1	22.1	22.1	22.1
Significance	S	S	S	S

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 74: Weed management in maize system in Bahraich.

Treatments	Grain yield kg/ha	Cobs yield kg/ha	Stover yield kg/ha	Plants ('000/ha)	Cobs ('000/ha)	System productivity as maize equivalent	Net return (Rs./ ha)	B:C ratio
T_1	2009	2825	3007	82.4	82.1	2159	8741	1.39
T_2	4679	6498	5690	82.4	82.1	4950	46858	2.89
T_3	4493	6240	5430	82.5	82.1	4880	43927	2.85
T_4	4564	6340	5525	82.3	82.0	4892	44892	2.86
T_5	4600	6390	5598	82.5	82.1	5000	45186	2.88
T_6	4604	6395	5647	82.5	82.2	5007	43631	2.68
T_7	4930	6848	5954	82.6	82.2	5355	49506	2.88
T_8	4489	6235	5372	82.5	82.1	4872	42380	2.70
T_9	4558	6330	5477	82.5	82.1	4949	44184	2.73
T_{10}	4649	6458	5577	82.5	82.1	5048	45527	2.75
Mean	4357.4	6056.0	5327.6	82.5	82.1	4711.2	41483.4	2.66
CD	418.5	579.4	417.1	0.2	0.1	470.2	6003.1	0.24
CV (%)	5.6	5.6	4.6	0.1	0.1	5.8	8.4	5.2
Significance	S	S	S	NS	NS	S	S	S

Treatment details:

T_1 Control

T_2 Weed free

T_3 Atrazine 1.5 kg/ha pre emergence

T_4 Atrazine 750 gm/ha + pendamathline 750 ml/ha pre emergence

T_5 Atrazine 750 gm/ha + 24 D 500 ml/ha at 25 DAS

T_6 Halosulfuron 60 gm /ha at 25 DAS

T_7 Atrazine 1.5 kg /ha followed by Halosulfuron 60 gm /ha at 25 DAS

T_8 Temboturon 120 gm /ha at 25 DAS

T_9 pendamathline 1000 ml/ha followed by Atrazine 750 gm + 24 D 500 gm/ ha at 25 DAS

T_{10} Atrazine 1.5 kg/ ha followed by Temboturon 120 gm/ ha at 25 DAS

Table 75: Weed management in maize systems in Bhubaneswar.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity	100 grain weight (g)
T_1	4986	13644	6156	64.0	148.3	59.7	106.7	30.1
T_2	6390	20978	7889	76.9	180.5	58.0	104.7	30.5
T_3	7686	23244	9489	81.7	177.3	56.0	106.0	31.9
T_4	7146	21978	8822	77.8	181.3	56.0	106.0	31.3
T_5	7056	22356	8844	80.6	176.7	57.0	108.0	31.2
T_6	5868	19689	7244	78.1	177.3	58.0	108.3	31.9
T_7	7164	22667	8711	79.7	179.3	56.3	103.0	31.3
T_8	6822	21933	8422	80.8	175.7	58.0	104.0	30.2
T_9	7254	21911	8955	78.1	175.3	55.7	106.7	31.3
T_{10}	7776	23844	9600	80.0	177.3	56.0	104.3	32.0
Mean	6814.8	21224.4	8413.3	77.8	174.9	57.1	105.8	31.2
CD	651.6	1046.2	804.3	3.1	6.6	1.5	7.2	1.2
CV (%)	5.6	2.9	5.6	2.4	2.2	1.5	4.0	2.2
Significance	S	S	S	S	S	S	NS	S

Treatment	No. of broadleaf weeds /m2 at 50 DAS	No. of grassy weeds /m2 at 50 DAS	No. of sedges/m2 at 50 DAS	Weed dry matter (kg /m2) of broadleaf weeds at harvest	Weed dry matter (kg /m2) of grassy weeds at harvest	Weed dry matter(kg/m2) of sedges at harvest
T_1	8.2	8.4	8.5	289.0	303.3	326.7
T_2	0.4	0.4	0.4	0.0	0.0	0.0
T_3	1.9	2.1	2.1	95.0	106.7	99.0
T_4	2.7	3.0	3.0	137.3	148.7	139.7
T_5	3.5	3.7	4.0	133.3	144.3	135.3
T_6	4.8	4.9	5.3	152.7	165.0	155.3
T_7	2.0	2.2	2.4	143.3	154.3	145.3
T_8	4.2	4.5	4.6	145.7	156.7	147.7
T_9	3.9	4.1	4.4	134.0	145.0	136.0
T_{10}	1.7	1.9	2.1	85.0	97.3	88.3
Mean	3.3	3.5	3.7	131.5	142.1	137.3
CD	0.9	0.9	1.0	14.7	17.3	43.8
CV (%)	15.9	15.5	16.4	6.5	7.1	18.6
Significance	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg/ha pre-emergence
T_4 Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emergence
T_5 Atrazine (750 g/ha) + 2,4
T_6 Halosulfuron 60 g/ha at 25 DAS
T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS
T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS
T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750 g/ha) + 2,4
T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

Table 76: Weed Management in Maize Systems in Dholi.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha) 25 DAS	Cobs ('000/ha)	Days of 50% tasseling	Days of 50% silking	Plant Height (cm)	Weed Population at 60 DAS	Moisture (%)
T_1	4738	8444	99.6	98.2	55.0	58.0	175.0	192.0	16.5
T_2	6457	11556	97.1	96.2	53.7	56.7	174.0	13.0	16.8
T_3	5881	10578	98.7	98.0	54.7	57.7	169.0	38.3	17.3
T_4	4910	8822	97.3	98.9	56.3	57.7	173.3	141.3	17.2
T_5	5376	9600	95.8	98.7	55.3	58.3	168.3	90.7	16.7
T_6	5035	8978	98.2	97.6	54.7	57.7	170.7	60.0	16.5
T_7	5750	10356	99.6	98.7	56.3	57.7	167.3	15.0	17.4
T_8	4824	8667	99.3	97.3	55.3	58.3	171.3	100.0	17.2
T_9	5653	10156	98.2	98.0	52.3	56.3	161.0	81.7	17.2
T_{10}	5158	9178	97.1	98.4	54.3	57.3	160.0	50.0	16.4
Mean	5378.2	9633.3	98.1	98.0	54.8	57.6	169.0	78.2	16.9
CD	227.3	363.0	1.9	2.6	2.0	2.4	17.0	26.9	1.2
CV (%)	2.5	2.2	1.1	1.6	2.1	2.4	5.9	20.1	4.2
Significance	S	S	S	NS	S	NS	NS	S	NS

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg/ha pre-emergence

T_4 Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emergence

T_5 Atrazine (750 g/ha) + 2,4-D Amine (75%) at 25 DAS as PoE

T_6 Halosulfuron 60 g/ha at 25 DAS

T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS

T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750 g/ha) + 2,4-D Amine (75%) at 25 DAS as PoE

T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotryn (Laudis) 120 g/ha PoE at 25 DAS

Table 77: Effect of weed management on yield components and yield of maize at Kalyani during 2015.

Treatment	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Net Return (Rs./ha)	B:C ratio
T_1	2525	3123	76.2	41.5	8300	1.40
T_2	4135	5138	78.3	68.4	21120	1.74
T_3	3704	4582	77.2	60.9	19769	1.80
T_4	3525	4360	78.4	58	18896	1.81
T_5	3672	4542	79.4	60.4	20281	1.85
T_6	2734	3382	77.5	45	11329	1.53
T_7	3806	4708	77.5	62.6	20314	1.80
T_8	3284	4062	78.3	54	17813	1.82
T_9	3889	4810	76.9	64	22385	1.92
T_{10}	3969	4909	77.7	65.3	22154	1.87
CD (p=0.05)	213	263	NS	3.5		
CV (%)	10.2	9.9	7.7	8.8		

Treatments	No. of weeds / m² at 50 DAS			Weed dry weight / m² (g) at 50 DAS		
	Grass	Sedge	BLW	Grass	Sedge	BLW
T_1	210.0 (14.51)	147.3 (12.15)	95.66 (9.80)	25.51 (5.10)	16.21 (4.08)	11.12 (3.41)
T_2	0.0 (0.71)	0.0 (0.71)	0.0 (0.71)	0 (0.71)	0.0 (0.71)	0.0 (0.71)
T_3	87.7 (9.38)	65.3 (8.08)	38.33 (6.19)	10.56 (3.32)	7.79 (2.87)	4.57 (2.24)
T_4	99.3 (9.98)	75.3 8.67)	42.0 (6.50)	11.55 (3.47)	9.00 (3.07)	4.50 (2.24)
T_5	94 (9.72)	77.0 (8.80)	46.33 (6.82)	11.33 (3.44)	7.4 (2.81)	5.25 (2.38)
T_6	139 (11.80)	86.7 (9.32)	87.66 (9.38)	17.06 (4.19)	9.67 (3.18)	10.77 (3.35)
T_7	77.7 (8.83)	71.3 (8.47)	47.33 (6.89)	9.40 (3.15)	8.10 (2.92)	5.51 2.45)
T_8	116.7 (10.82)	85.3 (9.25)	54.0 (7.36)	14.25 (3.83)	10.46 (3.31)	6.07 (2.55)
T_9	79.3 (8.93)	66.0 (8.13)	36.66 (6.08)	9.71 (3.19)	8.16 (2.92)	4.34 (2.19)
T_{10}	68.0 (8.27)	59.3 (7.72)	33.66 (5.82)	8.41 (2.98)	6.53 (2.63)	4.15 (2.15)
CD (p=0.05)	0.8	1.2	1.14	0.24	0.56	0.45
CV (%)	5.12	8.6	10.16	8.80	11.27	10.97

Cont…..

Treatments	No. of weeds / m² at harvest			Weed dry weight / m² at harvest (g)		
	Grass	Sedge	BLW	Grass	Sedge	BLW
T_1	233.83 (15.31)	169 (13.01)	116.7 (10.82)	27.55 (5.30)	19.16 (4.43)	16.61 (4.13)
T_2	0.0(0.71)	0.0 (0.71)	0.0 (0.71)	0.0 (0.71)	0.0 (0.71)	0.0 (0.71)
T_3	94.67 (9.74)	87.33 (9.35)	62.4 (7.91)	12.27 (3.57)	10.67 (3.33)	7.13 (2.76)
T_4	110.33 (10.52)	97.66 (9.88)	63.3 (7.98)	14.35 (3.85)	11.56 (3.46)	8.15 (2.93)
T_5	112.67 (10.63)	98.0 (9.92)	62.4 (7.92)	15.03 (3.93)	11.71 (3.48)	8.05 (2.92)
T_6	152.5 (12.36)	109.0 (10.45)	109.2 (10.46)	17.69 (4.26)	13.81 (3.78)	14.07 (3.82)
T_7	90.67 (9.54)	93.66 (9.70)	65.4 (8.10)	12.61 (3.62)	11.68 (3.49)	8.91 (3.06)
T_8	109.67 (10.49)	107.33 (10.37)	71.4 (8.44)	15.03 (3.94)	12.40 (3.59)	8.89 (3.06)
T_9	95.83 (9.80)	92.33 (9.63)	64.8 (8.08)	13.72 (3.77)	11.58 (3.46)	8.44 (2.98)
T_{10}	86.5 (9.32)	83.33 (9.15)	51.3 (7.19)	11.17 (3.41)	10.09 (3.25)	6.36 (2.61)
CD (p=0.05)	0.86	1.07	1.06	0.33	0.5	0.4
CV (%)	5.17	6.79	7.73	5.33	8.95	7.85

** Figures in the parenthesis indicate square root transformed data

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg/ha pre-emergence

T_4 Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emergence

T_5 Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE

T_6 Halosulfuron 60 g/ha at 25 DAS

T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS

T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE

T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

Table 78: Weed management in maize systems in Ranchi.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)
T_1	3277	5046	68.6	65.0	172.7	51.7	55.7	31.3	18274	0.7	5.2
T_2	6317	10066	69.8	70.7	236.9	49.7	52.7	34.7	40905	0.9	2.0
T_3	5426	8627	70.2	69.5	215.4	51.0	54.3	32.9	47126	1.7	3.7
T_4	5757	8708	69.8	69.3	225.8	50.3	53.7	33.8	51003	1.8	3.1
T_5	5715	9087	69.0	68.6	222.8	50.3	54.0	33.3	51063	1.8	3.1
T_6	5022	7985	69.0	67.1	204.2	51.3	55.0	32.2	38186	1.2	3.8
T_7	5590	8573	69.5	68.3	220.0	50.7	54.0	33.1	45120	1.4	3.4
T_8	4706	7483	70.0	66.9	201.8	51.3	55.3	31.8	34024	1.1	4.1
T_9	6110	9715	69.5	70.7	232.7	50.0	53.3	34.3	55597	1.9	2.4
T_{10}	6068	9347	69.8	70.5	229.2	50.0	53.3	33.9	51634	1.6	2.7
Mean	5399.0	8463.7	69.5	68.7	216.1	50.6	54.1	33.1	43293.2	1.4	3.4
CD	719.2	1125.2	2.6	2.6	18.8	2.2	2.2	3.0	9992.9	0.3	0.7
CV (%)	7.8	7.7	2.2	2.2	5.1	2.6	2.3	5.2	13.5	13.7	12.0
Significance	S	S	NS	S	S	NS	NS	NS	S	S	S

Treatments	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedges, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	88.3	68.7	70.3	54.7	25.3	17.6	24.7	39.9	55.9	19.5
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	23.7	19.7	19.0	15.0	15.0	6.2	8.7	14.1	19.7	11.5
T_4	11.0	9.0	10.0	8.7	11.0	3.4	4.7	7.6	10.6	8.5
T_5	20.7	18.0	13.7	11.0	12.7	5.4	7.6	12.3	17.2	9.7
T_6	25.7	21.7	25.3	21.0	16.0	6.7	9.3	15.1	21.1	12.3
T_7	22.3	19.0	17.7	13.7	12.7	5.9	8.3	13.4	18.8	9.7
T_8	30.0	24.3	35.3	28.0	16.0	7.6	10.7	17.2	24.0	12.3
T_9	7.0	6.7	5.3	5.3	4.7	2.2	3.1	4.9	6.9	3.6
T_{10}	9.7	7.7	6.7	6.7	10.0	3.1	4.3	7.0	9.8	7.7
Mean	23.8	19.5	20.3	16.4	12.3	5.8	8.1	13.1	18.4	9.5
CD	11.1	8.9	11.7	9.2	5.2	2.2	3.5	5.1	7.2	4.0
CV (%)	27.3	26.6	33.6	32.8	24.8	22.5	24.8	22.8	22.8	24.8
Significance	S	S	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence
T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence
T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_6 Halosulfuron @ 60 g/ha at 25 DAS
T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE
T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE
T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 79: Weed management in maize systems at Coimbatore.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs./ha)	B:C ratio
T_1	4284	7281	61.8	59.9	169.4	50.7	56.7	34.6	23626	1.60
T_2	6821	11753	64.5	63.4	230.2	53.7	57.3	37.9	51079	2.04
T_3	5824	10606	63.0	61.2	192.1	51.7	56.3	35.5	45567	2.12
T_4	5905	10697	63.2	61.6	194.9	52.3	57.3	35.6	46778	2.15
T_5	6172	10894	63.8	62.1	205.2	52.7	56.0	36.9	49607	2.19
T_6	4881	8743	62.1	60.5	178.6	51.3	57.3	34.8	28966	1.67
T_7	6026	10725	63.4	61.8	197.3	52.0	56.7	36.4	44433	2.00
T_8	5409	9876	62.7	61.0	186.7	51.3	56.3	35.2	36046	1.82
T_9	6274	11102	64.0	62.3	209.2	53.0	56.7	37.3	50827	2.22
T_{10}	6412	11328	64.3	63.0	218.6	53.3	57.3	37.7	49141	2.08
Mean	5800.8	10300.5	63.3	61.7	198.2	52.2	56.8	36.2	42607.0	1.99
CD	718.5	1419.3	3.4	3.5	30.9	2.5	3.0	2.1	9243.6	0.22
CV (%)	7.2	8.0	3.1	3.3	9.1	2.8	3.0	3.4	12.6	6.4
Significance	S	S	NS	NS	S	NS	NS	S	S	S

Treatments	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest
T_1	66.7	184.7	23.0	26.7	44.4	191.3	11.8	15.8
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	44.3	146.0	0.3	3.3	28.7	200.7	0.2	2.3
T_4	29.3	143.3	0.7	7.3	19.7	190.7	0.3	4.5
T_5	48.7	123.3	0.0	1.3	34.9	155.3	0.0	1.1
T_6	56.7	155.3	2.7	7.7	41.6	107.3	1.3	5.6
T_7	61.3	134.0	0.0	1.3	42.2	208.3	0.0	1.0
T_8	49.3	150.7	8.7	2.0	33.8	173.3	3.5	1.5
T_9	24.7	105.3	6.7	0.7	16.6	121.3	2.9	0.6
T_{10}	27.0	72.7	0.0	0.7	18.2	136.7	0.0	0.5
Mean	40.8	121.5	4.2	5.1	28.0	148.5	2.0	3.3
CD	16.5	63.2	3.5	3.4	12.5	60.6	1.8	5.2
CV (%)	23.6	30.3	48.1	39.4	26.0	23.8	52.5	91.8
Significance	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 80: Weed management in maize in Dharwad.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net return (Rs)	B:C ratio
T_1	4410	6533	74.7	72.4	146.1	51.3	55.3	20.3	26484	1.96
T_2	5716	7677	81.7	79.2	207.8	51.3	55.7	28.0	33741	1.95
T_3	4700	6687	76.5	74.2	171.4	51.0	55.3	22.0	29174	2.03
T_4	4734	6807	75.9	73.6	170.6	50.7	55.0	23.3	29728	2.05
T_5	5333	7333	80.0	77.6	193.8	51.3	55.3	26.7	36821	2.31
T_6	4611	6570	77.9	75.6	166.2	51.0	55.3	22.0	25613	1.83
T_7	5160	7077	79.0	76.6	178.3	50.3	55.0	23.7	31444	2.00
T_8	4901	6861	77.0	74.7	176.5	51.7	56.0	23.7	28120	1.89
T_9	5500	7467	78.7	76.3	201.7	51.3	55.0	27.7	38442	2.35
T_{10}	5205	7287	76.1	73.8	192.6	50.3	54.7	25.7	31229	1.97
Mean	5027.0	7029.8	77.7	75.4	180.5	51.0	55.3	24.3	31079.6	2.03
CD	720.8	661.2	5.2	5.0	26.2	1.2	1.5	2.8	8418.4	0.27
CV (%)	8.4	5.5	3.9	3.9	8.5	1.4	1.6	6.7	15.8	7.9
Significance	S	S	NS	NS	S	NS	NS	S	NS	S

Treatment	Grassy weeds m2 at 50 DAS	Grassy weeds m2 at harvest	BLW at 50 DAS	BLW at harvest	Sedges at 50 DAS	Sedges at harvest	Grassy dry weight at harvest	BLW dry weight at harvest	Sedges dry weight at harvest
T_1	41.0	43.0	40.7	44.3	18.7	25.0	17.4	18.2	8.6
T_2	4.3	2.3	0.0	1.0	0.3	1.3	1.1	1.0	1.2
T_3	12.7	14.7	10.3	12.3	6.7	9.0	5.9	5.5	2.4
T_4	11.0	13.7	12.0	15.0	5.3	8.0	5.8	5.9	2.2
T_5	7.0	9.3	1.7	3.7	2.7	4.3	3.3	2.1	1.7
T_6	13.3	16.0	2.0	4.0	7.3	10.3	6.0	2.0	2.6
T_7	9.0	10.7	1.7	4.0	4.0	6.0	5.0	1.6	2.0
T_8	10.3	12.3	0.7	2.3	4.7	6.7	5.5	1.3	2.2
T_9	6.3	8.0	1.3	3.0	2.0	3.7	3.0	1.2	1.8
T_{10}	7.7	10.0	1.0	2.7	3.0	5.0	3.9	1.2	1.9
Mean	12.3	14.0	7.1	9.2	5.5	7.9	5.7	4.0	2.7
CD	3.6	3.4	2.3	2.9	2.3	2.5	1.8	1.2	0.3
CV (%)	16.9	14.1	18.8	18.5	24.9	18.3	18.9	17.8	5.8
Significance	S	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5 kg/ha pre emergence
T_4 Atrazine (750 g/ha) + pendimethalin (750 ml/ha) pre emergence
T_5 Atrazine (750 g/ha) + 2,4 -D Amine (75%) @ 25 DAS at PoE
T_6 Halosulfuron 60g/ha at 25 DAS
T_7 Atrazine @ 1.5 kg/ha pre emergence fb Halosulfuron 60g/ha at 25 DAS
T_8 Tembotrione 120g /ha at 25 DAS
T_9 Pendimethalin (1000 ml/ha) pre emergence fb Atrazine (750 g/ha) + 2,4 -D Amine (75%) @ 25 DAS at PoE
T_{10} Atrazine @ 1.5 kg/ha pre emergence fb Tembotrione 120g /ha at 25 DAS

Table 81: Weed management in Maize systems in Hyderabad.

Treatments	Grain yield (Kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Net Returns (Rs/ha)	BC Ratio
T_1	4691	5270	58.8	48.3	221.3	28813	1.77
T_2	8340	8730	63.1	63.2	255.7	74710	2.76
T_3	6323	6697	60.5	59.4	240.3	50251	2.30
T_4	6640	7240	63.7	61.7	255.3	54745	2.41
T_5	6988	7600	59.0	57.6	261.0	60167	2.57
T_6	6177	6623	54.7	52.3	239.3	44855	2.07
T_7	7057	7433	60.2	56.0	256.0	55905	2.29
T_8	6407	6833	59.2	52.9	251.0	48680	2.17
T_9	7273	7813	62.8	58.8	259.3	62953	2.60
T_{10}	7297	7850	60.7	62.6	272.3	60067	2.41
Mean	6719.2	7209.0	60.3	57.3	251.2	54114.6	2.34
CD	607.2	587.0	2.8	2.7	13.0	8434.6	0.21
CV (%)	5.3	4.7	2.7	2.7	3.0	9.1	5.1
Significance	S	S	S	S	S	S	S

Treatments	Weed dry matter 25 DAS	Weed dry matter 50 DAS	Grasses	BLW	Grasses	BLW	Weed control efficiency (WCE) % 25 DAS	Weed control efficiency (WCE) % 50 DAS	Weed Index
T_1	33.9	40.6	45.0	82.0	52.0	102.0	--	--	43.8
T_2	6.6	9.0	40.0	8.0	2.0	4.0	78.1	77.8	--
T_3	13.7	24.7	24.0	14.0	32.0	22.0	54.6	39.2	24.2
T_4	10.6	16.3	18.0	10.0	24.0	12.0	64.9	59.0	20.4
T_5	20.5	18.7	24.0	40.0	18.0	6.0	32.1	53.9	16.2
T_6	26.4	18.2	25.0	40.0	14.0	18.0	12.9	55.1	25.9
T_7	14.7	13.6	24.0	32.3	12.0	10.0	51.3	66.0	15.4
T_8	22.3	15.6	19.0	30.0	8.0	5.0	26.7	61.0	23.2
T_9	12.2	12.2	10.0	8.0	18.0	4.0	59.7	69.9	12.8
T_{10}	9.8	9.2	12.0	10.0	8.0	8.0	67.5	77.3	12.5
Mean	17.1	17.8	24.1	27.4	18.8	19.1	49.8	62.1	21.6
CD	3.2	1.6	7.3	6.0	5.6	6.5			
CV (%)	10.8	5.4	17.7	12.8	17.3	19.7			
Significance	S	S	S	S	S	S			

Treatment details:

T_1 Control (unweeded)
T_2 Weed free
T_3 Atrazine @ 1.5* kg/ha pre-emergence
T_4 Atrazine (0.75 kg /ha) + Pendemathalin (750ml/ha) pre-emergence
T_5 Atrazine (750 g/ha) + 2,4-D Amine 75%(500g /ha) at 25 DAS as PoE
T_6 Halosulfuron 60 g/ha at 25 DAS
T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS
T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS
T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750g/ha) + 2,4-D Amine 75%(500 ml/ha) at 25 DAS as PoE
T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotryn (Laudis) 120 g/ha PoE at 25 DAS

Table 82: Weed management in maize in Karimnagar.

Treatment	Grain yield (Kg/ha)	Stalk yield (kg/ha	Cob yield (Kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
T_1	5886	5917	7766	251.3	111.0	49.3	52.3
T_2	8762	8972	11833	234.0	99.0	49.7	53.0
T_3	7430	7417	9733	260.3	118.0	49.7	52.7
T_4	8640	9000	11573	264.7	112.3	50.7	53.7
T_5	8109	8333	10667	265.3	115.3	50.3	53.3
T_6	6882	7012	9234	222.7	93.3	51.7	54.7
T_7	8124	8444	10646	266.0	114.7	50.3	53.3
T_8	7052	7839	9439	235.7	95.0	50.0	53.0
T_9	7941	8576	10561	259.0	112.3	51.3	54.3
T_{10}	7242	8428	9602	238.7	101.3	52.0	54.7
Mean	7606.7	7993.8	10105.4	249.8	107.2	50.5	53.5
CD	1224.6	1433.8	1948.3	21.1	12.8	1.1	1.1
CV (%)	9.4	10.5	11.2	4.9	7.0	1.2	1.2
Significance	S	S	S	S	S	S	S

Treatment	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	100-grain weight (g)	Net returns (Rs./ha)	B:C Ratio
T_1	17.5	17.0	14.7	30.1	32.4	29119	1.53
T_2	17.8	16.7	14.1	32.8	28.3	65395	2.09
T_3	18.1	16.8	14.1	33.1	30.9	49718	1.88
T_4	18.5	17.5	14.5	33.1	33.5	65301	2.12
T_5	18.4	17.4	14.5	32.8	33.1	59096	2.04
T_6	17.2	16.6	14.5	29.9	28.3	39206	1.66
T_7	18.8	17.1	14.9	30.8	31.5	55480	1.91
T_8	17.4	16.8	14.1	29.4	29.8	41550	1.70
T_9	18.4	17.3	14.4	31.8	31.8	53370	1.89
T_{10}	17.1	17.0	14.9	29.6	31.9	42746	1.70
Mean	17.9	17.0	14.5	31.3	31.1	50098.2	1.85
CD	1.4	0.8	1.0	5.7	2.5	17512.2	0.30
CV (%)	4.5	2.8	4.0	10.5	4.8	20.4	9.5
NS	NS	NS	NS	S	S	S	NS

Cont…..

Treatment	Weed Density of grasses(No./ m2) at 50 DAS	Weed Density of sedges (No./m2) at 50 DAS	Weed Density of Broad leaved weeds (No./m2)at 50DAS	Total Weed Density (No./m2) at 50 DAS	Weed Dry matter (g/m2) at 50 DAS	Weed Dry matter (g/m2) at Harvest
T_1	7.7	25.0	31.7	64.3	0.045	0.093
T_2	6.0	16.0	4.7	26.7	0.025	0.048
T_3	12.3	18.7	4.0	35.0	0.064	0.047
T_4	14.0	7.6	5.3	26.9	0.048	0.069
T_5	17.7	14.1	15.3	47.1	0.285	0.079
T_6	18.0	7.0	17.7	42.7	0.095	0.117
T_7	3.3	1.3	5.3	10.0	0.049	0.056
T_8	14.7	5.7	16.0	36.3	0.055	0.091
T_9	6.0	15.5	1.3	22.8	0.087	0.053
T_{10}	3.7	9.2	8.7	21.5	0.033	0.048
Mean	10.3	12.0	11.0	33.3	0.079	0.070
CD	20.4	20.5	12.3	35.3	0.143	0.034
CV (%)	114.9	99.5	65.2	61.8	106.1	28.0
NS	S	NS	S	S		

Treatment details:

T_1 Control weedy check
T_2 Weed free
T_3 Atrazine as pre emergence
T_4 Atrazine + Pendimethalin as pre eme
T_5 Atrazine + 2,4-D Amine at 25 DAS as POE
T_6 Halosulfuron at 25 DAS as POE
T_7 Atrazine as pre Fb Halosulfuron at 25 DAS
T_8 Tembotrione as PoE at 25 DAS
T_9 Pendimethalin as pre Fb Atrazine +2,4-D Amine as POE at 25 DAS
T_{10} Atrazine as Pre Fb Tembotryn at 25 DAS

Table 83: Weed management in maize systems in Vagarai.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)
T_1	4122	4542	52.7	46.7	177.2	48.3	51.7	27.3	13763	1.29	0.9
T_2	9555	5027	51.6	46.4	173.8	48.3	51.0	25.7	80408	2.33	0.0
T_3	6541	5859	48.7	44.9	179.5	48.0	52.0	29.3	48178	2.00	4.1
T_4	6345	5169	53.6	44.7	172.7	48.7	51.3	27.7	45399	1.94	2.4
T_5	4595	5785	52.4	45.1	174.3	48.7	52.0	23.0	19881	1.42	0.5
T_6	6000	5474	50.9	45.3	170.2	49.0	52.0	31.3	37760	1.74	0.9
T_7	10709	4161	51.3	46.7	169.7	48.3	51.3	31.7	105965	3.04	0.0
T_8	7614	6501	52.9	47.1	171.6	48.3	52.0	32.7	63827	2.32	0.2
T_9	8749	6765	47.3	46.9	178.8	48.3	51.3	28.7	81084	2.69	2.0
T_{10}	5591	5743	53.8	46.0	177.7	48.0	52.0	28.3	31861	1.63	0.0
Mean	6982.1	5502.5	51.5	46.0	174.6	48.4	51.7	28.6	52812	2.04	1.1
CD	3127.6	2400.7	6.2	6.7	14.3	1.7	1.2	6.6	46132.1	0.92	1.6
CV (%)	26.1	25.4	7.1	8.5	4.8	2.1	1.3	13.5	50.9	26.2	81.2
Significance	S	NS	NS	NS	NS	NS	NS	NS	S	S	S

Treatments	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedge, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	4.0	4.0	5.3	23.7	11.0	8.3	54.2	103.8	181.3	0.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	11.3	11.3	3.3	34.0	15.0	18.3	71.8	98.3	129.8	1.7
T_4	0.0	0.0	1.0	11.3	7.0	0.0	23.3	8.0	71.5	0.0
T_5	9.7	9.7	8.7	12.3	6.0	28.7	29.0	89.2	57.2	0.0
T_6	9.7	9.7	10.0	32.3	9.3	23.3	98.8	142.7	121.7	0.0
T_7	7.0	7.0	4.7	24.0	7.7	7.0	24.5	25.5	137.5	0.0
T_8	6.0	6.0	8.0	16.3	5.3	6.8	38.8	121.3	96.5	0.0
T_9	0.3	0.3	0.7	10.3	5.0	0.7	35.7	38.0	104.5	0.0
T_{10}	13.7	13.7	9.3	18.7	4.0	25.7	38.0	69.5	71.7	0.0
Mean	6.2	6.2	5.1	18.3	7.0	11.9	41.4	69.6	97.2	0.2
CD	9.7	9.7	5.5	17.7	9.6	21.6	84.7	97.0	145.3	1.6
CV (%)	92.2	92.2	63.1	56.3	79.8	106.1	119.2	81.2	87.2	547.7
Significance	NS	NS	S	S	NS	NS	NS	NS	NS	NS

Treatment details:

T_1 Control (weedy check)

T_2 Weed free

T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence

T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence

T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_6 Halosulfuron @ 60 g/ha at 25 DAS

T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE

T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE

T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 84: Weed management in maize systems in Banswara.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio
T_1	2378	4750	38.6	32.2	183.3	47.7	51.0	22.6	12603	0.61
T_2	6694	8154	64.5	48.6	235.0	51.0	54.0	32.4	63024	2.05
T_3	3794	5504	45.1	48.5	217.7	50.0	53.0	28.6	30620	1.36
T_4	3716	5220	45.0	46.6	222.3	48.3	51.7	28.2	29266	1.29
T_5	4267	6257	58.3	66.5	191.7	47.7	51.0	30.0	36875	1.61
T_6	2797	3719	40.0	35.0	160.7	48.7	51.3	24.3	14780	0.61
T_7	3655	5250	45.6	35.2	163.3	48.3	51.7	26.3	24992	0.95
T_8	5157	6477	61.1	63.3	222.7	51.0	53.7	31.0	46906	1.85
T_9	4601	6359	58.7	62.4	223.7	49.3	53.0	29.0	40893	1.74
T_{10}	6415	7807	64.2	65.9	235.0	51.3	54.3	31.7	62719	2.32
Mean	4347.3	5949.5	52.1	50.4	205.5	49.3	52.5	28.4	36267.8	1.44
CD	928.8	1330.9	7.6	4.4	37.8	2.2	1.7	2.1	13003.0	0.54
CV (%)	12.5	13.0	8.5	5.1	10.7	2.6	1.9	4.4	20.9	21.8
Significance	S	S	S	S	S	S	S	S	S	S

Treatments	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedges, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	65.4	86.3	34.7	1.5	0.7	327.2	403.3	173.3	11.7	2.0
T_2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T_3	33.0	60.6	3.7	0.8	2.7	165.2	180.8	18.3	6.4	8.0
T_4	28.7	57.5	2.7	0.5	1.3	143.4	190.7	13.3	4.3	4.0
T_5	28.4	55.3	0.0	0.0	0.0	141.9	143.2	0.0	0.0	0.0
T_6	45.6	112.7	0.0	0.0	0.0	227.8	284.0	0.0	0.0	0.0
T_7	27.8	66.9	0.0	0.0	0.0	138.9	189.0	0.0	0.0	0.0
T_8	10.0	40.2	7.7	24.5	6.7	49.9	82.2	38.3	196.3	20.0
T_9	15.8	33.4	2.7	0.0	0.0	79.1	129.9	13.3	0.0	0.0
T_{10}	3.6	18.3	5.3	12.9	5.0	17.9	44.2	32.0	103.5	15.0
Mean	25.8	53.1	5.7	4.0	1.6	129.1	164.7	28.9	32.2	4.9
CD	11.5	30.8	7.4	10.5	3.9	57.7	61.0	38.2	84.0	11.8
CV (%)	26.0	33.8	76.4	152.1	140.4	26.0	21.6	77.0	152.1	140.4
Significance	S	S	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence
T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence
T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_6 Halosulfuron @ 60 g/ha at 25 DAS
T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE
T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE
T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 85: Weed management in maize systems in Chhindwara.

Treatments	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)	Net returns (Rs. /ha)	B:C ratio	Phytotoxic effect, if any	Barrenness (%)
T_1	3501	5321	54.6	45.3	191.3	56.7	63.0	30.2	30587	1.73	0.0	11.4
T_2	6496	10271	79.1	77.3	218.3	52.7	58.3	36.7	67459	2.98	0.0	2.3
T_3	6243	9577	77.7	74.0	214.0	53.7	60.0	36.0	68360	3.77	0.0	5.4
T_4	6424	9809	78.7	76.3	217.3	53.3	59.7	36.3	69433	3.80	0.0	4.1
T_5	5521	9207	75.0	68.0	208.0	55.3	62.0	34.8	55449	3.04	0.0	8.1
T_6	4258	6801	72.6	63.8	198.0	55.0	62.7	30.8	41744	2.12	1.0	10.4
T_7	5413	8282	74.5	67.5	207.7	55.0	62.3	34.5	53900	2.67	0.0	9.9
T_8	5233	7865	73.1	66.6	204.3	55.3	61.7	32.8	52693	2.41	0.0	8.9
T_9	6171	9577	75.9	70.8	211.7	54.7	60.3	35.3	66386	3.57	0.0	7.3
T_{10}	5846	9346	74.0	68.5	210.7	54.0	60.7	35.2	56988	2.56	0.0	8.9
Mean	5510.6	8605.6	73.5	67.8	208.1	54.6	61.1	34.3	56299.8	2.87	0.1	7.7
CD	953.2	1258.2	10.6	5.8	11.3	2.6	3.2	4.4	11246.5	0.58	0.5	3.7
CV (%)	10.1	8.5	8.4	5.0	3.2	2.7	3.0	7.4	11.6	11.8	316.2	27.9
Significance	S	S	S	S	S	NS	NS	NS	S	S	S	S

Treatments	Grassy weeds m2 at 50 DAS	Grassy, weeds m2 at harvest	Broad leaves weeds m2 at 50 DAS	Broad leaves weeds m2 at harvest	Sedges, if any at harvest	Grassy weeds g/m2 at 50 DAS	Grassy weeds g/m2 at harvest	Broad leaves weeds g/m2 at 50 DAS	Broad leaves weeds g/m2 at harvest	Sedges g/m2 at harvest
T_1	56.3	58.3	24.7	26.7	9.3	120.1	125.5	59.5	62.7	11.4
T_2	13.7	12.7	6.7	8.3	4.0	11.5	13.5	12.5	15.8	6.5
T_3	15.7	16.0	7.7	9.3	6.3	21.6	22.1	16.1	18.3	6.2
T_4	13.7	15.0	7.7	8.3	6.3	18.2	21.5	14.7	17.7	7.0
T_5	17.7	17.7	9.3	10.7	7.3	27.2	29.3	21.4	25.8	9.4
T_6	21.7	24.3	14.7	15.7	4.7	39.8	41.7	26.2	27.6	9.8
T_7	18.3	21.7	11.7	11.3	8.7	20.9	32.5	21.9	27.0	11.9
T_8	19.7	21.7	11.7	13.7	5.3	32.9	34.8	25.5	26.9	9.4
T_9	16.3	16.7	8.0	9.3	4.7	23.7	22.6	16.6	18.8	7.6
T_{10}	17.3	17.3	8.3	9.7	4.3	26.1	25.8	20.0	22.3	8.6
Mean	21.0	22.1	11.0	12.3	6.1	34.2	36.9	23.5	26.3	8.8
CD	6.9	6.8	5.3	4.1	3.0	9.8	11.2	5.4	5.1	3.7
CV (%)	19.2	18.0	27.8	19.7	28.2	16.7	17.6	13.3	11.3	24.8
Significance	S	S	S	S	S	S	S	S	S	NS

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg a.i./ha as pre-emergence
T_4 Atrazine (750 g a.i./ha) + Pendimethalin (750 ml a.i./ha) as pre-emergence
T_5 Atrazine (750 g a.i./ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_6 Halosulfuron @ 60 g/ha at 25 DAS
T_7 Atrazine (1.5 kg a.i./ha) pre-emergence fb Halosulfuron (60 g/ha) at 25 DAS as PoE
T_8 Tembotrione (120 ml a.i./ha) at 25 DAS as PoE
T_9 Pendimethalin (1000 ml a.i./ha) pre-emergence fb Atrazine (750 g a.i. /ha) + 2,4-D Amine (500 ml a.i./ha) at 25 DAS as PoE
T_{10} Atrazine (1.5 kg a.i./ha) pre-emergence fb Tembotrione (120 ml a.i./ha) at 25 DAS as PoE

Table 86: Weed management in maize systems in Udaipur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Shelling (%)	Plant height (cm)
T_1	1030	1237	50.2	50.2	55.3	150.3
T_2	4137	6433	63.1	63.1	78.4	221.1
T_3	3247	6077	61.6	61.6	77.1	212.1
T_4	4033	6227	26.7	60.4	77.3	221.1
T_5	3330	5022	56.4	53.6	76.3	211.8
T_6	1347	1763	46.4	44.2	60.3	152.3
T_7	3333	5040	53.3	55.6	61.3	201.7
T_8	1513	2038	50.0	46.7	60.3	150.8
T_9	3033	4546	53.3	46.7	62.4	211.2
T_{10}	3253	4940	56.4	54.0	70.3	204.0
Mean	2825.7	4332.3	51.8	53.6	67.9	193.6
CD	470.5	564.7	5.0	5.4	7.0	20.5
CV (%)	9.7	7.6	5.7	5.9	6.0	6.2
Significance	S	S	S	S	S	S

Treatment	At 50 DAS					At harvest			
	Grassy weed density /m2	Broad leaf weed density/ m2	Sedges sensity/ m2	Total weed density/ m2	Phytotoxic effect in terms of yellowing and stunting growth (grade/10)	Grassy weed density/ m2	Broad leaf weed density/ m2	Sedges sensity/ m2	Total weed densit y/m2
T_1	160.0	65.7	11.7	237.3	5.0	154.7	56.3	13.7	70.0
T_2	10.0	5.0	12.0	27.0	0.0	8.7	3.7	13.0	16.7
T_3	15.0	43.3	13.0	71.3	0.0	12.7	38.3	14.0	52.3
T_4	18.0	10.0	11.0	39.0	0.0	15.3	7.0	12.0	19.0
T_5	19.0	50.0	12.3	81.3	0.0	16.0	40.7	13.0	53.7
T_6	140.0	40.3	1.7	182.0	5.0	129.3	33.7	2.0	35.7
T_7	7.0	42.0	4.0	53.0	5.0	4.7	31.3	4.3	35.7
T_8	130.0	45.0	11.7	186.7	5.0	120.0	34.7	13.3	48.0
T_9	131.7	45.0	12.0	188.7	0.0	119.7	35.7	13.3	49.0
T_{10}	8.0	45.0	11.0	64.0	5.0	5.7	37.3	12.0	49.3
Mean	63.9	39.1	10.0	113.0	2.5	58.7	31.9	11.1	42.9
CD	16.6	7.7	2.1	17.7	0.5	15.3	8.2	1.8	8.1
CV (%)	15.2	11.4	11.9	9.1	12.6	15.2	15.0	9.3	11.0
Significance	S	S	S	S	S	S	S	S	S

Treatment details:

T_1 Control (weedy check)
T_2 Weed free
T_3 Atrazine @ 1.5* kg/ha pre-emergence
T_4 Atrazine (750 g /ha) + Pendemathalin (750 ml/ha) pre-emergence
T_5 Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE
T_6 Halosulfuron 60 g/ha at 25 DAS
T_7 Atrazine @ 1.5 kg/ha pre-emergence fb Halosulfuron 60 g/ha 25 DAS
T_8 Tembotrione (Laudis) 120 g/ha PoE at 25 DAS
T_9 Pendemathalin (1000 ml/ha) pre-emergence fb Atrazine (750 g/ha) + 2,4-D Amine (500 g/ha) at 25 DAS as PoE
T_{10} Atrazine @ 1.5 kg/ha pre-emergence fb Tembotrione (Laudis) 120 g/ha PoE at 25 DAS

Table 87: Enhancing water-use efficiency in rainfed maize in Srinagar.

Tillage practices	Hydrogel	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
Conventional tillage	Control	7053	14358	82.6	87.2	234.7	73.0	77.0	25.3
	Hydrogel 2.5	7118	14467	82.2	88.4	231.7	73.7	78.7	25.6
	Hydrogel 5.0	7235	14367	82.2	88.5	233.0	74.0	77.0	25.2
Conventional tillage + mulch	Control	7272	14553	82.3	90.2	232.0	75.3	79.7	24.9
	Hydrogel 2.5	7413	14367	82.3	92.2	237.7	75.0	79.3	25.3
	Hydrogel 5.0	7500	14637	82.3	93.4	235.3	75.7	80.0	25.4
Zero tillage	Control	7192	14270	82.5	95.3	234.0	73.0	77.7	25.4
	Hydrogel 2.5	7280	14455	82.4	95.2	233.7	75.0	79.3	25.2
	Hydrogel 5.0	7418	14563	82.2	95.4	234.7	74.0	77.0	25.5
Zero tillage + mulch	Control	7717	14562	82.2	96.7	231.7	75.3	79.7	25.1
	Hydrogel 2.5	7797	14615	82.3	98.3	233.0	75.0	79.3	25.2
	Hydrogel 5.0	7965	14840	82.6	98.4	232.0	75.7	80.0	25.3
Location mean		7413.4	14504.4	82.3	93.3	233.6	74.6	78.7	25.3
C.D.(5%) AiBj-AiBk		246.5	569.8	0.8	2.6	10.7	3.2	3.2	1.1
C.D.(5%) AiBk-AjBk		226.4	492.8	0.7	2.3	10.2	3.3	3.8	1.1
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Conventional tillage		7136	14397	82.3	88.0	233.1	73.6	77.6	25.4
Conventional tillage+mulch		7395	14519	82.3	91.9	235.0	75.3	79.7	25.2
Zero tillage		7297	14429	82.4	95.3	234.1	74.0	78.0	25.3
Zero tillaage+mulch		7826	14672	82.4	97.8	232.2	75.3	79.7	25.2
C.D. (5%) Ai-Aj		104.4	163.8	0.3	0.9	5.3	2.0	2.8	0.7
C.V. (%) Error A		1.2	1.0	0.3	0.9	2.0	2.4	3.1	2.5
F (5%)		S	S	NS	S	NS	NS	NS	NS
Control		7309	14436	82.4	92.4	233.1	74.2	78.5	25.2
Hydrogel 2.5 (kg/ha)		7402	14476	82.3	93.5	234.0	74.7	79.2	25.3
Hydrogel 5.0 (kg/ha)		7530	14602	82.3	93.9	233.8	74.8	78.5	25.4
C.D. (5%) Bi-Bj		123.3	284.9	0.4	1.3	5.3	1.6	1.6	0.5
C.V. (%) ErrorB		1.9	2.3	0.5	1.6	2.6	2.5	2.3	2.4
F (5%)		S	NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage practices

T1: Conventional till
T2: Conventional till + mulch (4 t/ha)
T3: Zero till
T4: Zero till + mulch (4 t/ha)

B. Sub plot: Hydrogel

H1: Control No Hydrogel
H2: Hydrogel (2.5 kg /ha
H3: Hydrogel (5.0 kg/ha)

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Tillage practices	Hydrogel	Net returns (Rs. /ha)	B:C ratio	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row
Conventional tillage	Control	83402	1.77	12.7	19.7	11.7	13.8	35.8
	Hydrogel 2.5	87420	1.85	12.5	19.6	11.5	11.9	38.8
	Hydrogel 5.0	88230	1.87	12.8	18.7	11.1	12.7	43.6
Conventional tillage + mulch	Control	93541	1.98	11.9	17.5	11.9	12.6	42.0
	Hydrogel 2.5	94690	2.00	12.3	21.9	11.6	11.4	39.6
	Hydrogel 5.0	96444	2.05	12.0	19.1	11.0	13.7	45.1
Zero tillage	Control	104890	2.09	10.6	19.5	11.9	11.3	46.0
	Hydrogel 2.5	109211	2.27	10.9	20.3	12.1	13.6	47.4
	Hydrogel 5.0	116188	2.51	10.9	21.2	11.5	13.2	47.2
Zero tillage + mulch	Control	119730	2.61	11.5	19.5	12.4	14.2	42.2
	Hydrogel 2.5	122957	2.71	11.4	21.9	12.7	14.0	42.7
	Hydrogel 5.0	127530	2.77	11.3	22.5	13.0	15.0	46.9
Location mean		103686.1	2.21	11.7	20.1	11.9	13.1	43.1
C.D.(5%) AiBj-AiBk		6012.2	0.11	2.5	2.8	1.7	2.1	3.0
C.D.(5%) AiBk-AjBk		5112.7	0.10	2.1	2.6	1.7	1.9	2.9
F(5%)		NS	S	NS	NS	NS	NS	S
Conventional tillage		86351	1.83	12.7	19.4	11.5	12.8	39.4
Conventional tillage+mulch		94892	2.01	12.1	19.5	11.5	12.6	42.2
Zero tillage		110096	2.29	10.8	20.3	11.8	12.7	46.9
Zero tillaage+mulch		123406	2.70	11.4	21.3	12.7	14.4	43.9
C.D. (5%) Ai-Aj		1440.9	0.05	0.5	1.2	1.0	0.8	1.5
C.V. (%) Error A		1.2	1.9	4.0	5.0	7.0	5.6	3.0
F (5%)		S	S	S	S	NS	S	S
Control		100391	2.11	11.7	19.1	12.0	13.0	41.5
Hydrogel 2.5 (kg/ha)		103569	2.21	11.8	20.9	12.0	12.7	42.1
Hydrogel 5.0 (kg/ha)		107098	2.30	11.7	20.4	11.7	13.7	45.7
C.D. (5%) Bi-Bj		3006.1	0.06	1.2	1.4	0.8	1.1	1.5
C.V. (%) ErrorB		3.3	2.9	12.3	8.0	8.2	9.3	4.0
F (5%)		S	S	NS	S	NS	NS	S

Table 88: Enhancing water-use efficiency in rainfed maize in Hisar.

Tillage practices	Hydrogel	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ ha)	Cobs ('000/ ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	Days to maturity	100-seed weight (g)
Conventional till	Control	3061	3233	75.1	82.6	144.4	55.3	58.7	89.0	21.6
	Hydrogel 2.5	3096	3433	74.7	87.5	150.4	53.0	56.3	92.0	20.5
	Hydrogel 5.0	3572	3350	77.5	96.6	151.9	50.0	53.0	93.0	23.0
Conventional till + mulch	Control	3289	3017	83.9	104.3	153.8	54.7	57.7	94.3	20.3
	Hydrogel 2.5	3423	3533	82.2	108.5	150.3	51.0	54.0	95.0	22.6
	Hydrogel 5.0	3516	3633	86.3	120.5	152.4	48.0	51.0	96.0	22.5
Zero tillage	Control	5968	6267	83.8	129.1	174.5	49.3	51.3	101.3	22.8
	Hydrogel 2.5	6648	6400	84.7	142.6	175.4	50.3	52.3	102.3	23.0
	Hydrogel 5.0	6960	6150	86.5	152.2	176.2	51.7	53.7	103.3	23.8
Zero tillage + residue	Control	6592	6317	86.8	146.3	174.9	49.3	51.3	103.7	23.3
	Hydrogel 2.5	6931	6067	89.8	164.8	178.6	48.0	50.0	105.0	23.9
	Hydrogel 5.0	7016	6933	84.3	161.0	178.5	47.3	49.3	106.3	24.7
Location mean		5005.9	4861.1	83.0	124.7	163.4	50.7	53.2	98.4	22.7
C.D.(5%) AiBj-AiBk		1126.5	895.4	5.2	23.0	4.4	2.7	4.0	3.5	2.5
C.D.(5%) AiBk-AjBk		1313.8	849.8	5.3	22.3	4.4	3.2	4.4	3.8	3.0
F(5%)		NS	NS	NS	NS	NS	S	NS	NS	NS
Conventional till		3243	3339	75.8	88.9	148.9	52.8	56.0	91.3	21.7
Conventional till+mulching		3409	3394	84.2	111.1	152.1	51.2	54.2	95.1	21.8
Zero tillage		6525	6272	85.0	141.3	175.4	50.4	52.4	102.3	23.2
Zero tillage+residue		6846	6439	87.0	157.4	177.3	48.2	50.2	105.0	24.0
C.D.(5%) Ai-Aj		942.8	436.3	3.3	12.1	2.6	2.4	2.9	2.5	2.2
C.V.(%) Error A		16.3	7.8	3.4	8.4	1.4	4.0	4.8	2.2	8.2
F(5%)		S	S	S	S	S	S	S	S	NS
Control		4727	4708	82.4	115.6	161.9	52.2	54.8	97.1	22.0
Hydrogel 2.5 (kg/ha)		5024	4858	82.9	125.9	163.7	50.6	53.2	98.6	22.5
Hydrogel 5.0 (kg/ha)		5266	5017	83.7	132.6	164.8	49.3	51.8	99.7	23.5
C.D.(5%)Bi-Bj		563.2	447.7	2.6	11.5	2.2	1.4	2.0	1.8	1.3
C.V.(%)ErrorB		13.0	10.6	3.6	10.7	1.6	3.1	4.4	2.1	6.5
F(5%)		NS	NS	NS	S	S	S	S	S	NS

Treatment details:

A. Main plot: Tillage practices

T1: Conventional tillage
T2: Conventional till + mulch
T3: Zero tillage
T4: Zero till + mulch (4 t/ha)

B. Sub plot: Hydrogel

H1: Control No Hydrogel
H2: Hydrogel (2.5 kg /ha)
H3: Hydrogel (5.0 kg/ha)

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Tillage practices	Hydrogel	Net returns (Rs. /ha)	B:C ratio	Dead hearts formation due to Stem borer infestation (%)	Barrenness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/ cob	Grains/ row	Shelling (%)
Conventional till	Control	25146	1.79	8.1	0.8	17.4	5.4	13.9	34.3	79.5
	Hydrogel 2.5	23914	1.71	5.8	0.6	17.9	5.4	13.5	34.6	79.3
	Hydrogel 5.0	30118	1.84	2.1	0.4	18.1	5.3	14.5	35.2	78.8
Conventional till + mulch	Control	28928	1.91	0.0	0.5	17.8	5.5	14.2	35.3	78.5
	Hydrogel 2.5	29733	1.88	5.6	0.3	17.7	5.5	13.9	37.5	79.5
	Hydrogel 5.0	29416	1.82	2.2	0.4	18.0	5.4	14.2	37.8	81.1
Zero tillage	Control	82232	3.89	2.2	0.6	19.0	5.6	13.5	39.4	80.6
	Hydrogel 2.5	92219	4.02	2.4	0.4	19.4	5.8	15.3	39.9	80.8
	Hydrogel 5.0	95383	3.93	0.0	0.2	19.6	5.8	14.6	40.3	80.9
Zero tillage + residue	Control	93200	4.27	0.0	0.3	19.1	5.8	13.7	40.9	80.4
	Hydrogel 2.5	96836	4.17	2.4	0.4	19.3	5.7	15.2	41.6	82.1
	Hydrogel 5.0	97144	3.98	2.4	0.2	19.9	5.9	15.5	41.9	82.3
Location mean		60355.9	2.94	2.8	0.4	18.6	5.6	14.3	38.2	80.3
C.D.(5%) AiBj-AiBk		19633.5	0.62	9.3	0.3	1.4	0.2	2.1	3.3	3.0
C.D.(5%) AiBk-AjBk		23116.9	0.74	8.6	0.3	2.3	0.2	1.9	3.1	3.9
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS	NS
Conventional till		26393	1.78	5.3	0.6	17.8	5.4	14.0	34.7	79.2
Conventional till+mulching		29359	1.87	2.6	0.4	17.8	5.5	14.1	36.9	79.7
Zero tillage		89945	3.95	1.5	0.4	19.3	5.7	14.4	39.9	80.8
Zero tillage+residue		95727	4.14	1.6	0.3	19.4	5.8	14.8	41.5	81.6
C.D.(5%) Ai-Aj		16738.0	0.54	4.1	0.2	1.9	0.1	0.9	1.6	3.1
C.V.(%) Error A		24.0	15.9	129.3	44.3	9.0	2.3	5.6	3.6	3.3
F(5%)		S	S	NS	NS	NS	S	NS	S	NS
Control		57376	2.97	2.6	0.5	18.3	5.6	13.8	37.5	79.7
Hydrogel 2.5 (kg/ha)		60676	2.95	4.0	0.4	18.6	5.6	14.5	38.4	80.4
Hydrogel 5.0 (kg/ha)		63015	2.89	1.7	0.3	18.9	5.6	14.7	38.8	80.8
C.D.(5%)Bi-Bj		9816.7	0.31	4.6	0.1	0.7	0.1	1.0	1.6	1.5
C.V.(%)ErrorB		18.8	12.2	193.6	37.9	4.4	2.5	8.3	4.9	2.1
F(5%)		NS	NS	NS	S	NS	NS	NS	NS	NS

Table 89: Enhancing water- use efficiency in rainfed maize in Bhubaneswar.

Tillage practices	Hydrogel	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Plant height (cm)	Days to 50% silking	Days to maturity	100 grain weight (g)
Conventional till	Control	4613	11867	74.7	153.9	58.0	97.3	29.2
	Hydrogel 2.5	4738	11883	73.9	157.6	59.0	97.0	29.9
	Hydrogel 5.0	5325	12500	74.8	163.0	59.3	98.3	30.0
Conventional till + mulch	Control	4975	14491	74.5	162.5	57.0	96.3	30.8
	Hydrogel 2.5	5613	15185	75.6	168.8	56.0	97.0	31.4
	Hydrogel 5.0	5838	15787	73.9	168.1	56.0	97.3	31.9
Zero tillage	Control	3813	9769	74.1	141.0	63.0	98.7	28.8
	Hydrogel 2.5	4338	10247	74.1	133.9	62.3	98.3	29.6
	Hydrogel 5.0	4025	10540	75.9	146.2	60.3	99.0	29.9
Zero tillage + residue	Control	4063	10602	73.8	143.2	61.3	97.7	29.1
	Hydrogel 2.5	4650	11327	74.5	153.6	60.0	98.3	29.5
	Hydrogel 5.0	4575	11636	73.9	151.0	59.7	97.3	29.8
Location mean		4713.5	12152.8	74.5	153.6	59.3	97.7	30.0
C.D.(5%) AiBj-AiBk		379.7	1012.3	1.7	5.0	1.9	1.5	1.1
C.D.(5%) AiBk-AjBk		509.5	940.6	2.4	4.8	1.9	1.6	1.4
F(5%)		S	NS	NS	S	NS	NS	NS
Conventional till		4892	12083	74.5	158.2	58.8	97.6	29.7
Conventional till+mulch		5475	15154	74.7	166.5	56.3	96.9	31.4
Zero tillage		4058	10185	74.7	140.4	61.9	98.7	29.4
Zero tillage+residue		4429	11188	74.1	149.3	60.3	97.8	29.5
C.D.(5%) Ai-Aj		405.9	452.1	2.0	2.5	1.1	1.0	1.0
C.V.(%) Error A		7.5	3.2	2.4	1.4	1.6	0.9	2.9
F(5%)		S	S	NS	S	S	S	S
Control		4366	11682	74.3	150.2	59.8	97.5	29.5
Hydrogel 2.5 (kg/ha)		4834	12160	74.5	153.5	59.3	97.7	30.1
Hydrogel 5.0 (kg/ha)		4941	12616	74.7	157.1	58.8	98.0	30.4
C.D. (5%) Bi-Bj		189.8	506.2	0.8	2.5	1.0	0.7	0.6
C.V. (%) ErrorB		4.7	4.8	1.3	1.9	1.9	0.9	2.2
F (5%)		S	S	NS	S	NS	NS	S

Treatment details:

A. Main plot: Tillage practices

T1: Conventional tillage
T2: Conventional till + mulch
T3: Zero tillage
T4: Zero till + mulch (4 t/ha)

B. Sub plot: Hydrogel

H1: Control No Hydrogel
H2: Hydrogel (2.5 kg /ha)
H3: Hydrogel (5.0 kg/ha)

Table 90: Enhancing water use efficiency in rainfed maize in Dholi.

Tillage	Hydrogel	Grain yield (kg/ha)	Cob yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Days of 50% tasseling	Days of 50% silking	Days of maturity
Conventional Till	Control	4611	5700	26.9	23.9	56.7	60.3	92.7
	Hydrogel 2.5	4947	6187	26.7	24.5	55.3	59.0	93.7
	Hydrogel 5	4716	5933	28.7	26.1	57.0	60.7	92.7
Conventional Till + Mulching	Control	4726	5980	25.7	23.5	57.3	61.0	93.3
	Hydrogel 2.5	5543	6900	18.0	22.8	58.3	62.0	92.7
	Hydrogel 5	5501	6880	27.5	26.3	58.3	61.7	95.0
Zero Tillage	Control	5607	6980	26.7	24.9	57.7	61.3	93.0
	Hydrogel 2.5	5757	7200	23.3	21.5	58.3	62.0	94.3
	Hydrogel 5	5636	6967	26.9	24.5	58.0	61.7	94.0
Zero Tillage + Mulching	Control	5826	7287	23.0	24.8	58.7	62.3	93.0
	Hydrogel 2.5	6278	7760	27.0	22.3	57.0	61.3	94.7
	Hydrogel 5	5953	7533	28.1	24.1	58.7	62.3	95.0
Location mean		5425.2	6775.6	25.7	24.1	57.6	61.3	93.7
C.D.(5%) AiBj-AiBk		560.7	706.8	10.5	11.4	2.8	2.9	2.6
C.D.(5%) AiBk-AjBk		549.7	693.4	13.0	13.7	3.4	3.6	2.9
F(5%)		NS	NS	NS	NS	NS	NS	NS
Conventional Till		4758	5940	27.4	24.8	56.3	60.0	93.0
Conventional Till+Mulching		5257	6587	23.7	24.2	58.0	61.6	93.7
Zero Tillage		5667	7049	25.6	23.6	58.0	61.7	93.8
Zero Tillage+Mulching		6019	7527	26.0	23.7	58.1	62.0	94.2
C.D. (5%) Ai-Aj		306.4	387.0	9.7	10.1	2.5	2.7	1.9
C.V. (%) Error A		4.9	5.0	32.9	36.3	3.8	3.8	1.8
F (5%)		S	S	NS	NS	NS	NS	NS
Control		5193	6487	25.6	24.3	57.6	61.3	93.0
Hydrogel 2.5 (kg/ha)		5631	7012	23.8	22.8	57.3	61.1	93.8
Hydrogel 5.0 (kg/ha)		5452	6828	27.8	25.2	58.0	61.6	94.2
C.D. (5%) Bi-Bj		280.4	353.4	5.3	5.7	1.4	1.5	1.3
C.V. (%) ErrorB		6.0	6.0	23.7	27.4	2.8	2.8	1.6
F (5%)		S	S	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage practices
T1: Conventional Till
T2: Conventional Till + Mulching
T3: Zero Tillage
T4: Zero Tillage + Mulching

B. Sub plot: Hydrogel
H1: Control (No Hydrogel)
H2: Hydrogel 2.5 Kg /ha
H3: Hydrogel 5.0 Kg / ha

Cont…..

Tillage	Hydrogel	Plant height (cm)	Ear height (cm)	Initial Moisture use Efficiency (%) In Soil	Initial Moisture Use Efficiency (%) In Soil AH	Water Use Efficiency	Moisture (%)
Conventional Till	Control	156.7	71.7	62.0	30.3	235.7	14.0
	Hydrogel 2.5	148.7	58.7	59.3	42.7	271.3	15.0
	Hydrogel 5	154.3	58.8	61.0	47.0	354.1	15.5
Conventional Till + Mulching	Control	151.8	58.7	57.0	38.0	330.0	16.0
	Hydrogel 2.5	158.8	65.4	59.7	50.7	544.6	14.6
	Hydrogel 5	159.0	61.0	59.3	55.7	692.6	15.0
Zero Tillage	Control	154.3	65.7	58.7	42.7	429.1	14.6
	Hydrogel 2.5	158.3	63.1	59.0	49.7	558.4	15.0
	Hydrogel 5	158.7	58.7	59.0	57.0	525.2	14.0
Zero Tillage + Mulching	Control	160.1	62.3	60.3	46.0	470.6	15.0
	Hydrogel 2.5	156.0	62.7	58.0	48.7	608.9	14.0
	Hydrogel 5	154.0	62.7	57.3	56.0	528.2	16.0
Location mean		155.9	62.4	59.2	47.0	462.4	14.9
C.D.(5%) AiBj-AiBk		13.9	10.6	3.7	5.5		
C.D.(5%) AiBk-AjBk		12.2	10.3	4.0	8.2		
F(5%)		NS	NS	NS	NS		
Conventional Till		153.2	63.0	60.8	40.0	287.0	14.8
Conventional Till+Mulching		156.5	61.7	58.7	48.1	522.4	15.2
Zero Tillage		157.1	62.5	58.9	49.8	504.2	14.5
Zero Tillage+Mulching		156.7	62.6	58.6	50.2	535.9	15.0
C.D. (5%) Ai-Aj		4.6	5.5	2.7	6.9		
C.V. (%) Error A		2.6	7.7	3.9	12.6		
F (5%)		NS	NS	NS	S		
Control		155.7	64.6	59.5	39.3	366.3	14.9
Hydrogel 2.5 (kg/ha)		155.4	62.5	59.0	47.9	495.8	14.7
Hydrogel 5.0 (kg/ha)		156.5	60.3	59.2	53.9	525.0	15.1
C.D. (5%) Bi-Bj		6.9	5.3	1.8	2.8		
C.V. (%) ErrorB		5.1	9.8	3.6	6.8		
F (5%)		NS	NS	NS	S		

Table 91: Enhancing water use efficiency in rainfed maize in Karimnagar.

Tillage	Hydrogel (kg/ha)	Grain yield (kg/ha)	Cob yield (kg/ha)	Stalk yield (kg/ha)	Plant height (cm)	Ear height (cm)	Days to 50% tasseling	Days to 50% silking
Conventional tillage	Control	2259	2739	3037	212.7	83.7	52.7	55.7
	Hydrogel 2.5	2173	2648	3111	203.0	83.0	54.7	57.7
	Hydrogel 5.0	2010	2415	2667	209.7	83.3	55.0	58.0
Conventional till + mulching	Control	1425	1671	3481	207.3	82.3	55.7	58.7
	Hydrogel 2.5	1378	1625	2815	207.3	83.3	55.7	58.7
	Hydrogel 5.0	1578	1860	2889	207.7	90.0	54.7	57.7
Zero tillage	Control	1503	1794	3185	206.0	78.0	56.3	59.3
	Hydrogel 2.5	1342	1557	3556	202.7	78.7	56.7	59.7
	Hydrogel 5.0	1441	1663	3111	214.3	77.3	56.3	59.3
Zero till + mulching	Control	2117	2600	3407	216.3	81.0	55.0	58.0
	Hydrogel 2.5	2165	2646	3481	219.0	84.0	55.3	58.7
	Hydrogel 5.0	2302	2851	3926	211.3	79.3	55.3	58.3
Location mean		1807.8	2172.4	3222.2	209.8	82.0	55.3	58.3
C.D.(5%) AiBj-AiBk		1054.7	1332.6	687.5	20.3	13.2	1.3	1.5
C.D.(5%) AiBk-AjBk		969.6	1232.2	957.7	17.7	12.7	1.5	1.6
F(5%)		NS	NS	NS	NS	NS	NS	NS
Conventional tillage		2148	2601	2938	208.4	83.3	54.1	57.1
Conventional till +mulching		1460	1719	3062	207.4	85.2	55.3	58.3
Zero tillage		1429	1671	3284	207.7	78.0	56.4	59.4
Zero till +mulching		2195	2699	3605	215.6	81.4	55.2	58.3
C.D. (5%) Ai-Aj		449.0	582.6	778.8	6.2	6.7	1.1	1.1
C.V. (%) Error A		21.5	23.2	21.0	2.6	7.1	1.7	1.6
F (5%)		S	S	NS	NS	NS	S	S
Control		1826	2201	3278	210.6	81.3	54.9	57.9
Hydrogel 2.5 (kg/ha)		1765	2119	3241	208.0	82.3	55.6	58.7
Hydrogel 5.0 (kg/ha)		1833	2197	3148	210.8	82.5	55.3	58.3
C.D. (5%) Bi-Bj		527.3	666.3	343.8	10.2	6.6	0.7	0.7
C.V. (%) ErrorB		33.7	35.4	12.3	5.6	9.3	1.4	1.5
F (5%)		NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage practices

T1: Conventional tillage
T2: Conventional till + mulching
T3: Zero tillage
T4: Zero till + mulching

B. Sub plot: Hydrogel

H1: Control No Hydrogel
H2: Hydrogel (2.5 kg /ha)
H3: Hydrogel (5.0 kg/ha)

Cont…..

Tillage	Hydrogel (kg/ha)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/ row	100-grain weight (g)	Net returns (Rs./ha)	B:C Ratio
Conventional tillage	Control	17.3	15.0	14.1	33.0	19.4	-15700	0.67
	Hydrogel 2.5	16.8	15.2	14.5	31.7	20.0	-17429	0.64
	Hydrogel 5.0	16.5	14.8	14.7	27.9	18.7	-20272	0.59
Conventional till +mulching	Control	15.5	14.0	14.3	26.3	17.9	-28845	0.41
	Hydrogel 2.5	16.1	14.1	14.1	26.9	17.9	-30011	0.40
	Hydrogel 5.0	15.7	14.4	14.1	26.4	17.9	-27661	0.45
Zero tillage	Control	14.8	13.5	14.0	26.5	17.1	-19913	0.52
	Hydrogel 2.5	15.0	13.9	14.1	23.7	16.3	-22712	0.46
	Hydrogel 5.0	15.1	13.5	14.5	24.7	17.2	-22300	0.48
Zero till +mulching	Control	17.5	14.7	14.5	30.1	19.9	-12346	0.71
	Hydrogel 2.5	17.3	15.3	14.5	32.9	19.4	-12160	0.72
	Hydrogel 5.0	18.8	15.2	14.0	36.1	20.8	-11208	0.75
Location mean		16.4	14.5	14.3	28.8	18.5	-20046.4	0.57
C.D.(5%) AiBj-AiBk		2.4	1.4	1.2	7.4	1.7	15081.6	0.34
C.D.(5%) AiBk-AjBk		2.0	1.2	1.1	6.8	2.0	13865.5	0.32
F(5%)		NS	NS	NS	NS	NS	NS	NS
Conventional tillage		16.8	15.0	14.4	30.8	19.4	-17800	0.63
Conventional till +mulching		15.7	14.2	14.2	26.5	17.9	-28839	0.42
Zero tillage		15.0	13.6	14.2	25.0	16.9	-21641	0.49
Zero till +mulching		17.9	15.0	14.4	33.0	20.0	-11905	0.72
C.D. (5%) Ai-Aj		0.4	0.3	0.5	3.3	1.5	6420.7	0.15
C.V. (%) Error A		2.0	2.0	3.2	9.9	6.9	-27.8	22.7
F (5%)		S	S	NS	S	S	S	S
Control		16.3	14.3	14.2	29.0	18.6	-19201	0.58
Hydrogel 2.5 (kg/ha)		16.3	14.6	14.3	28.8	18.4	-20578	0.55
Hydrogel 5.0 (kg/ha)		16.5	14.5	14.3	28.8	18.7	-20360	0.57
C.D. (5%) Bi-Bj		1.2	0.7	0.6	3.7	0.9	7540.8	0.17
C.V. (%) ErrorB		8.6	5.5	4.8	14.8	5.4	-43.5	35.1
F (5%)		NS	NS	NS	NS	NS	NS	NS

Table 92: Enhancing water-use efficiency in rainfed maize in Chhindwara.

Tillage	Hydrogel	Grain yield (kg/ha)	Stover yield (kg/ha)	Plants ('000/ha)	Cobs ('000/ha)	Plant height (cm)	Days to 50% tasseling	Days to 50% silking	100-seed weight (g)
Conventional tillage	Control	5036	8115	71.3	65.2	192.7	56.7	63.3	36.8
	Hydrogel 2.5	5108	7727	74.5	71.7	198.3	52.7	62.7	38.2
	Hydrogel 5.0	5228	8606	75.9	70.3	203.7	53.7	62.7	39.8
Conventional till +mulching	Control	6010	7958	75.9	72.2	194.7	53.3	62.7	39.2
	Hydrogel 2.5	6263	9762	74.5	70.8	203.3	55.3	61.7	39.9
	Hydrogel 5.0	6269	10734	75.9	71.3	205.7	55.0	61.3	40.3
Zero tillage	Control	5938	10364	75.4	71.3	204.7	55.0	63.3	38.1
	Hydrogel 2.5	6010	10595	76.8	72.6	205.0	55.3	63.3	39.2
	Hydrogel 5.0	6066	10780	76.8	75.0	205.0	54.7	62.7	39.8
Zero till +mulching	Control	5649	10780	75.4	73.1	211.0	54.0	62.7	40.5
	Hydrogel 2.5	6227	10826	80.0	77.3	212.7	54.3	62.0	41.4
	Hydrogel 5.0	6278	10873	78.7	76.3	213.0	54.3	62.0	41.9
Location mean		5840.1	9760.0	75.9	72.3	204.1	54.5	62.5	39.6
C.D.(5%) AiBj-AiBk		1756.1	2681.8	5.6	6.6	15.5	2.8	1.5	5.2
C.D.(5%) AiBk-AjBk		1605.2	3373.6	5.3	6.2	19.0	2.7	1.8	4.8
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
Conventional tillage		5124	8149	73.9	69.1	198.2	54.3	62.9	38.2
Conventional tillage+mulching		6181	9485	75.4	71.4	201.2	54.6	61.9	39.8
Zero tillage		6004	10580	76.3	72.9	204.9	55.0	63.1	39.0
Zero tillage residues		6051	10826	78.0	75.6	212.2	54.2	62.2	41.3
C.D. (5%) Ai-Aj		726.9	2577.7	2.6	3.1	14.2	1.5	1.3	2.3
C.V. (%) Error A		10.8	22.9	3.0	3.7	6.0	2.4	1.8	5.1
F (5%)		S	NS	S	S	NS	NS	NS	NS
Control		5658	9304	74.5	70.4	200.8	54.8	63.0	38.6
Hydrogel 2.5 (kg/ha)		5902	9728	76.5	73.1	204.8	54.4	62.4	39.7
Hydrogel 5.0 (kg/ha)		5960	10248	76.8	73.2	206.8	54.4	62.2	40.4
C.D. (5%) Bi-Bj		878.1	1340.9	2.8	3.3	7.7	1.4	0.8	2.6
C.V. (%) ErrorB		17.4	15.9	4.3	5.2	4.4	2.9	1.4	7.6
F (5%)		NS	NS	NS	NS	NS	NS	NS	NS

Cont…..

Tillage	Hydrogel	Net returns (Rs./ha)	B:C ratio	Barren ness (%)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
Conventional tillage	Control	49933	2.48	8.4	13.3	12.6	12.0	24.0
	Hydrogel 2.5	49180	2.33	3.7	15.0	13.3	12.7	26.3
	Hydrogel 5.0	50882	2.30	7.3	14.8	13.7	12.7	26.7
Conventional till +mulching	Control	58402	2.58	4.9	15.0	13.7	12.7	27.0
	Hydrogel 2.5	63014	2.66	4.8	15.1	14.1	13.3	27.3
	Hydrogel 5.0	63546	2.58	6.1	15.4	14.0	12.7	26.7
Zero tillage	Control	66181	3.75	5.6	15.3	13.8	12.7	27.3
	Hydrogel 2.5	66358	3.56	5.5	15.6	14.2	13.3	29.3
	Hydrogel 5.0	66274	3.37	2.4	16.3	14.3	13.3	28.0
Zero till +mulching	Control	62986	3.47	3.1	16.4	15.1	14.0	31.7
	Hydrogel 2.5	68695	3.59	3.5	16.5	16.0	14.0	36.7
	Hydrogel 5.0	68360	3.39	2.9	17.4	16.1	14.0	37.7
Location mean		61150.9	3.00	4.9	15.5	14.3	13.1	29.1
C.D.(5%) AiBj-AiBk		20419.7	1.04	3.5	2.9	2.3	1.0	5.8
C.D.(5%) AiBk-AjBk		19936.8	1.00	4.2	3.2	2.2	1.5	5.6
F(5%)		NS	NS	NS	NS	NS	NS	NS
Conventional tillage		49998	2.37	6.5	14.4	13.2	12.4	25.7
Conventional tillage+mulching		61654	2.61	5.3	15.1	14.0	12.9	27.0
Zero tillage		66271	3.56	4.5	15.7	14.1	13.1	28.2
Zero tillage+residues		66680	3.48	3.2	16.8	15.7	14.0	35.3
C.D. (5%) Ai-Aj		11006.0	0.52	3.1	2.1	1.2	1.3	3.0
C.V. (%) Error A		15.6	15.0	55.4	11.9	7.3	8.7	8.9
F (5%)		S	S	NS	NS	S	NS	S
Control		59375	3.07	5.5	15.0	13.8	12.8	27.5
Hydrogel 2.5 (kg/ha)		61812	3.03	4.4	15.6	14.4	13.3	29.9
Hydrogel 5.0 (kg/ha)		62266	2.91	4.7	16.0	14.5	13.2	29.8
C.D. (5%) Bi-Bj		10209.9	0.52	1.7	1.5	1.2	0.5	2.9
C.V. (%) ErrorB		19.3	20.1	41.3	10.9	9.4	4.4	11.5
F (5%)		NS	NS	NS	NS	NS	NS	NS

Treatment details:

A. Main plot: Tillage practices

T1: Conventional tillage
T2: Conventional till + mulching
T3: Zero tillage
T4: Zero till + mulching

B. Sub plot: Hydrogel

H1: Control No Hydrogel
H2: Hydrogel (2.5 kg /ha)
H3: Hydrogel (5.0 kg/ha)

PATHOLOGY

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Abbreviations used:

1.	ALMO	Almora	8.	GODH	Godhara (Vol. Centre)
2.	DHAR	Dharwad	9.	HYDE	Hyderabad
3.	BAJA	Bajaura	10.	KARN	Karnal
4.	BARA	Barapani	11.	LUDH	Ludhiana
5.	COIM	Coimbatore	12.	MAND	Mandya
6.	DELH	Delhi	13.	MEDI	Midnapur (Vol. Centre)
7.	DHAU	Dhaulakuan	14.	PANT	Pantnagar
8.	DHOL	Dholi	15.	UDAI	Udaipur

1.	BLSB	Banded leaf and sheath blight	8.	MLB	Maydis leaf blight
2.	BSDM	Brown stripe downy mildew	9.	P. rust	Polysora rust
3.	BSR	Bacterial stalk rot	10.	PFSR	Post flowering stalk rot
4.	C. rot	Charcoal rot	11.	RDM	Rajasthan downy mildew
5.	C. rust	Common rust	12.	SDM	Sorghum downy mildew
6.	CLS	Curvularia leaf spot	13.	TLB	Turcicum leaf blight
7.	FSR	Fusarium stalk rot			

1.	FS	Foliar spray	5.	MR	Moderately resistant
2.	MDR	Multiple disease resistance	6.	MS	Moderately susceptible
3.	MPT	Maize Pathology Trial	7.	S	Susceptible
4.	R	Resistant	8.	ST	Seed treatmeant

Executive Summary

The programme for *Kharif* 2015 Pathology trials under All India Coordinated Research Project on Maize (AIRCPM) was chalked out in the 58th Annual Maize Workshop held at PAU, Ludhiana. A total of 23 trials (17 in *Kharif* 2015 and 6 in *Rabi* 2014-15) of Maize Pathology were conducted under sick plot / artificially created epiphytotics at identified hot spot locations namely Bajaura, Almora, Dhaulakuan, Barapani (AVTs only) in Zone I; Ludhiana (*Rabi & Kharif*), Delhi, Karnal, Pantnagar in Zone II; Dholi (*Rabi & Kharif*), Medinapur (*Kharif*) in Zone III; Dharwad (*Rabi & Kharif*), Coimbatore (*Rabi & Kharif*), Mandya (*Rabi & Kharif*), Hyderabad (*Rabi & Kharif*) in Zone IV and Udaipur in Zone V. A total of 528 hybrids in both seasons and 443 inbred lines (*Kharif* only) were screened against Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Rajasthan downy mildew (RDM), Curvularia leaf spot (CLS), Post-flowering stalk rots (PFSR), Common rust, Polysora rust, Bacterial stalk rot (BSR) and Cyst nematode. Yield loss trials were conducted at Dharwad, Udaipur and Ludhiana centres. Trap nursery trial for disease occurrence was conducted at Almora, Bajaura, Coimbatore, Delhi, Dharwad, Dhaulakuan, Dholi, Hyderabad, Karnal, Ludhiana, Mandya, Pantnagar and Udaipur centres. In addition, disease surveys were conducted at farmers' fields in Himachal Pradesh and Uttarakhand (Zone I), Punjab (Zone II), Karnataka (Zone IV), Rajasthan and Gujarat (Zone V) to assess overall disease scenario during the crop season. Study on management of nematode and its interaction with PFSR and termite in maize was taken up by Udaipur centre. Disease management trials for development of integrated disease management (IDM) strategy in maize were conducted at Bajaura, Ludhiana, Karnal, Delhi, Pantnagar, Godhra, Dharwad, and Udaipur. The summarized results of various AICRPM Pathology trials conducted during *Kharif* 2015 and *Rabi* 2014-15 at respective centres are presented below:

A. ***Kharif 2015***

MPT 1. Disease screening of IVT (late maturity) maize hybrids (Trial 61A & 61B)

A total of 92 genotypes out of 109 tested were resistant/ moderately resistant to different diseases (Table 1 and 2). Promising ones with multiple disease resistance (MDR) are given below:

S. No.	Genotype	Resistant	Moderately resistant
Trial 61A			
1.	SRIKAR 3555	MLB, C.RUST	C.ROT, FSR
2.	JKMH 4153	MLB, C.RUST, SDM BSR	TLB, BLSB, C.ROT, FSR
3.	BRM 12-1	MLB, TLB, C.RUST	BLSB, C.ROT, FSR, RDM
4.	QMH-1232	TLB, FSR	MLB, C.RUST, C.ROT, RDM, BSR
5.	OMH 14-27 (CAH 153)	C.RUST, RDM	MLB, TLB, BLSB, C.ROT, FSR, BSR,
6.	PM15101L	C.RUST, RDM	MLB, TLB, BLSB, C.ROT, FSR, BSR
7.	PM15104L	MLB, C.RUST, RDM	TLB, BLSB, C.ROT, FSR, FSR

8.	IMH1527	MLB, RDM	TLB, FSR
9.	PM15102L	MLB, FSR	TLB, C.RUST, C.ROT
10.	JKMH 4444	MLB, FSR	TLB, BLSB, C.RUST, C.ROT, BSR
11.	HT 515387	MLB, TLB, C.RUST, RDM	BLSB, C.ROT, FSR, BSR
12.	IIMRNH 2015-9	TLB, FSR	MLB, C.ROT
13.	TMMH 840	TLB, C.RUST, FSR	MLB, BLSB, C.ROT, RDM, BSR
14.	PM15106L	C.RUST, FSR	MLB, TLB, BLSB, C.ROT
15.	HM15310	TLB, C.RUST	MLB, P.RUST, FSR
16.	CMH12-661	MLB, TLB	P.RUST, C.RUST, C.ROT, FSR, BSR
17.	CMH12-688	MLB, C.RUST	TLB, BLSB, C.ROT, FSR, RDM
18.	VNR-31565	MLB, C.RUST	TLB, BLSB, P.RUST, C.ROT
19.	IMH1528	FSR, RDM	MLB, TLB, C.ROT
20.	PM15105L	TLB, C.RUST, FSR	MLB, C.ROT
21.	PMH-1-C	MLB, C.RUST, FSR	TLB, BLSB, C.ROT, RDM
22.	PMH-3-C	MLB, RDM	TLB, BLSB, C.ROT, FSR
***Trial* 61B**			
23.	HM15313	C.RUST, FSR, RDM	MLB, TLB, P.RUST
24.	JH 13336	MLB, FSR	TLB, BLSB, C.ROT, RDM
25.	IIMRNH 2015-7	MLB, TLB, C.RUST, FSR	RDM
26.	JH 13346	MLB, TLB, C.RUST, RDM	C.ROT, FSR, BSR
27.	BH 413027	FSR, RDM	MLB, TLB, BLSB
28.	RMH-748	MLB, TLB, C.RUST	P.RUST, FSR, RDM
29.	CMH12-686	TLB, C.RUST, FSR	MLB, RDM, BSR
30.	PM15103L	MLB, C.RUST, RDM	TLB, BLSB, FSR
31.	ZASL-986	MLB, C.RUST, RDM	TLB, P.RUST, FSR
32.	PM15108L	C.RUST, FSR	MLB, TLB, BSR
33.	HT 515169	MLB, TLB, C.RUST, RDM	C.ROT, FSR, BSR
34.	ADV 7022	C.RUST, FSR	MLB, TLB, C.ROT, SDM, RDM
35.	KMH-2852	MLB, C.RUST, RDM	TLB, C.ROT, FSR, BSR
36.	DH-295	MLB, TLB, C.RUST	C.ROT, BSR
37.	IMH1526	MLB, RDM	TLB, C.RUST, BSR
38.	MFH-5-15	TLB, C.RUST	MLB, P.RUST, FSR, BSR
39.	DKC8144 (IM8479)	MLB, TLB, C.RUST, FSR, RDM	C.ROT, BSR
40.	IIMRNH 2015-6	MLB, TLB, FSR, RDM	BLSB, P.RUST, BSR
41.	DKC8161 (IP8570)	C.RUST, FSR	MLB, TLB, BLSB, C.ROT, RDM

42.	KMH-1311	MLB, C.RUST	TLB, BLSB, P.RUST, C.ROT, FSR, RDM
43.	JH 13208	MLB, FSR	TLB, BLSB, C.ROT, RDM
44.	GK3144	MLB, RDM	TLB, BLSB, FSR
45.	BRM 12-6	MLB, TLB, RDM	C.RUST, C.ROT
46.	AH7000	C.RUST, FSR	MLB, TLB, RDM
47.	Googul	C.RUST, RDM	MLB, TLB, C.ROT, FSR
48.	BL 108	MLB, C.RUST, RDM	TLB, BSR
49.	MAH-K14-3(CAHCM1473)	MLB, TLB, C.RUST, RDM	BSR
50.	DKC9164 (IP9002)	MLB, C.RUST, FSR, RDM	TLB
51.	RMH-726	MLB, C.RUST, RDM	TLB, C.ROT, FSR
52.	CCH 1040	TLB, C.RUST	MLB, FSR, RDM
53.	PMH-1-C	MLB, RDM	TLB, FSR, BSR
54.	PMH-3-C	MLB, RDM	TLB, C.RUST, FSR, BSR
55.	Seedtech 2324-C	C.RUST, RDM	MLB, TLB, C.ROT, FSR, BSR

MPT 2. Disease screening of IVT (medium maturity) maize hybrids (Trial 62A & 62B)

A total of 79 genotypes out of 88 tested were resistant/ moderately resistant to different diseases (Table 3 and 4). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
Trial 62A			
1.	BRM 12-3	MLB, TLB, C.RUST, RDM	P.RUST, C.ROT, FSR, BSR
2.	CMH11-620	MLB, TLB, C.RUST	BLSB, FSR
3.	MMH-4-15	C.RUST, RDM	MLB, TLB, C.ROT, FSR, BSR
4.	AMH-3435	MLB, C.RUST	TLB, BLSB, P.RUST, C.ROT, RDM, BSR
5.	CMH12-699	MLB, TLB, C.RUST	BLSB, C.ROT, FSR, RDM, BSR
6.	NMH-3746	C.RUST, RDM	MLB, BLSB, P.RUST, FSR, BSR
7.	EH-2480	MLB, FSR	TLB, BLSB
8.	PROLINE-511	C.RUST, RDM	MLB, TLB, C.ROT, FSR, BSR
9.	IMH1526	C.RUST, RDM	MLB, TLB, BLSB, FSR, BSR
10.	RCRMH1 (HTMR1)	MLB, TLB, C.RUST, RDM	C.ROT, FSR, BSR
11.	LMH 615	FSR, RDM, BSR	MLB, TLB, P.RUST
12.	OMH 14-64(CAH 1532)	MLB, C.RUST, RDM	TLB, BLSB, C.ROT, FSR, BSR

13.	NMH 109	TLB, FSR, RDM	BLSB, C.ROT, BSR
14.	MMH-3-15	FSR, RDM	MLB, TLB
15.	IIMRNH 2015-1	FSR, RDM	MLB, TLB, BSR
16.	LMH 815	MLB, C.RUST	TLB, BLSB, C.ROT, FSR, RDM, BSR
17.	JH 13347	MLB, C.RUST, FSR	TLB, RDM
18.	IMH1530	C.RUST, FSR	MLB, TLB, RDM
19.	DAS-MH-309	TLB, C.RUST, FSR	MLB, BLSB, C.ROT, RDM, BSR
20.	BIO 509	MLB, FSR	BLSB, C.RUST, C.ROT, RDM, BSR
21.	IIMRNH 2015-3	FSR, RDM	MLB, TLB, BLSB
22.	JKMH 4333	MLB, FSR	TLB, BLSB, P.RUST, RDM, BSR
23.	HM 9-C	TLB, C.RUST, FSR	MLB, BSR
24.	BIO 9637-C	TLB, C.RUST, FSR	MLB, BLSB, C.ROT, RDM, BSR
25.	PMH-4-C	MLB, FSR, RDM	C.RUST, C.ROT, BSR
Trial 62B			
26.	RCRMH2 (HTMR2)	FSR, RDM	MLB, TLB, BLSB, P.RUST, C.RUST, C.ROT, BSR
27.	KNMH-4508	MLB, TLB, RDM	BLSB, C.ROT, FSR, BSR
28.	LMH 1015	MLB, TLB, C.RUST, FSR, RDM	
29.	IMH1533	MLB, FSR	TLB, BLSB, RDM
30.	Ganga-11	C.RUST, RDM	MLB, TLB, BLSB, FSR
31.	HT 515349	MLB, C.RUST, RDM, BSR	TLB, BLSB, C.ROT
32.	JH 31820	MLB, FSR, RDM	TLB, C.RUST, C.ROT, BSR
33.	OMH 14-7(CAH 1538)	TLB, C.RUST, RDM	MLB, C.ROT, BSR
34.	BIO 274	MLB, C.RUST, FSR, RDM	TLB, P.RUST, C.ROT, SDM, BSR
35.	DH-294	FSR, RDM	MLB, TLB, C.ROT, BSR
36.	VEH 15-1	C.RUST, RDM	MLB, TLB, C.ROT, FSR, BSR
37.	IIMRNH 2015-5	FSR, RDM	MLB, TLB, BLSB, BSR
38.	RMH-301	MLB, FSR, RDM	TLB, C.ROT,BSR
39.	VaMH 12014	MLB, RDM	TLB, C.RUST, C.ROT, FSR, BSR
40.	IIMRNH 2015-4	MLB, TLB	C, ROT, FSR, RDM, BSR
41.	PM15107M	C.RUST, BSR	MLB, TLB, C.ROT, FSR, RDM
42.	AH7009	MLB, FSR, RDM	P.RUST, C.RUST, BSR
43.	LMH 515	MLB, RDM	TLB, BLSB, FSR, BSR
44.	BL 107	RDM, BSR	MLB, P.RUST, C.ROT, FSR
45.	GK3131	MLB, RDM	TLB, C.RUST, C.ROT, FSR, BSR
46.	EH-2214	FSR, RDM	MLB, TLB, BSR

47.	BGMH2 (CAH1454)	MLB, C.RUST, RDM	TLB, BSR
48.	HM 9-C	MLB, RDM, BSR	TLB, P.RUST, FSR
49.	BIO 9637-C	MLB, RDM, BSR	TLB, BLSB, FSR
50.	PMH-4-C	MLB, RDM, BSR	TLB, BLSB, P.RUST, C.RUST, C.ROT, FSR

MPT 3. Disease screening of IVT (early maturity & extra early maturity) maize hybrids (Trial 63 & 64)

A total of 31 genotypes out of 40 tested were resistant/ moderately resistant to different diseases (Table 5). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	DH-291	MLB, RDM	C.RUST, FSR, BSR
2.	AH1402	FSR, RDM, BSR	MLB
3.	H-100 (CAH-1527)	MLB, C.RUST	FSR, RDM, BSR
4.	LMH 1315	C.RUST, FSR, RDM	MLB, TLB, BLSB,BSR
5.	Khushi	MLB, C.RUST, RDM	TLB, BLSB, P.RUST, C.ROT, FSR, BSR
6.	NMH-51	FSR, RDM, BSR	MLB, C.RUST
7.	KMH-5510	MLB, FSR, RDM	TLB, BSR
8.	FH 3754	MLB, C.RUST, RDM	BSR
9.	JKMH 4222	FSR, RDM	MLB
10.	AH7006	MLB, RDM	TLB, P.RUST, FSR, BSR
11.	CMH12-700	MLB, RDM, BSR	TLB, BLSB, FSR
12.	BRM 12-5	MLB, TLB, C.RUST, RDM	C.ROT, FSR, BSR
13.	BL 105	TLB, C.RUST	MLB, FSR, RDM, BSR
14.	LMH 1515	FSR, RDM	MLB, BSR
15.	FH 3728	MLB, C.RUST	TLB, C.ROT, FSR, RDM, BSR
16.	PMH-5-C	FSR, RDM	MLB, C.RUST, BSR

MPT 4. Disease screening of AVT I & AVT II (late maturity) maize hybrids (Trial 75)

A total of 40 genotypes out of 41 tested were resistant/ moderately resistant to different diseases (Table 6). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT- I LATE			
1.	HT 51412616	MLB, TLB, C.RUST, FSR	P.RUST, BSR, C.ROT
2.	DAS-MH-106	MLB, TLB, BSR	BLSB, C.RUST, RDM
3.	JH 13282	MLB, FSR	BLSB, RDM, BSR, C.ROT

4.	ADV 0990293	C.RUST, RDM	MLB, TLB, FSR, SDM, BSR, C.ROT
5.	DKC9159 (IN8570)	MLB, C.RUST	TLB, BLSB, FSR, SDM, RDM, BSR
6.	JH 13252	MLB, C.ROT	TLB, FSR, SDM, BSR
7.	CMH 10-555	MLB, C.RUST, BSR	TLB, FSR
8.	CMH 11-618	MLB, TLB, C.RUST, RDM, BSR	FSR, C.ROT
9.	Gold 1166	MLB, C.RUST, RDM, BSR	TLB, C.ROT
10.	CMH 12-663	C.RUST, RDM	MLB, TLB, BLSB, FSR, BSR, C.ROT
11.	HT 51412607	FSR,RDM, BSR	MLB, TLB, C.RUST, C.ROT
12.	ADV 0990296	FSR, FSR, BSR	MLB, TLB, BLSB, C.RUST, RDM
13.	ADV 1190384	C.RUST, RDM	MLB, TLB, BSR, C.ROT
14.	DKC9151 (IN8902)	MLB, C.RUST	TLB, BLSB, FSR, RDM, BSR, C.ROT
15.	NMH-1247	MLB, C.RUST, RDM	FSR, BSR, C.ROT
16.	Super-1177	MLB, C.RUST, BSR	TLB, BLSB, P.RUST, FSR, C.ROT
17.	KMH-3981	MLB, C.RUST, FSR, RDM	TLB, BLSB, BSR, C.ROT
18.	GK3118	MLB, C.RUST, FSR, BSR	TLB, FSR, RDM, C.ROT
19.	KH-2192	MLB, C.RUST, RDM	BLSB, FSR, BSR
20.	115-08-01	MLB, RDM	TLB, BLSB, C.RUST, BSR, C.ROT
21.	DMRH1308	MLB, C.RUST, RDM, BSR	TLB, FSR
B. AVT- II LATE			
22.	DKC9133	MLB, C.RUST, RDM	TLB, BLSB, C.ROT, FSR, BSR
23.	DKC9141 (IM8539)	MLB, FSR, RDM	TLB, BLSB, P.RUST, C.RUST, BSR, C.ROT
24.	IM8556	MLB, FSR, RDM	C.RUST, BSR, C.ROT
25.	PRO-392	MLB, C.RUST, RDM	TLB, BLSB, P.RUST, FSR, BSR, C.ROT
26.	DAS-MH-105	MLB, C.RUST, RDM	TLB, BLSB, FSR, BSR, C.ROT
27.	CP.999	MLB, C.RUST, FSR, RDM	TLB, BLSB, C.ROT
28.	Siri-4527	MLB, BSR	TLB, C.RUST, FSR, RDM, C.ROT
29.	PMH-1-C	MLB, FSR, RDM	TLB, BSR, C.ROT
30.	PMH-3-C	MLB, RDM, BSR	TLB, FSR, C.ROT
31.	Seedtech 2324-C	FSR, RDM	MLB, TLB, C.ROT
32.	BIO 9681-C	C.RUST, FSR, RDM, BSR	MLB, TLB, P.RUST, C.ROT

MPT 5. Disease screening of AVT I & AVT II (medium maturity) maize hybrids (Trial 76)

All the 14 genotypes tested were resistant/ moderately resistant to different diseases (Table 7). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT-I MEDIUM			
1.	BH 412084	MLB, FSR, RDM, BSR	TLB, P.RUST, C.RUST, C.ROT
2.	JH 31605	MLB, FSR, RDM	TLB, BLSB, C.ROT
3.	HT 51412182	MLB, C.RUST, RDM, BSR	TLB, FSR, C.ROT
4.	DAS-MH-306	MLB, TLB	P.RUST, RDM, C.ROT
5.	JKMH 4848	C.RUST, RDM, BSR	MLB, TLB, BLSB, FSR, C.ROT
6.	CP.201	MLB, BSR	TLB, BLSB, FSR, RDM, C.ROT
7.	GK3120	MLB, BSR	TLB, FSR, RDM, C.ROT
8.	HT 51412607	MLB, FSR, RDM, BSR	TLB, C.ROT
B. AVT-II MEDIUM			
9.	HTMH 5402	MLB, FSR, RDM	TLB, C.RUST, BSR, C.ROT
10.	DKC9144 (IM8478)	MLB, C.RUST, RDM	TLB, BLSB, P.RUST, FSR, C.ROT
11.	HM 9-C	RDM, BSR	MLB, TLB, FSR
12.	BIO 9637-C	MLB, BSR	TLB, P.RUST, FSR, C.ROT

MPT 6. Disease screening of AVT I & AVT II (early maturity & extra early maturity) maize hybrids (Trial 77 & 78)

A total of 11 genotypes out of 16 tested were resistant/ moderately resistant to different diseases (Table 8). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT-I EARLY			
1.	KDQH-49* (First Year)	FSR, RDM	MLB, BSR
B. AVT-II EARLY			
2.	Parkash-C	MLB, RDM	FSR, C.ROT
C. AVT-I EXTRA EARLY			
3.	Vivek Hybrid 43-C	C.RUST, RDM	MLB, TLB, FSR, BSR, C.ROT

MPT 7. Disease screening of specialty corn hybrids

A total of 50 genotypes out of 80 tested were resistant/ moderately resistant to different diseases (Table 9, 10, 11, and 12). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
A. Popcorn			
1.	DMRHP 1402	-	MLB, FSR, BSR, C.ROT
2.	IMHP 1540	-	MLB, C.RUST, FSR, RDM
3.	HPC 1	BSR	MLB, BLSB, FSR, C.ROT
4.	VL Popcorn-2 (Re-testing)	-	C.ROT
5.	DMRHP 1401	-	MLB, BSR
6.	SJPC1	-	MLB, BLSB, C.RUST, FSR, RDM, BSR
7.	KDPC-2 (Pop corn)	-	MLB, FSR, RDM, BSR
8.	MPC-1-15	-	BLSB, FSR, RDM, C.ROT
9.	IMHP 1535	-	BLSB, BSR
B. Sweet Corn			
10.	BSCH 6	MLB, BSR	TLB, C.RUST, FSR
11.	ADVSW-1	C.RUST, BSR	MLB, TLB
C. Baby Corn			
12.	IMHB 1538	MLB, RDM	C.RUST, BSR
13.	IMHB 1529	MLB, FSR, RDM	TLB, C.RUST, BSR
14.	Vivek MH 27 (R-Testing)	C.RUST, FSR, RDM	MLB, TLB, BSR
15.	IMHB 1537	MLB, TLB, C.RUST, RDM	BLSB, FSR, BSR
16.	DMRH 1305	MLB, C.RUST, FSR, RDM	TLB, BSR
17.	IMHB 1532	MLB, C.RUST, FSR, RDM	TLB, BSR, C.ROT
18.	GAYMH-1	RDM, BSR	MLB, FSR, C.ROT
19.	IMH 1525	C.RUST, RDM	MLB, TLB, BSR
20.	HKH 425	MLB, RDM	TLB, C.RUST, FSR
21.	ASKBH1	C.RUST, RDM	MLB, BLSB, BSR, C.ROT
22.	AH5021	MLB, RDM, BSR	C.RUST, FSR
D. QPM			
23.	AQH8(EDV)	C.RUST, RDM	MLB, TLB, FSR
24.	IIMRQPMH 1507	MLB, RDM	TLB,FSR
25.	IIMRQPMH 1502	FSR, RDM	MLB, TLB, BSR
26.	AQH9(EDV)	MLB, FSR	TLB, C.RUST, RDM, BSR
27.	IIMRQPMH 1504	MLB, C.RUST	TLB, FSR, RDM, BSR
28.	BAUQMH-18	FSR, BSR	TLB, RDM, C.ROT

29.	BQPMH 36	C.RUST, FSR	MLB, TLB, RDM, BSR, C.ROT
30.	HQPM 26	MLB, TLB	C.RUST, RDM, BSR
31.	IIMRQPMH 1510	MLB, C.RUST	TLB,FSR, RDM, BSR
32.	BQPMH 141 (EDV-DHM117)	FSR, RDM	MLB, TLB, C.RUST, BSR, C.ROT
33.	IIMRQPMH 1501	MLB, TLB, FSR, RDM, BSR	C.RUST, C.ROT
34.	IIMRQPMH 1503	MLB, BSR	TLB, FSR, RDM
35.	IIMRQPMH 1506	MLB, TLB, FSR, RDM	BSR, C.ROT
36.	IIMRQPMH 1505	C.RUST, FSR	MLB, TLB, BLSB, RDM, BSR, C.ROT
37.	VEHQ14-1	MLB, TLB, FSR	P.RUST, C.RUST, RDM, BSR, C.ROT
38.	LQPMH 215	MLB, FSR, RDM	TLB, C.ROT
39.	VEHQ15-1	MLB, TLB, C.RUST, FSR, BSR	P.RUST, RDM
40.	IIMRQPMH 1509	MLB, TLB, FSR, RDM, BSR, C.ROT	
41.	FQH 106	FSR, RDM	MLB, TLB
42.	HM8-C	MLB, C.RUST, FSR, RDM	TLB, BSR, C.ROT
43.	HM9-C	MLB, RDM	TLB, C.RUST, FSR, BSR
44.	DHM 117-C	MLB, TLB, C.RUST	FSR, RDM, BSR, C.ROT
45.	HQPM 4-C	TLB, FSR, RDM	MLB, BLSB, C.RUST, BSR, C.ROT
46.	HQPM 5-C	MLB, TLB, C.RUST	FSR, RDM, BSR, C.ROT
47.	HQPM 7-C	TLB, FSR, RDM, BSR	MLB, C.ROT

MPT 8. Screening of maize hybrids against cyst nematode (*Heterodera zeae)* at Udaipur

Three hundred eighty eight maize hybrids belonging to different maturity groups of initial and advance trials were screened (Tables 1-12) against cyst nematode (*Heterodera zeae*). Out of them, 23 entries *viz.;* OMH 14-27(CAH 153), PM15105L, QMH-1231, JH 13336, JH 13208, JH 13348, JH 13347, BIO 509, RCRMH2 (HTMR2), PM15107M, PMH-4-C, JKMH 4222, PRMH-189, KMH-3981, X35D601, HT 51412182, HTMH 5402, CMH 10-531, IMHB 1529, IMHB 1531, IIMRQPMH 1502, BQPMH 36, and HQPM 4-C exhibited moderately resistant reaction to *Heterodera zeae*.

MPT 9. Screening of station maize hybrids against cyst nematode (*Heterodera zeae)* at Udaipur

Maize hybrids/varieties/lines *i.e.* EHQ--64, Pratap QPM Hybrid--1, Pratap Hybrid Maize--3 and Pratap Makka--9 showed moderately resistant reaction to test nematode (Vide 127p).

MPT 10. Disease screening of station maize hybrids against major diseases

A total of 194 hybrids in station trial were evaluated against turcicum leaf blight, sorghum downy mildew at Mandya; turcicum leaf blight, maydis leaf blight at Bajaura; and post flowering stalk rots, Rajasthan downy mildew and curvularia leaf spot at Udaipur centre. The disease reactions are given in the table (13-17).

MPT 11. Disease screening of maize inbred lines

i. Disease screening of inbred lines against major diseases of maize (A)

A total of 54 genotypes out of 58 tested were resistant/ moderately resistant to different diseases (Table 18). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	HKI 1105	MLB, RDM, CLS	TLB, P.RUST, C.RUST, C.ROT
2.	HKI 323	MLB, CLS	TLB, P.RUST, FSR
3.	HKI Talar	MLB, FSR, RDM, CLS	TLB, P.RUST, C.ROT
4.	JCY-3-7-1-2-1-B-2-3-2-1-3-2	FSR, RDM,CLS	MLB, P. RUST, C.RUST, SDM, C.ROT
5.	EI 670	MLB, FSR	TLB, C.RUST, SDM, C.ROT, RDM, CLS
6.	EI 561	RDM, CLS	MLB, TLB, C.ROT, FSR
7.	BML 8	FSR, RDM, CLS	MLB, TLB, P.RUST, C.ROT
8.	CML 117-3-4-1-1-4-1	FSR, RDM, CLS	MLB, TLB, C.RUST, C.ROT
9.	G18seqcef 74-2-1	MLB, C.RUST, FSR	TLB, C.ROT, RDM, CLS
10.	JCY 2-2-4-1-1	MLB, FSR	TLB, RDM, CLS
11.	CM 105	MLB, FSR, RDM	P. RUST, C.RUST
12.	CM 123	MLB, C.RUST	TLB, P.RUST, C.ROT, FSR, RDM
13.	CM 128	FSR, CLS	MLB, C.RUST, C.ROT
14.	CM 149	C.RUST, RDM, CLS	MLB
15.	CUBA 377	MLB, C.RUST	TLB, RDM, CLS
16.	IIMR QPM-03-124	C.RUST, CLS	MLB, P. RUST
17.	IIMRQPM 03-113	RDM, CLS	MLB, P. RUST, C.RUST, FSR
18.	DMSC 36	C.RUST, CLS	MLB, FSR
19.	DMSC 1	RDM, CLS	TLB, P.RUST
20.	DMSC 6	C.RUST, CLS	MLB
21.	HKI 226	RDM, CLS	MLB, C.ROT, FSR

22.	HKI 31-2	MLB, C.RUST, CLS	TLB, P.RUST, C.ROT, RDM
23.	HKI-2-6-2-4(1-2)-4	FSR, RDM	MLB, TLB, C.ROT, CLS
24.	JCY2-7-1-2-1-B-1-2-1-1	MLB, C.RUST, C.ROT, RDM, CLS	TLB
25.	POBLAC61C4	C.RUST, RDM	MLB, TLB, CLS
26.	SHD-1 ER6	C.RUST, RDM	TLB, P.RUST
27.	SKV 18	C.RUST, RDM	TLB, P.RUST, C.ROT, FSR
28.	Temp.HOC 15	C.RUST, CLS	TLB, P.RUST, C.ROT, FSR
29.	CML 451Q	C.RUST, RDM	MLB, TLB, P.RUST, C.ROT, FSR, CLS
30.	CML165	C.RUST, RDM	MLB, TLB, C.ROT, FSR, CLS
31.	CML 321	C.RUST, CLS	MLB, TLB, FSR, RDM
32.	DTPWC 9-F31-1-1-3	MLB, C.RUST, CLS	FSR
33.	HKI 141	MLB, CLS	TLB, C.RUST, C.ROT, FSR, RDM
34.	KML 3-3	C.RUST, RDM	MLB, TLB, P.RUST, CLS
35.	EIQ 102	RDM, CLS	MLB, TLB, C.RUST, FSR
36.	EIQ 103	RDM, CLS	MLB, C.RUST, FSR
37.	EIQ 104	RDM, CLS	TLB, P.RUST, C.ROT,FSR

ii. Disease screening of QPM lines against different diseases of maize (B)

Disease reactions of 27 QPM lines tested (Table 19) are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	DQL 2006	-	MLB, BLSB, C.ROT
2.	DQL 2008-1	-	MLB, BLSB,C.ROT
3.	DQL 2009	C.ROT	TLB, BLSB, P.ROT
4.	DQL 2010	-	MLB, TLB, BLSB, C.ROT
5.	DQL 2015	-	MLB, TLB, BLSB, C.ROT
6.	DQL 2019	-	MLB, TLB, C.ROT
7.	DQL 2024	-	MLB, BLSB, C.ROT
8.	DQL 2025	-	MLB, BLSB, C.ROT
9.	DQL 2028	-	MLB, BLSB, C.ROT
10.	DQL 2031	-	MLB, BLSB, C.ROT
11.	DQL 2034	-	TLB, BLSB, C.ROT, P.RUST
12.	DQL 2038	MLB, C.ROT	TLB, BLSB
13.	DQL 2039	-	MLB, TLB, BLSB, C.ROT
14.	DQL 2048	-	MLB,TLB, C.ROT
15.	DQL 2054	-	TLB, C.ROT
16.	DQL 2055	-	MLB, TLB, BLSB, C.ROT
17.	DQL 2071	-	MLB, TLB, C.ROT

18.	DQL 2068	-	MLB, TLB, BLSB, C.ROT
19.	DQL 2057	-	TLB, C.ROT
20.	DQL 2046	-	MLB, BLSB, C.ROT
21.	DQL 2157	-	MLB, TLB, BLSB, C.ROT
22.	DQL 2111	-	MLB, C.ROT
23.	DQL 2113	-	MLB, TLB, C.ROT
24.	DQL 2104	MLB, C.ROT	BLSB
25.	DQL 2105-1	-	MLB, C.ROT
26.	DQL 2104	MLB, C.ROT	BLSB
27.	DQL 2105-1	-	MLB, C.ROT

iii. Disease screening of association panel (300 lines) against different diseases of maize (C)

A total of 248 genotypes out of 356 tested were resistant/ moderately resistant to different diseases (Table 20). Promising ones with MDR are given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	BML 7	MLB. C.RUST	TLB, C.ROT, P.RUST
2.	BML-45	MLB, C.RUST	TLB, C.ROT, P.RUST
3.	DML-119	MLB, C.RUST	
4.	DML-18-1	MLB, C.RUST	TLB, C.ROT
5.	DML-193	MLB, C.RUST	TLB, C.ROT
6.	DML-194	MLB, C.ROT, C.RUST	
7.	LM13 (R)-C	MLB, C.RUST	TLB, C.ROT, P.RUST
8.	DML-416	MLB, C.RUST	TLB, C.ROT
9.	DQL-614-5-4	MLB, C.RUST	C.ROT
10.	DQL-506-1	MLB, C.RUST	TLB, P.RUST
11.	DQL-297-1-3	MLB, C.RUST	C.ROT
12.	LM13 (R)-C	MLB, C.RUST	TLB, C.ROT, P.RUST
13.	UMI 1210-C	MLB, C.RUST	TLB, C.ROT
14.	DQL-299-1-1	MLB, C.RUST	TLB, C.ROT
15.	DQL-626 (ORANGE)-2-3	MLB, C.RUST	TLB, C.ROT
16.	DQL-291-4	MLB, C.RUST	TLB, C.ROT
17.	DQL-565 (V)-6-2 (Orange)	MLB, C.RUST	TLB, C.ROT
18.	DQL-669-13-3	MLB, C.RUST	TLB, C.ROT, P.RUST
19.	DMRQPM-103	MLB, C.RUST	
20.	DQL-685(Orange)-13-1	MLB, C.RUST	TLB, C.ROT

21.	DQL-602-2	MLB, C.RUST	C.ROT
22.	DQL-653-3-1	MLB, C.RUST	C.ROT
23.	UMI 1210-C	MLB, C.ROT	TLB, P.RUST
24.	CM 149	MLB, C.RUST	C.ROT, P.RUST
25.	CM 207	MLB, C.RUST	TLB, C.ROT
26.	CM 212	MLB, C.RUST	P.RUST
27.	CM 213	MLB, C.RUST	TLB, C.ROT, P.RUST
28.	CM 400	MLB, C.RUST	C.ROT
29.	CML 141	MLB, C.RUST	TLB, C.ROT
30.	CML 27	MLB, C.RUST	C.ROT
31.	CML 282	MLB, C.RUST	TLB, C.ROT
32.	CML 295BBB	MLB, C.RUST	TLB, C.ROT
33.	CML 304	MLB, C.RUST	TLB, C.ROT
34.	CML 327	MLB, C.RUST	TLB, C.ROT
35.	CML 422	MLB, C.RUST	C.ROT
36.	CML 435	MLB, C.RUST	TLB, C.ROT
37.	CML 452	MLB, C.RUST	TLB, C.ROT, P.RUST
38.	CML 51	MLB, TLB, C.RUST	C.ROT
39.	CML 202	MLB, C.RUST	C.ROT
40.	CML 271BBB	MLB, C.RUST	TLB
41.	CML 446BBB	MLB, C.RUST	C.ROT
42.	CML 484BBB	MLB, C.RUST	TLB, P.RUST
43.	CML 384	MLB, C.RUST	C.ROT
44.	CML 548 W	MLB, C.RUST	TLB, C.ROT
45.	CML 549 W	TLB, C.RUST	MLB, C.ROT
46.	CML 550 W	MLB, C.RUST	C.ROT
47.	CML 554 W	MLB, C.RUST	TLB
48.	LM 11	MLB, C.RUST	C.ROT
49.	LM 16	MLB, C.RUST	C.ROT
50.	CML 175	MLB, C.RUST	TLB, C.ROT, P.RUST
51.	UMI 1210-C	MLB, C.RUST	TLB, C.ROT, P.RUST
52.	IML12-9	MLB, C.RUST	TLB, C.ROT, P.RUST
53.	IML12-22	MLB, C.RUST	TLB, C.ROT
54.	IML12-52	MLB, C.RUST	TLB, C.ROT
55.	IML12-55	MLB, C.RUST	TLB, C.ROT, P.RUST
56.	LM13 (R)-C	MLB,C.RUST	TLB, C.ROT
57.	UMI 1210-C	MLB, C.RUST	TLB, C.ROT, P.RUST
58.	IML12-180	MLB, C.RUST	TLB, C.ROT
59.	IML12-193	MLB, C.RUST	TLB, C.ROT

60.	IML12-212	MLB, C.RUST	TLB, C.ROT, P.RUST
61.	IML12-218	MLB, C.RUST	C.ROT
62.	IML12-221	MLB, C.RUST	TLB, C.ROT
63.	IML15-288	MLB, C.RUST	TLB, C.ROT, P.RUST
64.	IML16-108	MLB, C.RUST	TLB, C.ROT, P.RUST
65.	IML16-162	MLB, C.RUST	TLB, C.ROT
66.	DML-313	MLB, C.RUST	TLB

iv. Disease screening of maize genotypes against MLB, RDM and PFSR of maize (D)

A total of 30 genotypes out of 58 tested were resistant/ moderately resistant to different diseases (Table 21). Promising ones are given below:

S. No.	Pedigree	Resistant	Moderately resistant
1.	TL02A-1184A-32-1-3-1-2-1-2-Ä-1-1	MLB, RDM	-
2.	TL02A-1184A-32-1-3-1-2-1-3-Ä-1-1	MLB, RDM	-
3.	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-1 (set one)	RDM	MLB, C.ROT
4.	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-2 (set Two)	RDM	MLB, C.ROT
5.	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-2-1	RDM	MLB
6.	AF -04-B-5779-22-3–3-2-2-1-1-2-Ä-1-1	RDM	MLB, C.ROT
7.	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2-Ä-2-1	C.ROT, RDM	MLB
8.	CM 115-4-2 -3-2-2-1-1-1-1-Ä-1-1	MLB	C.ROT, RDM
9.	CM 115-4-2 -3-2-2-1-1-1-1-Ä-2-1	MLB	C.ROT, RDM
10.	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-2-1-2-Ä-1-1	RDM	MLB
11.	V406 -2 Ä-1-1-1-1-1-Ä-2-1	RDM	MLB, C.ROT
12.	V406 -2 Ä-1-1-1-1-2 -Ä-1-1	RDM	C.ROT, RDM
13.	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-1-1	RDM	C.ROT, RDM
14.	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-2-1	MLB	RDM
15.	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-3-1	MLB	
16.	PFSR (Y)-C1-B-1Ä-1-1-1-1-2-Ä-1-1	MLB	
17.	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-2-1	RDM	MLB, C.ROT
18.	Indimyt-100-2Ä-1-1-2-1-2-Ä-1-1	RDM	C.ROT, RDM
19.	Indimyt-345-3Ä-2-1-2-Ä-1-2	RDM	C.ROT
20.	Indimyt-345-3Ä-2-1-2-Ä-1-3	RDM	C.ROT
21.	North east 4-1 (N)- Ä -1-1-2-Ä-1-3	RDM	C.ROT
22.	North east 4-3 (N)- Ä-1-1-1-Ä-1-1	RDM	MLB, C.ROT
23.	North east 4-3 (N)- Ä-1-1-1-Ä-1-3	C.ROT	MLB, RDM
24.	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-1-1	RDM	MLB, C.ROT
25.	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-2-1	MLB	RDM
26.	NEH (W) -1 (N)-1-1-Ä-1-1	RDM	C.ROT
27.	NEH (W) -1 (N)-1-2-Ä-1-1	RDM	C.ROT
28.	NEH (W) -2 (N)-1-1-Ä-1-1 (set one)	RDM	.CROT

29.	PFSR (Y)-C0 Ä-2-1-1-1-Ä-2-1	RDM	C.ROT
30.	Extra early (White) Ä -1-1-1-1Ä-1	RDM	

v. Disease screening of maize inbred lines against TLB and polysora rust at Mandya

One hundred thirty five inbred lines were evaluated by Mandya centre against TLB and P.rust. The disease reaction of the lines is given in table 22.

vi. Disease screening of maize inbred lines against SDM at Mandya

Twenty three inbred lines were evaluated by Mandya centre against SDM. The disease reaction of the lines is given in table 23.

MPT 12: Performance of the previous years' resistant station inbred lines against TLB and SDM at Mandya

Twenty one inbred lines were evaluated by Mandya centre against TLB and SDM. The disease reaction of the lines is given in (Table 24A&24B).

MPT 13. Assessment of avoidable yield losses due to major diseases of maize

Yield losses due to major diseases of maize were assessed at Dharwad (TLB), Ludhiana (C.ROT & MLB) and Udaipur (RDM & cyst nematode) centres using paired plot technique under artificially created epiphytotics (Tables 25-28). Yield losses were 18.52, 19.3, 20.3, 55.49, 36.6% due to TLB, C.Rot, MLB, RDM and cyst nematode respectively.

MPT 14. Occurrence of maize diseases in trap nursery trial

Trap nursery trial was conducted (Table 29) to find out the occurrence of different disease(s) on maize at hot spot locations i.e. Dholi, Karnal, Mandya, Udaipur, Dhaulakuan, Pantnagar, Delhi, Hyderabad, Ludhiana, Coimbatore, Dharwad, Bajaura, and Almora. Diseases recorded in these locations were MLB, TLB, BSR, BLSB, BSDM, PFSR, RDM, SDM, CLS, P. rust, brown spot and C. rust in trace to moderate intensities barring few locations. CLS and MLB were recorded increasing trend at Mandya.

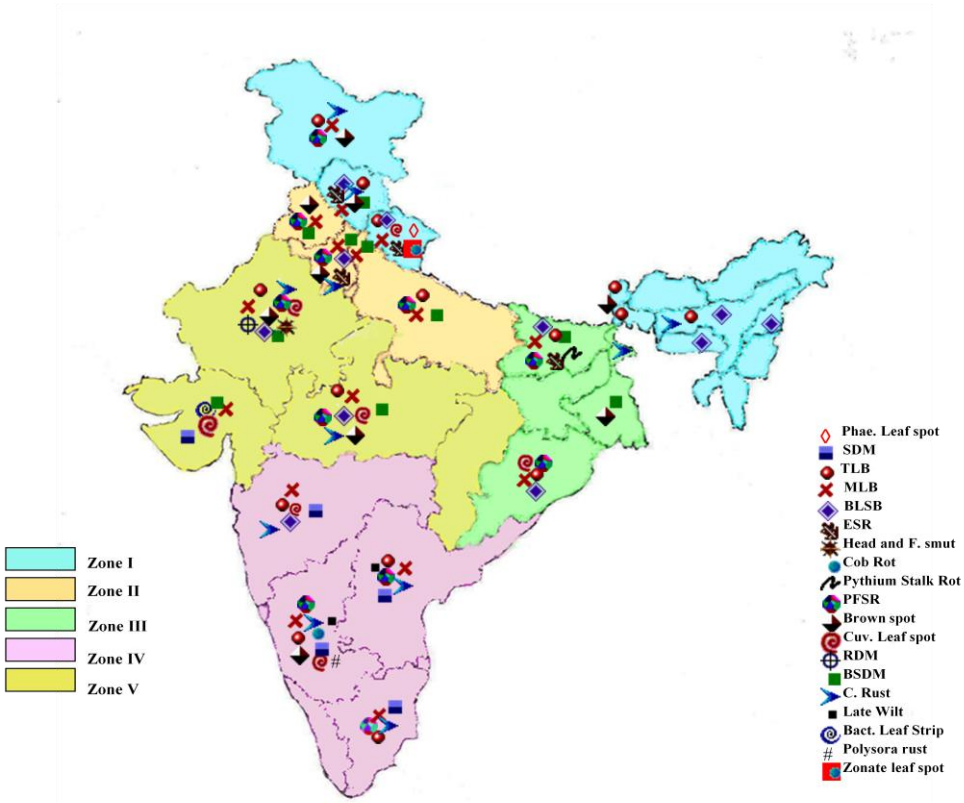
MPT 15. Survey and surveillance of maize diseases/cyst nematode

i. Occurrence of maize diseases during *Kharif* 2015

Maize disease survey and surveillance was undertaken in maize growing areas of Ludhiana (Punjab); Bajaura (Himachal Pradesh); Dharwad (Karnataka); Udaipur (Rajasthan), Coimbatore (Tamil Nadu) and Godhra (Gujarat) during the year *Kharif* 2015 (Table 30-36).

S. No.	States	Locations	Diseases	Severity
1.	Punjab	Hoshiarpur, Ludhiana, Shaheed Bhagat Singh Nagar, Jalandhar, Ropar and Gurdashpur (6)	BLSB	Moderate to high
			MLB	Low to moderate
			BSR	Low to moderate
			PFSR	Low to moderate
			CLS	Low (Ludhiana only)
			BLS	Low

			BSDM	Traces (Gurdaspur only)
2.	Himachal Pradesh	Mandi, Bilaspur and Kullu (3)	TLB	Moderate
			BLSB	Moderate to high
			MLB	Low to high
			CLS & Brown Spot	Low to moderate
3.	Karnataka	Dharwad, Haveri, Bagalkot, Kalaghatagi, Bydagi, Shiggon, Gokak, Hukkeri, Nippani, Mudhol, Soundatti, Bailhongal and Badami (13)	TLB, MLB and C. Rust	Moderate to severe
			CLS, MLB Brown Spot and Charcoal rot	Trace to moderate
4.	Gujarat	Godhra, Khanpur, Santrampur, Kadana, Dahod, Garbada, Chhotaudipur, Pavijetpur, Amirgadh, Khedbrahma, Bhiloda, Virpur, Malpur, Sonpur, Idar, Datta, Ambaji, Palanpur, Lunavada, Modasa (20)	MLB, TLB, CLS and BLSB	Low to moderate
5.	Tamil Nadu	Reddiyar Chathiram, Avalpoonthurai, Thondamuthur, Annur, Ottanchathiram and Anthiyur (6)	SDM	Severe at Thondamuthur and Annur only
			TLB	Severe at Avalpoonthurai and Anthiyur only
			PFSR	Severe at Ottanchathiram only
6.	Rajasthan	Bujhda, Fateh nagar, Kharva chanda, Nai, Mavli, Sisarama, Dabok, Kaladwas, Peepal khunt, Bheel khera, Navania, Gogunda	DM, MLB, TLB, BSDM, BLSB, CLS BS,PFSR	Low to moderate



➢ **Disease distribution map based on disease survey 2015K**

ii. Occurrence of maize cyst nematode in Rajasthan

Occurrence of maize cyst nematode was reported from maize growing areas of Ajmer, Rajsamand and Udaipur districts of Rajasthan. Maximum occurrence (100.00%) of maize cyst nematode, *H. zeae* was observed in Durga Kund village of Rajsamand district followed by Salumber (Udaipur) and Gomti (Rajsamand) villages (80.00%). Minimum occurrence of *H. zeae* was recorded in Sikhrani village of Ajmer (50.00%). On the whole, occurrence of test nematode *i.e. H. zeae* was estimated 70.83 % in surveyed areas of Rajasthan.

MPT 16. Development of IDM strategy for major diseases of maize

i. Identification of promising components for disease management in maize

Field experiments on disease management in maize were conducted at AICRPM centres during *Kharif* 2015 to identify promising components (Table 37-52). The Promising components identified are mentioned below:

S. No.	Disease	Centre	Promising Component identified	Disease control (%)	Yield increase (%)
1.	MLB	Karnal	i. Propiconazole @ 0.1 % ii. Hexaconazole @ 0.1% iii. Carbendazim @ 0.1% iv. Mancozeb @ 0.2% v. Carbendazim 12 WP + Mancozeb 63 WP @ 0.25%	33-38	18-33
			i. *R. serpentine* leaves (Sarpgandaha) @10% ii. *TH-3* @ 0.5% as seed treatment bioagent fortified FYM (1:50) and spray @ 0.5% iii. *TV-3 @* 0.5% as seed treatment bioagent fortified FYM (1:50) and spray@ 0.5%	25-34	24-61
2.	BLSB	Pantnagar	i. *Pseudomonas fluorescens as* seed treatment (4g/kg) ii. FYM(100kg/ha)- soil application +*Trichoderma harzianum* (2.5g/kg)	32	31-34
			i. Azoxystrobin @ 0.05% ii. Pencycuron @ 0.1%	34-39	30-33
		Bajaura	i. Difenconazole @ 0.1 % ii. Hexaconazole @ 0.1% iii. Validamycin @ 0.1% iv. Tebuconazole @ 0.05% v. Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	45-56	19-34
		Godhra	i. Difenconazole @ 0.1% ii. Tebuconazole @ 0.05% iii. Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% iv. Pencycuron @ 0.1%	37-63	20-44
		Ludhiana	i. Azoxystrobin @ 0.1% ii. Difenoconazole @ 0.1% iii. Trifloxystrobin + Tebuconazole @ 0.05% iv. Validamycin @ 0.1%	37-52	72-77
3.	TLB	Dharwad	i. Tebuconazole @ 0.1% ii. Difenconazole @ 0.1% iii. Trifloxystrobin 25% + Tebuconazole 50%	64-73	26-39
4.	C.RUST		i. Tebuconazole @ 0.1% ii. Difenconazole @ 0.1% iii. Trifloxystrobin25%+ Tebuconazole 50% iv. Propiconazole @ 0.1%	40-64	
5.	FSR	Udaipur	i. *Pseudomonas fluorescens @ 0.5%* as seed treatment + bioagent-fortified FYM (1:50)	53-78	32-53

			and spray@ 0.5% ii. *Trichoderma viride* @ 0.5% as seed treatment + bioagent-fortified FYM (1:50) and spray@ 0.5% iii. Propiconazole @ 0.1% spray at 40 DAS, Double dose of muriate of potash at 45 DAS		
6.	**C.ROT**	**Ludhiana**	i. *Trichoderma harzianum* (Local) ii. *Trichoderma harzianum* (Delhi isolate) iii. Propiconazole @ 0.1%	14-23	33-40
			i. Salicylic acid @ 50mg/litre as seed priming and spray @100 mg/litre water ii. Salicylic acid @ 50mg/litre as seed priming and spray @150 mg/litre water iii. Salicylic acid @ 50mg/litre as seed priming and spray @200 mg/litre water iv. Salicylic acid @ 50mg/litre as seed priming and spray @200 mg/litre water	61-69	9-20
7.	**RDM**	**Udaipur**	i. Fosetyl-al @ 0.2% seed treatment and spray @ 0.2% ii. Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25% iii. Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	66-70	84-93
			i. Salicylic acid (SA) @ 100 µg/g ii. Salicylic acid (SA) @ 150 µg/g iii. Salicylic acid (SA) @ 200 µg/g iv. Salicylic acid (SA) @ 250 µg/g	65-84	51-84
8.	**TLB**	**Bajaura**	i. Salicylic acid @ 50mg/litre as seed priming & spray @ 100 mg/litre water ii. Salicylic acid @ 50 mg/litre as seed priming & spray @ 150 mg/litre water iii. Salicylic acid @ 50 mg/litre as seed priming & spray @ 200 mg/litre water iv. Salicylic acid @ 50 mg/litre as seed priming & spray @ 250 mg/litre water	38-50	6-21
9.	**MLB**	**Ludhiana**	i. Salicylic acid @ 50mg/litre as seed priming and spray @100 mg/litre water ii. Salicylic acid @ 50mg/litre as	10-26	9-20

			seed priming and spray @150 mg/litre water iii. Salicylic acid @ 50mg/litre as seed priming and spray @200 mg/litre water iv. Salicylic acid @ 50mg/litre as seed priming and spray @200 mg/litre water		

ST- Seed treatment; FS- Foliar spray

ii. Identification of promising components for management of maize cyst nematode

Following treatments were effective in the management of maize cyst nematode (*Heterodera zeae*) (Table 53).

S. No.	Disease	Centre	Promising Component identified	Reduction in Nematode population (%)	Yield increase (%)
1.	Cyst nematode	Udaipur	*Pochonia chlamydosporia* 2 % w/w as ST + *Lantana camara* leaves @ 1 q / ha as soil application	33-39	32
			Paecilomyces lilacinus 2 % w/w + Lantana leaves at 1 q/ha	27-33	23
			Pochonia chlamydosporia 2 % w/w + aak (*Calotropis procera*) at 1 q / ha	21-27	19

MPT 17. Interaction of cyst nematode with disease and termite

i. Interaction of maize cyst nematode (*Heterodera zeae*) with *Fusarium verticilioides*

Population of maize cyst nematode, *Heterdera zeae* significantly reduced when it interacts with post flowering stalk rot caused by *Fusarium verticilioides* on maize (Table 54)

ii. Interaction of maize cyst nematode (*Heterodera zeae*) with termite

Cyst (16.33) and final nematode larvae population/100 cc soil (782.00) reduced to the tune of 32% and 30% respectively with nematode + termite interactions over nematode alone (Table 55).

B. *Rabi* 2014-15

MPT 1. Evaluation of maize genotypes in IVT (Late maturity) for various maize diseases

A total of 9 genotypes out of 40 tested were resistant/ moderately resistant to different diseases given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	CCH 4039	TLB	C.ROT, C.RUST
2.	DMRH 1423	TLB	C. ROT, C.RUST
3.	JKMH 4023	TLB	C.ROT
4.	HT 142107	TLB	C.ROT
5.	Genesis MH-102	TLB	C.ROT, C.RUST
6.	GMH 275	TLB	C.ROT
7.	PM14201L	TLB	C.ROT
8.	GK 3153	TLB	C.ROT, C.RUST
9.	VEH 14-2	TLB	C.ROT

MPT 2. Evaluation of maize genotypes in IVT (Medium maturity) for various maize diseases

A total of 11 genotypes out of 33 tested were resistant/ moderately resistant to different diseases given below:

S. No.	Genotype	Resistant	Moderately resistant
1.	BH 412067	TLB	C.ROT
2.	PM 142096M	TLB	C.ROT
3.	MMHQPM-09-2014	TLB	C.ROT, C.RUST
4.	KNMH 4010131	TLB	C.ROT
5.	DMRH 1420	TLB	C.ROT, C.RUST
6.	MMHQPM-010-2014	TLB	C.RUST
7.	BH 412065	TLB	C.ROT
8.	BH 412064	TLB	C.ROT, SDM
9.	DMRH 1422	TLB	C.ROT
10.	BH 412044	TLB	C.ROT
11.	DMRH 1421	C.ROT	TLB, C.RUST

MPT 3. Evaluation of maize genotypes in AVT-II and AVT-I (Late maturity) for various maize diseases

A total of 10 genotypes out of 39 tested were resistant/ moderately resistant to different diseases given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT-II LATE			
1.	GK 3150	TLB	C.ROT
2.	P3533	TLB	C.ROT, C.RUST
3.	Venus	TLB	C.RUST
4.	TH 2	TLB	C.ROT, C.RUST
5.	IL 8534	TLB	C.ROT
B. AVT-I LATE			
6.	HTMH 5108	TLB	C.ROT
7.	GK 3118	TLB	C.ROT

8.	CP .333	TLB	C.ROT
9.	Rasi 864	TLB	C.ROT
10.	Bio9681-C	TLB	C.RUST

MPT 4. Evaluation of maize genotypes in AVT-II and AVT-I (Medium maturity) for various maize diseases

A total of 6 genotypes out of 18 tested were resistant/ moderately resistant to different diseases given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT-II Medium			
1.	DKC 9155(IL8536)	TLB	C.ROT
2.	DKC9135(IJ 8521)	TLB	
B. AVT-I Medium			
3.	GPS MAINA	TLB	C.ROT, C.RUST
4.	DMRH1307	TLB	C.ROT
5.	IM 8303 (DKC9166)	TLB	C.ROT, C.RUST
6.	DMRH1306	TLB	C.ROT, C.RUST, SDM

MPT 5. Evaluation of maize genotypes in AVT-II, AVT-I and QPM I-II (Early maturity) for various maize diseases

A total of 4 genotypes out of 10 tested were resistant/ moderately resistant to different diseases given below:

S. No.	Genotype	Resistant	Moderately resistant
A. AVT –II-EARLY			
1.	HKH 329*	TLB	C.ROT, C.RUST
2.	HKH 330*	TLB	C.ROT, C.RUST
B. AVT –I EARLY			
QPMI-II			
3.	VEHQ 14-1-QPM1	TLB	C.ROT, C.RUST
4.	HQPM 1-C	TLB	C.ROT, C.RUST

MPT 6. Management of post flowering stalk rot at Arabhavi

Pseudomonas fluorescens @ 0.5% seed treatment and incubated FYM (1:50) recorded significantly lower disease severity of PFSR and higher yield followed by local strains of fungal antagonists @ 0.5% as seed treatment and incubated FYM (1:50).

Table 1. Disease screening of IVT (late maturity) maize hybrids (Trial 61 A)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	SRIKAR 3555	1.5	2.4	2.3	1.5	1.9	1.5-2.4	R
2	JKMH 4153	1.0	2.6	2.0	2.0	1.9	1.0-2.6	R
3	IMH1530	2.5	2.6	3.3	3.0	2.8	2.5-3.3	MR
4	ANJAN	2.5	2.8	2.8	2.0	2.5	2.0-2.5	MR
5	CCH 4039	2.5	3.2	2.5	2.0	2.6	2.0-3.2	MR
6	BRM 12-1	1.0	3.0	2.3	2.0	2.0	1.0-3.0	R
7	QMH-1232	1.0	3.2	2.8	3.0	2.5	1.0-3.2	MR
8	OMH 14-27(CAH 153)	1.5	2.4	2.5	2.0	2.1	1.5-2.5	MR
9	QMH-1025	1.5	2.8	2.8	1.5	2.1	1.5-2.8	MR
10	MFH-6-15	2.5	2.2	3.3	3.0	2.7	2.2-3.3	MR
11	PM15101L	2.0	3.2	2.3	3.0	2.6	2.0-3.2	MR
12	PM15104L	2.0	2.6	2.0	1.5	2.0	1.5-2.6	R
13	KH-440	2.5	2.6	2.5	2.0	2.4	2.0-2.6	MR
14	IMH1527	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
15	PM15102L	1.0	2.4	2.3	2.0	1.9	1.0-2.4	R
16	JKMH 4444	1.0	2.4	2.3	2.0	1.9	1.0-2.4	R
17	Super-6030	2.5	2.4	2.8	2.0	2.4	2.0-2.8	MR
18	HT 515387	1.0	2.4	2.0	2.0	1.9	1.0-2.4	R
19	GK3141	2.0	2.2	3.8	2.0	2.5	2.0-3.8	MR
20	IIMRNH 2015-9	2.5	2.6	3.0	2.0	2.5	2.0-3.0	MR
21	TMMH 840	1.5	2.4	2.3	2.5	2.2	1.5-2.5	MR
22	CP.804	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
23	BH 413053	1.5	2.4	1.8	2.0	1.9	1.5-2.4	R
24	PM15106L	2.0	2.8	2.5	2.0	2.3	2.0-2.8	MR

Contd.

Table-1 (61 A)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
25	DAS-MH-111	1.5	2.6	2.3	2.0	2.0	1.5-2.6	R
26	DKC9163 (IP8703)	2.0	3.4	2.0	2.0	2.4	2.0-3.4	MR
27	GH-1113	2.5	2.6	3.8	3.5	3.0	2.5-3.8	MR
28	KNMH-4503	2.0	1.7	1.8	2.0	1.9	1.7-2.0	R
29	EH-2371	1.5	2.4	2.0	2.5	2.1	1.5-2.5	MR
30	IIMRNH 2015-10	1.0	2.6	2.3	2.5	2.0	1.0-2.6	R
31	IIMRNH 2015-8	1.5	2.0	2.5	2.0	2.0	1.5-2.5	R
32	MAH-K14-4(CAHCM1476)	2.5	2.6	2.0	2.0	2.3	2.0-2.6	MR
33	CP.802	1.5	2.8	2.0	2.0	2.0	1.5-2.8	R
34	SMH-3902	3.5	3.0	2.5	2.0	2.8	2.0-3.5	MR
35	JH 13339	1.0	2.6	2.0	2.0	1.9	1.0-2.6	R
36	HM15310	1.5	2.4	2.3	2.5	2.2	1.5-2.5	MR
37	NMH-3662	2.0	3.2	3.3	2.0	2.6	2.0-3.2	MR
38	CMH12-661	1.5	2.2	2.0	2.0	1.9	1.5-2.2	R
39	CMH12-688	NG	1.9	2.3	1.5	1.9	1.5-2.3	R
40	CMH12-678	1.0	2.4	2.5	2.5	2.1	1.0-2.5	MR
41	DAS-MH-110	2.0	2.6	2.0	2.5	2.3	2.0-2.6	MR
42	VNR-31565	1.0	2.4	2.5	2.0	2.0	1.0-2.5	R
43	DMRH1417	2.0	3.4	2.5	2.0	2.5	2.0-3.4	MR
44	IMH1533	1.0	2.4	2.5	3.5	2.4	1.0-3.5	MR
45	JH 13341	2.0	2.6	2.5	2.0	2.3	2.0-2.6	MR
46	IMHW1541	1.5	2.0	2.3	1.5	1.8	1.5-2.3	R
47	IMH1524	2.5	2.6	2.8	3.0	2.7	2.5-3.0	MR
48	IMH1528	1.0	2.4	2.8	2.5	2.2	1.0-2.8	MR
49	PM15105L	1.5	2.6	2.5	2.5	2.3	1.5-2.6	MR
50	QMH-1231	1.0	2.8	2.8	3.0	2.4	1.0-3.0	MR

Contd.

Table-1 (61 A)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
51	MAH-K14-2(CAHCM1456)	2.0	3.4	3.0	3.0	2.9	2.0-3.4	MR
52	PMH-1-C	1.0	2.0	2.5	1.5	1.8	1.0-2.5	R
53	PMH-3-C	1.5	1.8	2.3	2.0	1.9	1.5-2.3	R
54	Seedtech 2324-C	2.5	2.4	3.5	2.5	2.7	2.4-3.5	MR
55	BIO 9681-C	2.0	3.4	3.0	2.0	2.6	2.0-3.4	MR
56	Resistant check	-	1.2	-	-	1.2	1.2	R
57	Susceptible check	4.0	3.5	4.5	5.0	4.3	3.5-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
CM 600 **(DELHI)**

Contd.

Table 2. Disease screening of IVT (late maturity) maize hybrids (Trial 61 B)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	HM15313	1.0	2.4	2.0	3.0	2.1	1.0-3.0	MR
2	MAH-K14-1(CAHCM1442)	1.0	2.4	2.0	1.5	1.7	1.0-2.4	R
3	IMH1536	1.5	2.0	2.3	3.0	2.2	1.5-3.0	MR
4	EH-2588	2.0	2.8	2.5	2.0	2.3	2.0-2.8	MR
5	JH 13336	1.0	2.6	2.3	2.0	2.0	1.0-2.6	R
6	SAFAL X-2	2.0	2.6	2.3	2.5	2.3	2.0-2.6	MR
7	IIMRNH 2015-7	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
8	ADV 7139	3.0	2.4	2.3	2.5	2.5	2.3-3.0	MR
9	JH 13346	1.0	2.4	1.8	2.5	1.9	1.0-2.5	R
10	BH 413036	2.0	2.0	2.8	2.5	2.3	2.0-2.8	MR
11	DKC9167 (IP8708)	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
12	BH 413027	2.0	2.4	2.3	2.5	2.3	2.0-2.5	MR
13	DH-296	2.0	2.0	2.3	2.0	2.0	2.0-2.3	R
14	HKH 425	1.0	2.0	2.5	1.5	1.8	1.0-2.5	R
15	RMH-748	1.0	2.0	2.3	3.0	2.0	1.0-3.0	R
16	IMH1534	2.0	2.6	2.8	2.5	2.5	2.0-2.8	MR
17	VNR-34229	1.5	3.0	2.3	2.5	2.3	1.5-3.0	MR
18	CMH12-686	1.5	2.4	2.0	2.5	2.1	1.5-2.5	MR
19	PM15103L	1.0	1.8	1.8	2.5	1.8	1.0-2.5	R
20	KNMH-4506	2.5	2.8	2.5	2.0	2.5	2.0-2.8	MR
21	BL 103	3.5	2.8	2.5	2.5	2.8	2.5-3.5	MR
22	ZASL-986	1.0	2.4	2.3	1.5	1.8	1.0-2.4	R
23	PM15108L	1.5	2.4	2.3	2.5	2.2	1.5-2.5	MR
24	HT 515169	1.0	2.4	2.3	2.5	2.0	1.0-2.5	R
25	ADV 7022	3.0	4.0	2.5	2.5	3.0	2.5-4.0	MR
26	SYN516753	2.0	2.4	2.5	2.0	2.2	2.0-2.5	MR

Table-2 (61B)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
27	KMH-2852	1.0	1.6	1.5	2.0	1.5	1.0-2.0	R
28	DKC9168 (IP8704)	2.0	3.2	2.3	2.5	2.5	2.0-3.2	MR
29	VNR-32971	2.5	2.0	1.8	2.5	2.2	1.8-2.5	MR
30	DH-295	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
31	DKC8166 (IP8571)	2.0	1.8	2.0	2.5	2.0	1.8-2.5	R
32	IMH1526	1.0	2.8	2.0	2.0	2.0	1.0-2.8	R
33	MFH-5-15	2.0	2.4	2.0	2.5	2.2	2.0-2.5	MR
34	DKC8144 (IM8479)	1.0	2.6	2.0	2.5	2.0	1.0-2.6	R
35	IIMRNH 2015-6	1.0	2.2	1.8	2.5	1.9	1.0-2.5	R
36	DKC8161 (IP8570)	1.5	2.2	2.8	2.5	2.2	1.5-2.8	MR
37	KMH-1311	1.0	2.6	2.0	2.0	1.9	1.0-2.6	R
38	JH 13208	1.0	2.6	2.3	1.5	1.8	1.0-2.6	R
39	GK3144	1.0	2.4	2.3	2.5	2.0	1.0-2.5	R
40	BH 413055	1.5	2.8	2.0	2.5	2.2	1.5-2.8	MR
41	BRM 12-6	2.0	2.2	1.8	2.0	2.0	1.8-2.2	R
42	AH7000	1.0	2.4	2.5	3.0	2.2	1.0-3.0	MR
43	OMH 14-19(CAH 1521)	1.5	3.0	2.8	2.0	2.3	1.5-3.0	MR
44	Aadi	2.5	3.2	2.3	2.5	2.6	2.3-3.2	MR
45	Googul	1.0	2.6	2.8	2.0	2.1	1.0-2.8	R
46	BL 108	1.0	2.6	2.0	2.0	1.9	1.0-2.6	R
47	MAH-K14-3(CAHCM1473)	1.0	1.8	2.5	2.0	1.8	1.0-2.5	R
48	DKC9164 (IP9002)	2.0	2.0	2.0	2.0	2.0	2.0-2.0	R
49	RMH-726	1.0	2.8	2.0	1.5	1.8	1.0-2.8	R
50	CCH 1040	1.5	4.0	2.5	2.5	2.6	1.5-4.0	MR
51	PMH-1-C	1.5	2.0	2.0	2.0	1.9	1.5-2.0	R
52	PMH-3-C	1.0	2.6	2.0	2.5	2.0	1.0-2.6	R

Contd.

Table-2 (61B)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
53	Seedtech 2324-C	3.0	2.8	2.8	2.5	2.8	2.5-3.0	MR
54	BIO 9681-C	1.5	2.6	2.8	2.5	2.3	1.5-2.8	MR
55	Resistant check	-	1.4	-	-	1.4	1.4	R
56	Susceptible check	4.5	3.4	4.5	5.0	4.4	3.4-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-1 (61 A)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	SRIKAR 3555	2.5	4.0	3.5	3.9	3.5	2.5-4.0	MS
2	JKMH 4153	1.8	3.0	3.3	2.0	2.5	1.8-3.3	MR
3	IMH1530	2.3	3.0	3.8	3.5	3.1	2.3-3.8	MS
4	ANJAN	2.0	2.0	3.0	3.5	2.6	2.0-3.5	MR
5	CCH 4039	1.8	2.0	3.3	3.6	2.7	1.8-3.6	MR
6	BRM 12-1	1.5	1.0	2.8	2.0	1.8	1.0-2.8	R
7	QMH-1232	2.3	1.0	3.3	1.5	2.0	1.0-3.3	R
8	OMH 14-27(CAH 153)	2.0	2.0	2.8	2.0	2.2	2.0-2.8	MR
9	QMH-1025	2.0	2.0	2.8	2.0	2.2	2.0-2.8	MR
10	MFH-6-15	2.0	2.0	3.3	2.5	2.5	2.0-3.3	MR
11	PM15101L	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
12	PM15104L	1.8	2.0	1.8	3.0	2.1	1.8-3.0	MR
13	KH-440	2.3	2.0	3.3	2.0	2.4	2.0-3.3	MR
14	IMH1527	2.0	2.0	2.8	3.5	2.6	2.0-3.5	MR
15	PM15102L	1.8	2.0	4.0	3.8	2.9	1.8-4.0	MR
16	JKMH 4444	1.5	2.0	3.3	2.0	2.2	1.5-3.3	MR
17	Super-6030	1.8	3.0	4.0	4.0	3.2	1.8-4.0	MS
18	HT 515387	1.5	2.0	1.8	2.0	1.8	1.5-2.0	R
19	GK3141	2.0	2.0	2.5	2.5	2.3	2.0-2.5	MR
20	IIMRNH 2015-9	1.5	2.0	2.5	1.0	1.8	1.0-2.5	R
21	TMMH 840	2.3	2.0	2.5	1.0	1.9	1.0-2.5	R
22	CP.804	2.5	3.0	3.5	4.0	3.3	2.5-4.0	MS
23	BH 413053	2.8	3.0	2.0	2.0	2.4	2.0-3.0	MR
24	PM15106L	2.0	2.0	3.5	3.5	2.8	2.0-3.5	MR

Contd.

Table-1 (61 A)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
25	DAS-MH-111	1.8	2.0	2.5	2.9	2.3	1.8-2.9	MR
26	DKC9163 (IP8703)	2.0	2.0	2.8	3.9	2.7	2.0-3.9	MR
27	GH-1113	2.0	2.0	3.8	2.0	2.5	2.0-3.8	MR
28	KNMH-4503	2.8	4.0	3.3	3.0	3.3	2.8-4.0	MS
29	EH-2371	2.0	2.0	3.0	2.2	2.3	2.0-3.0	MR
30	IIMRNH 2015-10	2.0	3.0	3.0	2.0	2.5	2.0-3.0	MR
31	IIMRNH 2015-8	1.8	2.0	3.3	2.9	2.5	1.8-3.3	MR
32	MAH-K14-4(CAHCM1476)	1.5	2.0	3.3	2.9	2.4	1.5-3.3	MR
33	CP.802	1.5	2.0	2.8	3.9	2.6	1.5-3.9	MR
34	SMH-3902	1.8	2.0	3.5	3.9	2.8	1.8-3.9	MR
35	JH 13339	1.8	2.0	3.3	2.0	2.3	1.8-3.3	MR
36	HM15310	1.5	2.0	2.0	2.0	1.9	1.5-2.0	R
37	NMH-3662	1.8	2.0	3.3	2.0	2.3	1.8-3.3	MR
38	CMH12-661	1.5	2.0	1.8	2.0	1.8	1.5-2.0	R
39	CMH12-688	1.8	2.0	3.0	2.0	2.2	1.8-3.0	MR
40	CMH12-678	2.3	2.0	3.3	3.0	2.6	2.0-3.3	MR
41	DAS-MH-110	2.0	2.0	2.5	3.0	2.4	2.0-3.0	MR
42	VNR-31565	1.5	2.0	4.0	4.0	2.9	1.5-4.0	MR
43	DMRH1417	1.8	2.0	3.3	3.5	2.6	1.8-3.5	MR
44	IMH1533	1.5	3.0	2.8	3.0	2.6	1.5-3.0	MR
45	JH 13341	2.0	2.0	3.3	2.0	2.3	2.0-3.3	MR
46	IMHW1541	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
47	IMH1524	2.3	2.0	3.3	4.5	3.0	2.0-4.5	MR
48	IMH1528	2.3	2.0	2.0	2.0	2.0	2.0-2.3	R
49	PM15105L	1.8	2.0	3.3	3.0	2.5	1.8-3.3	MR
50	QMH-1231	2.8	2.0	3.3	2.0	2.5	2.0-3.3	MR

Contd.

Table-1 (61 A)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
51	MAH-K14-2(CAHCM1456)	1.8	2.0	3.0	2.0	2.2	1.8-3.0	MR
52	PMH-1-C	1.8	2.0	3.0	2.0	2.2	1.8-3.0	MR
53	PMH-3-C	1.8	2.0	3.3	3.0	2.5	1.8-3.3	MR
54	Seedtech 2324-C	1.5	3.0	3.5	2.2	2.6	1.5-3.5	MR
55	BIO 9681-C	2.3	-	3.0	-	2.6	2.3-3.0	MR
56	Resistant check	-	2.0	1.8	2.0	1.9	1.8-2.0	R
57	Susceptible check	4.5	5.0	4.8	5.0	4.8	4.5-5.0	MS

Resistant Check : TLB:- Dhiari **(ALMORA); NITHYASHREE (MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** 219J **(MANDYA)** CM202 **(DHARWAD)**

Contd.

Table-2 (61B)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	HM15313	2.3	2.0	2.8	3.5	2.6	2.0-3.5	MR
2	MAH-K14-1(CAHCM1442)	1.8	2.0	2.8	2.0	2.1	1.8-2.8	MR
3	IMH1536	1.8	2.0	3.3	2.9	2.5	1.8-3.3	MR
4	EH-2588	2.0	2.0	2.8	3.0	2.5	2.0-3.0	MR
5	JH 13336	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
6	SAFAL X-2	1.8	2.0	3.3	3.9	2.7	1.8-3.9	MR
7	IIMRNH 2015-7	1.8	2.0	2.0	2.0	1.9	1.8-2.0	R
8	ADV 7139	2.0	3.0	2.8	3.5	2.8	2.0-3.5	MR
9	JH 13346	2.0	2.0	2.5	1.0	1.9	1.0-2.5	R
10	BH 413036	1.8	2.0	3.3	3.6	2.7	1.8-3.6	MR
11	DKC9167 (IP8708)	1.5	2.0	2.5	3.0	2.3	1.5-3.0	MR
12	BH 413027	2.3	2.0	3.0	3.5	2.7	2.0-3.5	MR
13	DH-296	1.5	2.0	3.0	2.7	2.3	1.5-3.0	MR
14	HKH 425	1.8	2.0	2.8	2.7	2.3	1.8-2.8	MR
15	RMH-748	1.8	2.0	2.0	2.0	1.9	1.8-2.0	R
16	IMH1534	2.0	2.0	1.8	3.0	2.2	1.8-3.0	MR
17	VNR-34229	2.3	3.0	3.5	3.0	2.9	2.3-3.5	MR
18	CMH12-686	2.8	1.0	2.0	2.0	1.9	1.0-2.8	R
19	PM15103L	1.5	2.0	3.0	2.0	2.1	1.5-3.0	MR
20	KNMH-4506	1.8	4.0	4.3	3.5	3.4	1.8-4.3	MS
21	BL 103	2.0	3.0	3.5	4.0	3.1	2.0-4.0	MS
22	ZASL-986	1.8	3.0	3.5	3.7	3.0	1.8-3.7	MR
23	PM15108L	2.0	3.0	1.3	4.0	2.6	1.3-4.0	MR
24	HT 515169	1.5	2.0	2.0	2.0	1.9	1.5-2.0	R
25	ADV 7022	1.8	2.0	3.3	3.0	2.5	1.8-3.3	MR
26	SYN516753	2.3	2.0	2.8	3.2	2.6	2.0-3.2	MR

Table-2 (61B)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
27	KMH-2852	2.0	2.0	3.5	4.0	2.9	2.0-4.0	MR
28	DKC9168 (IP8704)	2.0	1.0	2.8	3.0	2.2	1.0-3.0	MR
29	VNR-32971	1.8	2.0	3.0	3.0	2.4	1.8-3.0	MR
30	DH-295	2.0	1.0	1.8	1.0	1.5	1.0-2.0	R
31	DKC8166 (IP8571)	1.5	2.0	3.0	2.0	2.1	1.5-3.0	MR
32	IMH1526	2.3	2.0	3.3	3.5	2.8	2.0-3.5	MR
33	MFH-5-15	1.5	2.0	2.5	2.0	2.0	1.5-2.5	R
34	DKC8144 (IM8479)	1.8	2.0	2.0	2.0	1.9	1.8-2.0	R
35	IIMRNH 2015-6	2.0	1.0	2.0	2.0	1.8	1.0-2.0	R
36	DKC8161 (IP8570)	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
37	KMH-1311	1.8	2.0	2.5	2.0	2.1	1.8-2.5	MR
38	JH 13208	2.8	3.0	4.0	4.5	3.6	2.8-4.5	MR
39	GK3144	2.0	3.0	2.0	2.0	2.3	2.0-3.0	MR
40	BH 413055	2.3	2.0	3.3	2.0	2.4	2.0-3.3	MR
41	BRM 12-6	1.8	1.0	1.8	2.0	1.6	1.0-2.0	R
42	AH7000	1.5	2.0	4.8	3.0	2.8	1.5-4.8	MR
43	OMH 14-19(CAH 1521)	2.0	2.0	2.8	2.0	2.2	2.0-2.8	MR
44	Aadi	1.5	2.0	4.5	1.0	2.3	1.0-4.5	MR
45	Googul	2.5	3.0	3.3	3.7	3.1	2.5-3.7	MR
46	BL 108	2.3	1.0	3.0	3.2	2.4	1.0-3.2	MR
47	MAH-K14-3(CAHCM1473)	1.8	1.0	1.8	2.0	1.6	1.0-1.8	R
48	DKC9164 (IP9002)	1.8	2.0	3.0	3.5	2.6	1.8-3.5	MR
49	RMH-726	1.8	2.0	3.0	1.7	2.1	1.7-3.0	MR
50	CCH 1040	2.0	1.0	2.0	2.0	1.8	1.0-2.0	R
51	PMH-1-C	2.3	2.0	2.8	2.0	2.3	2.0-2.8	MR
52	PMH-3-C	2.0	2.0	3.3	2.5	2.5	2.0-3.3	MR

Contd.

Table-2 (61B)

Turcium leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
53	Seedtech 2324-C	1.8	2.0	3.5	3.0	2.6	1.8-3.5	MR
54	BIO 9681-C	1.8	2.0	2.8	2.5	2.3	1.8-2.8	MR
55	Resistant check	-	2.0	1.3	2.0	1.8	1.3-2.0	R
56	Susceptible check	4.3	4.0	4.3	5.0	4.4	4.0-5.0	S

Resistant Check : TLB:- Dhiari **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);**CM 202 **(MANDYA)** CM202 **(DHARWAD)**

Contd.

Table-1 (61 A)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	SRIKAR 3555	4.3	0.5	3.0	1.9	3.3	3.1	1.9-4.3	MS
2	JKMH 4153	2.8	1.5	3.0	2.0	3.9	2.9	2.0-3.9	MR
3	IMH1530	4.8	0.0	3.0	1.9	4.9	3.6	1.9-4.9	MS
4	ANJAN	4.5	0.0	3.5	2.0	3.2	3.3	2.0-4.5	MS
5	CCH 4039	3.5	1.0	3.0	1.6	3.5	2.9	1.6-3.5	MR
6	BRM 12-1	4.3	0.5	3.0	1.9	2.7	3.0	1.9-4.3	MR
7	QMH-1232	3.3	1.5	3.5	1.9	4.0	3.2	1.9-4.0	MS
8	OMH 14-27(CAH 153)	4.5	0.0	3.0	1.9	2.8	3.0	1.9-4.5	MR
9	QMH-1025	3.5	0.0	3.0	2.4	4.9	3.5	2.4-4.9	MS
10	MFH-6-15	3.8	0.5	3.5	1.9	4.4	3.4	1.9-4.4	MS
11	PM15101L	2.3	0.0	3.0	1.6	3.1	2.5	1.6-3.1	MR
12	PM15104L	3.8	0.0	2.5	1.8	3.5	2.9	1.8-3.8	MR
13	KH-440	3.8	0.5	3.0	1.7	2.8	2.8	1.7-3.8	MR
14	IMH1527	4.0	0.0	3.0	1.8	4.3	3.3	1.8-4.3	MS
15	PM15102L	3.8	0.5	3.5	2.2	4.1	3.4	2.2-4.1	MS
16	JKMH 4444	3.3	0.0	3.0	2.0	2.8	2.8	2.0-3.3	MR
17	Super-6030	4.8	0.5	3.0	1.9	1.9	2.9	1.9-4.8	MR
18	HT 515387	3.8	1.5	2.5	1.8	2.4	2.6	1.8-3.8	MR
19	GK3141	4.0	0.5	4.0	1.9	2.4	3.1	1.9-4.0	MS
20	IIMRNH 2015-9	4.3	0.0	3.5	1.9	3.1	3.2	1.9-4.3	MS
21	TMMH 840	4.3	1.5	3.0	1.9	2.6	2.9	1.9-4.3	MR
22	CP.804	4.0	0.5	3.0	1.7	4.4	3.3	1.7-4.4	MS
23	BH 413053	4.3	1.0	3.0	2.3	4.2	3.4	2.3-4.3	MS
24	PM15106L	3.8	0.0	3.0	2.1	2.2	2.8	2.1-3.8	MR

Contd.

Table-1 (61 A)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
25	DAS-MH-111	3.5	1.0	3.0	2.0	3.4	3.0	2.0-3.5	MR
26	DKC9163 (IP8703)	3.3	0.0	3.0	1.9	3.1	2.8	1.9-3.3	MR
27	GH-1113	4.5	0.0	4.0	1.7	3.7	3.5	1.7-4.5	MS
28	KNMH-4503	4.0	0.0	3.0	1.9	3.6	3.1	1.9-4.0	MS
29	EH-2371	3.5	0.0	3.5	1.7	3.4	3.0	1.7-3.5	MR
30	IIMRNH 2015-10	2.5	0.5	3.0	2.1	4.1	2.9	2.1-4.1	MR
31	IIMRNH 2015-8	3.5	0.5	3.0	2.0	3.8	3.1	2.0-3.8	MS
32	MAH-K14-4(CAHCM1476)	4.0	1.0	3.0	1.6	3.0	2.9	1.6-4.0	MR
33	CP.802	3.8	1.0	3.0	1.6	3.6	3.0	1.6-3.8	MR
34	SMH-3902	3.8	0.5	3.0	1.5	3.0	2.8	1.5-3.8	MR
35	JH 13339	2.3	0.0	3.0	1.4	4.1	2.7	1.4-4.1	MR
36	HM15310	4.3	0.0	3.0	1.5	4.4	3.3	1.5-4.4	MS
37	NMH-3662	4.3	0.0	3.0	1.6	3.6	3.1	1.6-4.3	MS
38	CMH12-661	4.3	0.5	2.5	1.5	4.4	3.2	1.5-4.4	MS
39	CMH12-688	3.8	0.0	3.0	1.9	3.7	3.0	1.9-3.8	MR
40	CMH12-678	3.8	1.0	3.0	1.8	3.5	3.0	1.8-3.8	MR
41	DAS-MH-110	4.0	0.5	3.0	1.4	4.7	3.3	1.4-4.7	MS
42	VNR-31565	3.8	0.5	2.0	1.7	3.4	2.7	1.7-3.8	MR
43	DMRH1417	4.3	1.0	2.5	1.7	3.8	3.0	1.7-4.3	MR
44	IMH1533	4.5	1.0	4.0	2.0	3.3	3.5	2.0-4.5	MS
45	JH 13341	3.8	0.0	3.0	1.4	3.6	2.9	1.4-3.8	MR
46	IMHW1541	4.5	0.5	2.5	2.0	3.7	3.2	2.0-4.5	MS
47	IMH1524	4.5	1.0	3.0	1.7	3.9	3.3	1.7-4.5	MS
48	IMH1528	4.5	1.0	3.0	1.7	3.8	3.3	1.7-4.5	MS
49	PM15105L	4.5	0.0	3.0	1.9	3.4	3.2	1.9-4.5	MS
50	QMH-1231	3.8	0.0	3.5	2.0	4.3	3.4	2.0-4.3	MS

Contd.

Table-1 (61 A)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
51	MAH-K14-2(CAHCM1456)	4.3	0.5	3.5	1.9	3.8	3.4	1.9-4.3	MS
52	PMH-1-C	3.8	0.5	3.0	1.7	2.6	2.8	1.7-3.8	MR
53	PMH-3-C	3.8	0.0	2.5	1.6	3.9	2.9	1.6-3.9	MR
54	Seedtech 2324-C	3.5	1.0	3.5	1.7	4.2	3.2	1.7-4.2	MS
55	BIO 9681-C	4.0	-	3.0	1.8	3.9	3.2	1.8-4.0	MS
56	Resistant check	2.8	-	-	1.5	-	2.1	1.5-2.8	MR
57	Susceptible check	4.8	1.0	4.0	3.2	4.9	4.0	3.2-4.8	MS

Resistant Check : BLSB:- HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- AMAR **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM501 **(DELHI);**
HKI 1105 x HKI 536CBT **(KARNAL)**

* Data not considered due to low disease pressure

Contd.

Table-2 (61B)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	HM15313	3.5	0.5	3.0	1.9	4.3	3.2	1.9-4.3	MS
2	MAH-K14-1(CAHCM1442)	3.5	1.0	3.5	1.3	3.3	2.9	1.3-3.5	MR
3	IMH1536	4.3	0.0	3.5	1.6	4.7	3.5	1.6-4.7	MS
4	EH-2588	4.5	0.0	3.5	2.2	3.3	3.4	2.2-4.5	MS
5	JH 13336	3.8	0.0	2.5	2.2	2.2	2.7	2.2-3.8	MR
6	SAFAL X-2	4.3	0.0	3.0	2.1	4.5	3.5	2.1-4.3	MS
7	IIMRNH 2015-7	4.5	0.0	3.0	2.1	4.6	3.6	2.1-4.6	MS
8	ADV 7139	4.0	0.0	3.0	2.0	4.6	3.4	2.0-4.6	MS
9	JH 13346	3.3	0.0	3.0	2.3	4.3	3.2	2.3-4.3	MS
10	BH 413036	3.3	0.0	3.0	2.1	4.2	3.1	2.1-4.2	MS
11	DKC9167 (IP8708)	3.8	1.0	3.0	2.0	3.3	3.0	2.0-3.8	MR
12	BH 413027	3.8	0.0	3.0	2.0	3.3	3.0	2.0-3.8	MR
13	DH-296	4.3	0.0	3.5	2.2	2.1	3.0	2.1-4.3	MR
14	HKH 425	4.0	0.0	3.0	2.2	4.3	3.4	2.2-4.3	MS
15	RMH-748	4.0	1.0	3.0	2.1	4.3	3.4	2.1-4.3	MS
16	IMH1534	4.0	0.0	3.5	2.2	4.5	3.6	2.2-4.5	MS
17	VNR-34229	3.8	0.0	3.5	1.8	4.1	3.3	1.8-4.1	MS
18	CMH12-686	4.3	0.0	3.5	2.0	4.5	3.6	2.0-4.5	MS
19	PM15103L	4.0	0.0	3.0	2.0	3.3	3.0	2.0-4.0	MR
20	KNMH-4506	4.8	0.5	3.0	2.2	4.2	3.5	2.2-4.8	MS
21	BL 103	4.3	0.0	3.0	2.5	4.1	3.5	2.5-4.3	MS
22	ZASL-986	4.0	0.0	3.5	1.7	4.4	3.4	1.7-4.4	MS
23	PM15108L	4.5	0.5	3.5	2.3	3.3	3.4	2.3-4.5	MS
24	HT 515169	4.0	0.0	3.0	1.8	3.6	3.1	1.8-4.0	MS
25	ADV 7022	4.0	0.0	3.0	2.1	4.3	3.4	2.1-4.3	MS
26	SYN516753	3.8	0.0	3.0	2.1	3.2	3.0	2.1-3.8	MR

Table-2 (61B)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
27	KMH-2852	4.3	0.0	3.5	2.2	4.7	3.7	2.2-4.7	MS
28	DKC9168 (IP8704)	4.0	0.0	3.0	2.2	4.4	3.4	2.2-4.4	MS
29	VNR-32971	4.3	0.5	3.0	1.4	4.1	3.2	1.4-4.3	MS
30	DH-295	4.8	0.0	3.0	2.4	3.2	3.3	2.4-4.8	MS
31	DKC8166 (IP8571)	4.0	0.0	3.0	2.0	2.3	2.8	2.0-4.0	MR
32	IMH1526	3.0	0.5	3.0	2.4	4.4	3.2	2.4-4.4	MS
33	MFH-5-15	4.8	0.0	3.5	1.6	4.6	3.6	1.6-4.8	MS
34	DKC8144 (IM8479)	4.0	0.0	3.0	2.0	3.4	3.1	2.0-4.0	MS
35	IIMRNH 2015-6	2.8	0.0	3.0	2.4	3.6	2.9	2.4-3.6	MR
36	DKC8161 (IP8570)	3.8	0.5	3.5	2.0	2.8	3.0	2.0-3.8	MR
37	KMH-1311	3.5	0.0	3.0	2.4	3.2	3.0	2.4-3.5	MR
38	JH 13208	4.0	0.0	3.0	2.0	3.1	3.0	2.0-4.0	MR
39	GK3144	3.5	0.0	3.0	1.6	3.3	2.9	1.6-3.5	MR
40	BH 413055	3.8	0.0	3.0	1.6	4.7	3.3	1.6-4.7	MS
41	BRM 12-6	4.5	0.5	3.0	2.4	3.1	3.3	2.4-4.5	MS
42	AH7000	4.5	0.0	3.5	2.1	3.1	3.3	2.1-4.5	MS
43	OMH 14-19(CAH 1521)	4.5	0.5	3.5	2.4	2.6	3.3	2.4-4.5	MS
44	Aadi	4.5	0.0	3.5	2.4	4.3	3.7	2.4-4.5	MS
45	Googul	4.3	0.0	3.0	2.4	4.3	3.5	2.4-4.3	MS
46	BL 108	4.3	0.0	3.0	2.2	4.3	3.4	2.2-4.3	MS
47	MAH-K14-3(CAHCM1473)	4.3	0.0	3.0	2.4	4.3	3.5	2.4-4.3	MS
48	DKC9164 (IP9002)	4.0	0.0	3.0	2.4	4.6	3.5	2.4-4.6	MS
49	RMH-726	4.5	0.0	3.0	2.0	4.3	3.5	2.0-4.5	MS
50	CCH 1040	4.0	0.0	3.0	2.4	4.6	3.5	2.4-4.6	MS
51	PMH-1-C	4.3	0.0	3.0	2.2	4.3	3.4	2.2-4.3	MS
52	PMH-3-C	3.3	0.0	3.0	2.4	3.9	3.1	2.4-3.9	MS

Contd.

Table-2 (61B)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
53	Seedtech 2324-C	4.0	0.0	3.0	2.0	4.3	3.3	2.0-4.3	MS
54	BIO 9681-C	4.0	0.0	4.0	2.4	4.6	3.8	2.4-4.6	MS
55	Resistant check	3.0	-	-	1.6	-	2.3	1.6-3.0	MR
56	Susceptible check	4.8	0.5	4.0	3.4	4.9	4.1	3.4-4.8	MS

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM501 **(DELHI);** P3441 **(BHUBNESWAR);** HKI 1105+ HKI 536CBT **(KARNAL)**

* Data not considered due to low disease pressure

Contd.

Table-1 (61 A)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
1	SRIKAR 3555	2.3	MS	1.0	R	4.3	3.8	4.3	4.1	3.8-4.3	MR
2	JKMH 4153	2.8	MS	1.0	R	4.4	4.5	4.9	4.6	4.4-4.9	MR
3	IMH1530	4.3	HS	2.0	MR	5.3	3.5	4.2	4.3	3.5-5.3	MR
4	ANJAN	4.8	HS	2.0	MR	5.0	3.8	4.8	4.5	3.8-5.0	MR
5	CCH 4039	3.0	MS	1.0	R	4.1	3.2	5.8	4.4	3.2-5.8	MR
6	BRM 12-1	3.8	S	1.0	R	4.1	4.1	5.4	4.5	4.1-5.4	MR
7	QMH-1232	3.0	MS	1.5	MR	5.0	3.1	5.8	4.6	3.1-5.8	MR
8	OMH 14-27(CAH 153)	3.0	MS	1.0	R	5.3	2.7	6.3	4.8	2.7-6.3	MR
9	QMH-1025	1.8	MR	3.5	S	4.4	3.5	5.8	4.6	3.5-5.8	MR
10	MFH-6-15	2.5	MS	1.0	R	6.6	4.4	5.9	5.6	4.4-6.6	MS
11	PM15101L	3.0	MS	1.0	R	3.8	3.4	5.0	4.1	3.4-5.0	MR
12	PM15104L	3.3	S	1.0	R	3.8	3.3	5.8	4.3	3.3-5.8	MR
13	KH-440	2.8	MS	3.0	MS	3.7	3.6	5.4	4.2	3.6-5.4	MR
14	IMH1527	3.0	MS	4.0	S	5.8	4.6	5.8	5.4	4.6-5.8	MS
15	PM15102L	2.3	MS	2.0	MR	3.5	2.1	5.5	3.7	2.1-5.5	MR
16	JKMH 4444	2.8	MS	2.0	MR	5.9	3.5	5.4	4.9	3.5-5.9	MR
17	Super-6030	4.5	HS	3.2	S	4.2	2.6	5.3	4.0	2.6-5.3	MR
18	HT 515387	3.3	S	1.0	R	3.1	3.6	6.5	4.4	3.1-6.5	MR
19	GK3141	4.3	HS	2.0	MR	5.4	3.7	3.3	4.1	3.3-5.4	MR
20	IIMRNH 2015-9	2.8	MS	3.0	MS	4.8	3.8	4.9	4.5	3.8-4.9	MR
21	TMMH 840	2.8	MS	1.0	R	3.0	3.9	4.7	3.9	3.0-4.7	MR
22	CP.804	1.8	MR	3.0	MS	5.5	3.8	6.0	5.1	3.8-6.0	MS
23	BH 413053	1.8	MR	2.0	MR	4.2	3.6	6.3	4.7	3.6-6.3	MR
24	PM15106L	2.3	MS	1.0	R	2.8	3.3	5.9	4.0	2.8-5.9	MR

Contd.

Table-1 (61 A)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
25	DAS-MH-111	3.3	S	1.0	R	4.4	3.2	7.0	4.9	3.2-7.0	MR
26	DKC9163 (IP8703)	3.3	S	1.0	R	3.9	2.2	6.3	4.1	3.2-7.0	MR
27	GH-1113	4.5	HS	1.0	R	4.5	3.3	5.8	4.5	3.3-5.8	MR
28	KNMH-4503	4.3	HS	4.0	S	3.3	2.7	5.8	3.9	2.7-5.8	MR
29	EH-2371	1.8	MR	4.5	HS	4.9	2.8	4.9	4.2	2.8-4.9	MR
30	IIMRNH 2015-10	2.0	MR	2.9	MS	4.5	2.9	5.6	4.3	2.9-5.6	MR
31	IIMRNH 2015-8	4.8	HS	2.2	MS	3.7	4.1	6.0	4.6	3.7-6.0	MR
32	MAH-K14-4(CAHCM1476)	2.8	MS	1.0	R	3.8	4.2	5.6	4.5	3.8-5.6	MR
33	CP.802	2.3	MS	3.0	MS	3.9	3.6	5.2	4.2	3.6-5.2	MR
34	SMH-3902	2.3	MS	2.7	MS	4.0	3.0	6.2	4.4	3.0-6.2	MR
35	JH 13339	4.3	HS	3.5	S	3.6	3.0	5.3	4.0	3.0-5.3	MR
36	HM15310	1.8	MR	1.0	R	6.1	3.6	5.6	5.1	3.6-6.1	MS
37	NMH-3662	2.8	MS	1.0	R	6.0	3.9	6.0	5.3	3.9-6.0	MS
38	CMH12-661	2.0	MR	2.0	MR	6.3	3.0	4.2	4.5	3.0-6.3	MR
39	CMH12-688	2.3	MS	1.0	R	5.2	3.8	1.6	3.5	1.6-5.2	MR
40	CMH12-678	2.3	MS	2.2	MS	4.8	3.5	1.8	3.4	1.8-4.8	MR
41	DAS-MH-110	2.8	MS	1.0	R	4.3	3.9	6.0	4.7	3.9-6.0	MR
42	VNR-31565	2.0	MR	1.0	R	5.6	3.6	5.3	4.8	3.6-5.6	MR
43	DMRH1417	2.3	MS	3.0	MS	5.3	4.7	5.4	5.1	4.7-5.3	MS
44	IMH1533	4.3	HS	1.0	R	6.7	4.0	4.9	5.2	4.0-6.7	MS
45	JH 13341	2.8	MS	3.0	MS	4.2	3.4	1.7	3.1	1.7-4.2	MR
46	IMHW1541	2.3	MS	4.0	S	2.9	3.7	5.1	3.9	2.9-5.1	MR
47	IMH1524	2.0	MR	1.0	R	6.3	3.0	7.2	5.5	3.0-7.2	MS
48	IMH1528	3.5	S	2.2	MS	3.9	3.7	1.8	3.1	1.8-3.9	MR
49	PM15105L	3.3	S	1.0	R	4.1	3.1	6.1	4.4	3.1-6.1	MR
50	QMH-1231	4.8	HS	3.0	MS	4.6	3.6	6.6	4.9	3.6-6.6	MR

Contd.

Table-1 (61 A)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
51	MAH-K14-2(CAHCM1456)	2.3	MS	1.0	R	5.4	3.9	6.4	5.2	3.9-6.4	MS
52	PMH-1-C	2.8	MS	1.0	R	5.0	3.2	5.4	4.5	3.2-5.4	MR
53	PMH-3-C	3.8	S	3.0	MS	5.2	3.6	2.6	3.8	2.6-5.2	MR
54	Seedtech 2324-C	3.3	S	1.0	R	4.4	3.5	5.2	4.4	3.5-5.2	MR
55	BIO 9681-C	4.3	HS	-	-	5.3	3.6	-	4.5	3.6-5.3	MR
56	Resistant check	2.3	MS	2.0	MR	-	3.8	1.0	2.4	1.0-3.8	R
57	Susceptible check	3.5	S	4.0	S	7.4	6.3	7.4	7.0	6.3-7.4	MS

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C.rust:- CI 4 (DHARWAD); C. ROT:- JCY 2-7 (HYDERABAD)
CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD)
C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE)**

Contd.

Table-2 (61B)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
1	HM15313	2.0	MR	1.0	R	5.6	4.6	6.7	5.6	4.6-6.7	MS
2	MAH-K14-1(CAHCM1442)	3.5	S	3.0	MS	2.8	3.7	5.9	4.1	2.8-5.9	MR
3	IMH1536	3.3	S	2.0	MR	5.4	3.8	6.9	5.4	3.8-6.9	MS
4	EH-2588	3.3	S	1.0	R	6.8	3.4	6.3	5.5	3.4-6.8	MS
5	JH 13336	4.8	HS	3.0	MS	5.5	4.1	2.8	4.1	2.8-5.5	MR
6	SAFAL X-2	3.8	S	3.0	MS	5.8	4.0	4.9	4.9	4.0-5.9	MR
7	IIMRNH 2015-7	3.3	S	1.0	R	6.4	4.7	4.4	5.2	4.4-6.4	MS
8	ADV 7139	3.8	S	3.0	MS	4.2	3.4	5.4	4.3	3.4-5.4	MR
9	JH 13346	4.3	HS	1.0	R	4.7	4.5	4.9	4.7	4.5-4.9	MR
10	BH 413036	3.3	S	2.6	MS	4.5	3.6	1.8	3.3	1.8-4.5	MR
11	DKC9167 (IP8708)	3.8	S	3.0	MS	4.2	3.3	6.1	4.5	3.3-6.1	MR
12	BH 413027	3.3	S	3.0	MS	5.4	3.8	6.5	5.2	3.8-6.5	MS
13	DH-296	3.8	S	2.0	MR	4.4	4.8	6.3	5.2	4.4-4.8	MS
14	HKH 425	2.8	MS	3.0	MS	5.8	4.6	5.3	5.2	4.6-5.3	MS
15	RMH-748	1.8	MR	1.0	R	5.4	4.8	8.0	6.1	4.8-8.0	MS
16	IMH1534	1.8	MR	3.2	S	6.1	4.1	5.5	5.2	4.1-6.1	MS
17	VNR-34229	2.0	MR	1.0	R	5.6	4.7	5.5	5.2	4.7-5.6	MS
18	CMH12-686	4.3	HS	1.0	R	6.0	3.6	5.9	5.2	3.6-6.0	MS
19	PM15103L	2.5	MS	1.0	R	6.5	4.3	5.8	5.5	4.3-6.5	MS
20	KNMH-4506	2.0	MR	2.0	MR	4.5	4.2	7.0	5.2	4.2-7.0	MS
21	BL 103	1.5	MR	2.0	MR	4.6	4.7	7.0	5.4	4.6-7.0	MS
22	ZASL-986	2.0	MR	1.0	R	4.9	3.9	6.6	5.1	3.9-6.6	MS
23	PM15108L	4.8	HS	1.0	R	5.6	4.1	6.0	5.2	4.1-6.0	MS
24	HT 515169	2.3	MS	1.0	R	5.2	3.2	5.7	4.7	3.2-5.7	MR
25	ADV 7022	3.3	S	1.0	R	4.7	3.7	5.2	4.5	3.7-5.2	MR
26	SYN516753	1.8	MR	3.0	MS	4.0	3.8	5.6	4.5	3.8-5.6	MR

Table-2 (61B)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
27	KMH-2852	3.3	S	1.0	R	5.1	4.4	5.4	5.0	4.4-5.4	MR
28	DKC9168 (IP8704)	4.8	HS	1.0	R	4.6	3.6	5.4	4.5	3.6-5.4	MR
29	VNR-32971	3.8	MS	1.5	MR	4.0	4.3	6.0	4.8	4.0-6.0	MR
30	DH-295	4.5	HS	1.0	R	4.2	3.4	5.1	4.2	3.4-5.1	MR
31	DKC8166 (IP8571)	2.0	MR	1.0	R	5.0	3.8	4.2	4.3	3.8-5.0	MR
32	IMH1526	3.3	MS	2.0	MR	6.9	4.6	6.3	5.9	4.6-6.9	MS
33	MFH-5-15	1.8	MR	1.0	R	6.9	3.7	6.8	5.8	3.7-6.9	MS
34	DKC8144 (IM8479)	2.8	MS	1.0	R	4.5	3.4	6.2	4.7	3.4-6.2	MR
35	IIMRNH 2015-6	1.8	MR	3.2	S	6.9	4.2	5.2	5.4	3.6-5.7	MS
36	DKC8161 (IP8570)	2.3	MS	1.0	R	4.2	3.6	5.7	4.5	3.6-5.7	MR
37	KMH-1311	2.0	MR	1.0	R	5.3	3.8	5.8	5.0	3.8-5.8	MR
38	JH 13208	3.0	MS	4.0	S	4.8	3.7	6.6	5.0	3.7-6.6	MR
39	GK3144	3.3	S	3.0	MS	6.7	4.4	6.0	5.7	4.4-6.7	MS
40	BH 413055	4.8	HS	3.0	MS	3.8	4.3	4.3	4.1	3.8-4.3	MR
41	BRM 12-6	3.5	S	2.0	MR	4.5	4.3	6.2	5.0	4.3-6.2	MR
42	AH7000	4.5	HS	1.0	R	4.7	4.3	6.3	5.1	4.3-6.3	MS
43	OMH 14-19(CAH 1521)	3.3	S	1.0	R	3.6	4.2	6.3	4.7	3.6-6.3	MR
44	Aadi	4.5	HS	1.0	R	4.3	4.7	5.4	4.8	4.3-5.4	MR
45	Googul	2.8	MS	1.0	R	6.5	4.4	2.1	4.3	2.1-6.5	MR
46	BL 108	3.8	S	1.0	R	5.9	4.7	6.1	5.6	4.7-6.1	MS
47	MAH-K14-3(CAHCM1473)	3.0	MS	1.0	R	4.9	3.9	6.7	5.2	3.9-6.7	MS
48	DKC9164 (IP9002)	3.3	S	1.0	R	5.7	3.5	6.2	5.1	3.5-6.2	MS
49	RMH-726	4.8	HS	1.0	R	5.7	4.2	4.3	4.7	4.2-5.7	MR
50	CCH 1040	3.3	S	1.0	R	4.9	4.3	6.0	5.1	4.3-6.0	MS
51	PMH-1-C	2.3	MS	3.2	S	5.6	3.7	6.7	5.3	3.7-6.7	MS
52	PMH-3-C	4.8	HS	2.0	MR	4.5	4.4	6.4	5.1	4.4-6.4	MS

Contd.

Table-2 (61B)

		P.rust		C.rust							
		Score (1-5)		Score (1-5)		Charcoal rot score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
53	Seedtech 2324-C	4.5	HS	1.0	R	4.6	3.7	5.2	4.5	3.7-5.2	MR
54	BIO 9681-C	4.3	HS	3.0	MS	4.9	4.2	6.1	5.1	4.2-6.1	MS
55	Resistant check	1.8	MR	2.0	MR	-	3.6	1.0	2.3	1.0-3.6	R
56	Susceptible check	4.5	HS	4.0	S	7.3	6.3	8.1	7.2	6.3-8.1	S

Resistant Check : P. RUST:- NITHYASHREE (MANDYA); C.rust ;- CI 4 (DHARWAD);
C. ROT:- JCY 2-7 **(HYDERABAD);** CoH6 **(COIMBATORE)**
Susceptible Check : P. RUST :- CM 202 **(MANDYA); C.rust:-** CM 202 **(DHARWAD)**
C. ROT:- CM 600 **(LUDHIANA);** BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE)**

Contd.

Table-1 (61 A)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	SRIKAR 3555	4.6	MR	92.5	S	52.5	S
2	JKMH 4153	4.9	MR	7.4	R	36.5	MS
3	IMH1530	4.8	MR	91.2	S	8.5	R
4	ANJAN	4.5	MR	83.2	S	5.5	R
5	CCH 4039	4.7	MR	77.7	S	30.5	MS
6	BRM 12-1	3.3	MR	100.0	S	15.0	MR
7	QMH-1232	1.7	R	78.9	S	21.0	MR
8	OMH 14-27(CAH 153)	3.3	MR	67.2	S	0.0	R
9	QMH-1025	3.9	MR	84.8	S	31.5	MS
10	MFH-6-15	4.5	MR	88.0	S	30.0	MS
11	PM15101L	4.0	MR	100.0	S	2.5	R
12	PM15104L	3.9	MR	100.0	S	1.5	R
13	KH-440	3.4	MR	100.0	S	12.0	MR
14	IMH1527	3.8	MR	90.4	S	6.0	R
15	PM15102L	2.9	R	70.3	S	30.0	MS
16	JKMH 4444	2.5	R	49.7	MS	29.5	MS
17	Super-6030	4.1	MR	22.5	MR	36.0	MS
18	HT 515387	3.7	MR	80.0	S	7.5	R
19	GK3141	3.7	MR	100.0	S	20.5	MR
20	IIMRNH 2015-9	2.8	R	89.5	S	27.0	MS
21	TMMH 840	2.9	R	96.9	S	17.0	MR
22	CP.804	3.3	MR	90.8	S	37.5	MS
23	BH 413053	3.7	MR	100.0	S	37.5	MS
24	PM15106L	1.9	R	78.6	S	39.0	MS

Contd.

Table-1 (61 A)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
25	DAS-MH-111	4.5	MR	84.7	S	47.5	MS
26	DKC9163 (IP8703)	3.4	MR	90.5	S	29.6	MS
27	GH-1113	3.9	MR	86.7	S	55.0	S
28	KNMH-4503	4.1	MR	88.2	S	26.5	MS
29	EH-2371	3.2	MR	100.0	S	12.0	MR
30	IIMRNH 2015-10	2.7	R	94.4	S	26.5	MS
31	IIMRNH 2015-8	3.9	MR	97.9	S	24.0	MR
32	MAH-K14-4(CAHCM1476)	6.7	MS	100.0	S	14.5	MR
33	CP.802	3.6	MR	94.4	S	28.0	MS
34	SMH-3902	3.0	R	100.0	S	31.0	MS
35	JH 13339	3.6	MR	91.9	S	18.0	MR
36	HM15310	4.3	MR	96.0	S	28.0	MS
37	NMH-3662	5.2	MS	71.3	S	25.0	MR
38	CMH12-661	4.1	MR	90.0	S	33.5	MS
39	CMH12-688	3.4	MR	88.1	S	16.0	MR
40	CMH12-678	4.0	MR	90.7	S	16.5	MR
41	DAS-MH-110	3.5	MR	80.0	S	29.5	MS
42	VNR-31565	5.1	MS	83.2	S	32.0	MS
43	DMRH1417	3.7	MR	90.9	S	30.5	MS
44	IMH1533	5.2	MS	72.7	S	16.0	MR
45	JH 13341	3.0	R	82.2	S	40.5	MS
46	IMHW1541	4.4	MR	100.0	S	19.0	MR
47	IMH1524	4.8	MR	100.0	S	14.5	MR
48	IMH1528	3.0	R	86.9	S	9.5	R
49	PM15105L	2.4	R	73.8	S	34.0	MS
50	QMH-1231	5.2	MS	84.8	S	19.0	MR

Contd.

Table-1 (61 A)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
51	MAH-K14-2(CAHCM1456)	4.3	MR	77.6	S	17.0	MR
52	PMH-1-C	2.9	R	73.2	S	16.0	MR
53	PMH-3-C	3.5	MR	62.7	S	8.0	R
54	Seedtech 2324-C	3.3	MR	92.0	S	16.0	MR
55	BIO 9681-C	-	-	72.5	S	-	-
56	Resistant check	-	-	19.5	MR	-	-
57	Susceptible check	7.9	S	100.0	S	87.5	S

Resistant Check : SDM:-NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM;** SURYA **(UDAIPUR)**

Contd.

Table-2 (61B)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	HM15313	2.4	R	93.1	S	6.5	R
2	MAH-K14-1(CAHCM1442)	4.6	MR	97.8	S	27.5	MS
3	IMH1536	2.7	R	100.0	S	34.0	MS
4	EH-2588	3.4	MR	100.0	S	16.0	MR
5	JH 13336	2.7	R	85.0	S	18.5	MR
6	SAFAL X-2	6.1	MS	100.0	S	42.5	MS
7	IIMRNH 2015-7	2.0	R	92.3	S	19.5	MR
8	ADV 7139	2.9	R	11.2	MR	31.0	MS
9	JH 13346	3.5	MR	59.8	S	0.0	R
10	BH 413036	3.5	MR	100.0	S	14.5	MR
11	DKC9167 (IP8708)	3.5	MR	42.3	MS	14.0	MR
12	BH 413027	2.3	R	100.0	S	9.0	R
13	DH-296	5.5	MS	92.7	S	15.2	MR
14	HKH 425	5.9	MS	100.0	S	31.0	MS
15	RMH-748	4.8	MR	69.9	S	15.0	MR
16	IMH1534	5.4	MS	100.0	S	15.5	MR
17	VNR-34229	7.5	S	90.0	S	17.0	MR
18	CMH12-686	2.1	R	77.3	S	18.0	MR
19	PM15103L	3.5	MR	100.0	S	7.5	R
20	KNMH-4506	4.9	MR	100.0	S	15.0	MR
21	BL 103	5.9	MS	100.0	S	12.0	MR
22	ZASL-986	3.1	MR	88.3	S	9.0	R
23	PM15108L	2.2	R	86.0	S	54.0	S
24	HT 515169	3.6	MR	100.0	S	7.5	R
25	ADV 7022	2.7	R	12.1	MR	18.0	MR
26	SYN516753	3.8	MR	87.0	S	9.5	R

Table-2 (61B)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	Genotype	UDAI	Reaction	MAND	Reaction	UDAI	Reaction
27	KMH-2852	3.7	MR	95.7	S	9.5	R
28	DKC9168 (IP8704)	5.8	MS	79.7	S	26.0	MS
29	VNR-32971	4.4	MR	56.5	S	17.5	MR
30	DH-295	5.3	MS	79.2	S	32.5	MS
31	DKC8166 (IP8571)	3.8	MR	59.4	S	19.0	MR
32	IMH1526	5.1	MS	100.0	S	10.0	R
33	MFH-5-15	4.5	MR	100.0	S	31.5	MS
34	DKC8144 (IM8479)	2.6	R	77.5	S	0.0	R
35	IIMRNH 2015-6	2.1	R	100.0	S	8.0	R
36	DKC8161 (IP8570)	2.7	R	84.4	S	17.0	MR
37	KMH-1311	3.8	MR	100.0	S	12.5	MR
38	JH 13208	2.7	R	100.0	S	12.0	MR
39	GK3144	4.8	MR	80.3	S	0.0	R
40	BH 413055	3.8	MR	85.8	S	18.0	MR
41	BRM 12-6	5.4	MS	100.0	S	8.5	R
42	AH7000	2.8	R	100.0	S	12.0	MR
43	OMH 14-19(CAH 1521)	3.1	MR	60.9	S	15.0	MR
44	Aadi	5.2	MS	94.4	S	12.5	MR
45	Googul	3.4	MR	97.2	S	4.5	R
46	BL 108	6.6	MS	77.3	S	0.0	R
47	MAH-K14-3(CAHCM1473)	5.6	MS	86.6	S	9.0	R
48	DKC9164 (IP9002)	2.5	R	48.8	MS	8.0	R
49	RMH-726	3.1	MR	97.6	S	0.0	R
50	CCH 1040	4.2	MR	86.2	S	25.0	MR
51	PMH-1-C	4.6	MR	44.4	MS	0.0	R
52	PMH-3-C	4.3	MR	94.5	S	5.5	R

Contd.

Table-2 (61B)

		Fusarium stalk rot (1-9)		Sorghum downy mildew (%)		Rajasthan downy mildew (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
53	Seedtech 2324-C	4.4	MR	98.1	S	9.5	R
54	BIO 9681-C	3.1	MR	75.4	S	11.5	MR
55	Resistant check	-	-	15.9	MR	-	-
56	Susceptible check	8.3	S	100.0	S	92.5	S

Resistant Check : SDM:-NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM:** SURYA **(UDAIPUR)**

Contd.

Table-1 (61 A)

							Cyst/ plant	
		Bacterial stalk rot (%)					Scale (n=5)	
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	SRIKAR 3555	50.5	22.3	36.4	22.3-50.5	MS	13--20	S
2	JKMH 4153	0.0	10.0	5.0	0.0-10.0	R	29--38	S
3	IMH1530	27.9	16.1	22.0	16.1-27.9	MR	18--24	S
4	ANJAN	39.6	5.6	22.6	5.6-39.6	MR	22--28	S
5	CCH 4039	28.9	8.4	18.7	8.4-28.9	MR	11--16	S
6	BRM 12-1	65.3	11.8	38.5	11.8-65.3	MS	21--26	S
7	QMH-1232	19.5	21.6	20.6	19.5-21.6	MR	10--16	S
8	OMH 14-27(CAH 153)	15.5	16.7	16.1	15.5-16.7	MR	4--9	MR
9	QMH-1025	13.5	14.8	14.2	13.5-14.8	MR	11--18	S
10	QMH-1025	25.4	15.6	20.5	15.6-25.4	MR	21--27	S
11	PM15101L	3.3	21.6	12.5	3.3-21.6	MR	10--15	S
12	PM15104L	26.8	32.8	29.8	26.8-32.8	MS	8--13	S
13	KH-440	41.9	17.1	29.5	17.1-41.9	MS	18--24	S
14	IMH1527	39.6	10.6	25.1	10.6-39.6	MS	27--34	S
15	PM15102L	45.8	24.3	35.1	24.3-45.8	MS	20--26	S
16	JKMH 4444	43.8	3.6	23.7	3.6-43.8	MR	22--27	S
17	Super-6030	4.2	34.1	19.1	4.2-34.1	MR	25--30	S
18	HT 515387	3.9	20.2	12.0	3.9-20.2	MR	18--22	S
19	GK3141	61.8	13.5	37.7	13.5-61.8	MS	11--14	S
20	IIMRNH 2015-9	54.2	16.7	35.4	16.7-54.2	MS	16--21	S
21	TMMH 840	18.3	3.8	11.1	3.8-18.3	MR	27--32	S
22	CP.804	45.0	31.3	38.1	31.3-45.0	MS	18--23	S
23	BH 413053	22.5	26.7	24.6	22.5-26.7	MR	11--14	S
24	PM15106L	59.6	26.7	43.2	26.7-59.6	MS	20--24	S

Contd.

Table-1 (61 A)

							Cyst/ plant	
		Bacterial stalk rot (%)					Scale (n=5)	
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
25	DAS-MH-111	26.2	29.9	28.1	26.2-29.9	MS	16--22	S
26	DKC9163 (IP8703)	29.0	24.5	26.7	24.5-29.0	MS	21--28	S
27	GH-1113	44.2	5.6	24.9	5.6-44.2	MR	27--33	S
28	KNMH-4503	5.3	19.6	12.4	5.3-19.6	MR	20--26	S
29	EH-2371	7.1	50.0	28.6	7.1-50.0	MS	31--36	S
30	IIMRNH 2015-10	26.7	12.1	19.4	12.1-26.7	MR	12--17	S
31	IIMRNH 2015-8	44.2	15.5	29.8	15.5-44.2	MS	20--24	S
32	MAH-K14-4(CAHCM1476)	48.5	47.5	48.0	47.5-48.5	MS	28--34	S
33	CP.802	24.3	5.0	14.6	5.0-24.3	MR	13--18	S
34	SMH-3902	34.8	19.4	27.1	19.4-34.8	MS	23--28	S
35	JH 13339	12.1	26.1	19.1	12.1-26.1	MR	17--21	S
36	HM15310	42.7	18.8	30.7	18.8-42.7	MS	26--35	S
37	NMH-3662	43.1	10.4	26.7	10.4-43.1	MS	15--22	S
38	CMH12-661	28.2	9.1	18.7	9.1-28.2	MR	28--33	S
39	CMH12-688	42.3	17.9	30.1	17.9-42.3	MS	33--42	S
40	CMH12-678	46.9	34.8	40.8	34.8-46.9	MS	17--24	S
41	DAS-MH-110	41.4	21.4	31.4	21.4-41.4	MS	22--30	S
42	VNR-31565	63.3	7.1	35.2	7.1-63.3	MS	18--23	S
43	DMRH1417	33.5	29.2	31.3	29.2-33.5	MS	25--34	S
44	IMH1533	35.1	29.2	32.2	29.2-35.1	MS	6--12	S
45	JH 13341	10.3	26.3	18.3	10.3-26.3	MR	23--31	S
46	IMHW1541	22.7	22.9	22.8	22.7-22.9	MR	15--20	S
47	IMH1524	35.7	18.2	27.0	18.2-35.7	MS	41--51	S
48	IMH1528	35.4	52.1	43.7	35.4-52.1	MS	11--18	S
49	PM15105L	45.2	16.7	31.0	16.7-45.2	MS	3--8	MR
50	QMH-1231	51.9	5.0	28.5	5.0-51.9	MS	5--9	MR

Contd.

Table-1 (61 A)

							Cyst/ plant	
		Bacterial stalk rot (%)					Scale (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
51	MAH-K14-2(CAHCM1456)	0.0	25.0	12.5	0.0-25.0	MR	23--30	S
52	PMH-1-C	58.8	3.8	31.3	3.8-58.8	MS	40--48	S
53	PMH-3-C	50.0	5.6	27.8	5.6-50.0	MS	21--26	S
54	Seedtech 2324-C	25.0	15.0	20.0	15.0-25.0	MR	22--28	S
55	BIO 9681-C	16.0	-	16.0	0.0-16.0	MR	12--18	S
56	Resistant check	4.6	-	4.6	0.0-4.6	R	5--11	S
57	Susceptible check	37.7	23.5	30.6	23.5-37.7	MS	29--36	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table-2 (61B)

							Cyst/ plant	
		Bacterial stalk rot (%)					Scale (n=5)	
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	HM15313	27.9	26.8	27.3	26.8-27.9	MS	10--17	S
2	MAH-K14-1(CAHCM1442)	35.4	14.1	24.7	14.1-35.4	MR	31--36	S
3	IMH1536	21.1	25.9	23.5	21.1-25.9	MR	24--32	S
4	EH-2588	19.1	22.0	20.5	19.1-22.0	MR	17--23	S
5	JH 13336	28.4	22.6	25.5	22.6-28.4	MS	2--7	MR
6	SAFAL X-2	38.1	25.8	32.0	25.8-38.1	MS	30--38	S
7	IIMRNH 2015-7	31.0	20.8	25.9	20.8-31.0	MS	21--26	S
8	ADV 7139	12.7	23.4	18.0	12.7-23.4	MR	13--20	S
9	JH 13346	21.2	15.5	18.3	15.5-21.2	MR	11--16	S
10	BH 413036	31.8	12.5	22.2	12.5-31.8	MR	17--22	S
11	DKC9167 (IP8708)	29.0	25.6	27.3	25.6-29.0	MS	13--20	S
12	BH 413027	33.6	25.6	29.6	25.6-33.6	MS	10--15	S
13	DH-296	26.1	19.5	22.8	19.5-26.1	MR	33--38	S
14	HKH 425	38.8	24.3	31.5	24.3-38.8	MS	21--27	S
15	RMH-748	39.7	27.8	33.8	27.8-39.7	MS	11--16	S
16	IMH1534	33.5	32.7	33.1	32.7-33.5	MS	18--25	S
17	VNR-34229	28.1	27.9	28.0	27.9-28.1	MS	40--53	S
18	CMH12-686	19.8	20.0	19.9	19.8-20.0	MR	12--18	S
19	PM15103L	33.3	20.2	26.8	20.2-33.3	MS	16--22	S
20	KNMH-4506	26.5	15.7	21.1	15.7-26.5	MR	29--37	S
21	BL 103	41.5	18.7	30.1	18.7-41.5	MS	27--32	S
22	ZASL-986	40.7	25.0	32.8	25.0-40.7	MS	19--24	S
23	PM15108L	40.0	5.6	22.8	5.6-40.0	MR	22--30	S
24	HT 515169	24.9	20.8	22.8	20.8-24.9	MR	12--18	S
25	ADV 7022	37.1	19.8	28.4	19.8-37.1	MS	20--27	S
26	SYN516753	23.6	17.0	20.3	17.0-23.6	MR	18--25	S

Table-2 (61B)

							Cyst/ plant	
		Bacterial stalk rot (%)					**Scale (n=5)**	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
27	KMH-2852	24.9	19.2	22.0	19.2-24.9	MR	25--32	S
28	DKC9168 (IP8704)	30.0	16.8	23.4	16.8-30.0	MR	11--17	S
29	VNR-32971	18.1	21.1	19.6	18.1-21.1	MR	30--37	S
30	DH-295	12.6	26.1	19.3	12.6-22.0	MR	23--28	S
31	DKC8166 (IP8571)	42.9	22.0	32.4	22.0-42.9	MS	16--23	S
32	IMH1526	12.2	30.7	21.5	12.2-30.7	MR	23--30	S
33	MFH-5-15	25.8	20.6	23.2	20.6-25.8	MR	10--16	S
34	DKC8144 (IM8479)	29.4	15.4	22.4	15.4-29.4	MR	14--19	S
35	IIMRNH 2015-6	14.6	22.9	18.7	14.6-22.9	MR	21--27	S
36	DKC8161 (IP8570)	27.4	26.5	26.9	26.5-27.4	MS	17--21	S
37	KMH-1311	21.4	29.9	25.7	21.4-29.9	MS	19--25	S
38	JH 13208	38.6	24.4	31.5	24.4-38.6	MS	3--8	MR
39	GK3144	33.3	22.0	27.7	22.0-33.3	MS	11--17	S
40	BH 413055	5.6	25.8	15.7	5.6-25.8	MR	32--42	S
41	BRM 12-6	33.9	20.0	27.0	20.0-33.9	MS	14--20	S
42	AH7000	34.3	21.7	28.0	21.7-34.3	MS	8--15	S
43	OMH 14-19(CAH 1521)	35.1	20.6	27.9	20.6-35.1	MS	10--18	S
44	Aadi	32.5	26.9	29.7	26.9-32.5	MS	22--33	S
45	Googul	30.2	20.8	25.5	20.8-30.2	MS	19--26	S
46	BL 108	30.3	13.6	22.0	13.6-30.3	MR	20--30	S
47	MAH-K14-3(CAHCM1473)	25.4	24.5	24.9	24.5-25.4	MR	11--16	S
48	DKC9164 (IP9002)	31.8	18.8	25.3	18.8-31.8	MS	9--16	S
49	RMH-726	33.5	26.1	29.8	26.1-33.5	MS	10--17	S
50	CCH 1040	28.2	23.3	25.8	23.3-28.2	MS	23--32	S
51	PMH-1-C	14.6	33.8	24.2	14.6-33.8	MR	22--29	S
52	PMH-3-C	24.8	16.7	20.7	16.7-24.8	MR	11--18	S

Table-2 (61B)

							Cyst/ plant	
		Bacterial stalk rot (%)					**Scale (n=5)**	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
53	Seedtech 2324-C	27.2	9.7	18.5	9.7-27.2	MR	13--21	S
54	BIO 9681-C	20.5	24.4	22.4	20.5-24.4	MR	25--31	S
55	Resistant check	4.2	-	4.2	0.0-4.2	R	4--9	MR
56	Susceptible check	33.9	25.8	29.8	25.8-33.9	MS	25--33	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table 3. Disease screenig of IVT (medium maturity) maize hybrids (Trial 62 A)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	JH 13348	1.0	2.6	3.3	3.5	2.6	1.0-3.5	MR
2	BRM 12-3	1.5	2.0	1.8	2.0	1.8	1.5-2.0	R
3	KNMH-4505	2.5	2.8	3.3	1.5	2.5	1.5-3.3	MR
4	CMH11-620	1.0	2.8	2.0	2.0	2.0	1.0-2.8	R
5	MMH-4-15	1.5	2.2	3.8	3.0	2.6	1.5-3.8	MR
6	AMH-3435	2.0	2.0	2.0	2.0	2.0	2.0-2.0	R
7	UDMH-127	1.5	2.6	2.3	2.5	2.2	1.5-2.6	MR
8	JKMH 4103	1.5	2.4	2.8	2.5	2.3	1.5-2.8	MR
9	CMH12-699	1.0	2.6	2.3	2.0	2.0	1.0-2.6	R
10	NMH-3746	1.5	3.2	2.5	2.0	2.3	1.5-3.2	MR
11	PMSW4	2.0	2.6	3.3	3.5	2.8	2.0-3.5	MR
12	EH-2480	1.0	2.4	2.0	2.5	2.0	1.0-2.5	R
13	PMSY3	2.5	2.6	2.8	2.5	2.6	2.5-2.8	MR
14	KNMH-4507	2.0	2.6	2.0	3.0	2.4	2.0-3.0	MR
15	KNMH-4501	1.0	2.6	2.3	2.5	2.0	1.0-2.6	R
16	PROLINE-511	3.5	2.8	2.8	2.5	2.9	2.5-3.5	MR
17	IMH1526	1.0	2.4	2.0	3.0	2.1	1.0-3.0	MR
18	RCRMH1 (HTMR1)	1.0	1.8	2.5	2.5	2.0	1.0-2.5	R
19	LMH 615	1.5	2.2	2.8	2.0	2.1	1.5-2.8	MR
20	OMH 14-64(CAH 1532)	2.5	2.6	3.3	2.5	2.7	2.5-3.3	MR
21	AH7007	1.5	2.8	2.8	2.5	2.4	1.5-2.8	MR
22	HM15206	1.0	2.4	2.5	2.5	2.1	1.0-2.5	MR
23	LMH 915	1.5	2.8	2.0	2.0	2.0	1.5-2.8	R
24	NMH 109	2.5	3.6	3.8	3.0	3.2	2.5-3.8	MS
25	MMH-3-15	1.5	2.8	3.3	2.5	2.5	1.5-3.3	MR

Contd.

Table-3 (62 A)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-2	1.0	2.6	2.0	2.0	1.9	1.0-2.6	R
27	BL 106	3.0	3.6	3.3	2.0	3.0	2.0-3.6	MR
28	IIMRNH 2015-1	2.5	3.0	2.3	2.5	2.6	2.3-3.0	MR
29	LMH 815	1.0	2.0	2.0	2.0	1.8	1.0-2.0	R
30	IMH1525	2.0	3.2	3.3	2.5	2.7	2.0-3.3	MR
31	KMH 13-5	2.5	2.6	3.0	2.5	2.7	2.5-3.0	MR
32	JH 13347	1.0	1.6	2.0	2.0	1.7	1.0-2.0	R
33	HM15207	1.0	2.6	3.3	2.5	2.3	1.0-3.3	MR
34	IMH1530	2.5	2.8	2.8	2.0	2.5	2.0-2.8	MR
35	SRIKAR 2079	1.5	2.8	3.3	2.5	2.5	1.5-3.3	MR
36	DAS-MH-309	1.0	3.0	2.3	2.0	2.1	1.0-3.0	MR
37	BIO 509	1.5	2.0	1.8	2.5	1.9	1.5-2.5	R
38	IIMRNH 2015-3	1.0	3.2	2.8	2.5	2.4	1.0-3.2	MR
39	EH-2233	2.5	2.2	3.0	2.5	2.6	2.2-3.0	MR
40	Mahabeej-1302	2.0	2.6	2.5	2.5	2.4	2.0-2.6	MR
41	JKMH 4333	1.5	2.6	2.0	2.0	2.0	1.5-2.6	R
42	HM 9-C	1.0	3.0	2.5	3.5	2.5	1.0-3.5	MR
43	BIO 9637-C	1.5	2.6	2.0	3.0	2.3	1.5-3.0	MR
44	PMH-4-C	1.0	1.7	2.3	2.5	1.9	1.0-2.5	R
45	Resistant check	-	1.4	-	-	1.4	1.4	R
46	Susceptible check	4.5	3.4	4.5	5.0	4.4	3.4-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI)**; HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 (**DELHI)**

Contd.

Table 4. Disease screenig of IVT (medium maturity) maize hybrids (Trial 62 B)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	IMH1534	1.5	2.3	2.3	2.5	2.1	1.5-2.5	MR
2	DH-293	1.5	2.0	3.3	2.5	2.3	1.5-3.3	MR
3	RCRMH2 (HTMR2)	2.0	2.4	2.3	2.0	2.2	2.0-2.4	MR
4	KNMH-4508	1.0	2.4	2.3	2.0	1.9	1.0-2.4	R
5	AH1401	1.0	3.5	3.3	3.5	2.8	1.0-3.5	MR
6	KNMH-4504	1.5	2.5	3.0	2.0	2.3	1.5-3.0	MR
7	KNMH-4502	2.0	2.5	3.3	3.0	2.7	2.0-3.3	MR
8	LMH 1015	1.0	2.0	2.3	2.5	1.9	1.0-2.5	R
9	IMH1533	1.0	2.4	2.0	2.5	2.0	1.0-2.5	R
10	Ganga-11	1.0	2.8	2.8	2.5	2.3	1.0-2.8	MR
11	HT 515349	1.5	2.0	2.5	2.0	2.0	1.5-2.5	R
12	JH 31820	1.0	2.1	2.0	2.0	1.8	1.0-2.1	R
13	CMH12-672	3.0	2.3	2.3	2.5	2.5	2.3-3.0	MR
14	BGMH1 (CAH1526)	2.0	2.8	2.8	2.5	2.5	2.0-2.8	MR
15	OMH 14-7(CAH 1538)	1.5	2.1	2.5	2.5	2.2	1.5-2.5	MR
16	BIO 274	2.0	2.1	2.3	2.0	2.0	2.0-2.3	R
17	DH-294	1.5	3.0	3.3	2.5	2.6	1.5-3.3	MR
18	VEH 15-1	1.0	3.0	2.3	2.5	2.2	1.0-3.0	MR
19	KMH-5332	1.5	2.7	2.3	2.0	2.1	1.5-2.7	MR
20	PHM 34	2.0	1.9	3.8	2.5	2.5	1.9-3.8	MR
21	IIMRNH 2015-5	1.5	2.6	2.5	2.5	2.3	1.5-2.6	MR
22	RMH-301	1.0	2.6	2.5	2.0	2.0	1.0-2.6	R
23	VaMH 12014	1.5	1.9	2.3	2.0	1.9	1.5-2.3	R
24	DAS-MH-308	2.5	3.0	3.0	2.0	2.6	2.0-3.0	MR
25	KH-2001 GOLD	1.5	2.8	3.0	2.0	2.3	1.5-3.0	MR

Contd.

Table-4 (62 B)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-4	1.0	2.2	2.8	2.0	2.0	1.0-2.8	R
27	IMH1527	3.0	2.7	2.8	2.5	2.7	2.5-3.0	MR
28	PM15107M	2.5	3.0	2.3	1.5	2.3	1.5-3.0	MR
29	AH7009	1.0	2.1	2.3	2.0	1.8	1.0-2.3	R
30	BRM 12-4	2.0	2.2	2.5	2.5	2.3	2.0-2.5	MR
31	LMH 715	2.5	2.5	2.0	2.5	2.4	2.0-2.5	MR
32	LMH 515	1.0	2.1	2.0	2.5	1.9	1.0-2.5	R
33	BAUMC-3	1.0	2.8	3.8	2.5	2.5	1.0-3.8	MR
34	Muskan	2.5	1.9	2.3	2.0	2.2	1.9-2.5	MR
35	BL 107	1.5	2.8	3.0	2.0	2.3	1.5-3.0	MR
36	KMH 13-79	1.0	2.6	3.3	2.5	2.3	1.0-3.3	MR
37	GK3131	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
38	EH-2214	1.0	3.9	2.3	2.0	2.3	1.0-3.9	MR
39	HKH 350	2.5	2.6	3.0	2.0	2.5	2.0-3.0	MR
40	IMH1524	2.0	2.0	3.3	2.5	2.4	2.0-3.3	MR
41	BGMH2 (CAH1454)	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
42	HM 9-C	1.0	2.3	2.8	2.0	2.0	1.0-2.8	R
43	BIO 9637-C	1.5	1.9	2.3	2.0	1.9	1.5-2.3	R
44	PMH-4-C	1.0	1.8	2.0	2.0	1.7	1.0-2.0	R
45	Resistant check	-	1.5	-	-	1.5	1.5	R
46	Susceptible check	4.5	3.6	4.5	5.0	4.4	3.6-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI)**; HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 (**DELHI)**

Contd.

Table-3 (62 A)

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	JH 13348	1.5	2.0	2.8	3.5	2.5	1.5-3.5	MR
2	BRM 12-3	1.8	1.0	1.8	1.5	1.5	1.0-1.8	R
3	KNMH-4505	2.0	1.0	3.3	4.0	2.6	1.0-4.0	MR
4	CMH11-620	1.5	1.0	3.0	1.0	1.6	1.0-3.0	R
5	MMH-4-15	2.3	1.0	3.3	2.0	2.1	1.0-3.3	MR
6	AMH-3435	2.0	1.0	3.8	3.0	2.5	1.0-3.8	MR
7	UDMH-127	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
8	JKMH 4103	1.8	2.0	3.3	3.5	2.6	1.8-3.5	MR
9	CMH12-699	1.5	1.0	3.0	1.0	1.6	1.0-3.0	R
10	NMH-3746	1.8	3.0	3.8	4.0	3.1	1.8-4.0	MS
11	PMSW4	2.8	1.0	4.0	3.7	2.9	1.0-4.0	MR
12	EH-2480	1.8	2.0	3.0	3.0	2.4	1.8-3.0	MR
13	PMSY3	2.3	2.0	4.3	2.0	2.6	2.0-4.3	MR
14	KNMH-4507	1.5	1.0	3.3	3.5	2.3	1.0-3.5	MR
15	KNMH-4501	2.3	1.0	3.0	4.0	2.6	1.0-4.0	MR
16	PROLINE-511	1.8	2.0	3.3	3.5	2.6	1.8-3.5	MR
17	IMH1526	2.0	2.0	3.3	4.0	2.8	2.0-4.0	MR
18	RCRMH1 (HTMR1)	1.8	1.0	1.8	2.0	1.6	1.0-2.0	R
19	LMH 615	1.5	2.0	3.3	2.5	2.3	1.5-3.3	MR
20	OMH 14-64(CAH 1532)	2.3	2.0	3.0	1.0	2.0	1.0-3.0	R
21	AH7007	2.8	2.0	4.0	3.5	3.0	2.0-4.0	MR
22	HM15206	2.5	2.0	3.0	4.0	2.9	2.0-4.0	MR
23	LMH 915	2.3	2.0	3.5	3.0	2.7	2.0-3.5	MR
24	NMH 109	2.0	1.0	1.8	3.0	2.0	1.0-3.0	R
25	MMH-3-15	1.8	2.0	3.3	3.0	2.5	1.8-3.3	MR

Contd.

Table-3 (62 A)

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-2	2.0	2.0	3.3	2.5	2.5	2.0-3.3	MR
27	BL 106	1.8	2.0	1.8	3.0	2.1	1.8-3.0	MR
28	IIMRNH 2015-1	2.0	3.0	3.3	3.0	2.8	2.0-3.3	MR
29	LMH 815	1.5	2.0	3.0	2.0	2.1	1.5-3.0	MR
30	IMH1525	2.8	3.0	3.8	1.0	2.6	1.0-3.8	MR
31	KMH 13-5	3.3	3.0	4.3	4.0	3.6	3.0-4.3	MS
32	JH 13347	2.3	4.0	1.8	4.0	3.0	1.8-4.0	MR
33	HM15207	1.8	3.0	3.3	4.0	3.0	1.8-4.0	MR
34	IMH1530	2.3	2.0	4.0	2.7	2.7	2.0-4.0	MR
35	SRIKAR 2079	2.3	2.0	3.3	3.7	2.8	2.0-3.7	MR
36	DAS-MH-309	1.8	2.0	2.0	2.0	1.9	1.8-2.0	R
37	BIO 509	2.5	3.0	3.0	5.0	3.4	2.5-5.0	MS
38	IIMRNH 2015-3	2.3	2.0	2.0	3.0	2.3	2.0-3.0	MR
39	EH-2233	1.8	1.0	3.0	4.0	2.4	1.0-4.0	MR
40	Mahabeej-1302	2.8	2.0	3.0	4.0	2.9	2.0-4.0	MR
41	JKMH 4333	1.8	1.0	3.5	4.0	2.6	1.0-4.0	MR
42	HM 9-C	2.0	2.0	3.3	1.0	2.0	1.0-3.3	R
43	BIO 9637-C	2.3	2.0	3.0	1.0	2.0	1.0-3.0	R
44	PMH-4-C	2.0	3.0	4.0	4.2	3.3	2.0-4.0	MS
45	Resistant check	-	1.0	2.0	2.0	1.7	1.0-2.0	R
46	Susceptible check	4.8	4.0	4.5	5.0	4.6	4.0-5.0	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAR)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA)** CM202 **(DHARWAD)**

Contd.

Table-4 (62 B)

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	IMH1534	2.0	3.0	3.8	3.0	3.0	2.0-3.8	MR
2	DH-293	2.0	3.0	3.8	4.0	3.2	2.0-4.0	MS
3	RCRMH2 (HTMR2)	1.8	2.0	3.0	2.0	2.2	1.8-3.0	MR
4	KNMH-4508	1.5	1.0	3.3	2.0	2.0	1.0-3.3	R
5	AH1401	2.8	3.0	4.3	4.0	3.5	2.8-4.3	MS
6	KNMH-4504	1.5	2.0	3.8	4.0	2.8	1.5-4.0	MR
7	KNMH-4502	1.8	2.0	3.0	3.2	2.5	1.8-3.2	MR
8	LMH 1015	2.0	2.0	2.0	2.0	2.0	2.0-2.0	R
9	IMH1533	1.5	2.0	3.3	3.7	2.6	1.5-3.7	MR
10	Ganga-11	1.8	2.0	3.3	2.0	2.3	1.8-3.3	MR
11	HT 515349	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
12	JH 31820	1.5	1.0	1.8	4.0	2.1	1.0-4.0	MR
13	CMH12-672	1.5	2.0	3.0	3.3	2.5	1.5-3.3	MS
14	BGMH1 (CAH1526)	1.8	2.0	3.0	3.0	2.4	1.8-3.0	MR
15	OMH 14-7(CAH 1538)	1.5	2.0	2.0	2.0	1.9	1.5-2.0	R
16	BIO 274	1.5	2.0	3.3	2.5	2.3	1.5-3.3	MR
17	DH-294	2.5	2.0	3.0	4.0	2.9	2.0-4.0	MR
18	VEH 15-1	2.3	3.0	3.8	3.0	3.0	2.3-3.8	MR
19	KMH-5332	1.5	2.0	3.5	3.0	2.5	1.5-3.5	MR
20	PHM 34	1.5	2.0	3.3	3.5	2.6	1.5-3.5	MR
21	IIMRNH 2015-5	2.0	2.0	3.3	2.5	2.5	2.0-3.3	MR
22	RMH-301	2.3	1.0	3.5	3.0	2.4	1.0-3.5	MR
23	VaMH 12014	2.0	2.0	3.8	4.0	3.0	2.0-4.0	MR
24	DAS-MH-308	2.0	2.0	3.8	1.5	2.3	1.5-3.8	MR
25	KH-2001 GOLD	2.5	2.0	4.0	5.0	3.4	2.0-5.0	MS

Contd.

Table-4 (62 B)

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-4	1.8	1.0	3.3	2.0	2.0	1.0-3.3	R
27	IMH1527	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
28	PM15107M	1.5	2.0	3.8	3.7	2.8	1.5-3.8	MR
29	AH7009	2.0	2.0	3.8	5.0	3.2	2.0-5.0	MS
30	BRM 12-4	2.0	2.0	3.5	2.7	2.6	2.0-3.5	MR
31	LMH 715	1.8	1.0	3.0	3.0	2.2	1.0-3.0	MR
32	LMH 515	2.0	1.0	3.3	2.5	2.2	1.0-3.3	MR
33	BAUMC-3	2.0	2.0	3.3	2.5	2.5	2.0-3.3	MR
34	Muskan	2.0	2.0	2.0	3.0	2.3	2.0-3.0	MR
35	BL 107	2.5	2.0	3.3	4.5	3.1	2.0-4.5	MS
36	KMH 13-79	2.5	1.0	3.8	3..5	2.4	1.0-3.8	MR
37	GK3131	2.8	1.0	3.3	3.0	2.5	1.0-3.3	MR
38	EH-2214	2.0	2.0	3.8	4.0	3.0	2.0-4.0	MR
39	HKH 350	2.0	1.0	3.8	3.0	2.5	1.0-3.8	MR
40	IMH1524	2.8	2.0	4.0	4.0	3.2	2.0-4.0	MS
41	BGMH2 (CAH1454)	2.0	1.0	3.5	3.0	2.4	1.0-3.5	MR
42	HM 9-C	1.5	1.0	2.8	3.0	2.1	1.0-3.0	MR
43	BIO 9637-C	1.8	2.0	2.5	4.0	2.6	1.8-4.0	MR
44	PMH-4-C	2.8	2.0	3.5	3.2	2.9	2.0-3.5	MR
45	Resistant check	-	1.0	1.8	2.0	1.6	1.0-2.0	R
46	Susceptible check	4.3	4.0	4.8	5.0	4.5	4.0-5.0	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA)** CM202 **(DHARWAD)**

Contd.

Table-3 (62 A)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	JH 13348	3.0	0.0	3.0	2.0	4.3	3.0	2.0-4.3	MR
2	BRM 12-3	4.5	0.5	3.0	2.0	4.1	3.4	2.0-4.5	MS
3	KNMH-4505	3.8	0.0	3.5	2.4	4.3	3.5	2.4-4.3	MS
4	CMH11-620	3.3	0.0	3.0	2.0	3.1	2.8	2.0-3.3	MR
5	MMH-4-15	4.8	0.0	3.5	1.6	3.4	3.3	1.6-4.8	MS
6	AMH-3435	3.8	0.0	3.0	2.4	2.9	3.0	2.4-3.8	MR
7	UDMH-127	4.3	0.5	3.5	2.4	2.8	3.2	2.4-4.3	MS
8	JKMH 4103	4.0	0.0	4.0	2.0	2.8	3.2	2.0-4.0	MS
9	CMH12-699	3.3	0.5	3.0	1.6	4.3	3.0	1.6-4.3	MR
10	NMH-3746	4.0	0.5	3.0	2.0	3.1	3.0	2.0-4.0	MR
11	PMSW4	4.3	0.0	3.5	2.0	3.7	3.4	2.0-4.3	MS
12	EH-2480	3.8	0.5	3.0	2.0	3.2	3.0	2.0-3.8	MR
13	PMSY3	4.0	0.0	3.5	2.0	2.3	3.0	2.0-4.0	MR
14	KNMH-4507	3.8	0.0	3.5	2.4	3.7	3.3	2.4-3.8	MS
15	KNMH-4501	4.5	0.0	3.0	2.4	3.4	3.3	2.4-4.5	MS
16	PROLINE-511	3.8	0.0	3.5	2.0	3.8	3.3	2.0-3.8	MS
17	IMH1526	3.8	0.0	3.0	2.0	3.0	2.9	2.0-3.8	MR
18	RCRMH1 (HTMR1)	4.0	0.5	3.5	2.2	3.0	3.2	2.2-4.0	MS
19	LMH 615	4.5	0.0	3.5	1.6	3.2	3.2	1.6-4.5	MS
20	OMH 14-64(CAH 1532)	4.0	1.0	3.0	1.8	2.8	2.9	1.8-4.0	MR
21	AH7007	4.8	0.0	3.5	1.8	2.7	3.2	1.8-4.8	MS
22	HM15206	3.8	1.0	3.0	1.3	2.5	2.6	1.3-3.8	MR
23	LMH 915	4.5	0.5	4.0	2.0	2.8	3.3	2.0-4.5	MS
24	NMH 109	3.5	0.0	3.5	2.0	2.9	3.0	2.0-3.5	MR
25	MMH-3-15	4.5	0.5	3.5	2.0	2.6	3.2	2.0-4.5	MS

Contd.

Table-3 (62 A)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-2	4.3	0.0	3.0	2.2	2.2	2.9	2.2-4.3	MR
27	BL 106	4.3	0.0	3.0	1.8	3.3	3.1	1.8-4.3	MS
28	IIMRNH 2015-1	5.0	0.5	4.0	2.2	3.2	3.6	2.2-5.0	MS
29	LMH 815	4.3	0.0	3.0	2.2	2.7	3.0	2.2-4.3	MR
30	IMH1525	4.0	0.0	3.5	1.8	3.8	3.3	1.8-4.0	MS
31	KMH 13-5	4.0	0.0	3.5	2.0	3.9	3.4	2.0-4.0	MS
32	JH 13347	4.0	1.0	3.5	2.0	3.3	3.2	2.0-4.0	MS
33	HM15207	3.8	0.5	3.0	2.2	3.2	3.0	2.2-3.8	MR
34	IMH1530	4.3	0.0	4.0	2.2	2.7	3.3	2.2-4.3	MS
35	SRIKAR 2079	3.5	0.0	3.5	2.0	3.2	3.0	2.0-3.5	MR
36	DAS-MH-309	4.0	0.5	3.0	1.5	2.6	2.8	1.5-4.0	MR
37	BIO 509	4.3	0.0	3.0	1.5	2.5	2.8	1.5-4.3	MR
38	IIMRNH 2015-3	3.8	0.0	3.5	1.7	3.0	3.0	1.7-3.8	MR
39	EH-2233	4.0	0.0	4.0	2.2	4.4	3.7	2.2-4.4	MS
40	Mahabeej-1302	3.8	0.0	3.5	2.0	4.4	3.4	2.0-4.4	MS
41	JKMH 4333	4.0	0.0	3.0	1.8	2.6	2.9	1.8-4.0	MR
42	HM 9-C	4.0	0.5	3.5	1.8	3.4	3.2	1.8-4.0	MS
43	BIO 9637-C	3.8	0.0	3.0	1.4	3.1	2.8	1.4-3.8	MR
44	PMH-4-C	4.3	0.0	3.5	2.2	2.9	3.2	2.2-4.3	MS
45	Resistant check	2.5	-	-	1.8	-	2.2	1.8-2.5	MR
46	Susceptible check	4.8	0.5	4.0	3.3	-	4.0	3.3-4.8	MS

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** HICELL **(DHAULAKUAN);** CM 501 **(DELHI);** P3441 **(BHUBNESWAR)** HKI 1105+ HKI 536CBT **(KARNAL)**

Contd.

* Data not considered due to low disease pressure

Table-4 (62 B)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	IMH1534	3.3	0.5	3.0	2.0	3.8	3.0	2.0-3.8	MR
2	DH-293	3.5	1.5	4.0	1.4	4.6	3.4	1.4-4.6	MS
3	RCRMH2 (HTMR2)	3.5	0.0	3.0	1.7	3.5	2.9	1.7-3.5	MR
4	KNMH-4508	3.3	1.0	3.0	1.3	4.4	3.0	1.3-4.4	MR
5	AH1401	4.5	0.0	3.5	1.4	4.5	3.5	1.4-4.5	MS
6	KNMH-4504	2.8	1.0	3.0	1.5	3.0	2.6	1.5-3.0	MR
7	KNMH-4502	3.8	2.0	3.0	1.7	3.9	3.0	1.7-3.9	MR
8	LMH 1015	4.0	0.5	3.0	1.9	4.1	3.3	1.9-4.1	MS
9	IMH1533	4.0	1.0	2.5	1.7	3.0	2.8	1.7-4.0	MR
10	Ganga-11	4.0	0.0	2.5	1.9	2.5	2.7	1.9-4.0	MR
11	HT 515349	4.3	0.0	3.0	1.7	3.3	3.0	1.7-4.3	MR
12	JH 31820	2.8	1.0	3.5	2.4	4.3	3.2	2.4-4.3	MS
13	CMH12-672	3.8	1.0	3.0	1.7	4.6	3.3	1.7-4.6	MS
14	BGMH1 (CAH1526)	3.8	0.0	3.5	2.4	3.9	3.4	2.4-3.9	MS
15	OMH 14-7(CAH 1538)	4.0	0.0	3.0	2.5	4.4	3.5	2.5-4.0	MS
16	BIO 274	4.8	0.0	3.0	2.1	4.2	3.5	2.1-4.8	MS
17	DH-294	3.5	0.5	4.0	2.1	3.5	3.3	2.1-4.0	MS
18	VEH 15-1	3.5	0.0	3.0	1.8	4.6	3.2	1.8-4.6	MS
19	KMH-5332	3.8	0.5	4.0	2.6	5.0	3.8	2.6-5.0	MS
20	PHM 34	4.8	1.0	3.0	2.4	4.1	3.6	2.4-4.8	MS
21	IIMRNH 2015-5	3.0	0.5	3.0	2.0	4.2	3.0	2.0-4.2	MR
22	RMH-301	3.5	0.0	3.0	2.4	4.2	3.3	2.4-4.2	MS
23	VaMH 12014	3.5	0.0	3.0	2.1	4.6	3.3	2.1-4.6	MS
24	DAS-MH-308	3.8	0.0	3.0	1.9	-	2.9	1.9-3.8	MR
25	KH-2001 GOLD	3.8	0.5	3.5	2.4	3.4	3.3	2.4-3.8	MS

Contd.

Table-4 (62 B)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-4	3.5	0.0	3.5	2.1	4.4	3.4	2.1-4.4	MS
27	IMH1527	3.8	0.0	3.0	2.1	4.4	3.3	2.1-4.4	MS
28	PM15107M	3.5	0.5	4.0	2.5	2.6	3.2	2.5-4.0	MS
29	AH7009	4.0	1.0	3.5	1.7	4.2	3.4	1.7-4.2	MS
30	BRM 12-4	4.5	0.0	3.5	2.4	3.2	3.4	2.4-4.5	MS
31	LMH 715	4.3	1.0	3.0	1.7	3.6	3.1	1.7-4.3	MS
32	LMH 515	2.5	0.5	3.0	2.1	4.6	3.0	2.1-4.6	MR
33	BAUMC-3	4.0	1.0	3.0	2.4	4.0	3.4	2.4-4.0	MS
34	Muskan	3.5	0.0	3.0	1.5	4.7	3.2	1.5-4.7	MS
35	BL 107	4.0	1.0	3.5	2.6	3.5	3.4	2.6-4.0	MS
36	KMH 13-79	4.0	0.0	4.0	1.4	4.0	3.4	1.4-4.0	MS
37	GK3131	4.3	1.0	4.0	2.2	4.3	3.7	2.2-4.3	MS
38	EH-2214	4.0	1.0	3.0	2.3	4.0	3.3	2.3-4.0	MS
39	HKH 350	4.3	0.0	3.5	1.4	4.2	3.3	1.4-4.3	MS
40	IMH1524	3.3	1.0	3.0	2.6	4.3	3.3	2.6-4.3	MS
41	BGMH2 (CAH1454)	4.0	0.0	3.0	2.1	4.6	3.4	2.1-4.6	MS
42	HM 9-C	3.3	1.0	3.5	2.2	4.7	3.4	2.2-4.7	MS
43	BIO 9637-C	2.3	0.5	3.0	2.5	3.6	2.8	2.3-3.6	MR
44	PMH-4-C	4.0	1.0	4.0	1.5	2.6	3.0	1.5-4.0	MR
45	Resistant check	2.5	-	-	1.8	-	2.2	1.8-2.5	MR
46	Susceptible check	4.8	1.0	4.0	3.6	-	4.1	3.6-4.8	S

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM 501 **(DELHI);** P3441 **(BHUBNESW**
HKI 1105+ HKI 536CBT **(KARNAL)**

* Data not considered due to low disease pressure

Contd.

Table-3 (62 A)

		P.rust Score(1-5)		C.rust Score(1-5)		C.ROT (1-5)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	JH 13348	3.3	S	3.5	S	3.6	4.9	5.2	4.6	3.6-5.2	MR
2	BRM 12-3	1.8	MR	1.0	R	4.3	4.7	5.3	4.8	4.3-5.3	MR
3	KNMH-4505	4.3	HS	5.0	HS	4.3	4.4	3.7	4.1	3.7-4.4	MR
4	CMH11-620	4.8	HS	1.0	R	6.2	4.2	5.4	5.3	4.2-6.2	MS
5	MMH-4-15	4.8	HS	1.0	R	6.7	4.1	2.8	4.5	2.8-6.7	MR
6	AMH-3435	1.8	MR	1.0	R	4.5	5.3	4.8	4.9	4.5-5.3	MR
7	UDMH-127	4.5	HS	4.0	S	4.7	4.8	5.6	5.0	4.7-5.6	MR
8	JKMH 4103	1.8	MR	1.0	R	6.8	4.8	4.5	5.4	4.5-6.8	MS
9	CMH12-699	5.0	HS	1.0	R	4.2	3.7	6.9	4.9	3.7-6.9	MR
10	NMH-3746	1.8	MR	1.0	R	5.0	4.9	5.8	5.2	4.9-5.8	MS
11	PMSW4	4.8	HS	4.0	S	5.6	4.6	5.9	5.4	4.6-5.9	MS
12	EH-2480	4.8	HS	4.0	S	5.2	4.6	5.9	5.2	4.6-5.9	MS
13	PMSY3	4.8	HS	3.0	MS	5.4	5.1	5.8	5.4	5.1-5.8	MS
14	KNMH-4507	5.0	HS	4.5	HS	5.8	5.3	5.5	5.5	5.3-5.8	MS
15	KNMH-4501	4.5	HS	3.7	S	5.7	4.6	6.1	5.4	4.6-6.1	MS
16	PROLINE-511	3.3	S	1.0	R	4.9	4.2	5.7	4.9	4.2-5.7	MR
17	IMH1526	3.3	S	1.0	R	6.4	4.0	6.5	5.6	4.0-6.5	MS
18	RCRMH1 (HTMR1)	5.0	HS	1.0	R	5.6	3.3	6.1	5.0	3.3-6.1	MR
19	LMH 615	1.8	MR	4.0	S	5.4	4.8	5.9	5.4	4.8-5.9	MS
20	OMH 14-64(CAH 1532)	2.8	MS	1.0	R	4.5	4.6	5.7	4.9	4.5-5.7	MR
21	AH7007	3.3	S	2.0	MR	7.1	5.2	5.7	6.0	5.2-7.1	MS
22	HM15206	4.8	HS	3.0	MS	4.4	4.6	6.9	5.3	4.4-6.9	MS
23	LMH 915	4.8	HS	3.0	MS	6.6	4.2	4.8	5.2	4.2-6.6	MS
24	NMH 109	4.8	HS	4.0	S	3.7	4.3	4.5	4.2	3.7-4.5	MR
25	MMH-3-15	5.0	HS	3.0	MS	6.9	5.1	5.5	5.8	5.1-6.9	MS

Contd.

Table-3 (62 A)

		P.rust Score(1-5)		C.rust Score(1-5)		C.ROT (1-5)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-2	4.0	S	2.5	MS	6.6	4.2	5.9	5.6	4.2-6.6	MS
27	BL 106	4.5	HS	4.5	HS	4.6	3.7	6.2	4.8	3.7-6.2	MR
28	IIMRNH 2015-1	4.8	HS	4.0	S	7.5	4.6	6.5	6.2	4.6-7.5	MS
29	LMH 815	4.8	HS	1.0	R	5.0	3.0	6.5	4.8	3.0-6.5	MR
30	IMH1525	3.3	S	1.0	R	7.4	5.0	6.2	6.2	5.0-7.4	MS
31	KMH 13-5	4.8	HS	2.0	MR	5.8	5.1	6.3	5.7	5.1-6.3	MS
32	JH 13347	3.3	S	1.0	R	5.2	4.7	6.1	5.3	4.7-6.1	MS
33	HM15207	3.3	S	2.5	MS	4.8	4.2	5.5	4.8	4.2-5.5	MR
34	IMH1530	5.0	HS	1.0	R	5.0	4.9	6.8	5.6	4.9-6.8	MS
35	SRIKAR 2079	4.5	HS	3.0	MS	6.0	4.0	3.2	4.4	3.2-6.0	MR
36	DAS-MH-309	3.5	S	1.0	R	3.8	4.1	5.5	4.5	3.8-5.5	MR
37	BIO 509	3.8	S	2.0	MR	5.0	4.2	4.5	4.6	4.2-5.0	MR
38	IIMRNH 2015-3	4.8	HS	3.2	S	5.9	4.8	6.2	5.6	4.8-6.2	MS
39	EH-2233	4.8	HS	4.0	S	4.8	4.9	5.3	5.0	4.8-5.3	MR
40	Mahabeej-1302	5.0	HS	3.0	MS	6.6	5.2	5.3	5.7	5.2-6.6	MS
41	JKMH 4333	2.0	MR	4.0	S	4.8	4.4	6.9	5.4	4.4-6.9	MS
42	HM 9-C	4.0	S	1.0	R	6.7	4.4	7.2	6.1	4.4-7.2	MS
43	BIO 9637-C	4.5	HS	1.0	R	5.9	5.1	1.7	4.2	1.7-5.9	MR
44	PMH-4-C	3.3	S	2.0	MR	5.4	4.4	5.1	5.0	4.4-5.4	MR
45	Resistant check	1.8	MR	2.0	MR	-	3.2	1.0	2.1	1.0-3.2	R
46	Susceptible check	3.8	S	4.0	S	6.8	6.3	9.0	7.4	6.3-9.0	S

Resistant Check : P. RUST:- NITHYASHREE **(MANDYA); C. RUST;-** CI 4 **(DHARWAD) C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD); C. ROT:- CM 600 (LUDHIANA); BML 6 **(HYDERABAD);** CM 501**(COIMBATORE)**

Contd.

Table-4 (62 B)

		P.rust Score(1-5)		C.rust Score(1-5)		C.ROT (1-5)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	IMH1534	3.3	S	4.0	S	4.3	4.8	2.6	3.9	2.6-4.8	MR
2	DH-293	3.0	MS	1.5	MR	4.1	4.4	3.6	4.0	3.6-4.4	MR
3	RCRMH2 (HTMR2)	1.8	MR	2.0	MR	3.4	4.3	3.1	3.6	3.1-4.3	MR
4	KNMH-4508	4.5	HS	3.0	MS	4.0	4.4	2.7	3.7	2.7-4.4	MR
5	AH1401	5.0	HS	4.0	S	6.0	5.3	1.6	4.3	1.6-6.0	MR
6	KNMH-4504	3.3	S	3.5	S	5.7	4.9	5.9	5.5	4.9-5.9	MS
7	KNMH-4502	5.0	HS	3.7	S	5.2	4.6	5.1	5.0	4.6-5.2	MR
8	LMH 1015	3.3	S	1.0	R	5.6	5.1	5.4	5.4	5.1-5.6	MS
9	IMH1533	3.3	S	3.0	MS	6.8	4.6	6.2	5.9	4.6-6.8	MS
10	Ganga-11	4.5	HS	1.0	R	6.2	5.1	6.0	5.8	5.1-6.2	MS
11	HT 515349	3.0	MS	1.0	R	4.2	5.0	4.1	4.4	4.1-5.0	MR
12	JH 31820	4.8	HS	2.0	MR	4.8	4.3	4.1	4.4	4.1-4.8	MR
13	CMH12-672	4.8	HS	3.0	MS	6.1	4.9	4.2	5.0	4.2-6.1	MR
14	BGMH1 (CAH1526)	3.0	MS	1.0	R	4.1	5.1	5.1	4.8	4.1-5.1	MR
15	OMH 14-7(CAH 1538)	3.5	S	1.0	R	3.0	5.1	3.5	3.9	3.0-5.1	MR
16	BIO 274	1.8	MR	1.0	R	3.4	4.6	4.8	4.2	3.4-4.8	MR
17	DH-294	3.0	MS	3.0	MS	4.0	3.8	5.2	4.3	3.8-5.2	MR
18	VEH 15-1	3.3	S	1.0	R	4.5	4.8	5.3	4.9	4.5-5.3	MR
19	KMH-5332	2.8	MS	2.0	MR	4.6	4.1	3.6	4.1	3.6-4.6	MR
20	PHM 34	5.0	HS	3.0	MS	7.0	5.4	4.8	5.7	4.8-7.0	MS
21	IIMRNH 2015-5	3.3	S	4.0	S	5.8	5.1	4.9	5.3	4.9-5.8	MS
22	RMH-301	4.8	HS	4.0	S	4.3	4.4	5.1	4.6	4.3-5.1	MR
23	VaMH 12014	3.3	S	2.0	MR	3.7	5.2	5.4	4.8	3.7-5.4	MR
24	DAS-MH-308	3.3	S	1.0	R	4.1	5.0	2.0	3.7	2.0-5.0	MR
25	KH-2001 GOLD	2.0	MR	2.0	MR	6.8	4.7	3.6	5.0	3.6-6.8	MR

Contd.

Table-4 (62 B)

		P.rust Score(1-5)		C.rust Score(1-5)		C.ROT (1-5)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
26	IIMRNH 2015-4	2.8	MS	3.0	MS	5.2	4.6	1.7	3.8	1.7-5.2	MR
27	IMH1527	4.0	S	4.0	S	5.8	5.2	5.0	5.3	5.0-5.8	MS
28	PM15107M	3.3	S	1.0	R	2.9	4.9	5.9	4.6	2.9-5.9	MR
29	AH7009	1.8	MR	2.0	MR	6.7	4.4	6.9	6.0	4.4.-6.9	MS
30	BRM 12-4	3.3	S	4.0	S	5.4	5.3	5.9	5.5	5.3-5.9	MS
31	LMH 715	4.5	HS	3.0	MS	4.0	4.3	5.3	4.5	4.0-5.3	MR
32	LMH 515	3.3	S	3.0	MS	3.8	5.2	7.2	5.4	3.8-7.2	MS
33	BAUMC-3	4.8	HS	3.0	MS	4.4	5.1	7.8	5.8	4.4-7.8	MS
34	Muskan	3.3	S	2.0	MR	3.6	5.2	5.7	4.8	3.6-5.7	MR
35	BL 107	2.0	MR	4.0	S	4.1	4.7	4.8	4.5	4.1-4.8	MR
36	KMH 13-79	2.0	MR	2.0	MR	6.9	4.2	6.4	5.8	4.2-6.9	MS
37	GK3131	4.8	HS	1.5	MR	6.4	5.3	2.2	4.6	2.2-6.4	MR
38	EH-2214	3.3	S	3.0	MS	5.2	4.3	5.7	5.1	4.3-5.7	MS
39	HKH 350	2.0	MR	3.0	MS	5.6	5.3	5.5	5.5	5.3-5.6	MS
40	IMH1524	1.8	MR	3.0	MS	7.5	4.8	5.0	5.8	4.8-7.5	MS
41	BGMH2 (CAH1454)	2.3	MS	1.0	R	3.9	5.6	6.0	5.2	3.9-6.0	MS
42	HM 9-C	1.8	MR	3.5	S	6.8	4.3	5.1	5.4	4.3-6.8	MS
43	BIO 9637-C	4.3	HS	4.0	S	5.2	4.9	5.8	5.3	4.9-5.8	MS
44	PMH-4-C	1.8	MR	2.0	MR	4.9	4.3	5.4	4.9	4.3-5.4	MR
45	Resistant check	1.5	MR	2.0	MR	-	3.3	1.0	2.2	1.0-3.3	R
46	Susceptible check	3.8	S	4.0	S	6.9	6.7	8.4	7.3	6.7-8.4	S

Resistant Check : P. RUST:- NITHYASHREE **(MANDYA); C. RUST;-** CI 4 **(DHARWAD); C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check :- P. RUST :-CM 202(MANDYA); C.rust:- CM 202 (DHARWAD); C. ROT:- CM 600 (LUDHIANA); BML 6 **(HYDERABAD);** CM501 **(COIMBATORE)**

Contd.

Table-3 (62 A)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	JH 13348	3.6	MR	97.9	S	0.0	R
2	BRM 12-3	4.2	MR	92.9	S	8.0	R
3	KNMH-4505	3.0	R	96.2	S	15.0	MR
4	CMH11-620	3.5	MR	98.2	S	31.0	MS
5	MMH-4-15	4.4	MR	100.0	S	10.0	R
6	AMH-3435	6.6	MS	75.5	S	17.5	MR
7	UDMH-127	2.3	R	NG	-	21.5	MR
8	JKMH 4103	4.0	MR	96.4	S	20.0	MR
9	CMH12-699	4.5	MR	91.3	S	15.5	MR
10	NMH-3746	4.2	MR	64.6	S	0.0	R
11	PMSW4	4.5	MR	100.0	S	16.0	MR
12	EH-2480	2.4	R	100.0	S	65.0	S
13	PMSY3	4.4	MR	100.0	S	19.5	MR
14	KNMH-4507	2.9	R	70.5	S	14.5	MR
15	KNMH-4501	3.4	MR	93.0	S	0.0	R
16	PROLINE-511	4.0	MR	100.0	S	6.0	R
17	IMH1526	3.2	MR	100.0	S	10.0	R
18	RCRMH1 (HTMR1)	5.0	MR	94.2	S	7.5	R
19	LMH 615	2.4	R	100.0	S	10.0	R
20	OMH 14-64(CAH 1532)	3.5	MR	100.0	S	7.0	R
21	AH7007	4.6	MR	100.0	S	14.5	MR
22	HM15206	3.9	MR	90.6	S	17.5	MR
23	LMH 915	3.4	MR	97.7	S	21.0	MR
24	NMH 109	2.7	R	100.0	S	0.0	R
25	MMH-3-15	2.8	R	100.0	S	7.5	R

Contd.

Table-3 (62 A)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
26	IIMRNH 2015-2	3.1	MR	100.0	S	19.0	MR
27	BL 106	2.8	R	100.0	S	15.0	MR
28	IIMRNH 2015-1	2.6	R	100.0	S	9.0	R
29	LMH 815	4.3	MR	100.0	S	19.0	MR
30	IMH1525	4.7	MR	97.5	S	14.0	MR
31	KMH 13-5	4.6	MR	96.4	S	32.0	MS
32	JH 13347	2.3	R	100.0	S	23.5	MR
33	HM15207	4.6	MR	95.0	S	22.5	MR
34	IMH1530	2.6	R	100.0	S	19.5	MR
35	SRIKAR 2079	2.1	R	81.6	S	11.0	MR
36	DAS-MH-309	2.9	R	91.7	S	17.5	MR
37	BIO 509	2.8	R	56.4	S	10.5	MR
38	IIMRNH 2015-3	3.0	R	92.3	S	5.0	R
39	EH-2233	2.8	R	92.1	S	15.0	MR
40	Mahabeej-1302	4.8	MR	94.7	S	31.0	MS
41	JKMH 4333	2.9	R	100.0	S	15.5	MR
42	HM 9-C	2.9	R	100.0	S	27.5	MS
43	BIO 9637-C	2.8	R	86.0	S	18.5	MR
44	PMH-4-C	1.8	R	100.0	S	7.0	R
45	Resistant check	-	-	11.8	MR	-	-
46	Susceptible check	8.3	S	100.0	S	89.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA)

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM;** SURYA **(UDAIPUR)**

Contd.

Table-4 (62 B)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	IMH1534	5.1	MS	100.0	S	0.0	R
2	DH-293	3.9	MR	100.0	S	0.0	R
3	RCRMH2 (HTMR2)	2.7	R	94.4	S	5.5	R
4	KNMH-4508	3.2	MR	94.0	S	4.5	R
5	AH1401	4.3	MR	100.0	S	77.5	S
6	KNMH-4504	3.3	MR	96.2	S	0.0	R
7	KNMH-4502	1.8	R	97.1	S	10.5	MR
8	LMH 1015	2.7	R	97.9	S	5.5	R
9	IMH1533	2.3	R	100.0	S	14.5	MR
10	Ganga-11	5.0	MR	97.7	S	0.0	R
11	HT 515349	7.5	S	87.2	S	6.0	R
12	JH 31820	2.4	R	100.0	S	0.0	R
13	CMH12-672	3.3	MR	92.5	S	5.0	R
14	BGMH1 (CAH1526)	3.2	MR	97.6	S	22.5	MR
15	OMH 14-7(CAH 1538)	6.4	MS	61.4	S	0.0	R
16	BIO 274	2.5	R	17.2	MR	7.0	R
17	DH-294	2.7	R	100.0	S	0.0	R
18	VEH 15-1	3.2	MR	95.5	S	5.0	R
19	KMH-5332	4.0	MR	97.9	S	0.0	R
20	PHM 34	5.7	MS	100.0	S	8.0	R
21	IIMRNH 2015-5	2.5	R	100.0	S	6.0	R
22	RMH-301	2.1	R	100.0	S	0.0	R
23	VaMH 12014	4.3	MR	87.5	S	0.0	R
24	DAS-MH-308	3.2	MR	100.0	S	14.0	MR
25	KH-2001 GOLD	3.1	MR	100.0	S	17.5	MR

Contd.

Table-4 (62 B)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
26	IIMRNH 2015-4	3.6	MR	91.1	S	15.0	MR
27	IMH1527	4.1	MR	97.5	S	12.0	MR
28	PM15107M	3.2	MR	75.0	S	18.0	MR
29	AH7009	2.8	R	97.1	S	5.5	R
30	BRM 12-4	4.4	MR	52.9	S	41.5	MS
31	LMH 715	3.2	MR	84.8	S	0.0	R
32	LMH 515	3.3	MR	84.2	S	0.0	R
33	BAUMC-3	4.1	MR	57.4	S	9.0	R
34	Muskan	6.3	MS	75.2	S	0.0	R
35	BL 107	3.9	MR	100.0	S	7.0	R
36	KMH 13-79	4.2	MR	100.0	S	0.0	R
37	GK3131	4.9	MR	100.0	S	0.0	R
38	EH-2214	3.0	R	86.4	S	10.0	R
39	HKH 350	4.6	MR	100.0	S	8.0	R
40	IMH1524	4.0	MR	100.0	S	0.0	R
41	BGMH2 (CAH1454)	5.6	MS	100.0	S	7.0	R
42	HM 9-C	4.2	MR	100.0	S	9.0	R
43	BIO 9637-C	3.5	MR	100.0	S	0.0	R
44	PMH-4-C	4.0	MR	100.0	S	0.0	R
45	Resistant check	-	-	19.9	MR	-	-
46	Susceptible check	7.8	S	97.4	S	86.5	S

Resistant Check : SDM:- NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM:** SURYA **(UDAIPUR**

Contd.

Table-3 (62 A)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	JH 13348	2.9	23.8	13.4	2.9-23.8	MR	4--9	MR
2	BRM 12-3	12.9	10.8	11.9	10.8-12.9	MR	23--32	S
3	KNMH-4505	22.7	26.7	24.7	22.7-26.7	MR	7--14	S
4	CMH11-620	11.0	56.7	33.8	11.0-56.7	MS	10--16	S
5	MMH-4-15	35.9	8.7	22.3	8.7-35.9	MR	15--24	S
6	AMH-3435	7.0	38.6	22.8	7.0-38.6	MR	31--39	S
7	UDMH-127	13.3	52.1	32.7	13.3-52.1	MS	10--18	S
8	JKMH 4103	37.0	18.3	27.6	18.3-37.0	MS	16--22	S
9	CMH12-699	6.9	17.8	12.4	6.9-17.8	MR	7--12	S
10	NMH-3746	16.0	9.1	12.5	9.1-16.0	MR	24--33	S
11	PMSW4	16.2	35.0	25.6	16.2-35.0	MS	20--26	S
12	EH-2480	5.6	75.0	40.3	5.6-75.0	MS	23--35	S
13	PMSY3	21.3	13.6	17.5	13.6-21.3	MR	20--32	S
14	KNMH-4507	15.6	7.7	11.7	7.7-15.6	MR	18--25	S
15	KNMH-4501	8.9	24.4	16.6	8.9-24.4	MR	15--21	S
16	PROLINE-511	11.0	19.8	15.4	11.0-19.8	MR	20--27	S
17	IMH1526	16.0	24.2	20.1	16.0-24.2	MR	29--37	S
18	RCRMH1 (HTMR1)	0.0	43.2	21.6	0.0-43.2	MR	17--23	S
19	LMH 615	3.1	5.6	4.4	3.1-5.6	R	10--16	S
20	OMH 14-64(CAH 1532)	14.8	10.7	12.8	10.7-14.8	MR	12--19	S
21	AH7007	18.1	53.1	35.6	18.1-53.1	MS	26--33	S
22	HM15206	4.6	11.5	8.0	4.6-11.5	MS	20--29	S
23	LMH 915	26.3	9.1	17.7	9.01-26.3	MR	28--36	S
24	NMH 109	17.1	25.6	21.3	17.1-25.6	MR	13--20	S
25	MMH-3-15	13.9	46.0	29.9	13.9-46.0	MS	21--28	S

Contd.

Table-3 (62 A)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
26	IIMRNH 2015-2	25.4	8.3	16.9	8.3-25.4	MR	8--14	S
27	BL 106	17.7	40.5	29.1	17.7-40.5	MS	21--27	S
28	IIMRNH 2015-1	11.5	32.6	22.0	11.5-32.6	MR	25--31	S
29	LMH 815	11.3	27.8	19.5	11.3-27.8	MR	11--17	S
30	IMH1525	16.8	25.0	20.9	16.8-25.0	MR	30--40	S
31	KMH 13-5	11.0	36.5	23.8	11.0-36.5	MR	28--37	S
32	JH 13347	12.2	39.1	25.7	12.2-39.1	MS	3--8	MR
33	HM15207	24.3	26.9	25.6	24.3-26.9	MS	21--30	S
34	IMH1530	43.1	20.2	31.6	20.2-43.1	MS	15--24	S
35	SRIKAR 2079	29.2	56.7	42.9	29.2-56.7	MS	20--28	S
36	DAS-MH-309	18.3	12.5	15.4	12.5-18.3	MR	17--25	S
37	BIO 509	11.3	12.5	11.9	11.3-12.5	MR	4--8	MR
38	IIMRNH 2015-3	15.0	39.4	27.2	15.0-39.4	MS	11--18	S
39	EH-2233	14.4	41.4	27.9	14.4-41.4	MS	12--20	S
40	Mahabeej-1302	21.9	25.0	23.4	21.9-25.0	MR	25--31	S
41	JKMH 4333	13.8	24.6	19.2	13.8-24.6	MR	18--24	S
42	HM 9-C	12.7	15.0	13.8	12.7-15.0	MR	15--22	S
43	BIO 9637-C	13.3	15.7	14.5	13.3-15.7	MR	28--34	S
44	PMH-4-C	0.0	22.1	11.1	0.0-22.1	MR	29--37	S
45	Resistant check	3.9	-	3.9	0.0-3.9	R	6--11	S
46	Susceptible check	39.2	31.7	35.5	31.7-39.2	MS	30--37	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table-4 (62 B)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
1	IMH1534	22.7	9.1	15.9	9.1-22.7	MR	25--31	S
2	DH-293	20.2	22.3	21.2	20.2-22.3	MR	33--45	S
3	RCRMH2 (HTMR2)	9.1	26.5	17.8	9.1-26.5	MR	3--9	MR
4	KNMH-4508	17.1	20.2	18.6	17.1-20.2	MR	16--23	S
5	AH1401	33.6	11.0	22.3	11.0-33.6	MR	33--42	S
6	KNMH-4504	18.4	11.5	15.0	11.5-18.4	MR	14--20	S
7	KNMH-4502	15.7	14.6	15.2	14.6-15.7	MR	15--22	S
8	LMH 1015	19.5	33.3	26.4	19.5-33.3	MS	10--18	S
9	IMH1533	35.4	24.4	29.9	24.4-35.4	MS	21--26	S
10	Ganga-11	38.9	29.9	34.4	29.9-38.9	MS	13--19	S
11	HT 515349	11.2	6.3	8.8	6.3-11.2	R	36--45	S
12	JH 31820	19.2	15.5	17.4	15.5-19.2	MR	18--24	S
13	CMH12-672	32.1	15.0	23.6	15.0-32.1	MR	21--27	S
14	BGMH1 (CAH1526)	11.3	11.8	11.5	11.3-11.8	MR	19--25	S
15	OMH 14-7(CAH 1538)	13.9	11.5	12.7	11.5-13.9	MR	29--38	S
16	BIO 274	18.1	9.1	13.6	9.1-18.1	MR	15--22	S
17	DH-294	20.8	10.7	15.8	10.7-20.8	MR	8--15	S
18	VEH 15-1	17.4	15.0	16.2	15.0-17.4	MR	19--26	S
19	KMH-5332	9.8	50.0	29.9	9.8-50.0	MS	34--43	S
20	PHM 34	22.7	20.0	21.4	20.0-22.7	MR	38--49	S
21	IIMRNH 2015-5	13.9	12.5	13.2	12.5-13.9	MR	10--16	S
22	RMH-301	23.9	11.7	17.8	11.7-23.9	MR	12--20	S
23	VaMH 12014	14.2	14.6	14.4	14.2-14.6	MR	18--28	S
24	DAS-MH-308	18.3	11.1	14.7	11.1-18.3	MR	11--16	S
25	KH-2001 GOLD	24.3	35.6	29.9	24.3-35.6	MS	7--14	S

Contd.

Table-4 (62 B)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	Genotype	PANT	DHAU	Av. Score	Range	Reaction	UDAI	Reaction
26	IIMRNH 2015-4	24.8	13.6	19.2	13.6-24.8	MR	15--21	S
27	IMH1527	4.2	27.2	15.7	4.2-27.2	MR	23--32	S
28	PM15107M	14.8	5.0	9.9	5.0-14.8	R	3--8	MR
29	AH7009	12.7	18.8	15.7	12.7-18.8	MR	10--16	S
30	BRM 12-4	0.0	9.4	4.7	0.0-9.4	R	31--40	S
31	LMH 715	21.6	25.0	23.3	21.6-25.0	MR	9--15	S
32	LMH 515	12.2	36.9	24.5	12.2-36.9	MR	21--30	S
33	BAUMC-3	13.9	36.9	25.4	13.9-36.9	MS	24--33	S
34	Muskan	14.8	33.3	24.1	14.8-33.3	MR	38--46	S
35	BL 107	4.6	7.1	5.8	4.6-7.1	R	10--17	S
36	KMH 13-79	20.7	11.5	16.1	11.5-20.7	MR	34--42	S
37	GK3131	22.3	15.4	18.8	15.4-22.3	MR	27--34	S
38	EH-2214	18.3	23.7	21.0	18.3-23.7	MR	10--19	S
39	HKH 350	12.5	12.5	12.5	12.5-12.5	MR	18--26	S
40	IMH1524	29.2	12.5	20.8	12.5-29.2	MR	13--20	S
41	BGMH2 (CAH1454)	25.0	20.8	22.9	20.8-25.0	MR	24--35	S
42	HM 9-C	12.2	7.1	9.6	7.1-12.2	R	7--14	S
43	BIO 9637-C	7.1	3.1	5.1	3.1-7.1	R	6--11	S
44	PMH-4-C	4.2	15.3	9.7	4.2-15.3	R	4--9	MR
45	Resistant check	7.9	-	7.9	7.9	R	7--13	S
46	Susceptible check	33.3	27.1	30.2	27.1-33.3	MS	25--33	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table 5.Disease screening of IVT (early maturity & extra early maturity) maize hybrids (Trial 63 & 64)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHO**	**KAR**	**LUD**	**DEL**	**Av. Score**	**Range**	**Reaction**
1	LMH 1215	2.5	2.4	2.0	2.5	2.4	2.0-2.5	MR
2	DH-291	1.0	2.3	2.0	2.5	2.0	1.0-2.5	R
3	AH1402	2.0	1.8	2.8	2.0	2.1	1.8-2.8	MR
4	DMRH1305	2.0	2.5	2.0	2.5	2.3	2.0-2.5	MR
5	MEH-2-15	2.0	3.4	3.3	2.0	2.7	2.0-3.4	MR
6	H-100 (CAH-1527)	1.0	1.7	2.3	2.0	1.7	1.0-2.3	R
7	LMH 1315	1.5	3.1	3.3	2.5	2.6	1.5-3.3	MR
8	Khushi	1.0	2.0	2.3	2.0	1.8	1.0-2.3	R
9	CMH12-703	3.0	2.3	2.0	2.5	2.5	2.0-3.0	MR
10	NMH-51	1.5	2.3	2.5	2.5	2.2	1.5-2.5	MR
11	KMH-5510	1.5	1.9	2.5	2.0	2.0	1.5-2.5	R
12	JH 31785	1.5	3.0	2.0	2.0	2.1	1.5-3.0	MR
13	EH-2416	1.0	2.6	3.3	2.5	2.3	1.0-3.3	MR
14	FH 3754	1.5	2.4	2.0	2.0	2.0	1.5-2.4	R
15	IH-0953	1.0	2.8	3.8	2.5	2.5	1.0-3.8	MR
16	JKMH 4222	1.5	2.4	2.3	2.5	2.2	1.5-2.5	MR
17	BL 104	1.5	3.2	2.3	2.5	2.4	1.5-3.2	MR
18	BRM 12-2	2.5	2.4	2.8	2.0	2.4	2.0-2.8	MR
19	LMH 1115	1.5	2.6	3.8	2.5	2.6	1.5-3.8	MR
20	H-101 (CAH-1586)	1.0	2.6	2.3	2.5	2.0	1.0-2.6	R
21	FH 3729	2.0	2.6	2.8	2.5	2.5	2.0-2.8	MR
22	AH7006	1.5	2.3	2.3	2.0	2.0	1.5-2.3	R
23	MEH-1-15	1.5	2.6	3.8	2.0	2.5	1.5-3.8	MR
24	DH-292	2.0	2.3	2.3	2.0	2.1	2.0-2.3	MR
25	KMH 13-15	2.5	3.2	3.0	2.5	2.8	2.5-3.2	MR

Contd.

Table-5 (63 & 64)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
26	IH-0712	1.5	2.8	3.8	2.5	2.6	1.5-3.8	MR
27	CMH12-700	1.0	2.0	1.8	2.0	1.7	1.0-2.0	R
28	BRM 12-5	1.5	2.1	2.0	2.0	1.9	1.5-2.1	R
29	BL 105	2.0	2.6	2.3	2.5	2.3	2.0-2.6	MR
30	LMH 1515	2.0	2.2	2.3	2.5	2.2	2.0-2.5	MR
31	KMH 13-17	1.0	3.3	2.8	3.0	2.5	1.0-3.3	MR
32	FH 3728	1.0	2.4	2.3	2.5	2.0	1.0-2.5	R
33	LMH 1415	1.5	2.5	2.8	2.5	2.3	1.5-2.8	MR
34	PMH-5-C	1.5	2.8	2.5	2.0	2.2	1.5-2.8	MR
35	Parkash-C	2.5	2.6	3.5	2.5	2.8	2.5-3.5	MR
36	DH-298	2.0	3.4	3.8	3.5	3.2	2.0-3.8	MS
37	DH-297	2.0	3.0	2.5	3.5	2.8	2.0-3.5	MR
38	APH27-B	1.5	1.8	3.3	2.5	2.3	1.5-3.3	MR
39	Vivek Hybrid 21-C	1.5	2.4	2.3	2.5	2.2	1.5-2.5	MR
40	Vivek Hybrid 43-C	4.0	2.1	2.0	2.5	2.7	2.0-4.0	MR
41	Resistant check	-	1.2	-	-	1.2	1.2	R
42	Susceptible check	4.0	3.7	4.5	5.0	4.3	3.7-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 (**DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-5 (63 & 64)

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJ**	**ALM**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	LMH 1215	2.0	3.0	3.5	4.0	3.1	2.0-4.0	MS
2	DH-291	2.5	3.0	3.8	3.2	3.1	2.5-3.8	MS
3	AH1402	2.0	2.0	4.3	4.5	3.2	2.0-4.5	MS
4	DMRH1305	1.5	2.0	3.3	2.0	2.2	1.5-3.3	MR
5	MEH-2-15	2.8	3.0	4.0	4.5	3.6	2.8-4.5	MS
6	H-100 (CAH-1527)	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
7	LMH 1315	2.3	2.0	3.5	4.0	2.9	2.0-4.0	MR
8	Khushi	2.0	2.0	1.8	3.0	2.2	1.8-3.0	MR
9	CMH12-703	1.5	2.0	3.0	2.0	2.1	1.5-3.0	MR
10	NMH-51	2.0	3.0	3.5	4.0	3.1	2.0-4.0	MS
11	KMH-5510	1.8	2.0	4.0	4.0	2.9	1.8-4.0	MR
12	JH 31785	2.5	4.0	4.8	5.0	4.1	2.5-5.0	S
13	EH-2416	2.0	3.0	3.3	3.0	2.8	2.0-3.3	MR
14	FH 3754	2.0	3.0	4.3	3.0	3.1	2.0-4.3	MS
15	IH-0953	2.3	3.0	4.3	4.5	3.5	2.3-4.5	MS
16	JKMH 4222	1.8	3.0	4.0	4.0	3.2	1.8-4.0	MS
17	BL 104	2.0	3.0	3.8	3.7	3.1	2.0-3.8	MS
18	BRM 12-2	2.3	2.0	3.3	2.0	2.4	2.0-3.3	MR
19	LMH 1115	2.0	2.0	4.0	2.0	2.5	2.0-4.0	MR
20	H-101 (CAH-1586)	3.8	3.0	4.3	3.5	3.6	3.0-4.3	MS
21	FH 3729	2.0	2.0	3.5	4.0	2.9	2.0-4.0	MR
22	AH7006	2.0	2.0	3.5	2.5	2.5	2.0-3.5	MR
23	MEH-1-15	2.0	2.0	3.8	3.5	2.8	2.0-3.8	MR
24	DH-292	2.5	2.0	3.5	4.0	3.0	2.0-4.0	MR
25	KMH 13-15	2.8	2.0	4.0	4.0	3.2	2.0-4.0	MS

Contd.

Table-5 (63 & 64)

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
26	IH-0712	2.5	3.0	4.5	3.0	3.3	2.5-4.5	MS
27	CMH12-700	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
28	BRM 12-5	2.3	2.0	2.0	1.0	1.8	1.0-2.3	R
29	BL 105	2.0	2.0	2.8	1.0	2.0	1.0-2.8	R
30	LMH 1515	1.8	3.0	4.0	3.7	3.1	1.8-4.0	MS
31	KMH 13-17	2.0	3.0	3.5	3.0	2.9	2.0-3.5	MR
32	FH 3728	2.0	2.0	3.3	2.0	2.3	2.0-3.3	MR
33	LMH 1415	3.3	2.0	4.0	3.7	3.2	2.0-4.0	MS
34	PMH-5-C	4.5	5.0	4.8	5.0	4.8	4.5-5.0	S
35	Parkash-C	2.5	4.0	4.3	4.5	3.8	2.5-4.5	MS
36	DH-298	2.8	3.0	3.8	4.0	3.4	2.8-4.0	MS
37	DH-297	2.5	4.0	3.8	4.0	3.6	2.5-4.0	MS
38	APH27-B	2.0	2.0	3.8	3.0	2.7	2.0-3.8	MR
39	Vivek Hybrid 21-C	2.3	2.0	3.3	3.5	2.8	2.0-3.5	MR
40	Vivek Hybrid 43-C	1.8	2.0	4.0	2.0	2.4	1.8-4.0	MR
41	Resistant check	-	2.0	2.3	2.0	2.1	2.0-2.3	MR
42	Susceptible check	4.5	4.0	4.3	5.0	4.5	4.0-5.0	S

Resistant Check : TLB:- DHIARI **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202**(MANDYA):** CM202 **(DHARWA**

Contd.

Table-5 (63 & 64)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHU***	**DEL**	**KAR**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	LMH 1215	3.5	0.0	3.0	2.2	4.2	3.2	2.2-4.2	MS
2	DH-291	4.8	1.0	3.5	2.3	4.6	3.8	2.3-4.8	MS
3	AH1402	5.0	0.5	3.5	1.9	4.8	3.8	1.9-5.0	MS
4	DMRH1305	3.3	0.0	3.5	2.0	3.6	3.0	2.0-3.6	MR
5	MEH-2-15	3.8	0.0	3.0	2.2	4.8	3.4	2.2-4.8	MS
6	H-100 (CAH-1527)	4.0	0.0	3.0	1.7	3.6	3.1	1.7-4.0	MS
7	LMH 1315	3.8	0.0	3.5	1.7	2.3	2.8	1.7-3.8	MR
8	Khushi	3.5	0.0	3.0	1.8	2.4	2.7	1.8-3.5	MR
9	CMH12-703	3.5	1.0	3.0	2.0	4.4	3.2	2.0-4.4	MS
10	NMH-51	3.3	0.0	3.0	2.2	4.4	3.2	2.2-4.4	MS
11	KMH-5510	4.5	0.0	3.0	1.9	4.6	3.5	1.9-4.6	MS
12	JH 31785	3.8	0.5	3.0	2.0	4.3	3.3	2.0-4.3	MS
13	EH-2416	4.0	0.5	3.5	1.4	4.1	3.3	1.4-4.1	MS
14	FH 3754	4.3	0.0	3.5	2.1	4.1	3.5	2.1-4.3	MS
15	IH-0953	4.3	0.0	4.0	2.2	4.3	3.7	2.2-4.3	MS
16	JKMH 4222	4.0	0.0	3.0	1.7	4.6	3.3	1.7-4.6	MS
17	BL 104	3.5	0.5	3.5	2.0	3.9	3.2	2.0-3.9	MS
18	BRM 12-2	3.5	0.0	3.0	1.5	3.5	2.9	1.5-3.5	MR
19	LMH 1115	4.0	1.0	3.5	2.1	2.9	3.1	2.1-4.0	MS
20	H-101 (CAH-1586)	4.5	0.5	3.5	1.7	4.8	3.6	1.7-4.8	MS
21	FH 3729	4.0	1.0	3.5	2.0	3.4	3.2	2.0-4.0	MS
22	AH7006	3.8	1.0	3.0	1.8	4.4	3.2	1.8-4.4	MS
23	MEH-1-15	3.8	0.0	3.5	1.9	5.0	3.5	1.9-5.0	MS
24	DH-292	3.8	0.0	3.0	1.7	4.7	3.3	1.7-4.7	MS
25	KMH 13-15	4.0	0.0	3.0	2.4	4.4	3.5	2.4-4.4	MS

Contd.

Table-5 (63 & 64)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
26	IH-0712	4.8	0.0	3.5	2.2	4.1	3.6	2.2-4.8	MS
27	CMH12-700	2.5	0.0	3.0	1.6	4.8	3.0	1.6-4.8	MR
28	BRM 12-5	3.3	1.0	3.5	2.3	3.4	3.1	2.3-3.5	MS
29	BL 105	4.3	0.5	4.0	1.9	4.8	3.7	1.9-4.8	MS
30	LMH 1515	3.8	0.0	3.0	1.8	4.4	3.2	1.8-4.4	MS
31	KMH 13-17	4.3	0.0	3.5	2.1	4.2	3.5	2.1-4.3	MS
32	FH 3728	3.8	0.0	4.0	2.2	4.5	3.6	2.2-4.5	MS
33	LMH 1415	3.8	0.0	3.5	2.1	3.2	3.1	2.1-3.8	MS
34	PMH-5-C	4.8	0.0	3.0	2.3	3.2	3.3	2.3-4.8	MS
35	Parkash-C	4.3	0.0	3.0	1.8	3.6	3.2	1.8-4.3	MS
36	DH-298	5.0	0.0	4.0	1.7	3.9	3.7	1.7-5.0	MS
37	DH-297	4.5	1.0	4.0	2.2	4.7	3.9	2.2-4.7	MS
38	APH27-B	3.5	0.0	3.0	2.5	4.6	3.4	2.5-4.6	MS
39	Vivek Hybrid 21-C	4.3	0.5	4.0	2.2	4.7	3.8	2.2-4.7	MS
40	Vivek Hybrid 43-C	4.5	0.0	3.5	1.7	4.3	3.5	1.7-4.5	MS
41	Resistant check	2.5	-	-	1.5	-	2.0	1.5-2.5	R
42	Susceptible check	4.8	1.0	4.0	3.2	-	4.0	3.2-4.8	MS

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM501 **(DELHI);** P3441 **(BHUBNESW**
HKI 1105+ HKI 536CBT **(KARNNAL)**

* Data not considered due to low disease pressure

Contd.

Table-5 (63 & 64)

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUD**	**HYD**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	LMH 1215	4.8	HS	3.0	MS	4.7	5.3	1.8	3.9	1.8-5.3	MR
2	DH-291	3.3	S	2.0	MR	6.8	4.4	7.3	6.2	4.4-7.3	MS
3	AH1402	3.8	S	3.5	MS	6.4	5.2	4.8	5.5	4.8-6.4	MS
4	DMRH1305	4.8	HS	2.5	MS	7.2	4.5	5.7	5.8	4.5-7.2	MS
5	MEH-2-15	2.8	MS	3.0	MS	7.6	4.7	4.8	5.7	4.7-7.6	MS
6	H-100 (CAH-1527)	2.8	MS	1.0	R	4.9	5.5	5.8	5.4	4.9-5.8	MS
7	LMH 1315	4.8	HS	1.0	R	6.9	4.4	6.3	5.9	4.4-6.9	MS
8	Khushi	2.0	MR	1.0	R	4.4	3.9	6.2	4.8	3.9-4.4	MR
9	CMH12-703	4.8	HS	3.0	MS	3.5	4.5	4.9	4.3	3.5-4.9	MR
10	NMH-51	3.5	S	2.0	MR	6.0	4.7	5.9	5.5	4.7-6.0	MS
11	KMH-5510	5.0	HS	3.5	MS	6.6	4.2	6.7	5.8	4.2-6.7	MS
12	JH 31785	2.8	MS	1.0	R	6.2	4.7	6.8	5.9	4.7-6.8	MS
13	EH-2416	3.3	S	3.0	MS	6.4	5.2	6.4	6.0	5.2-6.4	MS
14	FH 3754	2.3	MS	1.0	R	6.8	4.8	5.2	5.6	4.8-6.8	MS
15	IH-0953	1.8	MR	2.5	MS	5.0	5.0	5.1	5.0	5.0-5.1	MR
16	JKMH 4222	2.3	MS	4.0	S	4.6	4.8	5.9	5.1	4.6-5.9	MS
17	BL 104	3.0	MS	2.0	MR	4.9	5.0	5.8	5.2	4.9-5.8	MS
18	BRM 12-2	3.0	MS	3.0	MS	5.7	5.2	5.8	5.5	5.2-5.8	MS
19	LMH 1115	4.5	HS	3.5	MS	6.7	4.6	5.4	5.6	4.6-6.7	MS
20	H-101 (CAH-1586)	2.3	MS	3.0	MS	5.7	5.0	5.3	5.3	5.0-5.7	MS
21	FH 3729	2.8	MS	2.0	MR	6.1	5.3	5.6	5.7	5.3-6.1	MS
22	AH7006	1.8	MR	3.0	MS	5.9	4.9	5.7	5.5	4.9-5.9	MS
23	MEH-1-15	4.5	HS	3.0	MS	7.3	5.4	5.2	6.0	5.2-7.3	MS
24	DH-292	1.8	MR	1.0	R	3.2	4.2	5.8	4.4	3.2-5.8	MR
25	KMH 13-15	2.8	MS	3.0	MS	5.2	4.3	5.3	4.9	4.3-5.3	MR

Contd.

Table-5 (63 & 64)

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
26	IH-0712	4.5	HS	5.0	HS	6.7	5.1	6.1	6.0	5.1-6.7	MS
27	CMH12-700	2.8	MS	2.0	MR	5.1	4.2	5.9	5.1	4.2-5.9	MS
28	BRM 12-5	3.3	S	1.0	R	5.3	5.3	2.6	4.4	2.6-5.3	MR
29	BL 105	3.3	S	1.0	R	5.2	4.8	6.4	5.5	4.8-6.4	MS
30	LMH 1515	2.8	MS	3.2	MS	6.5	4.4	5.3	5.4	4.4-6.5	MS
31	KMH 13-17	2.5	MS	3.0	MS	4.9	5.2	6.0	5.4	4.9-6.0	MS
32	FH 3728	3.8	S	1.0	R	5.1	4.3	2.8	4.1	2.8-5.1	MR
33	LMH 1415	4.5	HS	2.0	MR	5.0	5.3	3.9	4.7	3.9-5.3	MR
34	PMH-5-C	4.8	HS	2.0	MR	6.6	4.5	5.8	5.6	4.5-6.6	MS
35	Parkash-C	4.5	HS	2.0	MR	5.2	5.5	5.0	5.2	5.0-5.5	MS
36	DH-298	5.0	HS	3.5	MS	8.2	5.2	6.8	6.7	5.2-8.2	MS
37	DH-297	4.8	HS	3.0	MS	6.8	5.3	6.9	6.3	5.3-6.9	MS
38	APH27-B	3.3	S	3.0	MS	7.3	4.3	5.6	5.7	4.3-7.3	MS
39	Vivek Hybrid 21-C	4.5	HS	3.0	MS	6.2	5.3	5.3	5.6	5.3-6.2	MS
40	Vivek Hybrid 43-C	4.8	HS	4.0	S	6.1	5.1	5.4	5.5	5.1-6.1	MS
41	Resistant check	1.8	MR	2.0	MR	-	3.8	1.0	2.4	1.0-3.8	R
42	Susceptible check	3.8	S	4.0	S	6.5	6.7	9.0	7.4	6.5-9.0	S

Resistant Check : P. RUST:- NITHYASHREE **(MANDYA); C. RUST:-** CI 4 **(DHARWAD);**
C. ROT:- JCY 2-7 **(HYDEERABAD);** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :- CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA);
BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE)**

Contd.

Table-5 (63 & 64)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	LMH 1215	3.0	R	100.0	S	13.0	MR
2	DH-291	3.4	MR	96.3	S	0.0	R
3	AH1402	1.6	R	NG	S	0.0	R
4	DMRH1305	2.1	R	97.1	S	14.5	MR
5	MEH-2-15	3.4	MR	97.6	S	8.0	R
6	H-100 (CAH-1527)	4.9	MR	100.0	S	11.5	MR
7	LMH 1315	2.3	R	100.0	S	6.5	R
8	Khushi	3.4	MR	92.9	S	4.5	R
9	CMH12-703	3.3	MR	97.5	S	12.0	MR
10	NMH-51	2.8	R	100.0	S	8.5	R
11	KMH-5510	3.0	R	88.3	S	0.0	R
12	JH 31785	3.6	MR	100.0	S	10.5	MR
13	EH-2416	4.2	MR	97.5	S	0.0	R
14	FH 3754	6.0	MS	100.0	S	4.5	R
15	IH-0953	4.6	MR	100.0	S	0.0	R
16	JKMH 4222	2.7	R	94.3	S	0.0	R
17	BL 104	4.8	MR	100.0	S	0.0	R
18	BRM 12-2	3.3	MR	100.0	S	8.0	R
19	LMH 1115	5.4	MS	100.0	S	12.0	MR
20	H-101 (CAH-1586)	7.3	S	100.0	S	31.0	MS
21	FH 3729	4.3	MR	100.0	S	11.5	MR
22	AH7006	3.4	MR	100.0	S	5.5	R
23	MEH-1-15	5.3	MS	97.7	S	14.5	MR
24	DH-292	4.0	MR	62.5	S	12.5	MR
25	KMH 13-15	5.5	MS	100.0	S	15.0	MR

Contd.

Table-5 (63 & 64)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
26	IH-0712	3.9	MR	95.0	S	6.0	R
27	CMH12-700	3.1	MR	95.6	S	0.0	R
28	BRM 12-5	4.8	MR	97.5	S	0.0	R
29	BL 105	4.5	MR	100.0	S	12.5	MR
30	LMH 1515	2.8	R	100.0	S	5.0	R
31	KMH 13-17	3.8	MR	100.0	S	4.0	R
32	FH 3728	3.1	MR	100.0	S	13.0	MR
33	LMH 1415	3.5	MR	100.0	S	0.0	R
34	PMH-5-C	2.1	R	100.0	S	8.0	R
35	Parkash-C	3.9	MR	100.0	S	14.5	MR
36	DH-298	4.5	MR	100.0	S	14.5	MR
37	DH-297	4.2	MR	100.0	S	8.5	R
38	APH27-B	4.2	MR	100.0	S	15.5	MR
39	Vivek Hybrid 21-C	3.7	MR	100.0	S	13.5	MR
40	Vivek Hybrid 43-C	3.3	MR	100.0	S	9.0	R
41	Resistant check	-	-	18.8	MR	-	-
42	Susceptible check	7.5	S	96.9	S	83.5	S

Resistant Check : SDM:- NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM;** SURYA **(UDAIPUR)**

Contd.

Table-5 (63 & 64)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	LMH 1215	12.2	20.2	16.2	12.2-20.2	MR	5--10	S
2	DH-291	3.3	24.3	13.8	3.3-24.3	MR	11--20	S
3	AH1402	5.0	4.2	4.6	4.2-5.0	R	25--36	S
4	DMRH1305	14.7	35.0	24.8	14.7-35.0	MR	23--31	S
5	MEH-2-15	18.3	36.9	27.6	18.3-36.9	MS	20--28	S
6	H-100 (CAH-1527)	15.1	30.7	22.9	15.1-30.7	MR	30--37	S
7	LMH 1315	21.4	15.0	18.2	15.0-21.4	MR	11--18	S
8	Khushi	12.9	19.5	16.2	12.9-19.5	MR	22--30	S
9	CMH12-703	17.4	8.1	12.7	8.1-17.4	MR	21--27	S
10	NMH-51	9.1	10.0	9.5	9.01-10.0	R	30--41	S
11	KMH-5510	8.3	28.2	18.3	8.3-28.2	MR	17--24	S
12	JH 31785	13.9	31.7	22.8	13.9-31.7	MR	10--17	S
13	EH-2416	25.7	34.8	30.3	25.7-34.8	MS	16--25	S
14	FH 3754	19.4	14.5	16.9	14.5-19.4	MR	31--38	S
15	IH-0953	10.8	22.0	16.4	10.8-22.0	MR	10--18	S
16	JKMH 4222	13.6	45.5	29.6	13.6-45.5	MS	3--8	MR
17	BL 104	22.5	34.7	28.6	22.5-34.7	MS	22--32	S
18	BRM 12-2	17.8	31.7	24.7	17.8-69.7	MR	21--30	S
19	LMH 1115	18.9	69.7	44.3	18.9-69.7	MS	20--27	S
20	H-101 (CAH-1586)	43.1	26.1	34.6	26.1-43.1	MS	34--43	S
21	FH 3729	13.3	45.0	29.1	13.3-45.0	MS	20--26	S
22	AH7006	8.6	14.3	11.4	8.6-14.3	MR	10--18	S
23	MEH-1-15	21.1	29.2	25.2	21.1-29.2	MS	11--20	S
24	DH-292	5.0	30.3	17.7	5.0-30.3	MR	10--18	S
25	KMH 13-15	14.3	22.6	18.4	14.3-22.6	MR	21--28	S

Contd.

Table-5 (63 & 64)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
26	IH-0712	18.4	28.6	23.5	18.4-28.6	MR	31--39	S
27	CMH12-700	3.1	5.6	4.4	3.1-5.6	R	7--12	S
28	BRM 12-5	13.9	16.7	15.3	13.9-16.7	MR	22--28	S
29	BL 105	7.1	31.3	19.2	7.1-31.3	MR	23--34	S
30	LMH 1515	13.3	12.5	12.9	12.5-13.3	MR	9--18	S
31	KMH 13-17	23.6	22.9	23.3	23.6-22.9	MR	21--30	S
32	FH 3728	8.3	36.1	22.2	8.3-36.1	MR	14--22	S
33	LMH 1415	22.5	10.7	16.6	10.7-22.5	MR	19--28	S
34	PMH-5-C	26.8	17.0	21.9	17.0-26.8	MR	16--25	S
35	Parkash-C	20.2	60.0	40.1	20.2-60.0	MS	28--38	S
36	DH-298	17.9	56.1	37.0	17.9-56.1	MS	36--46	S
37	DH-297	28.1	34.3	31.2	28.1-34.3	MS	44--52	S
38	APH27-B	18.3	33.3	25.8	18.3-33.3	MS	38--47	S
39	Vivek Hybrid 21-C	22.1	25.0	23.6	22.1-25.0	MR	29--40	S
40	Vivek Hybrid 43-C	26.7	18.1	22.4	18.1-26.7	MR	16--24	S
41	Resistant check	0.0	-	0.0	0.0-0.0	R	7--12	S
42	Susceptible check	28.6	24.7	26.6	24-7-28.6	MS	28--35	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table 6. Disease screening of AVT I & II (late maturity) maize hybrids (Trial 75)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
	AVT-I LATE							
1	HT 51412616	1.0	2.2	2.3	2.0	1.9	1.0-2.3	R
2	VNR-4325	3.0	3.4	3.0	2.0	2.9	2.0-3.4	MR
3	DAS-MH-106	2.0	2.4	2.3	1.5	2.0	1.5-2.4	R
4	JH 13282	1.0	2.3	2.8	1.5	1.9	1.0-2.8	R
5	JH 12010	1.5	2.6	2.0	2.0	2.0	1.5-2.6	R
6	ADV 0990293	2.5	3.4	2.5	2.0	2.6	2.0-3.4	MR
7	PM14101L	1.0	2.4	2.0	2.0	1.9	1.0-2.4	R
8	DKC9159 (IN8570)	1.5	2.3	2.3	2.0	2.0	1.5-2.3	R
9	DMH 192	2.0	2.7	2.0	1.5	2.0	1.5-2.7	R
10	JH 13252	1.0	2.0	2.3	2.0	1.8	1.0-2.3	R
11	CMH 10-555	1.0	2.5	2.8	2.0	2.0	1.0-2.8	R
12	CMH 11-618	1.5	1.9	1.8	2.0	1.8	1.5-2.0	R
13	Gold 1166	1.0	3.1	2.3	1.5	2.0	1.0-3.1	R
14	CMH 12-663	1.5	2.4	2.8	2.0	2.2	1.5-2.8	MR
15	HT 51412607	2.0	2.2	2.5	2.0	2.2	2.0-2.5	MR
16	ADV 0990296	1.5	2.6	2.8	2.0	2.2	1.5-2.8	MR
17	PRMH-189	2.0	2.8	2.3	2.0	2.3	2.0-2.8	MR
18	ADV 1190384	2.5	2.8	2.3	2.0	2.4	2.0-2.8	MR
19	JH 13270	2.0	2.4	2.5	1.5	2.1	1.5-2.5	MR
20	DKC9151 (IN8902)	2.0	2.3	2.3	1.5	2.0	1.5-2.3	R
21	NMH-1247	1.5	2.6	2.0	1.5	1.9	1.5-2.6	R
22	Super-1177	2.0	2.0	2.3	2.0	2.0	2.0-2.3	R
23	KMH-3981	1.0	2.1	2.0	1.5	1.7	1.0-2.1	R
24	GK3118	1.0	1.9	2.3	1.5	1.7	1.0-2.3	R

Contd.

Table-6 (75)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
25	KH-2192	1.5	2.6	2.3	2.0	2.0	1.5-2.6	R
26	115-08-01	1.0	2.3	2.0	1.5	1.7	1.0-2.3	R
27	DMRH1308	1.5	2.4	1.8	2.0	1.9	1.5-2.4	R
	AVT-II LATE							
28	DKC9133	1.5	2.3	1.5	1.5	1.7	1.5-2.3	R
29	HTMH 5108	1.5	2.7	2.8	2.0	2.2	1.5-2.8	MR
30	DKC9141 (IM8539)	2.0	2.1	2.0	2.0	2.0	2.0-2.1	R
31	HTMH 5202	2.5	3.3	3.3	2.0	2.8	2.0-3.3	MR
32	IM8556	1.5	2.4	2.0	2.0	2.0	1.5-2.4	R
33	PRO-392	1.5	2.4	2.3	1.5	1.9	1.5-2.4	R
34	DAS-MH-105	1.0	2.9	2.0	1.5	1.9	1.0-2.9	R
35	CP.999	1.5	1.9	2.0	1.5	1.7	1.5-2.0	R
36	X35D601	1.5	2.4	3.5	2.5	2.5	1.5-3.5	MR
37	Siri-4527	1.5	2.4	1.8	2.0	1.9	1.5-2.4	R
38	PMH-1-C	1.0	2.5	1.5	2.0	1.8	1.0-2.5	R
39	PMH-3-C	1.0	2.1	2.0	2.0	1.8	1.0-2.1	R
40	Seedtech 2324-C	2.5	2.9	3.0	2.0	2.6	2.0-3.0	MR
41	BIO 9681-C	1.5	3.9	3.3	2.0	2.7	1.5-3.9	MR
42	Resistant check	-	1.6		-	1.6	1.6	R
43	Susceptible check	5.0	3.5	4.5	5.0	4.5	3.5-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-6 (75)

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
	AVT-I LATE							
1	HT 51412616	1.8	2.0	2.0	2.0	1.9	1.8-2.0	R
2	VNR-4325	2.3	3.0	2.8	4.0	3.0	2.3-4.0	MR
3	DAS-MH-106	2.0	2.0	2.0	1.0	1.8	1.0-2.0	R
4	JH 13282	2.5	3.0	3.5	5.0	3.5	2.5-5.0	MS
5	JH 12010	1.5	3.0	3.3	2.5	2.6	1.5-3.3	MR
6	ADV 0990293	1.5	3.0	3.0	2.0	2.4	1.5-3.0	MR
7	PM14101L	2.0	3.0	3.5	4.0	3.1	2.0-4.0	MS
8	DKC9159 (IN8570)	1.8	2.0	2.0	3.0	2.2	1.8-3.0	MR
9	DMH 192	2.0	2.0	2.8	2.0	2.2	2.0-2.8	MR
10	JH 13252	2.3	3.0	3.0	2.0	2.6	2.3-3.0	MR
11	CMH 10-555	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
12	CMH 11-618	1.5	2.0	2.8	2.0	2.0	1.5-2.8	R
13	Gold 1166	2.0	2.0	3.5	3.2	2.7	2.0-3.5	MR
14	CMH 12-663	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
15	HT 51412607	2.3	3.0	3.3	3.5	3.0	2.3-3.5	MR
16	ADV 0990296	2.0	3.0	3.5	3.0	2.9	2.0-3.5	MR
17	PRMH-189	1.8	3.0	3.8	3.5	3.0	1.8-3.8	MR
18	ADV 1190384	2.8	3.0	3.5	3.0	3.0	2.8-3.5	MR
19	JH 13270	2.0	3.0	3.0	3.0	2.8	2.0-3.0	MR
20	DKC9151 (IN8902)	1.5	3.0	3.3	2.0	2.5	1.5-3.3	MR
21	NMH-1247	2.0	3.0	3.8	4.0	3.2	2.0-4.0	MS
22	Super-1177	2.8	3.0	2.0	3.0	2.7	2.0-3.0	MR
23	KMH-3981	2.0	2.0	2.8	2.0	2.2	2.0-2.8	MR
24	GK3118	1.5	3.0	3.0	2.0	2.4	1.5-3.0	MR

Contd.

Table-6 (75)

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
25	KH-2192	1.5	4.0	3.5	3.5	3.1	1.5-4.0	MS
26	115-08-01	2.0	2.0	3.3	2.0	2.3	2.0-3.3	MR
27	DMRH1308	2.5	2.0	3.0	3.5	2.8	2.0-3.5	MR
	AVT-II LATE							
28	DKC9133	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
29	HTMH 5108	2.3	3.0	3.3	3.5	3.0	2.3-3.5	MR
30	DKC9141 (IM8539)	2.0	3.0	2.8	3.0	2.7	2.0-3.0	MR
31	HTMH 5202	1.8	3.0	3.8	5.0	3.4	1.8-5.0	MS
32	IM8556	2.0	4.0	4.0	4.5	3.6	2.0-4.5	MS
33	PRO-392	1.5	3.0	2.0	2.0	2.1	1.5-3.0	MR
34	DAS-MH-105	1.8	2.0	3.0	4.0	2.7	1.8-4.0	MR
35	CP.999	1.5	2.0	3.3	2.0	2.2	1.5-3.3	MR
36	X35D601	2.0	2.0	3.3	4.0	2.8	2.0-4.0	MR
37	Siri-4527	2.3	2.0	2.0	3.5	2.4	2.0-3.5	MR
38	PMH-1-C	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
39	PMH-3-C	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
40	Seedtech 2324-C	2.5	2.0	3.8	3.0	2.8	2.0-3.8	MR
41	BIO 9681-C	1.8	3.0	2.0	2.0	2.2	1.8-3.0	MR
42	Resistant check	-	1.0	1.8	2.0	1.6	1.0-2.0	R
43	Susceptible check	4.3	4.0	4.3	5.0	4.4	4.0-5.0	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA);** CM 202 **(DHARWA**

Contd.

Table-6 (75)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
	AVT-I LATE								
1	HT 51412616	4.5	0.0	3.0	2.4	3.9	3.5	2.4-4.5	MS
2	VNR-4325	3.0	0.0	3.5	1.8	3.9	3.0	1.8-3.9	MR
3	DAS-MH-106	3.3	1.0	2.5	1.8	3.1	2.7	1.8-3.3	MR
4	JH 13282	2.0	0.0	3.0	2.1	4.4	2.9	2.1-4.4	MR
5	JH 12010	3.8	0.0	3.0	2.1	3.9	3.2	2.1-3.9	MS
6	ADV 0990293	4.5	0.5	4.0	2.5	4.1	3.8	2.5-4.5	MS
7	PM14101L	1.5	0.5	3.0	2.3	5.1	3.0	1.5-5.1	MR
8	DKC9159 (IN8570)	4.0	0.0	2.5	2.1	3.2	3.0	2.1-4.0	MR
9	DMH 192	NG	0.0	3.0	2.7	4.4	3.4	2.7-4.4	MS
10	JH 13252	4.0	0.0	3.5	1.8	3.5	3.2	1.8-4.0	MS
11	CMH 10-555	4.0	0.0	2.5	2.4	4.4	3.3	2.4-4.4	MS
12	CMH 11-618	4.0	0.0	3.5	1.9	4.0	3.4	1.9-4.0	MS
13	Gold 1166	4.5	0.5	3.0	2.1	4.2	3.5	2.1-4.5	MS
14	CMH 12-663	2.0	0.0	3.0	1.5	4.1	2.7	1.5-4.1	MR
15	HT 51412607	4.3	0.0	3.0	2.1	4.6	3.5	2.1-4.6	MS
16	ADV 0990296	3.5	0.0	2.5	1.9	3.9	3.0	1.9-3.9	MR
17	PRMH-189	NG	0.0	3.5	2.1	3.5	3.0	2.1-3.5	MR
18	ADV 1190384	3.5	0.0	4.0	2.1	4.4	3.5	2.1-4.4	MS
19	JH 13270	4.0	0.0	3.0	1.9	4.4	3.3	1.9-4.4	MS
20	DKC9151 (IN8902)	3.0	0.0	3.0	1.6	2.6	2.6	1.6-3.0	MR
21	NMH-1247	3.0	0.0	3.5	1.6	4.6	3.2	1.6-4.6	MS
22	Super-1177	3.0	0.0	3.0	2.1	3.5	2.9	2.1-3.5	MR
23	KMH-3981	3.0	0.0	3.0	1.8	3.3	2.8	1.8-3.3	MR
24	GK3118	3.5	0.0	2.5	2.5	4.2	3.2	2.5-4.2	MS

Contd.

Table-6 (75)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
25	KH-2192	3.0	0.0	3.0	2.2	3.3	2.9	2.2-3.3	MR
26	115-08-01	2.0	0.5	3.0	2.3	3.2	2.6	2.0-3.2	MR
27	DMRH1308	4.3	0.0	3.0	2.2	3.9	3.3	2.2-4.3	MS
	AVT-II LATE								
28	DKC9133	4.0	0.0	3.0	1.8	3.0	3.0	1.8-4.0	MR
29	HTMH 5108	3.8	0.0	3.0	1.8	2.6	2.8	1.8-3.8	MR
30	DKC9141 (IM8539)	2.5	0.0	3.0	2.2	3.2	2.7	2.2-3.2	MR
31	HTMH 5202	3.5	0.0	3.5	2.2	2.7	3.0	2.2-3.5	MR
32	IM8556	4.0	0.0	3.0	1.6	3.9	3.1	1.6-4.0	MS
33	PRO-392	3.5	0.0	3.0	2.4	3.0	3.0	2.4-3.5	MR
34	DAS-MH-105	2.8	0.5	4.0	2.1	2.4	2.8	2.1-4.0	MR
35	CP.999	2.0	0.0	2.0	2.5	3.7	2.6	2.0-3.7	MR
36	X35D601	2.0	0.0	3.0	1.8	2.5	2.3	1.8-3.0	MR
37	Siri-4527	3.5	0.0	3.5	1.8	4.8	3.4	1.8-4.8	MS
38	PMH-1-C	4.5	0.0	3.0	1.7	3.7	3.2	1.7-4.5	MS
39	PMH-3-C	5.0	0.0	3.5	2.1	2.3	3.2	2.1-5.0	MS
40	Seedtech 2324-C	3.3	0.0	3.5	2.3	3.3	3.0	2.3-3.5	MR
41	BIO 9681-C	3.5	0.0	4.0	2.3	3.6	3.4	2.3-4.0	MS
42	Resistant check	2.8	-	-	1.9	-	2.3	1.9-2.8	MR
43	Susceptible check	4.8	1.0	4.0	3.7	-	4.2	3.7-4.8	S

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM501 **(DELHI);** NK 30 **(BHUBNESWAR);** HKI 1105+ HKI 536CBT **(KARNAL)**

* Data not considered due to low disease pressure

Contd.

Table-6 (75)

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	Genotype	MAND	Reaction	DHAR	Reaction	LUDH	HYDE	COIM	Av. Score	Range	Reaction
	AVT-I LATE										
1	HT 51412616	2.0	MR	1.0	R	4.8	3.5	1.7	3.3	1.7-4.8	MR
2	VNR-4325	2.0	MR	2.0	MR	4.0	4.1	1.7	3.3	1.7-4.1	MR
3	DAS-MH-106	2.5	MS	2.0	MR	7.1	3.7	5.7	5.5	3.7-7.1	MS
4	JH 13282	2.5	MS	3.2	S	4.4	4.1	5.1	4.5	4.1-5.1	MR
5	JH 12010	4.3	HS	3.5	S	6.5	3.9	5.3	5.2	3.9-6.5	MS
6	ADV 0990293	2.5	MS	1.0	R	5.0	3.2	6.1	4.8	3.2-6.1	MR
7	PM14101L	2.3	MS	2.0	MR	4.3	3.9	5.2	4.5	3.9-5.2	MR
8	DKC9159 (IN8570)	2.5	MS	1.0	R	5.3	3.6	6.9	5.3	3.6-6.9	MS
9	DMH 192	2.0	MR	1.0	R	3.5	3.7	4.8	4.0	3.5-4.8	MR
10	JH 13252	2.8	MS	3.5	S	3.9	3.4	1.4	2.9	1.4-3.9	R
11	CMH 10-555	2.5	MS	1.0	R	7.0	4.2	6.3	5.8	4.2-7.0	MS
12	CMH 11-618	2.3	MS	1.0	R	4.8	3.8	3.9	4.2	3.8-4.8	MR
13	Gold 1166	3.0	MS	1.0	R	4.9	3.8	4.3	4.3	3.8-4.9	MR
14	CMH 12-663	4.3	HS	1.0	R	5.4	3.4	5.4	4.7	3.4-5.4	MR
15	HT 51412607	2.3	MS	2.0	MR	4.3	4.0	5.8	4.7	4.0-5.8	MR
16	ADV 0990296	2.5	MS	2.0	MR	5.2	3.7	6.6	5.2	3.7-6.6	MS
17	PRMH-189	3.3	S	4.0	S	6.7	4.6	3.7	5.0	3.7-6.7	MR
18	ADV 1190384	3.0	MS	1.0	R	4.5	4.6	5.6	4.9	4.5-5.6	MR
19	JH 13270	4.3	HS	3.5	S	3.6	4.3	2.9	3.6	2.9-4.3	MR
20	DKC9151 (IN8902)	2.8	MS	1.0	R	4.4	4.1	3.9	4.1	3.9-4.4	MR
21	NMH-1247	3.0	MS	1.0	R	5.7	3.8	4.8	4.8	3.8-5.7	MR
22	Super-1177	2.0	MR	1.0	R	4.5	4.0	4.8	4.4	4.0-4.8	MR
23	KMH-3981	3.0	MS	1.0	R	4.5	3.9	5.0	4.5	3.9-5.0	MR
24	GK3118	2.8	MS	1.0	R	5.4	3.7	4.5	4.5	3.7-5.4	MR

Contd.

Table-6 (75)

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
25	KH-2192	2.5	MS	1.0	R	5.6	4.5	7.0	5.7	4.5-7.0	MS
26	115-08-01	2.8	MS	2.0	MR	3.6	3.9	6.2	4.6	3.6-3.9	MR
27	DMRH1308	2.5	MS	1.0	R	6.4	3.8	7.2	5.8	3.8-7.2	MS
	AVT-II LATE										
28	DKC9133	3.3	S	1.0	R	5.6	3.4	6.2	5.0	3.4-6.2	MR
29	HTMH 5108	2.0	MR	2.0	MR	6.2	3.9	6.8	5.6	3.9-6.8	MS
30	DKC9141 (IM8539)	2.0	MR	2.0	MR	4.1	3.3	3.4	3.6	3.3-4.1	MR
31	HTMH 5202	3.0	MS	2.0	MR	6.4	4.6	6.3	5.7	4.6-6.4	MS
32	IM8556	2.8	MS	2.0	MR	4.3	3.6	5.5	4.5	3.6-5.5	MR
33	PRO-392	2.0	MR	1.0	R	5.4	3.9	4.9	4.7	3.9-5.4	MR
34	DAS-MH-105	3.0	MS	1.0	R	4.0	3.6	5.3	4.3	3.6-5.3	MR
35	CP.999	3.3	S	1.0	R	3.9	4.4	4.3	4.2	3.9-4.4	MR
36	X35D601	4.3	HS	3.0	MS	4.6	4.1	6.2	5.0	4.1-6.2	MR
37	Siri-4527	2.3	MS	2.0	MR	4.7	3.9	3.4	4.0	3.4-4.7	MR
38	PMH-1-C	2.8	MS	3.0	MS	4.4	4.2	3.8	4.1	3.8-4.4	MR
39	PMH-3-C	2.8	MS	3.5	S	4.5	4.2	1.5	3.4	1.5-4.5	MR
40	Seedtech 2324-C	2.3	MS	3.0	MS	5.0	4.3	3.9	4.4	3.9-5.0	MR
41	BIO 9681-C	2.0	MR	1.0	R	4.8	4.8	5.4	5.0	4.8-5.4	MR
42	Resistant check	2.0	MR	2.0	MR	-	3.6	1.0	2.3	1.0-3.6	R
43	Susceptible check	3.3	S	4.0	S	7.0	6.2	8.6	7.3	6.2-8.6	S

Resistant Check : P. RUST:- NITHYASHREE **(MANDYA); C. RSUT :-** CI 4 **(DHARAD);C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :- CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA) BML 6 **(HYDERABAD);** CM 501 **(COIMBATORE)**

Contd.

Table-6 (75)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
	AVT-I LATE						
1	HT 51412616	2.2	R	82.2	S	28.5	MS
2	VNR-4325	3.2	MR	72.3	S	23.5	MR
3	DAS-MH-106	5.7	MS	95.7	S	12.5	MR
4	JH 13282	3.0	R	98.1	S	15.0	MR
5	JH 12010	3.5	MR	97.5	S	23.5	MR
6	ADV 0990293	4.3	MR	22.5	MR	5.5	R
7	PM14101L	4.0	MR	73.8	S	12.0	MR
8	DKC9159 (IN8570)	4.0	MR	21.5	MR	17.5	MR
9	DMH 192	3.8	MR	100.0	S	13.5	MR
10	JH 13252	3.4	MR	18.3	MR	26.5	MS
11	CMH 10-555	3.3	MR	91.8	S	28.5	MS
12	CMH 11-618	3.2	MR	79.5	S	0.0	R
13	Gold 1166	5.2	MS	97.9	S	5.0	R
14	CMH 12-663	3.7	MR	95.8	S	0.0	R
15	HT 51412607	2.3	R	84.3	S	5.5	R
16	ADV 0990296	2.9	R	7.6	R	11.0	MR
17	PRMH-189	4.8	MR	100.0	S	4.0	R
18	ADV 1190384	5.9	MS	72.0	S	9.0	R
19	JH 13270	2.1	R	81.3	S	14.5	MR
20	DKC9151 (IN8902)	3.3	MR	83.5	S	12.0	MR
21	NMH-1247	4.1	MR	100.0	S	0.0	R
22	Super-1177	3.5	MR	94.7	S	NG	-
23	KMH-3981	2.9	R	81.4	S	5.0	R
24	GK3118	2.4	R	18.1	MR	14.5	MR

Contd.

Table-6 (75)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
25	KH-2192	3.2	MR	100.0	S	0.0	R
26	115-08-01	5.3	MS	84.2	S	0.0	R
27	DMRH1308	3.9	MR	93.2	S	0.0	R
	AVT-II LATE						
28	DKC9133	4.2	MR	100.0	S	8.0	R
29	HTMH 5108	3.1	MR	80.3	S	5.0	R
30	DKC9141 (IM8539)	3.0	R	100.0	S	0.0	R
31	HTMH 5202	3.1	MR	100.0	S	0.0	R
32	IM8556	1.8	R	98.2	S	5.0	R
33	PRO-392	3.7	MR	100.0	S	6.0	R
34	DAS-MH-105	4.2	MR	98.3	S	8.3	R
35	CP.999	2.8	R	64.6	S	6.0	R
36	X35D601	4.4	MR	93.5	S	22.0	MR
37	Siri-4527	3.4	MR	96.4	S	13.5	MR
38	PMH-1-C	2.7	R	79.6	S	8.0	R
39	PMH-3-C	4.4	MR	97.2	S	6.5	R
40	Seedtech 2324-C	3.0	R	88.6	S	7.0	R
41	BIO 9681-C	3.0	R	90.9	S	0.0	R
42	Resistant check	-	-	17.2	MR	-	-
43	Susceptible check	7.8	S	100.0	S	88.0	S

Resistant Check : SDM:- NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM;-** SURYA **(UDAIPUR)**

Contd.

Table-6 (75)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
	AVT-I LATE							
1	HT 51412616	21.1	11.8	16.5	11.8-21.1	MR	7--15	S
2	VNR-4325	0.0	13.6	6.8	0.0-13.6	R	14--21	S
3	DAS-MH-106	0.0	10.0	5.0	0.0-10.0	R	30--38	S
4	JH 13282	0.0	33.3	16.7	0.0-33.3	MR	11--19	S
5	JH 12010	0.0	28.8	14.4	0.0-28.8	MR	13--20	S
6	ADV 0990293	NG	20.0	20.0	20.0	MR	26--33	S
7	PM14101L	0.0	28.6	14.3	0.0-28.6	MR	21--26	S
8	DKC9159 (IN8570)	4.6	21.4	13.0	4.6-21.4	MR	21--28	S
9	DMH 192	NG	21.6	21.6	21.6	MR	8--14	S
10	JH 13252	14.3	26.5	20.4	14.3-26.5	MR	11--17	S
11	CMH 10-555	0.0	15.5	7.8	0.0-15.5	R	12--19	S
12	CMH 11-618	0.0	18.8	9.4	0.0-18.8	R	6--13	S
13	Gold 1166	0.0	11.1	5.6	0.0-11.1	R	32--40	S
14	CMH 12-663	20.0	20.0	20.0	20.0-20.0	MR	15--23	S
15	HT 51412607	0.0	18.8	9.4	0.0-18.8	R	9--16	S
16	ADV 0990296	3.9	9.4	6.6	3.9-9.4	R	17--24	S
17	PRMH-189	NG	33.3	33.3	0.0-33.3	MS	3--9	MR
18	ADV 1190384	0.0	30.0	15.0	0.0-30.0	MR	23--32	S
19	JH 13270	0.0	22.0	11.0	0.0-22.0	MR	4--10	S
20	DKC9151 (IN8902)	0.0	41.7	20.9	0.0-41.7	MR	8--14	S
21	NMH-1247	0.0	26.8	13.4	0.0-26.8	MR	17--25	S
22	Super-1177	0.0	12.5	6.3	0.0-12.5	R	15--21	S
23	KMH-3981	0.0	21.4	10.7	0.0-21.4	MR	3--8	MR
24	GK3118	0.0	16.7	8.4	0.0-16.7	R	14--22	S

Contd.

Table-6 (75)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
25	KH-2192	16.7	12.5	14.6	12.5-16.7	MR	10--17	S
26	115-08-01	0.0	21.4	10.7	0.0-21.4	MR	30--36	S
27	DMRH1308	0.0	20.0	10.0	0.0-20.0	R	13--20	S
	AVT-II LATE							
28	DKC9133	0.0	28.3	14.2	0.0-28.3	MR	10--16	S
29	HTMH 5108	26.8	16.7	21.7	16.7-26.8	MR	11--18	S
30	DKC9141 (IM8539)	0.0	21.2	10.6	0.0-21.2	MR	6--12	S
31	HTMH 5202	12.5	13.6	13.1	12.5-13.6	MR	33--42	S
32	IM8556	0.0	30.0	15.0	0.0-30.0	MR	17--25	S
33	PRO-392	11.1	15.6	13.4	11.1-15.6	MR	4--10	S
34	DAS-MH-105	18.3	16.7	17.5	16.7-18.3	MR	25--35	S
35	CP.999	35.7	18.6	27.2	18.6-57.0	MS	6--14	S
36	X35D601	0.0	31.3	15.7	0.0-31.3	MR	4--8	MR
37	Siri-4527	0.0	19.6	9.8	0.0-19.6	R	24--33	S
38	PMH-1-C	25.0	10.0	17.5	10.0-25.0	MR	20--28	S
39	PMH-3-C	0.0	16.7	8.4	0.0-16.7	R	16--25	S
40	Seedtech 2324-C	22.0	34.8	28.4	22.0-34.8	MS	24--31	S
41	BIO 9681-C	0.0	15.4	7.7	0.0-15.4	R	22--29	S
42	Resistant check	16.7	-	16.7	16.7	MR	2--8	MR
43	Susceptible check	43.3	26.4	34.9	26.4-43.3	MS	30--37	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR**

Table 7. Disease screening of AVT I & II (medium maturity) maize hybrids (Trial 76)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
	AVT-I MEDIUM							
1	BH 412084	1.5	1.9	1.8	1.5	1.7	1.5-1.9	R
2	JH 31605	2.0	2.5	1.8	2.0	2.0	1.8-2.5	R
3	BL 897	1.5	3.4	3.3	2.0	2.5	1.5-3.4	MR
4	HT 51412182	1.5	2.4	2.3	2.0	2.0	1.5-2.4	R
5	DAS-MH-306	1.0	3.0	1.8	1.5	1.8	1.0-3.0	R
6	JKMH 4848	2.0	3.0	2.3	2.0	2.3	2.0-3.0	MR
7	CP.201	1.0	1.9	2.3	2.0	1.8	1.0-2.3	R
8	GK3120	1.5	1.8	2.5	1.5	1.8	1.5-2.5	R
9	HT 51412607	1.5	2.2	2.0	1.5	1.8	1.5-2.2	R
	AVT-II MEDIUM							
10	HTMH 5402	1.0	2.5	2.0	2.0	1.9	1.0-2.5	R
11	DKC9144 (IM8478	1.0	2.4	1.8	1.5	1.7	1.0-2.4	R
12	HM 9-C	2.0	2.8	2.8	2.0	2.4	2.0-2.8	MR
13	BIO 9637-C	1.5	1.9	2.3	2.0	1.9	1.5-2.3	R
14	PMH-4-C	1.5	2.0	1.8	2.0	1.8	1.5-2.0	R
15	Resistant check	-	1.5	-	-	1.5	1.5	R
16	Susceptible check	4.5	3.6	4.5	4.5	4.3	3.6-4.5	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-7 (76)

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
	AVT-I MEDIUM							
1	BH 412084	2.5	1.0	3.3	4.0	2.7	1.0-4.0	MR
2	JH 31605	1.8	1.0	2.8	3.0	2.1	1.0-3.0	MR
3	BL 897	1.8	2.0	3.3	4.0	2.8	1.8-4.0	MR
4	HT 51412182	2.3	2.0	3.5	2.0	2.4	2.0-3.5	MR
5	DAS-MH-306	1.5	2.0	2.0	2.0	1.9	1.5-2.0	R
6	JKMH 4848	1.8	2.0	3.3	2.0	2.3	1.8-3.3	MR
7	CP.201	1.5	2.0	3.5	4.0	2.8	1.5-4.0	MR
8	GK3120	2.0	2.0	3.3	3.0	2.6	2.0-3.3	MR
9	HT 51412607	2.5	2.0	3.3	2.5	2.6	2.0-3.3	MR
	AVT-II MEDIUM							
10	HTMH 5402	2.0	1.0	3.5	4.0	2.6	1.0-4.0	MR
11	DKC9144 (IM8478	2.5	2.0	3.5	1.0	2.3	2.0-3.5	MR
12	HM 9-C	2.3	3.0	3.3	3.0	2.9	2.3-3.3	MR
13	BIO 9637-C	2.0	4.0	2.0	2.0	2.5	2.0-4.0	MR
14	PMH-4-C	1.8	2.0	3.0	4.0	2.7	1.8-4.0	MR
15	Resistant check	-	1.0	1.8	2.0	1.6	1.0-2.0	R
16	Susceptible check	4.5	4.0	4.3	5.0	4.5	4.0-5.0	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA);** CM 202 **(DHARWAD)**

Contd.

Table-7 (76)

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
	AVT-I MEDIUM								
1	BH 412084	4.5	0.0	3.0	1.7	3.3	3.1	1.7-4.5	MS
2	JH 31605	NG	0.0	3.5	2.0	2.7	2.7	2.0-3.5	MR
3	BL 897	NG	0.0	3.5	2.4	3.7	3.2	2.4-3.7	MS
4	HT 51412182	NG	0.0	4.0	2.2	3.7	3.3	2.2-4.0	MS
5	DAS-MH-306	4.0	0.0	3.5	2.2	3.9	3.4	2.2-4.0	MS
6	JKMH 4848	NG	0.0	3.5	1.9	2.2	2.5	1.9-3.5	MR
7	CP.201	NG	0.0	3.0	2.3	3.8	3.0	2.3-3.8	MR
8	GK3120	4.5	0.0	4.0	1.8	3.6	3.5	1.8-4.5	MS
9	HT 51412607	4.5	0.0	3.5	1.9	2.7	3.2	1.9-4.5	MS
	AVT-II MEDIUM								
10	HTMH 5402	4.5	0.0	3.5	1.9	3.8	3.4	1.9-4.5	MS
11	DKC9144 (IM8478	NG	0.0	3.5	1.9	3.5	3.0	1.9-3.5	MR
12	HM 9-C	NG	0.0	4.0	2.1	3.3	3.1	2.1-4.0	MS
13	BIO 9637-C	3.5	0.5	3.5	2.0	4.6	3.4	2.0-4.6	MS
14	PMH-4-C	NG	0.0	3.0	2.1	4.3	3.1	2.1-4.3	MS
15	Resistant check	2.5	-	-	1.8	-	2.2	1.8-2.5	MR
16	Susceptible check	4.8	0.5	4.0	3.5	-	4.1	3.5-4.8	MS

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN);** CM 501 **(DELHI)**
HKI 1105+ HKI 536CBT **(KARNAL)**

* Data not considered due to low disease pressure

Contd.

Table-7 (76)

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
	AVT-I MEDIUM										
1	BH 412084	2.0	MR	2.0	MR	4.2	3.4	6.1	4.6	3.4-6.1	MR
2	JH 31605	4.8	HS	3.0	MS	5.0	4.1	5.4	4.8	4.1-5.4	MR
3	BL 897	2.8	MS	3.0	MS	5.7	3.9	5.1	4.9	3.9-5.7	MR
4	HT 51412182	3.3	S	1.0	R	4.8	3.5	5.9	4.7	3.5-5.9	MR
5	DAS-MH-306	1.8	MR	3.0	MS	3.8	3.8	2.3	3.3	2..3-3.8	MR
6	JKMH 4848	2.3	MS	1.0	R	5.8	4.6	1.7	4.0	1.7-5.8	MR
7	CP.201	3.3	S	4.0	HS	4.7	4.3	3.3	4.1	3.3-4.7	MR
8	GK3120	3.0	MS	3.0	MS	5.0	4.1	5.7	4.9	4.1-5.7	MR
9	HT 51412607	3.3	S	3.2	S	3.8	3.9	5.0	4.2	3.8-5.0	MR
	AVT-II MEDIUM										
10	HTMH 5402	2.5	MS	2.0	MR	4.6	3.5	6.4	4.8	3.5-6.4	MR
11	DKC9144 (IM8478	2.0	MR	1.0	R	5.0	4.0	5.6	4.9	4.0-5.6	MR
12	HM 9-C	3.3	S	4.5	HS	5.9	4.5	6.6	5.7	4.5-6.6	MS
13	BIO 9637-C	2.0	MR	4.0	S	4.5	4.2	6.1	4.9	4.2-6.1	MR
14	PMH-4-C	2.5	MS	4.0	S	3.6	3.8	5.0	4.1	3.6-5.0	MR
15	Resistant check	2.0	MR	2.0	MR	-	3.7	1.0	2.3	1.0-3.7	R
16	Susceptible check	4.5	HS	4.0	S	5.4	6.1	8.4	6.6	5.4-8.4	MS

Resistant Check : P. RUST:- NITHYASHREE (**MANDYA); C. RUST:-** CI 4 **(DHARWAD); C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD); C. ROT:- CM 600 (LUDHIANA) BML 6 **(HYDERABAD);** CM501 **(COIMBATORE)**

Contd.

Table-7 (76)

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
	AVT-I MEDIUM						
1	BH 412084	1.6	R	77.1	S	6.0	R
2	JH 31605	3.0	R	100.0	S	0.0	R
3	BL 897	3.2	MR	100.0	S	0.0	R
4	HT 51412182	3.6	MR	66.7	S	0.0	R
5	DAS-MH-306	6.7	MS	100.0	S	14.0	MR
6	JKMH 4848	3.1	MR	100.0	S	8.0	R
7	CP.201	3.9	MR	33.7	MS	22.0	MR
8	GK3120	4.2	MR	100.0	S	17.5	MR
9	HT 51412607	2.0	R	50.0	MS	7.0	R
	AVT-II MEDIUM						
10	HTMH 5402	2.4	R	86.8	S	7.5	R
11	DKC9144 (IM8478	3.3	MR	69.3	S	5.0	R
12	HM 9-C	3.1	MR	100.0	S	9.0	R
13	BIO 9637-C	3.7	MR	100.0	S	28.5	MS
14	PMH-4-C	3.5	MR	98.3	S	24.0	MR
15	Resistant check	-	-	14.5	MR	-	-
16	Susceptible check	7.9	S	100.0	S	78.5	S

Resistant Check : SDM:- NAH 1137 **(MANDYA)**

Susceptible Check : FSR:- SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA); RDM;** SURYA **(UDAIPUR)**

Contd.

Table-7 (76)

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
	AVT-I MEDIUM							
1	BH 412084	0.0	19.6	9.8	0.0-19.6	R	10--18	S
2	JH 31605	NG	27.8	27.8	27.8	MS	6--14	S
3	BL 897	NG	16.3	16.3	16.3	MR	12--19	S
4	HT 51412182	NG	4.5	4.5	4.5	R	4--9	MR
5	DAS-MH-306	40.0	15.0	27.5	15.0-40.0	MS	35--44	S
6	JKMH 4848	NG	8.0	8.0	8.0	R	11--17	S
7	CP.201	NG	4.5	4.5	4.5	R	23--32	S
8	GK3120	13.3	4.5	8.9	4.5-13.3	R	21--30	S
9	HT 51412607	0.0	6.3	3.2	0.0-6.3	R	12--16	S
	AVT-II MEDIUM							
10	HTMH 5402	0.0	35.9	18.0	0.0-35.9	MR	2--7	MR
11	DKC9144 (IM8478	NG	36.4	36.4	36.4	MS	28--38	S
12	HM 9-C	NG	0.0	0.0	0.0	R	36--45	S
13	BIO 9637-C	0.0	18.2	9.1	0.0-18.2	R	31--38	S
14	PMH-4-C	NG	15.6	15.6	15.6	MR	12--21	S
15	Resistant check	12.9	-	12.9	12.9	MR	6--11	S
16	Susceptible check	40.0	20.3	30.2	20.3-40.0	MS	32--35	S

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUR**

Table 9. Disease screening of specialty corn hybrids (Popcorn)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	DMRHP 1402	3.0	1.7	3.8	3.0	2.9	1.7-3.8	MR
2	IMHP 1540	2.5	1.9	3.8	2.5	2.7	1.9-3.8	MR
3	HPC 1	2.5	1.7	3.8	3.0	2.7	1.7-3.8	MR
4	VL Popcorn-2(Re-testing)	3.5	3.2	4.3	3.5	3.6	3.2-4.3	MS
5	DMRHP 1401	1.5	2.6	3.3	4.0	2.8	1.5-4.0	MR
6	SJPC1	3.5	2.6	3.5	2.5	3.0	2.5-3.5	MR
7	KDPC-2 (Pop corn)	2.0	2.5	3.8	3.5	2.9	2.0-3.8	MR
8	MPC-1-15	4.5	3.1	3.5	3.0	3.5	3.0-4.5	MS
9	IMHP 1535	2.0	3.0	3.8	3.5	3.0	2.0-3.8	MR
10	VL Pop corn-C	3.0	4.0	4.0	3.5	3.6	3.0-4.0	MS
11	Resistant check	-	1.4		-	1.4	1.4	R
12	Susceptible check	5.0	3.7	4.5	4.5	4.4	3.7-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-9

Turcicum leaf blight score (1-5)									
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**BARA**	**Av. Score**	**Range**	**Reaction**
1	DMRHP 1402	2.5	3.0	5.0	3.5	3.1	3.4	2.5-5.0	MS
2	IMHP 1540	2.8	4.0	4.5	3.0	3.3	3.5	2.8-4.5	MS
3	HPC 1	2.0	3.0	4.3	3.0	3.0	3.0	2.0-4.3	MR
4	VL Popcorn-2(Re-testing)	2.8	3.0	4.5	4.0	3.2	3.5	2.8-4.5	MS
5	DMRHP 1401	2.5	4.0	4.8	4.5	4.4	4.0	2.5-4.8	MS
6	SJPC1	2.8	4.0	4.0	3.0	3.3	3.4	2.8-4.0	MS
7	KDPC-2 (Pop corn)	2.5	3.0	4.8	3.0	3.7	3.4	2.5-4.8	MS
8	MPC-1-15	2.0	4.0	4.3	3.0	2.9	3.2	2.0-4.3	MS
9	IMHP 1535	2.8	4.0	4.3	3.0	3.1	3.4	2.8-4.3	MS
10	VL Pop corn-C	3.3	4.0	4.5	3.5	3.7	3.8	3.3-4.5	MS
11	Resistant check	-	2.0	1.8	2.0	-	1.9	1.8-2.0	R
12	Susceptible check	4.3	5.0	4.3	5.0	3.8	4.5	3.8-5.0	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHIARI LOCAL **(ALMORA);** CM 202 **(MANDYA);**
CM202 **(DHARWAD)**, RCM 1-2 **(BARAPANI)**

Contd.

Table-9

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	DMRHP 1402	3.8	0.0	4.0	1.9	4.3	3.5	1.9-4.3	MS
2	IMHP 1540	4.8	0.0	3.5	2.0	3.3	3.4	2.0-4.8	MS
3	HPC 1	3.3	0.0	4.0	2.1	3.8	3.3	2.1-4.0	MS
4	VL Popcorn-2(Re-testing)	4.0	0.0	4.0	2.0	4.2	3.6	2.0-4.2	MS
5	DMRHP 1401	4.0	0.0	4.0	1.8	3.7	3.4	1.6-4.0	MS
6	SJPC1	3.3	0.0	3.0	1.6	3.5	2.8	1.6-3.5	MR
7	KDPC-2 (Pop corn)	3.8	0.0	4.0	1.7	4.5	3.5	1.7-4.5	MS
8	MPC-1-15	3.5	0.0	2.5	1.8	3.8	2.9	1.8-3.8	MR
9	IMHP 1535	3.5	0.0	4.0	2.2	4.0	3.4	2.2-4.0	MS
10	VL Pop corn-C	4.3	0.0	4.0	1.9	4.3	3.6	1.9-4.3	MS
11	Resistant check	2.5	-	-	1.6	-	2.1	1.6-2.5	MR
12	Susceptible check	4.5	0.5	4.0	3.5	-	4.0	3.5-4.5	MS

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN)**; CM501 **(DELHI);**

* Data not considered due to low disease pressure

Contd.

Table-9

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	DMRHP 1402	3.8	S	4.5	HS	4.9	5.3	4.1	4.7	4.1-5.3	MR
2	IMHP 1540	3.3	S	2.0	MR	5.7	4.8	5.1	5.2	4.8-5.7	MS
3	HPC 1	3.0	MS	4.0	S	5.3	4.7	4.3	4.8	4.3-5.3	MR
4	VL Popcorn-2(Re-testing)	3.5	S	4.0	S	6.1	4.3	1.8	4.0	1.8-6.1	MR
5	DMRHP 1401	2.8	MS	3.5	S	5.9	4.9	5.9	5.5	4.9-5.9	MS
6	SJPC1	3.3	S	2.0	MR	5.4	4.6	6.5	5.5	4.6-6.5	MS
7	KDPC-2 (Pop corn)	2.8	MS	3.0	MS	4.8	5.1	5.6	5.2	4.8-5.6	MS
8	MPC-1-15	3.3	S	4.0	S	4.8	4.5	2.9	4.1	2.9-4.8	MR
9	IMHP 1535	4.8	HS	4.0	S	6.8	5.2	4.1	5.4	4.1-6.8	MS
10	VL Pop corn-C	3.5	S	4.5	HS	6.6	5.2	4.4	5.4	4.4-6.6	MS
11	Resistant check	2.3	MS	2.0	MR	-	3.8	1.0	2.4	1.0-3.8	R
12	Susceptible check	3.5	S	4.0	S	7.4	6.3	8.8	7.5	6.3-8.8	S

Resistant Check : **P. RUST:-** NITHYASHREE **(MANDYA); C. RUST:-** CI 4 **(DHARWAD); C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :- CM202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA); BML 6 **(HYDERABAD)**; CM 501 **(COIMBATORE)**

Contd.

Table-9

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UADI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	DMRHP 1402	4.1	MR	100.0	S	36.0	MS
2	IMHP 1540	5.0	MR	100.0	S	19.0	MR
3	HPC 1	3.5	MR	100.0	S	53.0	S
4	VL Popcorn-2(Re-testing)	5.3	MS	100.0	S	29.0	MS
5	DMRHP 1401	7.5	S	100.0	S	27.0	MS
6	SJPC1	4.2	MR	91.7	S	21.0	MR
7	KDPC-2 (Pop corn)	4.0	MR	100.0	S	12.0	MR
8	MPC-1-15	4.7	MR	100.0	S	19.0	MR
9	IMHP 1535	5.1	MS	100.0	S	26.0	MS
10	VL Pop corn-C	6.2	MS	90.0	S	30.5	MS
11	Resistant check	-	-	15.8	MR	-	-
12	Susceptible check	7.9	S	100.0	S	83.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

Susceptible Check : FSR SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA);** CM 500 **(COIMBATORE)**
RDM ; SURYA **(UDAIPUR)**

Contd.

Table-9

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	DMRHP 1402	30.3	17.5	23.9	17.5-30.3	MR	31--38	S
2	IMHP 1540	61.3	17.4	39.3	17.4-61.3	MS	32--44	S
3	HPC 1	6.3	5.6	5.9	5.6-6.3	R	21--28	S
4	VL Popcorn-2(Re-testing)	14.1	57.1	35.6	14.1-57.1	MS	15--23	S
5	DMRHP 1401	4.6	23.8	14.2	4.6-23.8	MR	41--48	S
6	SJPC1	23.6	15.0	19.3	15.0-23.6	MR	12--19	S
7	KDPC-2 (Pop corn)	30.4	6.3	18.3	6.3-30.4	MR	21--27	S
8	MPC-1-15	33.2	37.2	35.2	33.2-37.2	MS	10--15	S
9	IMHP 1535	5.6	16.7	11.1	5.6-16.7	MR	13--18	S
10	VL Pop corn-C	22.7	40.5	31.6	22.7-40.5	MS	41--46	S
11	Resistant check	4.5	-	4.5	4.5	R	5--11	S
12	Susceptible check	39.4	24.9	32.2	24.9-39.4	MS	33--41	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN) CYST NEMATODE:-** PEEHM-5 **(UDAIPUR)**

Table10. Disease screening of specialty corn hybrids (Sweet corn)

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	FSCH 75	2.5	3.3	3.3	2.0	2.8	2.0-3.3	MR
2	QMHSC-1182	1.5	3.1	3.8	3.5	3.0	1.5-3.8	MR
3	BSCH 6	1.0	1.7	3.3	1.5	1.9	1.0-3.3	R
4	SJSC1	3.5	3.6	4.5	2.5	3.5	2.5-4.5	MS
5	ADVSW-2	2.0	2.6	2.8	2.0	2.3	2.0-2.8	MR
6	FSCH 55	2.5	2.4	4.3	2.5	2.9	2.4-4.3	MR
7	ASKH1	2.0	2.4	3.3	2.0	2.4	2.0-3.3	MR
8	FSCH 41	2.0	1.8	3.8	2.5	2.5	1.8-3.8	MR
9	ASKH4	2.0	1.8	3.3	2.5	2.4	1.8-3.3	MR
10	ADVSW-1	2.0	2.5	3.3	1.5	2.3	1.5-3.3	MR
11	Madhuri-C	3.5	2.1	4.5	2.0	3.0	2.0-4.5	MR
12	WOSC -C	4.5	2.9	3.5	2.5	3.4	2.5-4.5	MS
13	Priya-C	2.0	2.7	4.5	2.5	2.9	2.0-4.5	MR
14	Resistant check	-	1.7	-	-	1.7	1.7	R
15	Susceptible check	4.0	3.3	4.5	5.0	4.2	3.3-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-10

Turcicum leaf blight score (1-5)									
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**BARA**	**Av. Score**	**Range**	**Reaction**
1	FSCH 75	2.0	2.0	4.0	3.0	2.6	2.7	2.0-4.0	MR
2	QMHSC-1182	3.3	2.0	4.3	2.0	2.3	2.8	2.0-4.3	MR
3	BSCH 6	2.0	2.0	4.3	2.0	2.5	2.6	2.0-4.3	MR
4	SJSC1	2.3	4.0	4.8	3.0	3.2	3.5	2.3-4.8	MS
5	ADVSW-2	2.0	3.0	3.8	2.5	2.6	2.8	2.0-3.8	MR
6	FSCH 55	2.5	3.0	4.3	2.5	2.8	3.0	2.5-4.3	MR
7	ASKH1	1.8	4.0	4.5	4.0	3.6	3.6	1.8-4.5	MS
8	FSCH 41	2.5	2.0	4.0	3.0	2.1	2.7	2.0-4.0	MR
9	ASKH4	2.8	4.0	4.3	3.5	3.4	3.6	2.8-4.3	MS
10	ADVSW-1	2.3	2.0	3.8	2.0	2.3	2.5	2.0-3.8	MR
11	Madhuri-C	2.0	3.0	4.3	3.0	2.5	3.0	2.0-4.3	MR
12	WOSC -C	2.8	4.0	4.8	4.0	2.6	3.6	2.6-4.8	MS
13	Priya-C	2.5	2.0	5.0	2.0	2.4	2.8	2.0-5.0	MR
14	Resistant check	-	1.0	2.3	2.0	-	1.8	1.0-2.3	R
15	Susceptible check	4.8	5.0	4.8	5.0	3.4	4.6	3.4-5.0	S

Resistant Check : TLB:- Dhiari **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA);** CM202 **(DHARWAD),** RCM 1-2 **(BARAPANI)**

Contd.

Table-10

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	FSCH 75	3.8	0.0	4.0	1.5	4.3	3.4	1.5-4.3	MS
2	QMHSC-1182	5.0	0.0	4.0	1.6	3.2	3.5	1.6-5.0	MS
3	BSCH 6	4.0	0.0	4.0	1.9	4.4	3.6	1.9-4.4	MS
4	SJSC1	4.3	0.5	4.0	1.6	4.1	3.5	1.6-4.3	MS
5	ADVSW-2	3.5	0.0	2.5	1.7	3.5	2.8	1.7-3.5	MR
6	FSCH 55	4.3	0.0	3.0	1.7	4.0	3.2	1.7-4.3	MS
7	ASKH1	2.8	0.0	3.0	1.4	4.0	2.8	1.4-4.0	MR
8	FSCH 41	2.8	0.0	4.0	1.6	3.5	3.0	1.6-4.0	MR
9	ASKH4	2.8	0.5	4.0	1.7	3.5	3.0	1.7-4.0	MR
10	ADVSW-1	4.0	0.0	3.5	1.6	4.1	3.3	1.6-4.1	MS
11	Madhuri-C	4.3	0.0	3.5	1.7	4.1	3.4	1.7-4.3	MS
12	WOSC -C	4.3	0.0	4.0	1.6	3.0	3.2	1.6-4.3	MS
13	Priya-C	4.0	0.0	4.5	2.2	4.0	3.7	2.2-4.5	MS
14	Resistant check	2.5	-	-	1.7	-	2.1	1.7-2.5	MR
15	Susceptible check	5.0	1.0	4.0	3.3	-	4.1	3.3-5.0	S

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN)**; CM501 **(DELHI);**

* Data not considered due to low disease pressure

Contd.

Table-10

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	FSCH 75	2.3	MS	5.0	HS	6.5	5.3	6.4	6.1	5.3-6.5	MS
2	QMHSC-1182	3.3	S	1.0	S	7.1	5.1	4.9	5.7	4.9-7.1	MS
3	BSCH 6	3.5	S	2.0	MR	7.8	5.1	6.4	6.4	5.1-7.8	MS
4	SJSC1	3.5	S	3.0	MS	6.5	4.8	6.3	5.9	4.8-6.5	MS
5	ADVSW-2	3.0	MS	2.0	MR	6.2	4.9	6.1	5.7	4.9-6.2	MS
6	FSCH 55	3.0	MS	3.5	S	6.8	5.2	5.9	6.0	5.2-6.8	MS
7	ASKH1	4.8	HS	3.0	MS	7.3	4.8	6.0	6.0	4.8-7.3	MS
8	FSCH 41	4.5	HS	4.0	S	7.6	5.1	6.4	6.3	5.1-7.6	MS
9	ASKH4	3.3	S	3.5	S	7.0	4.8	1.7	4.5	1.7-7.0	MR
10	ADVSW-1	3.0	MS	1.0	R	6.6	5.2	6.5	6.1	5.2-6.6	MS
11	Madhuri-C	4.8	HS	3.0	MR	6.9	5.3	5.7	6.0	5.3-6.9	MS
12	WOSC -C	2.3	MS	3.5	S	8.1	5.1	3.9	5.7	3.9-8.1	MS
13	Priya-C	3.0	MS	3.0	MR	8.1	5.3	6.3	6.6	5.3-8.1	MS
14	Resistant check	1.8	MR	2.0	MR	-	3.8	1.0	2.4	1.0-3.8	R
15	Susceptible check	3.3	S	4.0	S	7.4	6.6	8.9	7.6	6.6-8.9	S

Resistant Check : **P. RUST:-** NITHYASHREE **(MANDYA); C. RUST:-** CI 4 **(DHARWAD) C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA); BML 6 **(HYDERABAD)**; CM501 **(COIMBATORE)**

Contd.

Table-10

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	FSCH 75	3.5	MR	100.0	S	19.0	MR
2	QMHSC-1182	5.5	MS	87.5	S	56.0	S
3	BSCH 6	4.0	MR	82.9	S	66.0	S
4	SJSC1	4.4	MR	100.0	S	28.5	MS
5	ADVSW-2	5.1	MS	100.0	S	26.5	MS
6	FSCH 55	3.2	MR	87.5	S	68.5	S
7	ASKH1	5.2	MS	91.7	S	27.0	MS
8	FSCH 41	4.8	MR	100.0	S	0.0	R
9	ASKH4	4.9	MR	100.0	S	9.5	R
10	ADVSW-1	5.1	MS	90.0	S	7.5	R
11	Madhuri-C	3.8	MR	100.0	S	17.0	MR
12	WOSC -C	4.2	MR	100.0	S	9.0	R
13	Priya-C	3.8	MR	100.0	S	27.0	MS
14	Resistant check	-	-	14.3	MR	32.0	MS
15	Susceptible check	7.3	S	92.9	S	86.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

Susceptible Check : FSR SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA);** CM 500 **(COIMBATORE)**
RDM ; SURYA **(UDAIPUR)**

Contd.

Table-10

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	FSCH 75	36.7	16.7	26.7	16.7-36.7	MS	26--35	S
2	QMHSC-1182	55.8	20.0	37.9	20.0-55.8	MS	31--42	S
3	BSCH 6	16.7	0.0	8.3	0.0-16.7	R	10--16	S
4	SJSC1	18.3	16.7	17.5	16.7-18.3	MR	21--28	S
5	ADVSW-2	0.0	15.5	7.8	0.0-15.5	R	9--15	S
6	FSCH 55	12.7	53.8	33.2	12.7-53.8	MS	22--32	S
7	ASKH1	10.5	12.5	11.5	10.5-12.5	MR	20--26	S
8	FSCH 41	0.0	41.7	20.9	0.0-41.7	MR	22--30	S
9	ASKH4	23.7	18.8	21.2	18.8-23.7	MR	21--28	S
10	ADVSW-1	0.0	18.1	9.1	0.0-18.1	R	11--18	S
11	Madhuri-C	22.5	20.0	21.3	20.0-22.5	MR	21--33	S
12	WOSC -C	4.2	16.7	10.4	4.2-16.7	MR	12--21	S
13	Priya-C	4.6	17.1	10.8	4.2-17.1	MR	14--25	S
14	Resistant check	3.3	-	3.3	3.3	R	5--11	S
15	Susceptible check	35.6	18.9	27.3	18.9-35.6	MS	33--41	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN);**
CYST NEMATODE:- PEEHM-5 **(UDAIPUR)**

Table 11. Disease screening of specialty corn hybrids (Baby corn)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	IMHB 1538	1.0	2.7	2.3	2.0	2.0	1.0-2.7	R
2	IMHB 1529	1.0	2.1	2.3	1.5	1.7	1.0-2.3	R
3	IMHB 1539	1.5	2.2	2.8	3.0	2.4	1.5-3.0	MR
4	Vivek MH 27(R-Testing)	3.0	2.6	2.0	2.0	2.4	2.0-3.0	MR
5	BVM-2	2.0	3.2	3.8	2.5	2.9	2.0-3.8	MR
6	MBC-11-15	2.5	2.0	2.5	2.5	2.4	2.0-2.5	MR
7	IMHB 1537	1.0	2.4	2.0	1.5	1.7	1.0-2.4	R
8	ABH9001	2.0	2.5	2.8	2.5	2.4	2.0-2.8	MR
9	DMRH 1305	1.5	1.7	2.3	2.0	1.9	1.5-2.3	R
10	IMHB 1531	2.5	2.9	3.0	2.5	2.7	2.5-3.0	MR
11	IMHB 1532	1.5	2.7	2.3	1.5	2.0	1.5-2.7	R
12	GAYMH-1	2.5	1.8	3.3	1.5	2.3	1.5-3.3	MR
13	IMH 1525	1.5	2.2	3.0	2.5	2.3	1.5-3.0	MR
14	BAUM-3	2.5	2.4	2.8	2.0	2.4	2.0-2.8	MR
15	HKH 425	1.0	2.1	2.8	1.5	1.8	1.0-2.8	R
16	ASKBH1	1.0	3.2	2.8	2.5	2.4	1.0-3.2	MR
17	AH5021	1.0	2.4	3.3	1.5	2.0	1.0-3.3	R
18	HM4-C	2.0	1.9	3.0	2.0	2.2	1.9-3.0	MR
19	Resistant check	-	1.3	-	-	1.3	1.3	R
20	Susceptible check	5.0	3.7	4.5	4.5	4.4	3.7-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-11

Turcicum leaf blight score (1-5)									
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**BARA**	**Av. Score**	**Range**	**Reaction**
1	IMHB 1538	3.3	4.0	3.5	3.0	4.5	3.7	3.0-4.5	MS
2	IMHB 1529	2.8	3.0	4.5	2.0	1.9	2.8	1.9-4.5	MR
3	IMHB 1539	2.0	2.0	3.0	2.0	4.4	2.7	2.0-4.4	MR
4	Vivek MH 27(R-Testing)	2.3	2.0	3.5	2.0	3.2	2.6	2.0-3.5	MR
5	BVM-2	1.8	4.0	5.0	4.0	3.9	3.7	1.8-5.0	MS
6	MBC-11-15	2.5	3.0	3.8	4.0	3.5	3.4	2.5-4.0	MS
7	IMHB 1537	2.0	2.0	2.8	2.0	1.1	2.0	1.1-2.8	R
8	ABH9001	1.8	2.0	3.0	3.5	2.9	2.6	1.8-3.5	MR
9	DMRH 1305	1.5	2.0	2.8	2.0	2.8	2.2	1.5-2.8	MR
10	IMHB 1531	1.8	4.0	3.0	3.0	3.1	3.0	1.8-4.0	MR
11	IMHB 1532	2.5	3.0	3.0	3.0	2.7	2.8	2.5-3.0	MR
12	GAYMH-1	2.0	4.0	4.0	3.5	3.9	3.5	2.0-4.0	MS
13	IMH 1525	1.8	3.0	3.3	4.0	3.0	3.0	1.8-4.0	MR
14	BAUM-3	2.8	3.0	3.3	2.0	2.2	2.7	2.0-3.3	MR
15	HKH 425	2.0	3.0	2.8	2.0	3.4	2.6	2.0-3.4	MR
16	ASKBH1	1.8	4.0	3.8	4.5	4.5	3.7	1.8-4.5	MS
17	AH5021	2.5	4.0	4.0	4.0	2.4	3.4	2.4-4.0	MS
18	HM4-C	2.8	4.0	3.8	3.5	3.4	3.5	2.8-4.0	MS
19	Resistant check	-	1.0	2.0	2.0		1.7	1.0-2.0	R
20	Susceptible check	4.8	4.0	4.5	5.0	3.7	4.4	3.7-5.0	S

Resistant Check : TLB:- Dhiari **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA);** CM202 **(DHARWAD),** RCM 1-2 **(BARAPANI)**

Contd.

Table-11

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	IMHB 1538	4.8	0.5	4.0	1.7	3.6	3.5	1.7-4.8	MS
2	IMHB 1529	3.8	0.0	4.0	1.5	4.3	3.4	1.5-4.3	MS
3	IMHB 1539	4.3	0.5	4.0	1.6	4.5	3.6	1.6-4.5	MS
4	Vivek MH 27(R-Testing)	4.3	0.5	4.5	2.0	3.5	3.6	2.0-4.5	MS
5	BVM-2	5.0	0.5	4.5	1.8	3.3	3.7	1.8-5.0	MS
6	MBC-11-15	3.0	0.0	4.5	1.6	4.2	3.3	1.6-4.5	MS
7	IMHB 1537	2.3	0.0	3.5	1.3	3.8	2.7	1.3-3.8	MR
8	ABH9001	4.8	0.0	4.0	1.5	4.8	3.8	1.5-4.8	MS
9	DMRH 1305	4.8	0.0	4.5	1.5	4.4	3.8	1.5-4.8	MS
10	IMHB 1531	4.0	0.0	3.5	1.6	3.4	3.1	1.6-4.0	MS
11	IMHB 1532	4.0	0.0	3.0	2.0	3.7	3.2	2.0-4.0	MS
12	GAYMH-1	3.5	0.0	4.0	2.4	4.5	3.6	2.4-4.5	MS
13	IMH 1525	4.5	0.0	3.5	2.2	4.5	3.7	2.2-4.5	MS
14	BAUM-3	3.3	0.0	3.0	2.1	4.2	3.1	2.1-4.2	MS
15	HKH 425	4.8	0.0	3.0	1.8	4.1	3.4	1.8-4.8	MS
16	ASKBH1	4.3	0.0	3.0	2.0	2.7	3.0	2.0-4.3	MR
17	AH5021	4.8	NG	3.0	2.1	4.5	3.6	2.1-4.8	MS
18	HM4-C	3.5	0.0	4.5	2.0	3.1	3.3	2.0-4.5	MS
19	Resistant check	2.5	-	-	1.8	-	2.2	1.8-2.5	MR
20	Susceptible check	5.0	0.5	4.0	3.8	-	4.3	3.8-5.0	S

Resistant Check : BLSB:- AMAR **(PANTNAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074**(DHAULAKUAN)**; CM501 **(DELHI);**

* Data not considered due to low disease pressure

Contd.

Table-11

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	IMHB 1538	2.8	MS	2.0	MR	6.5	4.6	6.2	5.8	4.6-6.5	MS
2	IMHB 1529	4.8	HS	2.0	MR	6.2	4.5	6.4	5.7	4.5-6.4	MS
3	IMHB 1539	2.3	MS	2.0	MR	6.8	3.6	5.9	5.4	3.6-6.8	MS
4	Vivek MH 27(R-Testing)	2.3	MS	1.0	R	7.4	4.3	4.5	5.4	4.3-7.4	MS
5	BVM-2	3.5	S	4.0	S	7.0	4.6	5.9	5.8	4.6-7.0	MS
6	MBC-11-15	3.3	S	1.0	R	6.2	4.3	5.2	5.2	4.3-6.2	MS
7	IMHB 1537	2.8	MS	1.0	R	7.3	3.6	5.9	5.6	3.6-7.3	MS
8	ABH9001	4.8	HS	2.0	MR	7.5	4.7	6.1	6.1	4.7-7.5	MS
9	DMRH 1305	2.8	MS	1.0	R	7.2	3.8	5.9	5.6	3.8-7.2	MS
10	IMHB 1531	2.8	MS	2.5	MS	5.8	3.8	6.4	5.3	3.8-6.4	MS
11	IMHB 1532	2.3	MS	1.0	R	5.8	4.3	4.8	5.0	4.3-5.8	MR
12	GAYMH-1	3.3	S	3.0	MS	5.8	3.6	5.1	4.8	3.6-5.8	MR
13	IMH 1525	3.5	S	1.0	R	7.8	3.6	5.2	5.5	3.6-7.8	MS
14	BAUM-3	3.3	S	2.0	MR	6.2	4.2	4.6	5.0	4.2-6.2	MR
15	HKH 425	2.8	MS	2.0	MR	5.6	4.1	5.9	5.2	4.1-5.9	MS
16	ASKBH1	2.5	MS	1.0	R	5.7	4.4	1.8	4.0	1.8-5.7	MR
17	AH5021	4.5	HS	2.0	MR	6.6	4.5	5.3	5.5	4.5-6.6	MS
18	HM4-C	2.3	MS	2.0	MR	5.3	4.8	5.2	5.1	4.8-5.3	MS
19	Resistant check	2.3	MS	2.0	MR	-	3.4	1.0	2.2	1.0-3.4	R
20	Susceptible check	3.8	S	4.0	S	6.1	5.9	8.0	6.7	5.9-8.0	MS

Resistant Check : **P. RUST:-** NITHYASHREE **(MANDYA); C. RUST:-** CI 4 **(DHARWAD); C. ROT:-** JCY 2-7 **(HYDERAB**
CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA);
BML 6 **(HYDERABAD)**; CM 501 **(COIMBATORE)**

Contd.

Table-11

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	IMHB 1538	5.9	MS	100.0	S	3.5	R
2	IMHB 1529	2.6	R	96.7	S	8.0	R
3	IMHB 1539	3.8	MR	100.0	S	15.0	MR
4	Vivek MH 27(R-Testing)	2.7	R	100.0	S	0.0	R
5	BVM-2	3.9	MR	100.0	S	14.0	MR
6	MBC-11-15	3.3	MR	100.0	S	14.5	MR
7	IMHB 1537	3.2	MR	100.0	S	0.0	R
8	ABH9001	6.6	MS	100.0	S	0.0	R
9	DMRH 1305	2.9	R	95.0	S	0.0	R
10	IMHB 1531	3.6	MR	100.0	S	0.0	R
11	IMHB 1532	2.5	R	100.0	S	0.0	R
12	GAYMH-1	3.8	MR	100.0	S	0.0	R
13	IMH 1525	5.1	MS	100.0	S	6.5	R
14	BAUM-3	5.1	MS	85.0	S	15.0	MR
15	HKH 425	4.3	MR	100.0	S	0.0	R
16	ASKBH1	9.7	S	100.0	S	7.5	R
17	AH5021	3.2	MR	100.0	S	6.0	R
18	HM4-C	3.3	MR	100.0	S	0.0	R
19	Resistant check	-	-	85.0	S	-	-
20	Susceptible check	7.9	S	95.5	S	92.0	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

Susceptible Check : FSR SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA);** CM 500 **(COIMBATORE)**
RDM ; SURYA **(UDAIPUR)**

Contd.

Table-11

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	IMHB 1538	21.5	13.6	17.6	13.6-21.5	MR	11--19	S
2	IMHB 1529	26.7	6.7	16.7	6.7-26.7	MR	2--9	MR
3	IMHB 1539	0.0	12.5	6.3	0.0-12.5	R	23--35	S
4	Vivek MH 27(R-Testing)	33.3	7.1	20.2	7.1-33.3	MR	20--28	S
5	BVM-2	35.4	33.3	34.4	33.3-35.4	MS	24--31	S
6	MBC-11-15	25.8	12.5	19.2	12.5-25.8	MR	10--16	S
7	IMHB 1537	17.4	9.1	13.3	9.1-17.4	MR	11--18	S
8	ABH9001	33.8	27.7	30.8	8.3-19.1	MS	20--27	S
9	DMRH 1305	19.1	8.3	13.7	8.3-19.1	MR	11--18	S
10	IMHB 1531	13.3	28.8	21.0	13.3-28.8	MR	1--7	MR
11	IMHB 1532	22.0	12.5	17.2	12.5-22.0	MR	9--15	S
12	GAYMH-1	0.0	8.3	4.2	0.0-8.3	R	8--13	S
13	IMH 1525	0.0	50.0	25.0	0.0-50.0	MR	10--14	S
14	BAUM-3	0.0	9.1	4.6	0.0-9.1	R	13--20	S
15	HKH 425	30.7	25.0	27.8	25.0-30.7	MS	10--17	S
16	ASKBH1	5.0	25.0	15.0	5.0-25.0	MR	9--15	S
17	AH5021	5.6	NG	5.6	5.6	R	13--18	S
18	HM4-C	29.2	6.3	17.7	6.3-29.2	MR	10--15	S
19	Resistant check	0.0	-	0.0	0	R	5--11	S
20	Susceptible check	24.0	22.0	23.0	22.0-24.0	MR	33--41	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN);**
CYST NEMATODE:- PEEHM-5 **(UDAIPUR)**

Table12. Disease screening of specialty corn hybrids (QPM)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
1	AQH8(EDV)	1.5	3.4	2.8	2.0	2.4	1.5-3.4	MR
2	IIMRQPMH 1507	1.0	2.1	2.8	2.0	2.0	1.0-2.8	R
3	IIMRQPMH 1508	2.0	2.2	3.8	2.0	2.5	2.0-3.8	MR
4	PMSQ5	3.0	2.8	3.8	2.5	3.0	2.5-3.8	MR
5	IIMRQPMH 1502	2.5	2.0	2.8	2.0	2.3	2.0-2.8	MR
6	AQH9(EDV)	1.5	2.1	2.3	1.5	1.8	1.5-2.3	R
7	LQPMH 415	3.0	2.9	2.3	2.0	2.5	2.0-3.0	MR
8	AQH4 (EDV)	1.5	2.0	2.3	2.5	2.1	1.5-2.5	R
9	APQH9(EDV)	3.0	2.8	2.0	2.0	2.5	2.0-3.0	MR
10	IHQ-091	3.5	2.8	3.3	2.5	3.0	2.5-3.5	MR
11	MHQPM-10-15	2.5	2.4	3.8	2.5	2.8	2.4-3.8	MR
12	EHQ-64	1.0	2.5	2.5	2.0	2.0	1.0-2.5	R
13	IIMRQPMH 1504	1.5	1.6	2.8	2.0	2.0	1.5-2.8	R
14	BAUQMH-18	2.5	3.0	3.8	3.5	3.2	2.5-3.8	MS
15	BQPMH 36	2.0	2.6	2.3	2.0	2.2	2.0-2.6	MR
16	HQPM 26	1.0	2.7	2.8	1.5	2.0	1.0-2.8	R
17	IIMRQPMH 1510	1.0	2.3	2.8	1.5	1.9	1.0-2.8	R
18	BQPMH 141 (EDV-DHM117)	1.5	2.1	2.8	2.0	2.1	1.5-2.8	R
19	IIMRQPMH 1501	1.0	1.7	2.8	1.5	1.7	1.0-2.8	R
20	IIMRQPMH 1503	1.5	1.8	2.3	2.0	1.9	1.5-2.3	R
21	IIMRQPMH 1506	1.5	2.4	2.3	1.5	1.9	1.5-2.4	R
22	LQPMH 115	1.5	2.4	2.8	2.0	2.2	1.5-2.8	MR
23	EHQ-63	2.0	2.1	4.3	2.0	2.6	2.0-4.3	MR
24	IIMRQPMH 1505	1.5	2.5	3.3	2.0	2.3	1.5-3.3	MR

Contd.

Table-12

Maydis leaf blight score (1-5)								
S.No	**Genotype**	**DHOL**	**KARN**	**LUDH**	**DELH**	**Av. Score**	**Range**	**Reaction**
25	VEHQ14-1	1.0	2.5	2.8	1.5	1.9	1.0-2.8	R
26	LQPMH 215	1.5	1.9	2.3	2.0	1.9	1.5-2.3	R
27	VEHQ15-1	1.0	2.1	2.5	1.5	1.8	1.0-2.5	R
28	IIMRQPMH 1509	1.5	2.2	2.8	1.5	2.0	1.5-2.8	R
29	FQH 106	3.5	2.5	2.0	2.0	2.5	2.0-3.5	MR
30	LQPMH 315	2.0	2.6	2.5	2.0	2.3	2.0-2.6	MR
31	HM8-C	1.5	1.9	2.8	1.5	1.9	1.5-2.8	R
32	HM9-C	1.5	1.9	2.8	2.0	2.0	1.5-2.8	R
33	HM4-C	2.0	2.6	3.5	2.5	2.7	2.0-3.5	MR
34	DHM 117-C	1.0	2.0	2.3	1.5	1.7	1.0-2.3	R
35	Vivek QPM-9-C	3.0	2.1	2.8	1.5	2.3	1.5-3.0	MR
36	HQPM 1-C	1.5	2.5	3.0	2.5	2.4	1.5-3.0	MR
37	HQPM 4-C	1.5	2.2	3.0	1.5	2.1	1.5-3.0	MR
38	HQPM 5-C	1.5	1.9	2.0	1.5	1.7	1.5-2.0	R
39	HQPM 7-C	3.0	2.4	2.5	2.0	2.5	2.0-3.0	MR
40	Resistant check	-	1.5	-	-	1.5	1.5	R
41	Susceptible check	5.0	3.4	4.5	5.0	4.5	3.4-5.0	S

Resistant Check : MLB:- HQPM 1 **(KARNAL)**

Susceptible Check : MLB:- CML 186 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);** CM 600 **(LUDHIANA)**
DKC 7074 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-12

Turcicum leaf blight score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**BARA**	**Av. Score**	**Range**	**Reaction**
1	AQH8(EDV)	2.5	2.0	3.3	2.0	2.0	2.4	2.0-3.3	MR
2	IIMRQPMH 1507	2.0	2.0	3.5	2.0	1.5	2.2	1.5-3.5	MR
3	IIMRQPMH 1508	2.0	3.0	3.5	4.0	1.3	2.8	1.3-4.0	MR
4	PMSQ5	2.8	3.0	3.8	4.0	2.9	3.3	2.8-4.0	MS
5	IIMRQPMH 1502	1.8	3.0	3.5	3.0	1.4	2.5	1.4-3.5	MR
6	AQH9(EDV)	1.5	2.0	3.3	3.0	1.9	2.3	1.5-3.3	MR
7	LQPMH 415	2.0	4.0	4.5	3.0	3.9	3.5	2.0-4.5	MS
8	AQH4 (EDV)	2.0	2.0	3.5	3.0	0.9	2.3	0.9-3.5	MR
9	APQH9(EDV)	2.5	3.0	4.8	4.0	3.2	3.5	2.5-4.8	MS
10	IHQ-091	2.5	4.0	5.0	4.0	3.4	3.8	2.5-5.0	MS
11	MHQPM-10-15	2.0	3.0	4.3	4.0	1.7	3.0	1.7-4.3	MR
12	EHQ-64	2.0	2.0	3.3	4.0	1.6	2.6	1.6-4.0	MR
13	IIMRQPMH 1504	2.0	2.0	3.8	2.0	1.1	2.2	1.1-3.8	MR
14	BAUQMH-18	2.0	2.0	3.5	3.0	1.1	2.3	1.1-3.5	MR
15	BQPMH 36	1.8	3.0	4.0	3.0	2.8	2.9	1.8-4.0	MR
16	HQPM 26	2.0	1.0	3.0	2.0	1.2	1.8	1.0-3.0	R
17	IIMRQPMH 1510	2.5	2.0	3.0	2.0	1.4	2.2	1.4-3.0	MR
18	BQPMH 141 (EDV-DHM117)	2.0	2.0	2.8	2.0	1.7	2.1	1.7-2.8	MR
19	IIMRQPMH 1501	2.3	1.0	3.3	2.0	1.1	1.9	1.1-3.3	R
20	IIMRQPMH 1503	2.0	2.0	3.0	3.0	1.4	2.3	1.4-3.0	MR
21	IIMRQPMH 1506	1.5	2.0	3.0	2.0	1.2	1.9	1.2-3.0	R
22	LQPMH 115	2.5	3.0	5.0	3.0	4.0	3.5	2.5-5.0	MS
23	EHQ-63	2.5	3.0	4.0	3.0	3.2	3.1	2.5-4.0	MS
24	IIMRQPMH 1505	2.8	1.0	3.3	2.0	1.2	2.1	1.0-3.3	MR

Contd.

Table-12

Turcicum leaf blight score (1-5)									
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**BARA**	**Av. Score**	**Range**	**Reaction**
25	VEHQ14-1	2.0	2.0	2.0	2.0	1.3	1.9	1.3-2.0	R
26	LQPMH 215	2.3	1.0	3.5	2.0	2.4	2.2	1.0-3.5	MR
27	VEHQ15-1	1.5	1.0	3.0	2.0	1.7	1.8	1.0-3.0	R
28	IIMRQPMH 1509	2.0	1.0	3.3	2.0	0.9	1.8	0.9-3.3	R
29	FQH 106	1.5	1.0	4.0	3.0	1.7	2.2	1.0-4.0	MR
30	LQPMH 315	2.0	2.0	3.8	3.0	1.5	2.5	1.5-3.8	MR
31	HM8-C	2.8	2.0	2.8	2.0	2.0	2.3	2.0-2.8	MR
32	HM9-C	2.0	2.0	3.3	3.0	2.0	2.5	2.0-3.3	MR
33	HM4-C	2.0	2.0	3.8	3.5	2.6	2.8	2.0-3.5	MR
34	DHM 117-C	2.3	2.0	2.8	2.0	1.1	2.0	1.1-2.8	R
35	Vivek QPM-9-C	2.0	2.0	4.5	3.0	2.5	2.8	2.0-4.5	MR
36	HQPM 1-C	1.5	2.0	3.3	3.0	1.1	2.2	1.1-3.3	MR
37	HQPM 4-C	1.8	1.0	2.0	1.0	1.6	1.5	1.0-2.0	R
38	HQPM 5-C	1.5	1.0	2.8	2.0	1.2	1.7	1.0-2.8	R
39	HQPM 7-C	1.8	1.0	2.8	2.0	2.1	1.9	1.0-2.8	R
40	Resistant check	-	1.0	2.3	2.0	-	1.8	1.0-2.3	R
41	Susceptible check	4.3	4.0	4.5	5.0	4.1	4.4	4.0-4.5	S

Resistant Check : TLB:- DHIARI LOCAL **(ALMORA);** NITHYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** 219J **(MANDYA);**
CM202 (DHARWAD), RCM 1-2 **(BARAPANI)**

Contd.

Table-12

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
1	AQH8(EDV)	4.8	0.5	4.0	2.0	4.3	3.8	2.0-4.8	MS
2	IIMRQPMH 1507	3.8	0.0	4.0	2.2	3.6	3.4	2.2-4.0	MS
3	IIMRQPMH 1508	4.3	0.5	4.5	2.5	4.4	3.9	2.5-4.5	MS
4	PMSQ5	4.5	0.0	4.5	1.7	4.3	3.8	1.7-4.5	MS
5	IIMRQPMH 1502	4.8	0.0	4.0	2.3	3.9	3.7	2.3-4.8	MS
6	AQH9(EDV)	4.3	0.5	3.0	2.2	4.4	3.5	2.2-4.4	MS
7	LQPMH 415	4.3	0.0	4.0	1.7	3.2	3.3	1.7-4.3	MS
8	AQH4 (EDV)	5.0	0.0	4.0	1.7	3.9	3.7	1.7-5.0	MS
9	APQH9(EDV)	4.5	0.0	4.5	2.2	4.9	4.0	2.2-4.9	MS
10	IHQ-091	5.0	0.0	4.5	2.2	4.2	4.0	2.2-5.0	MS
11	MHQPM-10-15	4.0	0.0	4.0	1.3	3.8	3.3	1.3-4.0	MS
12	EHQ-64	4.3	0.5	4.0	2.4	3.6	3.6	2.4-4.3	MS
13	IIMRQPMH 1504	5.0	0.0	3.0	2.0	4.3	3.6	2.0-5.0	MS
14	BAUQMH-18	4.8	0.0	4.0	2.4	4.7	4.0	2.4-4.8	MS
15	BQPMH 36	4.0	0.0	4.0	2.0	3.5	3.4	2.0-4.0	MS
16	HQPM 26	4.8	0.0	3.5	2.0	4.2	3.6	2.0-4.8	MS
17	IIMRQPMH 1510	4.5	0.5	4.0	2.4	4.0	3.7	2.4-4.5	MS
18	BQPMH 141 (EDV-DHM117)	3.5	0.0	4.0	1.7	4.2	3.4	1.7-4.2	MS
19	IIMRQPMH 1501	3.5	0.0	3.0	2.0	3.9	3.1	2.0-3.9	MS
20	IIMRQPMH 1503	4.0	0.0	4.0	1.6	3.6	3.3	1.6-4.0	MS
21	IIMRQPMH 1506	4.5	0.0	3.5	1.6	2.8	3.1	1.6-4.5	MS
22	LQPMH 115	5.0	0.0	3.0	1.8	3.9	3.4	1.8-5.0	MS
23	EHQ-63	4.5	0.0	4.5	1.9	4.8	3.9	1.9-4.8	MS
24	IIMRQPMH 1505	3.5	0.5	2.0	1.9	4.1	2.9	1.9-4.1	MR

Contd.

Table-12

Banded leaf and sheath blight score (1-5)									
S.No	**Genotype**	**PANT**	**DHAU***	**DELH**	**KARN**	**MEDI**	**Av. Score**	**Range**	**Reaction**
25	VEHQ14-1	2.5	0.5	3.5	2.0	4.5	3.1	2.0-4.5	MS
26	LQPMH 215	4.5	0.0	4.0	1.7	3.7	3.5	1.7-4.5	MS
27	VEHQ15-1	4.5	0.0	3.0	2.1	4.0	3.4	2.1-4.5	MS
28	IIMRQPMH 1509	4.5	0.5	4.0	2.0	4.3	3.7	2.0-4.5	MS
29	FQH 106	4.8	0.0	4.5	2.2	2.9	3.6	2.2-4.8	MS
30	LQPMH 315	4.8	0.5	4.0	2.2	3.1	3.5	2.2-4.8	MS
31	HM8-C	4.8	0.5	4.0	2.1	5.0	4.0	2.1-5.0	MS
32	HM9-C	4.5	0.0	4.0	2.2	5.0	3.9	2.2-5.0	MS
33	HM4-C	4.0	0.5	4.5	2.0	4.4	3.7	2.0-4.5	MS
34	DHM 117-C	4.0	0.0	3.5	1.9	5.0	3.6	1.9-5.0	MS
35	Vivek QPM-9-C	4.8	0.0	4.5	1.8	5.0	4.0	1.8-5.0	MS
36	HQPM 1-C	4.8	0.0	4.0	2.1	3.0	3.5	2.1-4.8	MS
37	HQPM 4-C	2.5	0.0	3.0	2.4	3.6	2.9	2.4-3.6	MR
38	HQPM 5-C	4.0	0.0	3.5	2.3	4.8	3.7	2.3-4.8	MS
39	HQPM 7-C	3.8	0.0	3.5	2.0	4.1	3.3	2.0-4.1	MS
40	Resistant check	2.5	-	-	1.7	-	2.1	1.7-2.5	MR
41	Susceptible check	5.0	1.5	4.5	3.6	-	4.4	3.6-5.0	S

Resistant Check : BLSB:- AMAR **(PANTANAGAR),** HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM 600 **(PANTNAGAR);** DAC 7074 **(DHAULAKUAN)**; CM501 **(DELHI);**

* Data not considered due to low disease pressure

Contd.

Table-12

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	AQH8(EDV)	2.3	MS	1.0	R	7.1	4.6	3.9	5.2	3.9-7.1	MS
2	IIMRQPMH 1507	2.5	MS	4.0	S	7.4	5.2	4.9	5.8	4.9-7.4	MS
3	IIMRQPMH 1508	4.8	HS	3.0	MS	7.1	4.4	5.8	5.8	4.4-7.1	MS
4	PMSQ5	2.3	MS	3.0	MS	7.5	4.7	6.0	6.1	4.7-7.5	MS
5	IIMRQPMH 1502	3.0	MS	3.5	S	6.7	4.4	4.3	5.1	4.3-6.7	MS
6	AQH9(EDV)	2.8	MS	2.0	MR	5.6	4.3	6.6	5.5	4.3-6.6	MS
7	LQPMH 415	1.8	MR	2.0	MR	5.0	5.4	6.2	5.5	5.0-6.2	MS
8	AQH4 (EDV)	3.3	S	4.0	S	6.3	4.8	6.2	5.8	4.8-6.3	MS
9	APQH9(EDV)	3.0	MS	2.0	MR	7.5	5.3	3.9	5.6	3.9-7.5	MS
10	IHQ-091	2.3	MS	2.0	MR	7.8	5.3	5.7	6.3	5.3-7.8	MS
11	MHQPM-10-15	3.0	MS	3.5	S	4.7	5.0	3.6	4.4	3.6-5.0	MR
12	EHQ-64	2.3	MS	4.0	S	3.4	4.6	3.7	3.9	3.4-4.6	MR
13	IIMRQPMH 1504	2.5	MS	1.0	R	5.7	4.7	5.3	5.2	4.7-5.3	MS
14	BAUQMH-18	2.3	MS	4.0	S	4.3	3.7	5.5	4.5	3.7-5.5	MR
15	BQPMH 36	2.5	MS	1.0	R	3.8	4.8	6.0	4.8	3.8-6.0	MR
16	HQPM 26	2.3	MS	2.0	MR	6.0	4.7	4.6	5.1	4.6-6.0	MS
17	IIMRQPMH 1510	2.5	MS	1.0	R	5.6	4.8	5.4	5.3	4.8-5.6	MS
18	BQPMH 141 (EDV-DHM117)	4.5	HS	2.0	MR	3.9	4.0	1.8	3.2	1.8-4.0	MR
19	IIMRQPMH 1501	2.3	MS	2.0	MR	6.4	4.4	1.2	4.0	1.2-6.4	MR
20	IIMRQPMH 1503	2.3	MS	3.0	MS	6.3	4.3	6.9	5.8	4.3-6.9	MS
21	IIMRQPMH 1506	4.8	HS	4.0	S	5.1	4.0	4.9	4.6	4.0-5.1	MR
22	LQPMH 115	2.8	MS	2.0	MR	5.9	5.0	1.9	4.3	1.9-5.9	MR
23	EHQ-63	3.5	S	3.0	MS	6.8	4.8	5.3	5.6	4.8-6.8	MS
24	IIMRQPMH 1505	2.3	MS	1.0	R	4.9	4.0	4.9	4.6	4.0-4.9	MR

Contd.

Table-12

		P.rust Score (1-5)		C.rust Score (1-5)		C.ROT Score (1-9)					
S.No	**Genotype**	**MAND**	**Reaction**	**DHAR**	**Reaction**	**LUDH**	**HYDE**	**COIM**	**Av. Score**	**Range**	**Reaction**
25	VEHQ14-1	1.8	MR	2.0	MR	5.0	4.0	4.8	4.6	4.0-5.0	MR
26	LQPMH 215	2.5	MS	4.0	S	4.9	4.7	3.5	4.4	3.5-4.9	MR
27	VEHQ15-1	1.8	MR	1.0	R	5.8	4.2	7.0	5.7	4.2-7.0	MS
28	IIMRQPMH 1509	2.8	MS	3.0	MS	2.9	3.3	1.7	2.6	1.7-3.3	R
29	FQH 106	2.3	MS	4.0	S	7.0	4.4	6.6	6.0	4.4-7.0	MS
30	LQPMH 315	3.0	MS	1.0	R	4.6	4.3	1.5	3.5	1.5-4.6	MR
31	HM8-C	2.3	MS	1.0	R	6.4	4.5	1.6	4.2	1.6-6.4	MR
32	HM9-C	2.5	MS	2.0	MR	6.0	4.3	5.2	5.2	4.3-6.0	MS
33	HM4-C	2.8	MS	3.5	MS	4.6	4.2	6.3	5.0	4.2-6.3	MR
34	DHM 117-C	2.5	MS	1.0	R	4.1	4.8	5.9	4.9	4.1-5.9	MR
35	Vivek QPM-9-C	3.0	MS	4.0	S	7.1	4.8	4.9	5.6	4.8-7.1	MS
36	HQPM 1-C	4.8	HS	3.0	MS	5.3	4.2	5.7	5.1	4.2-5.7	MS
37	HQPM 4-C	2.5	MS	2.0	MR	5.3	4.4	5.1	4.9	4.4-5.3	MR
38	HQPM 5-C	2.5	MS	1.0	R	4.9	4.5	4.9	4.8	4.5-4.9	MR
39	HQPM 7-C	2.3	MS	3.0	MS	5.4	4.1	4.0	4.5	4.0-5.4	MR
40	Resistant check	1.8	MR	2.0	MR	-	4.2	1.0	2.6	1.0-4.2	R
41	Susceptible check	4.0	S	4.0	S	6.7	6.1	8.3	7.0	6.1-8.3	S

Resistant Check : P. RUST:- NITHYASHREE **(MANDYA); C. RUST:-** CI 4 **(DHARWAD); C. ROT:-** JCY 2-7 **(HYDERABAD)** CoH6 **(COIMBATORE)**

Susceptible Check : P. RUST :-CM 202 (MANDYA); C.rust:- CM 202 (DHARWAD) C. ROT:- CM 600 (LUDHIANA); BML 6 **(HYDERABAD)**; CM501**(COIMBATORE)**

Contd.

Table-12

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
1	AQH8(EDV)	3.2	MR	100.0	S	2.0	R
2	IIMRQPMH 1507	4.1	MR	100.0	S	1.0	R
3	IIMRQPMH 1508	3.5	MR	100.0	S	0.5	R
4	PMSQ5	3.2	MR	100.0	S	9.5	R
5	IIMRQPMH 1502	2.0	R	100.0	S	1.5	R
6	AQH9(EDV)	2.7	R	100.0	S	11.0	MR
7	LQPMH 415	5.0	MR	100.0	S	15.0	MR
8	AQH4 (EDV)	2.6	MR	100.0	S	13.0	MR
9	APQH9(EDV)	5.9	MS	100.0	S	14.0	MR
10	IHQ-091	4.0	MR	100.0	S	24.0	MR
11	MHQPM-10-15	3.4	MR	100.0	S	46.5	MS
12	EHQ-64	3.5	MR	100.0	S	15.5	MR
13	IIMRQPMH 1504	3.5	MR	100.0	S	16.0	MR
14	BAUQMH-18	2.2	R	100.0	S	24.0	MR
15	BQPMH 36	2.8	R	100.0	S	16.0	MR
16	HQPM 26	5.9	MS	100.0	S	16.0	MR
17	IIMRQPMH 1510	3.0	MR	100.0	S	17.5	MR
18	BQPMH 141 (EDV-DHM117)	2.1	R	93.8	S	9.0	R
19	IIMRQPMH 1501	2.9	R	97.1	S	1.5	R
20	IIMRQPMH 1503	4.0	MR	100.0	S	19.0	MR
21	IIMRQPMH 1506	2.6	R	100.0	S	1.5	R
22	LQPMH 115	4.6	MR	100.0	S	16.5	MR
23	EHQ-63	4.2	MR	100.0	S	22.5	MR
24	IIMRQPMH 1505	2.6	R	96.4	S	16.5	MR

Contd.

Table-12

		FSR Score (1-9)		SDM (%)		RDM (%)	
S.No	**Genotype**	**UDAI**	**Reaction**	**MAND**	**Reaction**	**UDAI**	**Reaction**
25	VEHQ14-1	2.6	R	96.4	S	19.5	MR
26	LQPMH 215	2.0	R	100.0	S	10.0	R
27	VEHQ15-1	2.5	R	100.0	S	13.5	MR
28	IIMRQPMH 1509	2.6	R	100.0	S	2.0	R
29	FQH 106	3.0	R	100.0	S	8.0	R
30	LQPMH 315	3.8	MR	92.0	S	14.0	MR
31	HM8-C	2.9	R	100.0	S	1.5	R
32	HM9-C	4.0	MR	100.0	S	6.0	R
33	HM4-C	3.7	MR	100.0	S	15.0	MR
34	DHM 117-C	3.3	MR	96.9	S	12.0	MR
35	Vivek QPM-9-C	3.7	MR	100.0	S	14.0	MR
36	HQPM 1-C	3.5	MR	95.0	S	15.0	MR
37	HQPM 4-C	3.0	R	100.0	S	0.0	R
38	HQPM 5-C	3.7	MR	100.0	S	11.0	MR
39	HQPM 7-C	2.9	R	100.0	S	0.0	R
40	Resistant check	-	-	12.9	MR	-	-
41	Susceptible check	7.8	S	93.8	S	89.5	S

Resistant Check : SDM:- NAH 1137 (MANDYA); CoH6 (COIMBATORE)

Susceptible Check : FSR SURYA **(UDAIPUR); SDM:-** CM 500 **(MANDYA);** CM 500 **(COIMBATORE)**
RDM ; SURYA **(UDAIPUR)**

Contd.

Table-12

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
1	AQH8(EDV)	21.9	28.3	25.1	21.9-28.3	MS	25--32	S
2	IIMRQPMH 1507	5.3	45.7	25.5	5.3-45.7	MS	11--18	S
3	IIMRQPMH 1508	12.8	39.3	26.0	12.8-39.3	MS	17--24	S
4	PMSQ5	0.0	47.5	23.8	0.0-47.5	MR	34--43	S
5	IIMRQPMH 1502	12.1	10.0	11.1	10.0-12.1	MR	2--7	MR
6	AQH9(EDV)	13.4	10.0	11.7	10.0-13.4	MR	20--26	S
7	LQPMH 415	23.0	18.7	20.8	18.7-23.0	MR	28--37	S
8	AQH4 (EDV)	9.4	37.7	23.5	9.4-37.7	MR	15--21	S
9	APQH9(EDV)	62.5	0.0	31.3	0.0-62.5	MS	37--48	S
10	IHQ-091	38.2	20.8	29.5	20.8-38.2	MS	34--45	S
11	MHQPM-10-15	26.0	3.8	14.9	3.8-26.0	MR	29--38	S
12	EHQ-64	29.8	11.8	20.8	11.8-29.8	MR	22--30	S
13	IIMRQPMH 1504	34.5	13.9	24.2	13.9-34.5	MR	11--19	S
14	BAUQMH-18	6.7	8.3	7.5	6.7-8.3	R	10--16	S
15	BQPMH 36	10.8	20.0	15.4	10.8-20.0	MR	2--8	MR
16	HQPM 26	10.1	16.7	13.4	10.1-16.7	MR	32--43	S
17	IIMRQPMH 1510	14.7	7.7	11.2	7.7-14.7	MR	13--20	S
18	BQPMH 141 (EDV-DHM117)	3.9	25.0	14.4	3.9-25.0	MR	6--14	S
19	IIMRQPMH 1501	0.0	12.5	6.3	0.0-25.5	R	15--22	S
20	IIMRQPMH 1503	8.9	6.3	7.6	6.3-8.9	R	11--18	S
21	IIMRQPMH 1506	0.0	33.6	16.8	0.0-33.6	MR	14--21	S
22	LQPMH 115	15.9	13.3	14.6	13.3-15.9	MR	28--39	S
23	EHQ-63	13.3	10.0	11.6	10.0-13.3	MR	27--36	S
24	IIMRQPMH 1505	21.1	7.1	14.1	7.1-21.1	MR	15--24	S

Contd.

Table-12

		Bacterial stalk rot (%)					Cyst/ plant (n=5)	
S.No	**Genotype**	**PANT**	**DHAU**	**Av. Score**	**Range**	**Reaction**	**UDAI**	**Reaction**
25	VEHQ14-1	12.7	25.0	18.9	12.7-25.0	MR	24--31	S
26	LQPMH 215	9.4	44.2	26.8	9.4-44.2	MS	22--33	S
27	VEHQ15-1	0.0	4.5	2.3	0.0-4.5	R	15--23	S
28	IIMRQPMH 1509	13.9	5.0	9.4	5.0-13.9	R	5--14	S
29	FQH 106	20.0	38.2	29.1	20.0-38.2	MS	23--35	S
30	LQPMH 315	13.9	11.1	12.5	11.1-13.9	MR	31--37	S
31	HM8-C	21.8	12.5	17.1	12.5-21.8	MR	15--20	S
32	HM9-C	16.3	12.9	14.6	12.9-16.3	MR	13--22	S
33	HM4-C	22.0	21.4	21.7	21.4-22.0	MR	10--17	S
34	DHM 117-C	0.0	29.1	14.6	0.0-29.1	MR	7--14	S
35	Vivek QPM-9-C	21.7	38.9	30.3	21.7-38.9	MS	23--32	S
36	HQPM 1-C	17.9	4.5	11.2	4.5-17.9	MR	14--20	S
37	HQPM 4-C	5.0	15.6	10.3	5.0-15.6	MR	3--9	MR
38	HQPM 5-C	20.0	3.6	11.8	3.6-20.0	MR	21--26	S
39	HQPM 7-C	0.0	6.3	3.2	0.0-6.3	R	11--18	S
40	Resistant check	6.6	-	6.6	6.6	R	5--11	S
41	Susceptible check	23.3	18.7	21.0	18.7-23.3	MR	33--41	S

Resistant Check: CYST NEMATODE:- PRATAP MAKKA-9 **(UDAIPUR)**

Susceptible Check :BSR:- CM600 **(PANTNAGAR);** DKC 7074 **(DHAULAKUAN); CYST NEMATODE:-** PEEHM-5 **(UDAIPUI**

Table 13. Disease screening of station maize hybrids against TLB at Mandya

Sl. No	Hybrid Name	TLB Score (1-5 scale)	Sl. No	Hybrid Name	TLB Score (1-5 scale)
1	MAH 102	4.0	24	MAH 196	3.5
2	MAH 154	3.5	25	MAH 199	2.5
3	MAH 156	3.5	26	MAH 201	2.5
4	MAH 157	3.0	27	MAH 202	3.5
5	MAH 158	3.5	28	MAH 203	4.0
6	MAH 160	3.0	29	MAH 204	3.0
7	MAH 164	2.5	30	MAH 205	4.0
8	MAH 165	3.5	31	MAH 207	3.0
9	MAH 167	4.5	32	MAH 213	3.0
10	MAH 168	4.0	33	MAH 214	3.5
11	MAH 170	3.5	34	MAH 215	2.5
12	MAH 170	2.5	35	MAH 216	2.5
13	MAH 172	3.5	36	MAH 218	2.5
14	MAH 173	4.0	37	MAH222	3.0
15	MAH 176	4.5	38	MAH 225	4.0
16	MAH 178	3.0	39	MAH 226	2.5
17	MAH 179	3.0	40	MAH 228	3.0
18	MAH 187	3.5	41	MAH 229	2.5
19	MAH 188	4.0	42	MAH 230	2.5
20	MAH 189	4.0	43	MAH 231	3.5
21	MAH 192	3.0	44	MAH 232	2.5
22	MAH 193	3.5	45	MAH 233	3.5
23	MAH 194	2.5	46	MAH 235	3.0

MPT 9. Screening of station maize hybrids against cyst nematode (*Heterodera zeae)* at Udaipur

During *Kharif* , 2015, thirty maize hybrids/varieties/lines received from Maize Breeder, RCA, MPUAT, Udaipur were tested in artificially inoculated and maintained nematode sick field having an initial population of 630 larvae/ 100 cc soil to locate source of resistance against maize cyst nematode, *H. zeae*. Experimental findings showed that maize hybrids/varieties/lines *i.e.* EHQ--64, Pratap QPM Hybrid--1, Pratap Hybrid Maize--3 and Pratap Makka--9 showed moderately resistant to test nematode. Rest of the varieties/lines proved susceptible to *Heterodera zeae.*

Table14. Disease screening of specialty corn station hybrids against SDM at Mandya (A)

Sl.No.	Hybrid Name	SDM (%)	Sl.No.	Hybrid Name	SDM (%)
M QPM Hybrids			16	MQH-017	100.0
1	MQH-001	100.00	17	MQH-019	100.0
2	MQH-002	88.89	18	MQH-023	100.0
3	MQH-003	57.14	19	MQH-025	100.0
4	MQH-005	100.00	20	MQH-026	85.7
5	MQH-006	100.00	RC	NAH 1137	0.0
6	MQH-007	100.00	SC	CM 500	100.0
7	MQH-008	60.00	M Pop Corn Hybrids		
8	MQH-009	100.00	1	MPCH-01	100.0
9	MQH-010	100.00	2	MPCH-02	0.0
10	MQH-011	66.67	3	MPCH-03	62.5
11	MQH-012	100.00	4	MPCH-04	100.0
12	MQH-013	71.43	5	MPCH-05	66.7
13	MQH-014	100.00	RC	NAH 1137	0.0
14	MQH-015	77.78	SC	CM 500	100.0
15	MQH-016	85.71			

Table15. Disease screening of station maize hybrids against SDM at Mandya (B)

Sl. No.	Hybrid Name	SDM (%)	Sl. No.	Hybrid Name	SDM (%)
1	MAH-14-153	50.0	34	MAH-14-199	25.0
2	MAH-14-154	75.0	35	MAH-14-200	20.0
3	MAH-14-155	90.0	36	MAH-14-201	50.0
4	MAH-14-156	71.4	37	MAH-14-202	100.0
5	MAH-14-157	100.0	38	MAH-14-203	33.3
6	MAH-14-158	0.0	39	MAH-14-204	0.0
7	MAH-14-159	100.0	40	MAH-14-208	66.7
8	MAH-14-160	9.1	41	MAH-14-210	100.0
9	MAH-14-161	20.0	42	MAH-14-211	45.5
10	MAH-14-162	100.0	43	MAH-14-212	0.0
11	MAH-14-163	16.7	44	MAH-14-213	90.9
12	MAH-14-164	33.3	45	MAH-14-214	0.0
13	MAH-14-167	100.0	46	MAH-14-215	100.0
14	MAH-14-170	100.0	47	MAH-14-216	0.0
15	MAH-14-171	50.0	48	MAH-14-218	20.0
16	MAH-14-172	10.0	49	MAH-14-221	50.0
17	MAH-14-173	100.0	50	MAH-14-222	33.3
18	MAH-14-174	50.0	51	MAH-14-223	42.9
19	MAH-14-175	0.0	52	MAH-14-226	100.0
20	MAH-14-177	87.5	53	MAH-14-227	100.0
21	MAH-14-178	25.0	54	MAH-14-229	100.0
22	MAH-14-179	100.0	55	MAH-14-230	0.0
23	MAH-14-180	100.0	56	MAH-14-231	100.0

24	MAH-14-182	87.5	57	MAH-14-232	100.0
25	MAH-14-184	30.0	58	MAH-14-233	87.5
26	MAH-14-187	100.0	59	MAH-14-235	100.0
27	MAH-14-188	75.0	60	MAH-14-236	100.0
28	MAH-14-189	100.0	61	MAH-14-237	0.0
29	MAH-14-192	66.7	62	MAH-14-238	25.0
30	MAH-14-193	75.0	63	MAH-14-239	0.0
31	MAH-14-194	60.0	RC	NAH 1137	14.0
32	MAH-14-196	44.4	SC	CM 500	100.0
33	MAH-14-153	15.4			

Table16. Disease screening of station maize hybrids against TLB at Bajaura (C)

S. No.	Code	TLB		MLB	
		Mean Disease Score (1-5 Scale)	Reaction Type	Mean Disease Score (1-5 Scale)	Reaction Type
1	M1501	2.3	MR	1.5	R
2	M1502	2.0	R	1.8	R
3	M1503	2.3	MR	1.8	R
4	M1504	1.8	R	1.5	R
5	M1505	2.5	MR	1.5	R
6	M1506	1.8	R	1.5	R
7	M1507	1.8	R	1.8	R
8	M1508	1.5	R	2.3	MR
9	M1509	1.8	R	1.8	R
10	M1510	3.3	MS	2.0	R
11	M1511	1.8	R	1.5	R
12	M1512	2.0	R	1.5	R
13	M1513	1.8	R	1.8	R
14	M1514	1.8	R	1.5	R
15	M1515	2.3	MR	2.0	R
16	M1516	2.3	MR	1.5	R
17	M1517	2.3	MR	1.5	R
18	M1518	1.8	R	2.0	R
19	M1519	1.8	MR	1.5	R
20	M1520	2.5	MR	1.8	R
21	M1521	2.3	MR	1.8	R
22	M1522	2.3	MR	1.8	R
23	M1523	2.0	R	1.5	R
24	M1524	2.5	MR	1.8	R
25	M1525	2.8	MR	1.8	R
26	M1526	2.5	MR	1.8	R
27	M1527	2.5	MR	1.5	R
28	M1528	2.0	R	1.5	R
29	M1529	2.5	MR	2.3	MR
30	M1530	3.0	MS	2.5	MR
31	M1531	2.3	MR	1.5	R

Table 17. Disease screening of station Hybrids against PFSR (*Fusarium verticillioides)* and RDM (*Peronosclerospora heteropogoni)* at Udaipur (D)

Entry No.	Pedigree	PFSR rating	RDM % infected Plants	CLS Rating
1	EH 2214	1.4	29.0	1.5
2	EI-586-2	3.9	18.0	2.5
3	EI-708-2	2.0	25.0	2.5
4	EH-2233	1.7	57.0	4.5
5	EI-586-1	2.4	13.0	4.0
6	EI-670-1	2.2	33.0	4.5
7	EHQ-63	3.9	15.0	3.5
8	EIQ-101	4.9	3.0	3.0
9	EIQ-103	2.3	7.0	3.0
10	EHQ-64	2.9	64.0	1.5
11	EIQ-104	2.9	10.0	2.0
12	EIQ-102	6.3	29.0	2.5
13	EI 586-3	3.5	66.0	3.0
14	UHPY-5	1.4	36.0	3.5
15	EI-561-1	1.7	40.0	3.5
16	EI-1104-1	2.4	20.0	2.5
17	EI-1155	2.9	11.0	2.0
18	CLQ 40	2.4	22.0	3.0
19	BML-6	2.1	9.0	1.5
20	EI-1265-1	4.9	12.0	2.5
21	EI-1122	3.2	13.0	2.0
22	EI-1175	2.4	57.0	3.0
23	EI-1110-2	2.9	24.0	2.5
24	Pratap QPM Hybrid-1	3.3	12.0	3.0
25	HKI-193-1	2.1	17.0	3.5
26	Pratap Hybrid Maize	2.3	3.0	4.0
27	EI-1175-1	5.8	19.0	4.5
28	EI-1110	2.6	58.0	3.0
29	Local sus. Check Surya	8.2	85.0	5.0

*DOS for PFSR-12.7.15; DOI-PFSR=3-9.9.15; Observation date-13-14 Oct. 2015.

*DOS for RDM 3.9.15; DOI for RDM = 9-13.9.15;

Date of observations for RDM =11.10.15 and 30.10.15

*DOS for CLS= 12.7.15; DOI for CLS=2-4.9.15

Dates of observations for CLS=25.9.15 and 10.10.15

Note: Kindly use local susceptible check.

Table 18. Diseases screening of maize inbred lines against major diseases of maize (A)

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**DELH**	**LUDH**	**KARN**	**Av. Score**	**Range**	**Reaction**
1	HKI 1105	1.0	2.5	2.5	1.8	2.0	1.0-2.5	R
2	HKI 1344	2.0	2.0	2.5	2.0	2.1	2.0-2.5	MR
3	CM 212	5.0	3.5	3.0	3.2	3.7	3.0-5.0	MS
4	CML 446	3.0	2.5	2.0	2.4	2.5	2.0-3.0	MR
5	HKI 323	3.0	4.0	3.0	1.6	2.9	1.6-4.0	R
6	HKI Talar	1.0	1.5	1.5	1.6	1.4	1.0-1.6	R
7	JCY-3-7-1-2-1-B-2-3-2-1-3-2	NG	1.5	2.0	2.6	2.0	1.5-2.6	MR
8	EI 670	NG	1.5	2.0	2.0	1.8	1.5-2.0	R
9	EI 708	NG	1.5	2.5	4.0	2.7	1.5-4.0	MR
10	EI 561	3.0	3.0	2.5	2.4	2.7	2.4-3.0	MR
11	BML 8	3.0	2.5	2.0	2.6	2.5	2.0-3.0	MR
12	CML 117-3-4-1-1-4-1	1.0	2.5	2.5	2.4	2.1	1.0-2.5	MR
13	G18seqcef 74-2-1	1.0	2.5	2.0	2.6	2.0	1.0-2.6	R
14	JCY 2-2-4-1-1	2.0	2.5	2.0	1.6	2.0	1.6-2.5	R
15	WSCShrunken X MUS MADHAU	4.0	2.5	4.0	2.8	3.3	2.5-4.0	MS
16	CM 117-3-2-1-1-1-2-1	2.0	2.5	2.0	2.0	2.1	2.0-2.5	MR
17	CM 129	3.0	2.5	1.5	3.0	2.5	1.5-3.0	MR
18	CM 132	1.0	2.5	1.5	2.8	2.0	1.0-2.8	R
19	CM 105	1.0	2.0	1.5	2.4	1.7	1.0-2.4	R
20	CM 123	1.0	2.5	2.0	2.4	2.0	1.0-2.5	R
21	CM 128	NG	2.5	2.5	4.0	3.0	2.5-4.0	MR

Contd.

Table-18

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**DELH**	**LUDH**	**KARN**	**Av. Score**	**Range**	**Reaction**
22	CM 149	NG	2.5	3.0	2.4	2.6	2.4-3.0	MR
23	CML 451(P2)	5.0	2.5	2.5	2.4	3.1	2.4-5.0	MS
24	CUBA 377	1.0	2.5	2.0	1.6	1.8	1.0-2.5	R
25	IIMR QPM-03-124	NG	2.5	3.0	2.8	2.8	2.5-3.0	MR
26	IIMRQPM 03-113	2.0	2.0	3.5	3.0	2.6	2.0-3.5	MR
27	DMSC 20	3.0	2.0	4.0	3.0	3.0	2.0-4.0	MR
28	DMSC 36	3.0	2.5	3.0	2.8	2.8	2.5-3.0	MR
29	DMSC 1	2.0	4.0	4.5	2.4	3.2	2.0-4.5	MS
30	DMSC 6	3.0	3.5	3.0	2.4	3.0	2.4-3.5	MR
31	DMSC 8	5.0	4.5	3.5	3.2	4.1	3.2-5.0	S
32	HKI 164-7-6 x 161	4.0	3.0	3.0	1.8	3.0	1.8-4.0	MR
33	HKI 164-D-3-3-2	4.0	4.5	3.5	2.4	3.6	2.4-4.5	MS
34	HKI 226	2.0	4.0	3.5	1.6	2.8	1.6-4.0	MR
35	HKI 31-2	1.0	2.5	2.5	2.0	2.0	1.0-2.5	R
36	HKI-2-6-2-4(1-2)-4	3.0	2.0	2.5	2.0	2.4	2.0-3.0	MR
37	HKIMBR 139-2	2.0	2.5	2.0	2.2	2.2	2.0-2.5	MR
38	Hyd05R/204-1	1.0	2.5	2.5	2.4	2.1	1.0-2.5	MR
39	JCY2-7-1-2-1-B-1-2-1-1	1.0	1.5	2.5	2.0	1.8	1.0-2.5	R
40	POBLAC61C4	2.0	3.0	3.5	2.0	2.6	2.0-3.5	MR
41	SHD-1 ER6	3.0	2.5	4.0	4.0	3.4	2.5-4.0	MS
42	SKV 18	3.0	4.5	2.0	2.8	3.1	2.0-4.5	MS
43	Temp.HOC 15	5.0	4.5	4.0	2.6	4.0	2.6-5.0	MS

Contd.

Table-18

		Maydis leaf blight score (1-5)						
S.No	**Genotype**	**DHOL**	**DELH**	**LUDH**	**KARN**	**Av. Score**	**Range**	**Reaction**
44	CML 451Q	3.0	2.0	2.0	2.4	2.4	2.0-3.0	MR
45	CML165	2.0	2.0	2.5	4.0	2.6	2.0-4.0	MR
46	CML 3	3.0	2.5	3.5	2.6	2.9	2.5-3.5	MR
47	CML 321	2.0	2.0	3.0	2.4	2.4	2.0-3.0	MR
48	IIMRQPM 58	4.0	3.0	4.5	2.4	3.5	2.4-4.5	MS
49	DMSC 16-1	NG	1.5	2.0	2.4	2.0	1.5-2.4	R
50	DTPWC 9-F31-1-1-3	1.0	1.5	2.0	2.0	1.6	1.0-2.0	R
51	HKI 141	1.0	2.5	2.5	1.6	1.9	1.0-2.5	R
52	HKIC 78	2.0	2.5	2.5	1.8	2.2	1.8-2.5	MR
53	HKISCST	NG	-	NG	2.4	2.4	2.4-2.4	MR
54	KML 3-3	1.0	3.0	3.0	2.4	2.4	1.0-3.0	MR
55	EIQ 101	3.0	3.0	4.5	2.8	3.3	2.8-4.5	MS
56	EIQ 102	3.0	1.5	2.5	2.8	2.5	1.5-3.0	MR
57	EIQ 103	2.0	2.5	3.0	2.0	2.4	2.0-3.0	MR
58	EIQ 104	5.0	2.5	4.0	2.0	3.4	2.0-5.0	MS
59	Res. Chcek	-	-	-	1.6	1.6	1.6-1.6	R
60	sus. Check.	5.0	4.5	4.5	4.0	4.5	4.0-5.0	S

Resistnat Check : MLB:- HQPM 1 **(KARNAL);** SC7 **(DELHI);** LET DR 99xEnt49 **(LUDHIANA)**

Susceptible Check : MLB:- CM600 **(DHOLI);** HKI 1105 + HKI 536CBT **(KARNAL);**CM 600**(LUDHIANA);** CM600 **(DHAULAKUAN);** CM 600 **(DELHI)**

Contd.

Table-18

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
1	HKI 1105	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
2	HKI 1344	1.8	3.0	3.5	4.0	3.1	1.8-4.0	MS
3	CM 212	2.5	4.0	3.0	3.0	3.1	2.5-4.0	MS
4	CML 446	1.8	2.0	3.5	2.0	2.3	1.8-3.5	MR
5	HKI 323	3.8	4.0	3.0	3.0	3.4	3.0-4.0	MS
6	HKI Talar	1.5	4.0	3.0	2.0	2.6	1.5-4.0	MR
7	JCY-3-7-1-2-1-B-2-3-2-1-3-2	2.8	2.0	3.5	4.0	3.1	2.0-4.0	MS
8	EI 670	2.0	2.0	3.0	4.0	2.8	2.0-4.0	MR
9	EI 708	2.3	2.0	4.0	2.0	2.6	2.0-4.0	MR
10	EI 561	2.0	2.0	3.5	2.0	2.4	2.0-3.5	MR
11	BML 8	1.8	3.0	4.0	3.0	2.9	1.8-4.0	MR
12	CML 117-3-4-1-1-4-1	2.0	1.0	3.5	3.0	2.4	1.0-3.5	MR
13	G18seqcef 74-2-1	2.5	2.0	3.5	2.0	2.5	2.0-3.5	MR
14	JCY 2-2-4-1-1	2.0	2.0	3.0	3.0	2.5	2.0-3.0	MR
15	WSCShrunken X MUS MADHAU	3.8	2.0	3.0	3.0	2.9	2.0-3.8	MR
16	CM 117-3-2-1-1-1-2-1	3.0	3.0	4.0	3.0	3.3	3.0-4.0	MS
17	CM 129	3.3	3.0	4.0	4.0	3.6	3.0-4.0	MS
18	CM 132	2.0	3.0	3.5	3.0	2.9	2.0-3.5	MR
19	CM 105	1.5	3.0	3.5	4.5	3.1	1.5-4.5	MS
20	CM 123	2.5	2.0	4.0	3.5	3.0	2.0-4.0	MR
21	CM 128	2.8	4.0	3.5	2.0	3.1	2.0-4.0	MS

Contd.

Table-18

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
22	CM 149	2.5	4.0	4.0	2.5	3.3	2.5-4.0	MS
23	CML 451(P2)	3.3	3.0	4.0	3.5	3.4	3.0-4.0	MS
24	CUBA 377	2.8	3.0	4.0	2.0	2.9	2.0-4.0	MR
25	IIMR QPM-03-124	4.3	2.0	4.0	2.0	3.1	2.0-4.3	MS
26	IIMRQPM 03-113	3.5	4.0	3.0	4..5	3.5	3.0-4.5	MS
27	DMSC 20	1.5	2.0	4.5	3.5	2.9	1.5-4.5	MR
28	DMSC 36	1.8	3.0	3.0	4.5	3.1	1.8-4.5	MS
29	DMSC 1	2.5	3.0	3.5	2.5	2.9	2.5-3.5	MR
30	DMSC 6	3.3	3.0	4.0	2.0	3.1	2.0-4.0	MS
31	DMSC 8	4.3	4.0	3.5	3.5	3.8	3.5-4.3	MS
32	HKI 164-7-6 x 161	2.0	4.0	3.0	3.0	3.0	2.0-4.0	MR
33	HKI 164-D-3-3-2	2.5	4.0	5.0	2.0	3.4	2.0-5.0	MS
34	HKI 226	2.8	4.0	3.0	NG	3.3	2.8-4.0	MS
35	HKI 31-2	2.5	3.0	4.5	2.0	3.0	2.0-4.5	MR
36	HKI-2-6-2-4(1-2)-4	2.0	2.0	4.0	NG	2.7	2.0-4.0	MR
37	HKIMBR 139-2	2.5	3.0	4.0	NG	3.2	2.5-4.0	MS
38	Hyd05R/204-1	2.5	2.0	3.5	NG	2.7	2.0-3.5	MR
39	JCY2-7-1-2-1-B-1-2-1-1	1.8	3.0	4.0	1.0	2.4	1.0-4.0	MR
40	POBLAC61C4	2.0	3.0	3.0	2.5	2.6	2.0-3.0	MR
41	SHD-1 ER6	1.8	1.0	3.0	3.5	2.3	1.0-3.5	MR
42	SKV 18	2.0	2.0	3.0	2.0	2.3	2.0-3.0	MR
43	Temp.HOC 15	2.0	2.0	3.0	3.5	2.6	2.0-3.5	MR

Contd.

Table-18

Turcium leaf bilght score (1-5)								
S.No	**Genotype**	**BAJA**	**ALMO**	**MAND**	**DHAR**	**Av. Score**	**Range**	**Reaction**
44	CML 451Q	2.5	3.0	2.5	3.0	2.8	2.5-3.0	MR
45	CML165	2.8	2.0	3.0	3.0	2.7	2.0-3.0	MR
46	CML 3	2.5	1.0	3.5	3.5	2.6	1.0-3.5	MR
47	CML 321	2.5	3.0	3.0	3.0	2.9	2.5-3.0	MR
48	IIMRQPM 58	3.3	2.0	4.5	4.0	3.4	2.0-4.5	MS
49	DMSC 16-1	1.5	1.0	4.0	3.0	2.4	1.0-4.0	MR
50	DTPWC 9-F31-1-1-3	2.5	3.0	5.0	3.0	3.4	2.5-5.0	MS
51	HKI 141	1.8	2.0	4.0	2.0	2.4	1.8-4.0	MR
52	HKIC 78	1.5	1.0	3.5	2.5	2.1	1.0-3.5	MR
53	HKISCST	4.3	3.0	3.5	NG	3.6	3.0-4.3	MS
54	KML 3-3	2.8	2.0	3.0	2.0	2.4	2.0-3.0	MR
55	EIQ 101	2.0	3.0	4.0	3.5	3.1	2.0-4.0	MS
56	EIQ 102	2.0	3.0	4.0	3.0	3.0	2.0-4.0	MR
57	EIQ 103	3.8	2.0	3.0	4.0	3.2	2.0-4.0	MS
58	EIQ 104	2.5	1.0	3.0	3.0	2.4	1.0-3.0	MR
59	Res. Chcek	-	1.0	-	2.0	1.5	1.0-2.0	R
60	sus. Check.	4.8	4.0	3.5	5.0	4.3	3.5-5.0	S

Susceptible Check : TLB:- CM 202 **(BAJAURA);** DHYARI LOCAL **(ALMORA);** CM 202 **(MANDYA);** CM202 **(DHARWAD)**

Contd.

Table-18

		Banded leaf and sheath blight score (1-5)					P. RUST (1-5)		C. RUST (1-5)	
S.No	**Genotype**	**DELH**	**KARN**	**Av. Score**	**Range**	**Reaction**	**MAND**	**Reaction**	**DHAR**	**Reaction**
1	HKI 1105	3.5	2.0	2.8	2.0-3.5	MR	1.5	MR	2.0	MR
2	HKI 1344	4.0	2.5	3.3	2.5-4.0	MS	2.0	MR	2.0	MR
3	CM 212	4.0	1.6	2.8	1.6-4.0	MR	2.5	MS	1.0	R
4	CML 446	3.0	2.8	2.9	2.8-3.0	MR	3.0	MS	2.0	MR
5	HKI 323	4.0	2.1	3.1	2.1-4.0	MS	2.0	MR	3.0	MS
6	HKI Talar	3.0	2.0	2.5	2.0-3.0	MR	1.5	MR	4.0	S
7	JCY-3-7-1-2-1-B-2-3-2-1-3-2	3.5	1.6	2.6	1.6-3.5	MR	2.0	MR	2.0	MR
8	EI 670	2.0	2.0	2.0	2.0-2.0	R	2.5	MS	2.0	MR
9	EI 708	4.0	2.5	3.3	2.5-4.0	MS	3.0	MS	3.0	MS
10	EI 561	4.0	2.8	3.4	2.8-4.0	MS	3.0	MS	4.0	S
11	BML 8	3.5	2.7	3.1	2.7-3.5	MS	2.0	MR	3.0	MS
12	CML 117-3-4-1-1-4-1	3.0	3.4	3.2	3.0-3.4	MS	3.0	MS	2.0	MR
13	G18seqcef 74-2-1	3.0	3.2	3.1	3.0-3.2	MS	4.0	S	1.0	R
14	JCY 2-2-4-1-1	3.0	2.4	2.7	2.4-3.0	MR	3.5	S	3.0	MS
15	WSCShrunken X MUS MADHAU	4.0	2.8	3.4	2.8-4.0	MS	2.0	MR	2.5	MS
16	CM 117-3-2-1-1-1-2-1	3.0	2.0	2.5	2.0-3.0	MR	2.5	MS	2.0	MR
17	CM 129	NG	2.7	2.7	2.7-2.7	MR	2.0	MR	3.5	S
18	CM 132	3.0	3.0	3.0	3.0-3.0	MR	1.5	MR	3.5	S
19	CM 105	3.5	2.6	3.1	2.6-3.5	MS	2.0	MR	1.5	MR
20	CM 123	3.0	2.9	3.0	2.9-3.0	MR	2.0	MR	1.0	R
21	CM 128	2.0	2.7	2.4	2.0-2.7	MR	2.5	MS	2.0	MR

Contd.

Table-18

		Banded leaf and sheath blight score (1-5)					P. RUST (1-5)		C. RUST (1-5)	
S.No	Genotype	DELH	KARN	Av. Score	Range	Reaction	MAND	Reaction	DHAR	Reaction
22	CM 149	4.0	2.6	3.3	2.6-4.0	MS	3.0	MS	1.0	R
23	CML 451(P2)	3.5	2.5	3.0	2.5-3.5	MR	3.5	S	1.0	R
24	CUBA 377	3.5	2.2	2.9	2.2-3.5	MR	4.5	HS	1.0	R
25	IIMR QPM-03-124	3.5	2.0	2.8	2.0-3.5	MR	2.0	MR	1.0	R
26	IIMRQPM 03-113	2.5	1.6	2.1	1.6-2.5	MR	1.5	MR	1.5	MR
27	DMSC 20	4.0	1.7	2.9	1.7-4.0	MR	2.5	MS	1.5	MR
28	DMSC 36	2.0	1.8	1.9	1.8-2.0	R	3.5	S	1.0	R
29	DMSC 1	4.0	2.7	3.4	2.7-4.0	MS	2.0	MR	4.0	S
30	DMSC 6	4.0	2.3	3.2	2.3-4.0	MS	2.5	MS	1.0	R
31	DMSC 8	4.0	2.4	3.2	2.4-4.0	MS	2.0	MR	1.0	R
32	HKI 164-7-6 x 161	3.5	2.0	2.8	2.0-3.5	MR	3.0	MS	1.0	R
33	HKI 164-D-3-3-2	4.0	2.4	3.2	2.4-4.0	MS	2.5	MS	1.0	R
34	HKI 226	4.0	2.1	3.1	2.1-4.0	MS	2.5	MS	NG	-
35	HKI 31-2	3.5	2.0	2.8	2.0-3.5	MR	2.0	MR	1.0	R
36	HKI-2-6-2-4(1-2)-4	3.5	2.4	3.0	2.4-3.5	MR	3.0	MS	NG	-
37	HKIMBR 139-2	5.0	2.2	3.6	2.2-5.0	MS	2.5	MS	NG	-
38	Hyd05R/204-1	3.5	2.2	2.9	2.2-3.5	MR	3.5	S	NG	-
39	JCY2-7-1-2-1-B-1-2-1-1	4.0	2.1	3.1	2.1-4.0	MS	3.0	MS	1.0	R
40	POBLAC61C4	4.0	2.7	3.4	2.7-4.0	MS	2.5	MS	1.0	R
41	SHD-1 ER6	4.0	2.6	3.3	2.6-4.0	MS	2.0	MR	1.0	R
42	SKV 18	4.0	2.5	3.3	2.5-4.0	MS	1.5	MR	1.0	R
43	Temp.HOC 15	3.5	2.8	3.2	2.8-3.5	MS	2.0	MR	1.0	R

Contd.

Table-18

		Banded leaf and sheath blight score (1-5)					P. RUST (1-5)		C. RUST (1-5)	
S.No	**Genotype**	**DELH**	**KARN**	**Av. Score**	**Range**	**Reaction**	**MAND**	**Reaction**	**DHAR**	**Reaction**
44	CML 451Q	4.0	3.0	3.5	3.0-4.0	MS	1.5	MR	1.0	R
45	CML165	4.0	3.2	3.6	3.2-4.0	MS	2.5	MS	1.0	R
46	CML 3	4.0	2.9	3.5	1.6-3.5	MS	3.0	MS	2.0	MR
47	CML 321	3.5	1.9	2.7	1.9-3.5	MR	2.5	MS	1.0	R
48	IIMRQPM 58	3.5	2.3	2.9	2.3-3.5	MR	3.5	S	3.0	MS
49	DMSC 16-1	3.0	2.2	2.6	2.2-3.0	MR	3.0	MS	2.0	MR
50	DTPWC 9-F31-1-1-3	4.0	2.2	3.1	2.2-4.0	MS	4.0	S	1.0	R
51	HKI 141	3.5	2.1	2.8	2.1-3.5	MR	3.0	MS	2.0	MR
52	HKIC 78	4.0	1.9	3.0	1.9-4.0	MR	3.5	S	3.5	S
53	HKISCST	NG	1.8	1.8	1.8-1.8	R	2.5	MS	NG	-
54	KML 3-3	4.0	3.2	3.6	3.2-4.0	MS	2.0	MR	1.0	R
55	EIQ 101	4.0	2.6	3.3	2.6-4.0	MS	3.0	MS	3.0	MS
56	EIQ 102	4.0	2.5	3.3	2.5-4.0	MS	3.5	S	2.0	MR
57	EIQ 103	3.5	1.8	2.7	1.8-3.5	MR	2.5	MS	2.0	MR
58	EIQ 104	4.0	2.8	3.4	2.8-4.0	MS	2.0	MR	3.0	MS
59	Res. Chcek	-	3.7	3.7	3.7-3.7	MS	-	-	2.0	MR
60	sus. Check.	4.0	1.9	3.0	1.9-4.0	MR	3.5	S	4.0	S

Resistnat Check : BLSB:- HQPM 1 **(KARNAL)**

Susceptible Check : BLSB:- CM501 **(DELHI);** HKI1105+HKI536CBT **(KARNAL); P.RUST:-** 219J **(MANDYA)**
C.RUST:- CM 202 **(DHARWAD)**

Contd.

Table-18

		Sorghum downy mildew score (%)		Charcoal rot score (1-9)						
S.No	**Genotype**	**MAND**	**Reaction**	**IIMR***	**LUDH**	**HYD**	**COIM**	**Av. Score**	**Range**	**Reaction**
1	HKI 1105	92.3	S	1.3	4.4	4.1	6.6	5.0	4.1-6.6	MR
2	HKI 1344	100.0	S	1.0	5.0	2.5	7.6	5.0	2.5-7.6	MR
3	CM 212	100.0	S	1.0	4.4	5.4	7.8	5.9	4.4-7.8	MS
4	CML 446	100.0	S	1.0	3.8	2.5	6.2	4.2	2.5-6.2	MR
5	HKI 323	100.0	S	1.0	3.8	4.8	7.5	5.4	3.8-7.5	MS
6	HKI Talar	100.0	S	1.0	3.4	4.1	4.6	4.0	3.4-4.6	MR
7	JCY-3-7-1-2-1-B-2-3-2-1-3-2	25.0	MR	1.0	2.8	3.9	5.7	4.1	2.8-5.7	MR
8	EI 670	20.0	MR	1.0	4.4	3.6	5.8	4.6	3.6-5.8	MR
9	EI 708	88.9	S	1.0	5.5	5.7	1.0	4.1	1.0-5.7	MR
10	EI 561	100.0	S	1.0	5.4	5.5	3.3	4.7	3.3-5.5	MR
11	BML 8	42.9	MS	1.0	5.0	3.0	6.4	4.8	3.0-6.4	MR
12	CML 117-3-4-1-1-4-1	100.0	S	1.0	5.3	4.5	5.0	4.9	4.5-5.6	MR
13	G18seqcef 74-2-1	100.0	S	1.0	5.6	3.8	5.2	4.9	3.8-5.6	MR
14	JCY 2-2-4-1-1	100.0	S	1.0	4.2	5.6	8.0	5.9	4.2-8.0	MS
15	WSCShrunken X MUS MADHAU	100.0	S	1.6	5.3	6.0	6.8	6.0	5.3-6.8	MS
16	CM 117-3-2-1-1-1-2-1	100.0	S	1.0	5.8	NG	7.8	6.8	5.8-7.8	MS
17	CM 129	100.0	S	1.0	5.5	5.1	7.9	6.2	5.1-7.9	MS
18	CM 132	100.0	S	1.0	6.0	5.4	7.6	6.3	5.4-7.6	MS
19	CM 105	100.0	S	1.0	4.8	4.9	8.2	6.0	4.8-8.2	MS
20	CM 123	100.0	S	1.0	4.0	3.4	7.6	5.0	3.4-7.6	MR
21	CM 128	83.3	S	1.0	4.6	6.0	1.7	4.1	1.7-6.0	MR

Contd.

Table-18

		Sorghum downy mildew score (%)		Charcoal rot score (1-9)						
S.No	**Genotype**	**MAND**	**Reaction**	**IIMR***	**LUDH**	**HYD**	**COIM**	**Av. Score**	**Range**	**Reaction**
22	CM 149	100.0	S	1.0	5.0	5.3	7.9	6.1	5.0-7.9	MS
23	CML 451(P2)	100.0	S	1.0	7.3	5.7	7.5	6.8	5.7-7.5	MS
24	CUBA 377	100.0	S	1.0	4.6	3.5	7.3	5.1	3.5-7.3	MS
25	IIMR QPM-03-124	100.0	S	1.0	5.2	4.5	7.7	5.8	4.5-7.7	MS
26	IIMRQPM 03-113	100.0	S	1.0	5.6	5.3	7.9	6.3	5.3-7.9	MS
27	DMSC 20	100.0	S	1.0	6.2	3.3	7.1	5.5	3.3-7.1	MS
28	DMSC 36	100.0	S	1.0	4.6	5.3	5.4	5.1	4.6-5.4	MS
29	DMSC 1	100.0	S	1.3	6.8	6.3	4.5	5.9	4.5-6.8	MS
30	DMSC 6	90.0	S	2.9	6.0	6.5	2.8	5.1	2.8-6.5	MS
31	DMSC 8	100.0	S	1.2	7.0	-	1.0	4.0	1.0-7.0	MR
32	HKI 164-7-6 x 161	100.0	S	1.8	6.4	5.8	5.1	5.8	5.1-6.4	MS
33	HKI 164-D-3-3-2	100.0	S	1.0	6.5	4.9	5.9	5.8	4.9-6.5	MS
34	HKI 226	100.0	S	1.0	4.4	5.1	3.4	4.3	3.4-5.1	MR
35	HKI 31-2	100.0	S	1.0	4.8	5.1	3.4	4.4	3.4-5.1	MR
36	HKI-2-6-2-4(1-2)-4	100.0	S	1.0	4.0	4.3	1.0	3.1	1.0-4.3	MR
37	HKIMBR 139-2	100.0	S	1.0	4.5	6.3	2.8	4.5	2.8-6.3	MR
38	Hyd05R/204-1	100.0	S	1.0	4.6	2.8	4.0	3.8	2.8-4.6	MR
39	JCY2-7-1-2-1-B-1-2-1-1	100.0	S	1.0	4.4	3.3	1.0	2.9	1.0-4.4	R
40	POBLAC61C4	100.0	S	1.5	6.4	3.9	5.6	5.3	3.9-6.4	MS
41	SHD-1 ER6	100.0	S	1.4	5.8	6.3	6.3	6.1	5.8-6.3	MS
42	SKV 18	70.0	S	1.0	4.7	3.9	5.8	4.8	3.9-5.8	MR
43	Temp.HOC 15	100.0	S	1.0	4.4	5.0	4.6	4.7	4.4-5.0	MR

Contd.

Table-18

		Sorghum downy mildew score (%)		Charcoal rot score (1-9)						
S.No	**Genotype**	**MAND**	**Reaction**	**IIMR***	**LUDH**	**HYD**	**COIM**	**Av. Score**	**Range**	**Reaction**
44	CML 451Q	100.0	S	1.0	5.4	4.8	4.1	4.8	4.1-5.4	MR
45	CML165	100.0	S	1.0	5.4	5.1	4.3	4.9	4.3-5.4	MR
46	CML 3	100.0	S	1.0	5.4	4.9	6.5	5.6	4.9-6.5	MS
47	CML 321	100.0	S	1.0	4.5	3.8	8.2	5.5	3.8-8.2	MS
48	IIMRQPM 58	100.0	S	1.0	5.4	5.5	8.0	6.3	5.4-8.0	MS
49	DMSC 16-1	100.0	S	1.0	4.0	6.1	6.5	5.5	4.0-6.5	MS
50	DTPWC 9-F31-1-1-3	100.0	S	1.0	7.4	5.4	7.1	6.6	5.4-7.4	MS
51	HKI 141	100.0	S	1.6	4.6	2.8	2.5	3.3	2.5-4.6	MR
52	HKIC 78	100.0	S	1.4	4.6	NG	3.0	3.8	3.0-4.6	MR
53	HKISCST	100.0	S	-	NG	6.0	2.8	4.4	2.8-6.0	MR
54	KML 3-3	100.0	S	1.4	4.4	5.9	7.4	5.9	4.4-7.4	MS
55	EIQ 101	100.0	S	1.0	7.0	5.8	6.0	6.3	5.8-7.0	MS
56	EIQ 102	100.0	S	2.0	5.4	5.8	5.3	5.5	5.3-5.8	MS
57	EIQ 103	100.0	S	1.9	7.0	6.4	4.4	5.9	4.4-7.0	MS
58	EIQ 104	100.0	S	1.0	4.4	4.5	4.4	4.4	4.4-4.5	MR
59	Res. Chcek	14.3	MR	-	-	3.8	-	3.8	3.8-3.8	MR
60	sus. Check.	100.0	S	1.2	7.5	6.9	8.4	7.6	6.9-8.4	S

Resistnat Check : SDM:- CoH6 **(COMIBATORE); C.ROT:-** LET DR 99x Ent 49 **(LUDHAIANA);** JCY2-7 **(HYDERABAD)**

SDM:- CM 500 **(MANDYA);** CM 500 **(COIMBATORE);C.ROT;-** CM600 **(LUDHIANA);** BML6 **(HYDERABAD)**

* Data not considered due to low disease pressure

Contd.

Table-18

		Fusariun stalk rot score (1-9)		Rajasthan downy mildew score (%)		Curvularia leaf spot score (1-5)	
S.No	**Genotype**	**UDAI**	**Reaction**	**UDAI**	**Reaction**	**UDAI**	**Reaction**
1	HKI 1105	5.2	MS	9.0	R	1.5	R
2	HKI 1344	4.5	MR	29.0	MS	1.5	R
3	CM 212	4.6	MR	44.0	MS	2.5	MR
4	CML 446	1.5	R	75.0	S	2.5	MR
5	HKI 323	3.8	MR	46.0	MS	1.0	R
6	HKI Talar	2.1	R	0.0	R	1.5	R
7	JCY-3-7-1-2-1-B-2-3-2-1-3-2	2.6	R	0.0	R	1.5	R
8	EI 670	1.7	R	17.0	MR	2.5	MR
9	EI 708	6.5	MS	15.0	MR	3.0	MR
10	EI 561	3.8	MR	8.0	R	2.0	R
11	BML 8	2.5	R	0.0	R	1.0	R
12	CML 117-3-4-1-1-4-1	1.5	R	0.0	R	1.0	R
13	G18seqcef 74-2-1	1.5	R	12.0	MR	3.0	MR
14	JCY 2-2-4-1-1	2.5	R	19.0	MR	3.0	MR
15	WSCShrunken X MUS MADHAU	8.0	S	36.0	MS	3.5	MS
16	CM 117-3-2-1-1-1-2-1	4.0	MR	33.0	MS	3.0	MR
17	CM 129	6.0	MS	29.0	MS	4.0	MS
18	CM 132	4.5	MR	18.0	MR	4.0	MS
19	CM 105	1.9	R	0.0	R	4.0	MS
20	CM 123	5.0	MR	25.0	MR	3.5	MS
21	CM 128	3.0	R	35.0	MS	1.5	R

Contd.

Table-18

		Fusariun stalk rot score (1-9)		Rajasthan downy mildew score (%)		Curvularia leaf spot score (1-5)	
S.No	**Genotype**	**UDAI**	**Reaction**	**UDAI**	**Reaction**	**UDAI**	**Reaction**
22	CM 149	7.1	S	7.0	R	2.0	R
23	CML 451(P2)	4.2	MR	13.0	MR	2.5	MR
24	CUBA 377	2.2	R	21.0	MR	3.0	MR
25	IIMR QPM-03-124	6.8	MS	33.0	MS	2.0	R
26	IIMRQPM 03-113	4.6	MR	0.0	R	2.0	R
27	DMSC 20	5.8	MS	15.0	MR	2.0	R
28	DMSC 36	5.0	MR	33.0	MS	1.5	R
29	DMSC 1	5.5	MS	0.0	R	0.5	R
30	DMSC 6	5.7	MS	63.0	S	1.0	R
31	DMSC 8	4.3	MR	47.0	MR	3.5	MS
32	HKI 164-7-6 x 161	4.3	MR	64.0	S	4.0	MS
33	HKI 164-D-3-3-2	6.2	MS	100.0	S	4.0	MS
34	HKI 226	3.7	MR	8.0	R	1.5	R
35	HKI 31-2	6.6	MS	11.0	MR	2.0	R
36	HKI-2-6-2-4(1-2)-4	2.3	R	0.0	R	3.0	MR
37	HKIMBR 139-2	2.3	R	65.0	S	3.0	MR
38	Hyd05R/204-1	4.8	MR	29.0	MR	2.0	R
39	JCY2-7-1-2-1-B-1-2-1-1	6.5	MS	0.0	R	1.5	R
40	POBLAC61C4	6.2	MS	0.0	R	2.5	MR
41	SHD-1 ER6	5.2	MS	7.0	R	3.5	MS
42	SKV 18	3.4	MR	9.0	R	3.5	MS
43	Temp.HOC 15	4.2	MR	100.0	S	1.5	R

Contd.

Table-18

		Fusariun stalk rot score (1-9)		Rajasthan downy mildew score (%)		Curvularia leaf spot score (1-5)	
S.No	**Genotype**	**UDAI**	**Reaction**	**UDAI**	**Reaction**	**UDAI**	**Reaction**
44	CML 451Q	3.3	MR	9.0	R	3.0	MR
45	CML165	4.2	MR	0.0	R	2.5	MR
46	CML 3	5.0	MR	14.0	MR	1.5	R
47	CML 321	4.5	MR	13.0	MR	1.5	R
48	IIMRQPM 58	5.8	MS	21.0	MR	1.5	R
49	DMSC 16-1	4.9	MR	36.0	MS	2.5	MR
50	DTPWC 9-F31-1-1-3	4.0	MR	40.0	MS	1.0	R
51	HKI 141	4.6	MR	11.0	MR	1.5	R
52	HKIC 78	5.0	MR	20.0	MR	1.5	R
53	HKISCST	6.0	MS	NG	-	2.5	MR
54	KML 3-3	6.0	MS	0.0	R	3.0	MR
55	EIQ 101	7.0	MS	0.0	R	2.5	MR
56	EIQ 102	3.7	MR	6.0	R	1.0	R
57	EIQ 103	4.5	MR	0.0	R	1.5	R
58	EIQ 104	4.5	MR	0.0	R	1.5	R
59	Res. Chcek	-	-	-	-	-	-
60	sus. Check.	8.0	S	89.0	S	4.5	S

Susceptible Check : FSR:- SURYA **(UDAIPUR); RDM:-** SURYA **(UDAIPUR); CLS:-** SURYA **(UDAIPUR)**

Table 19. Disease screening of QPM lines against different diseases (B)

		Maydis leaf blight score (1-5)						Turcicum leaf blight score (1-5)				
S.No	**Genotype**	**DELH**	**LUDHH**	**KARNN**	**Av.Score**	**Range**	**Reaction**	**BAJA**	**MAND**	**Av.Score**	**Range**	**Reaction**
1	DQL 2006	2.5	3.5	2.4	2.8	2.4-3.5	MR	3.0	4.3	3.7	3.0-4.3	MS
2	DQL 2008-1	3.0	3.0	2.6	2.9	2.6-3.0	MR	2.0	4.3	3.2	2.0-4.3	MS
3	DQL 2009	4.0	3.0	2.4	3.1	2.4-4.0	MS	1.5	3.3	2.4	1.5-3.3	MR
4	DQL 2010	2.0	3.0	4.0	3.0	2.0-4.0	MR	2.5	2.8	2.7	2.5-2.8	MR
5	DQL 2015	2.5	3.3	1.6	2.5	1.6-3.3	MR	1.5	4.3	2.9	1.5-4.3	MR
6	DQL 2019	3.0	2.5	1.8	2.4	1.8-3.0	MR	1.5	3.3	2.4	1.5-3.3	MR
7	DQL 2024	3.5	3.0	2.4	3.0	2.4-3.5	MR	1.5	3.3	2.4	1.5-3.3	MR
8	DQL 2025	4.5	2.0	2.4	3.0	2.0-4.5	MR	2.0	4.3	3.2	2.0-4.3	MS
9	DQL 2028	3.0	2.5	2.4	2.6	2.4-3.0	MR	2.5	3.8	3.2	2.5-3.8	MS
10	DQL 2031	2.5	3.3	2.4	2.7	2.4-3.3	MR	2.0	4.5	3.3	2.0-4.5	MS
12	DQL 2034	2.5	3.0	4.0	3.2	2.5-4.0	MS	2.0	2.8	2.4	2.0-2.8	MR
13	DQL 2038	2.0	2.3	1.8	2.0	1.8-2.3	R	2.0	3.8	2.9	2.0-3.8	MR
14	DQL 2039	2.5	3.3	2.4	2.7	2.4-3.3	MR	1.5	4.3	2.9	1.5-4.3	MR
15	DQL 2048	3.0	2.5	1.7	2.4	1.7-3.0	MR	1.5	3.3	2.4	1.5-3.3	MR
16	DQL 2054	3.0	3.0	3.6	3.2	3.0-3.6	MS	1.5	4.5	3.0	1.5-4.5	MR
17	DQL 2055	2.5	3.0	2.4	2.6	2.4-3.0	MR	NG	2.8	2.8	2.8-2.8	MR
18	DQL 2071	2.0	3.0	2.4	2.5	2.0-3.0	MR	2.0	3.8	2.9	2.0-3.8	MR
19	DQL 2068	3.0	2.3	1.6	2.3	1.6-3.0	MR	1.5	4.5	3.0	1.5-4.5	MR
20	DQL 2057	2.0	3.5	4.0	3.2	2.0-4.0	MS	1.5	4.3	2.9	1.5-4.3	MR
22	DQL 2046	2.5	2.3	1.6	2.1	1.6-2.5	MR	2.5	4.0	3.3	2.5-4.0	MS
23	DQL 2157	2.0	2.3	1.9	2.1	1.6-2.3	MR	1.5	4.3	2.9	1.5-4.3	MR
24	DQL 2111	2.5	3.5	1.6	2.5	1.6-3.5	MR	2.0	4.5	3.3	2.0-4.5	MS
25	DQL 2113	2.5	2.3	2.0	2.3	2.0-2.5	MR	2.5	3.3	2.9	2.5-3.3	MR
26	DQL 2104	2.0	2.3	1.8	2.0	1.8-2.3	R	2.0	4.3	3.2	2.0-4.3	MS
27	DQL 2105-1	2.0	3.0	1.6	2.2	1.6-3.0	MR	2.0	4.3	3.2	2.0-4.3	MS
28	Resistant Check	-	2.0	1.5	1.8	1.5-2.0	R	-	2.0	2.0	2.0-2.0	R
29	Susistant Check	4.5	4.3	3.5	4.1	3.5-4.5	S	4.5	4.8	4.7	4.5-4.8	S

Resistant Check:- MLB;- LET DR 99xEnt 49 **(LUDHhiana);** HKI 1128 **(Karnal); TLB:-**Nityashree **(Mandya)**

Susceptible Check:- MLB- CM 600 **(Delhi);** LTP1-Äb-Äb **(Ludhiana);** HKI 1105 + HKI 536CBTB **(Karnal); TLB:-** CM 202 **(Mandya)**

Contd.

Table-19

		BLSB (1-5)		C.ROT (1-9)					P. Rust (1-5)	
S.No	**Genotype**	**KARN**	**Reaction**	**LUDH**	**DELH**	**Av.Score**	**Range**	**Reaction**	**MAND**	**Reaction**
1	DQL 2006	2.4	MR	6.0	3.0	4.5	3.0-6.0	MR	3.3	S
2	DQL 2008-1	2.6	MR	4.8	3.6	4.2	3.6-4.8	MR	2.3	MS
3	DQL 2009	2.2	MR	4.3	1.3	2.8	1.3-4.3	R	1.8	MR
4	DQL 2010	2.2	MR	4.3	2.4	3.3	2.4-4.3	MR	2.3	MS
5	DQL 2015	2.6	MR	5.6	1.0	3.3	1.0-5.6	MR	3.3	S
6	DQL 2019	3.2	MS	5.6	2.7	4.2	2.7-5.6	MR	2.8	MS
7	DQL 2024	2.8	MR	6.5	3.0	4.8	3.0-6.5	MR	2.3	MS
8	DQL 2025	2.2	MR	6.8	2.8	4.8	2.8-6.8	MR	2.8	MS
9	DQL 2028	2.8	MR	5.0	2.1	3.6	2.1-5.0	MR	2.5	MS
10	DQL 2031	2.4	MR	6.3	2.0	4.2	2.0-6.3	MR	3.5	S
12	DQL 2034	2.8	MR	5.6	2.2	3.9	2.2-5.6	MR	2.0	MR
13	DQL 2038	2.8	MR	3.8	1.5	2.7	1.5-3.8	R	3.0	MS
14	DQL 2039	2.8	MR	5.8	2.2	4.0	2.2-5.8	MR	3.5	S
15	DQL 2048	2.0	R	5.8	1.9	3.8	1.9-5.8	MR	3.3	S
16	DQL 2054	1.8	R	4.0	3.1	3.6	3.1-4.0	MR	3.8	S
17	DQL 2055	2.8	MR	4.2	2.3	3.3	2.3-4.2	MR	2.3	MS
18	DQL 2071	1.8	R	5.6	1.4	3.5	1.4-5.6	MR	2.3	MS
19	DQL 2068	3.0	MR	5.8	2.0	3.9	2.0-5.8	MR	2.8	MS
20	DQL 2057	1.5	R	5.6	1.0	3.3	1.0-5.6	MR	3.5	S
22	DQL 2046	2.6	MR	5.0	3.8	4.4	3.8-5.0	MR	3.3	S
23	DQL 2157	2.8	MR	6.5	3.4	4.9	3.4-6.5	MR	2.8	MS
24	DQL 2111	1.5	R	5.8	3.2	4.5	3.2-5.8	MR	3.3	S
25	DQL 2113	2.0	R	5.0	1.5	3.3	1.5-5.0	MR	2.5	MS
26	DQL 2104	2.2	MR	3.0	1.6	2.3	1.6-3.0	R	4.3	HS
27	DQL 2105-1	1.5	R	5.0	3.9	4.4	3.9-5.0	MR	3.8	S
28	Resistant Check	1.6	R	3.0	1.0	2.0	1.0-3.0	R	1.8	MR
29	Susistant Check	3.2	MS	6.8	1.6	4.2	1.6-6.8	MR	4.3	HS

Rsistant Check :- BLSB: HKI 1105 + HKI 536CBT **(Karnal); C. ROT;-** LET DR 99 **(Ludhiana); P. rust:-** Nityashree **(Mandya)**
Susceptible Check:- BLSB:- HKI 1128 **(Karnal); C.ROT:** CM 600 **(Ludhiana); P.rust :-** CM202 **(Mandya)**

Table 20. Disease screening of association panel (300 lines) against different diseases of maize (C)

		MLB (1-5)		TLB (1-5)					
S.No.	Genotypes	LUDH	Reaction	BAJA	MAND	DHAR	Av.Score	Range	Reaction
1	BML 7	1.5	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
2	BML-45	1.5	R	2.0	3.0	3.0	2.7	2.0-3.0	MR
3	BRASIL-117	1.5	R	1.5	3.0	2.0	2.2	1.5-3.0	MR
4	CML 292	2.5	MR	1.5	4.0	4.0	3.2	1.5-4.0	MS
5	DML-1	2.0	R	3.0	3.0	3.0	3.0	3.0-3.0	MR
6	DML-104	2.5	MR	1.5	4.0	5.0	3.5	1.5-5.0	MS
7	DML-112	2.0	R	2.0	3.0	2.5	2.5	2.0-3.0	MR
8	DML-119	1.5	R	1.5	4.0	4.0	3.2	1.5-4.0	MS
9	DML-127	2.5	MR	2.5	3.5	3.0	3.0	2.5-3.5	MR
10	DML-128	1.5	R	1.5	3.0	2.0	2.2	1.5-3.0	MR
11	DML-134B	2.5	MR	2.5	3.5	4.0	3.3	2.5-4.0	MS
12	DML-16	1.5	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
13	DML-16-2	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
14	DML-163-1	2.0	R	1.5	3.5	4.0	3.0	1.5-4.0	MR
15	DML-170	2.5	MR	1.5	3.0	3.0	2.5	1.5-3.0	MR
16	DML-18-1	2.0	R	1.5	3.5	4.0	3.0	1.5-4.0	MR
17	DML-181	2.5	MR	3.5	3.0	2.0	2.8	2.0-3.5	MR
18	DML-19	2.5	MR	2.5	4.0	5.0	3.8	2.5-5.0	MS
19	DML-193	1.5	R	2.5	4.0	2.0	2.8	2.0-4.0	MR
20	DML-194	2.0	R	3.0	4.0	3.0	3.3	3.0-4.0	MS
21	HKI 1128-C	NG	-	3.5	3.0	3.0	3.2	3.0-3.5	MS
22	LM13 (R)-C	2.0	R	2.5	3.0	2.5	2.7	2.5-3.0	MR
23	UMI 1210-C	2.0	R	1.5	3.0	2.5	2.3	1.5-3.0	MR
24	CM111 (S)-C	2.5	MR	1.5	3.5	2.0	2.3	1.5-3.5	MR
25	DML-196	1.5	R	2.0	3.5	4.0	3.2	2.0-4.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
26	DML-212A	3.0	MR	2.5	4.0	5.0	3.8	2.5-5.0	MS
27	DML-221	2.5	MR	2.5	3.5	4.0	3.3	2.5-4.0	MS
28	DML-241-1	2.5	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
29	DML-242	3.0	MR	3.0	3.5	3.0	3.2	3.0-3.5	MS
30	DML-26-2	3.5	MS	2.0	3.5	4.0	3.2	2.0-4.0	MS
31	DML-269	2.5	MR	1.5	3.5	3.0	2.7	1.5-3.5	MR
32	DML-27-1	NG	-	2.5	4.0	3.0	3.2	2.5-4.0	MS
33	DML-310	2.5	MR	2.0	3.0	3.0	2.7	2.0-3.0	MR
34	DML-346	4.5	S	2.0	3.0	3.0	2.7	2.0-3.0	MR
35	DML-37-1	2.5	MR	2.5	3.0	3.0	2.8	2.5-3.0	MR
36	DML-416	2.0	R	1.5	4.0	2.0	2.5	1.5-4.0	MR
37	DML-49-1	2.5	MR	1.5	4.0	2.0	2.5	1.5-4.0	MR
38	DMRPE-6-4-B	2.0	R	2.0	3.0	3.0	2.7	2.0-3.0	MR
39	DQL-1017-2	3.0	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
40	DQL-1001	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
41	DQL 1005	4.0	MS	3.5	3.0	2.0	2.8	2.0-3.5	MR
42	HKI 42050	3.0	MR	3.0	3.0	2.0	2.7	2.0-3.0	MR
43	UMI 1200	2.0	R	2.0	3.0	2.5	2.5	2.0-3.0	MR
44	UMI 1201	2.0	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
45	HKI 1128-C	NG	-	1.5	3.5	3.0	2.7	1.5-3.5	MR
46	LM13 (R)-C	2.0	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
47	UMI 1210-C	1.5	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
48	CM111 (S)-C	2.5	MR	2.0	3.0	3.0	2.7	2.0-3.0	MR
49	UMI 1230	NG	-	2.5	3.0	2.0	2.5	2.0-3.0	MR
50	V-373	2.5	MR	1.5	3.0	2.5	2.3	1.5-3.0	MR
51	DQL-653-5-1	1.5	R	1.5	4.0	3.0	2.8	1.5-4.0	MR
52	DQL-653-2-4	3.0	MR	2.5	4.5	5.0	4.0	2.5-5.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
53	DQL-779-1	2.5	MR	2.5	4.5	4.0	3.7	2.5-4.5	MS
54	DQL-594 (Spiral)-3	NG	-	2.5	3.5	4.0	3.3	2.5-4.0	MS
55	DQL-609(dark purple)-1-3	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
56	DQL-610-12-4	3.5	MS	2.5	3.0	2.0	2.5	2.0-3.0	MR
57	DQL-611-4-2	3.5	MS	2.5	4.0	3.0	3.2	2.5-4.0	MS
58	DQL-614-5-4	2.0	R	2.0	5.0	3.0	3.3	2.0-5.0	MS
59	DQL-614-2-3	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
60	DQL-780-2	2.5	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
61	DQL-620-2-1	3.0	MR	2.5	4.0	3.0	3.2	2.5-4.0	MS
62	DQL-781-2	2.5	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
63	DQL-621-1-1A	3.0	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
64	DQL-621 (Seg)-4-10	2.5	MR	2.0	3.0	2.0	2.3	2.0-3.0	MR
65	DQL-621 (Seg)-9-1	2.5	MR	2.0	3.0	2.0	2.3	2.0-3.0	MR
66	DQL-506-12-2	2.5	MR	2.5	5.0	2.0	3.2	2.0-5.0	MS
67	DQL-506-1	2.0	R	3.0	3.0	3.0	3.0	3.0-3.0	MR
68	DQL-297-1-3	1.5	R	4.0	4.0	2.0	3.3	2.0-4.0	MS
69	HKI 1128-C	2.5	MR	3.5	3.0	2.0	2.8	2.0-3.5	MR
70	LM13 (R)-C	2.0	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
71	UMI 1210-C	1.5	R	2.5	3.0	3.0	2.8	2.5-3.0	MR
72	CM111 (S)-C	2.5	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
73	DQL-299-1-1	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
74	DQL-621 (Seg)-16-5	2.5	MR	1.5	3.0	3.0	2.5	1.5-3.0	MR
75	DQL-295-1-1	2.5	MR	2.0	3.0	3.0	2.7	2.0-3.0	MR
76	DQL-565 (V)-5-2 (Orange)	2.5	MR	1.5	4.0	3.0	2.8	1.5-4.0	MR
77	DQL-626 (ORANGE)-2-3	1.5	R	2.5	4.0	2.5	3.0	2.5-4.0	MR
78	DQL-291-4	2.0	R	2.5	3.5	2.0	2.7	2.0-3.5	MR
79	DQL-565 (V)-6-2 (Orange)	2.0	R	3.5	4.0	1.0	2.8	1.0-4.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
80	CLQRCYQ-107	1.5	R	3.0	3.5	2.0	2.8	2.0-3.5	MR
81	DQL-621(SEG)-1-7	3.0	MR	3.0	5.0	4.0	4.0	3.0-5.0	MS
82	DQL-630-(ORANGE)-3-6	2.5	MR	3.0	4.5	2.0	3.2	2.0-4.5	MS
83	DQL-659(YELLOW)-1-2	2.0	R	3.0	4.5	4.0	3.8	3.0-4.5	MS
84	DQL-669-13-3	2.0	R	3.5	3.5	2.0	3.0	2.0-3.5	MR
85	DQL-676-16-3	2.5	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
86	DMRQPM-03-102	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
87	DMRQPM-103	1.5	R	3.5	4.0	2.0	3.2	2.0-4.0	MS
88	DQL-769(YELLOW)-6-3	2.5	MR	3.5	5.0	4.0	4.2	3.5-5.0	S
89	DMRQPM-58	4.5	S	3.0	3.0	4.0	3.3	3.0-4.0	MS
90	DQL-641-4-2	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
91	DQL-685(Orange)-13-1	1.5	R	2.0	3.0	4.0	3.0	2.0-4.0	MR
92	DQL-716(Y)-1-3	2.5	MR	2.5	3.0	4.0	3.2	2.5-4.0	MS
93	HKI 1128-C	NG	-	2.0	3.0	3.0	2.7	2.0-3.0	MR
94	LM13 (R)-C	2.0	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
95	UMI 1210-C	2.5	MR	1.5	3.0	2.0	2.2	1.5-3.0	MR
96	CM111 (S)-C	3.0	MR	1.5	4.0	2.0	2.5	1.5-4.0	MR
97	DQL-720-10-5	3.5	MS	2.5	4.0	3.0	3.2	2.5-4.0	MS
98	DQL-574-2	4.0	MS	3.5	5.0	5.0	4.5	3.5-5.0	S
99	DQL-593-3	3.0	MR	3.5	5.0	5.0	4.5	3.5-5.0	S
100	DQL-609(WG)-1-4	3.5	MS	3.5	4.0	3.0	3.5	3.0-4.0	MS
101	DQL-593-4	3.5	MS	3.5	4.0	4.0	3.8	3.5-4.0	MS
102	DQL-784(O)-4-1	3.0	MR	4.5	3.5	4.0	4.0	3.5-4.5	MS
103	DQL-602-2	2.0	R	2.5	3.5	4.0	3.3	2.5-4.0	MS
104	DQL-785(seg)-1-1	2.5	MR	2.0	5.0	4.0	3.7	2.0-5.0	MS
105	DQL-609-5	3.0	MR	2.5	5.0	3.5	3.7	2.5-5.0	MS
106	DQL-785(seg)-1-8	2.5	MR	2.5	3.0	4.0	3.2	2.5-4.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
107	DQL-614-6	2.5	MR	3.5	4.0	2.0	3.2	2.0-4.0	MS
108	DQL-790(PG)-2-4	2.0	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
109	DQL-74-1-4B	4.0	MS	3.5	4.5	2.0	3.3	2.0-4.5	MS
110	DQL-653-3-1	2.0	R	2.5	4.5	3.0	3.3	2.5-4.5	MS
111	DQL-633-1-1	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
112	CM 120	2.0	R	3.5	4.0	2.0	3.2	2.0-4.0	MS
113	CM 125	2.0	R	1.5	4.0	4.0	3.2	1.5-4.0	MS
114	CM 133	NG	-	2.5	3.5	5.0	3.7	2.5-5.0	MS
115	CM 135	3.5	MS	2.5	4.5	4.0	3.7	2.5-4.5	MS
116	CM 138	2.5	MR	2.0	3.0	5.0	3.3	2.0-5.0	MS
117	HKI 1128-C	NG	-	3.5	3.5	3.0	3.3	3.0-3.5	MS
118	LM13 (R)-C	2.5	MR	2.5	3.0	2.0	2.5	2.0-3.0	MR
119	UMI 1210-C	1.5	R	3.0	3.0	2.0	2.7	2.0-3.0	MR
120	CM111 (S)-C	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
121	CM 140	3.0	MR	2.5	4.5	5.0	4.0	2.5-5.0	MS
122	CM 145	2.0	R	3.0	4.0	3.5	3.5	3.0-4.0	MS
123	CM 149	1.5	R	3.0	4.0	3.0	3.3	3.0-4.0	MS
124	CM202XE57	2.5	MR	2.5	3.5	2.0	2.7	2.0-3.5	MR
125	CM 207	1.5	R	2.0	4.0	3.0	3.0	2.0-4.0	MR
126	CM 210	3.0	MR	2.0	4.0	3.5	3.2	2.0-4.0	MS
127	CM 212	2.0	R	2.5	3.5	4.0	3.3	2.5-4.0	MS
128	CM 213	2.0	R	2.0	3.0	3.0	2.7	2.0-3.0	MR
129	CM 400	2.0	R	3.5	3.5	3.0	3.3	3.0-3.5	MS
130	CML 111	3.5	MS	2.0	3.5	4.0	3.2	2.0-4.0	MS
131	CML 112BBB	2.0	R	3.5	3.0	4.0	3.5	3.0-4.0	MS
132	CML 114	2.5	MR	3.5	3.0	4.0	3.5	3.0-4.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
133	CML 117-3-4	2.5	MR	3.5	3.0	4.0	3.5	3.0-4.0	MS
134	CML 12	2.5	MR	3.5	4.0	2.0	3.2	2.0-4.0	MS
135	CML 121	3.0	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
136	CML 141	1.5	R	3.5	3.5	2.0	3.0	2.0-3.5	MR
137	CML 162	2.5	MR	2.5	3.5	4.0	3.3	2.5-4.0	MS
138	CML 171	2.5	MR	4.0	3.0	3.0	3.3	3.0-4.0	MS
139	CML 172	3.0	MR	2.0	4.5	3.0	3.2	2.0-4.5	MS
140	CML 22	3.0	MR	2.5	3.0	4.0	3.2	2.5-4.0	MS
141	HKI 1128-C	NG	-	2.0	3.0	2.0	2.3	2.0-3.0	MR
142	LM13 (R)-C	2.0	R	2.5	3.0	1.0	2.2	1.0-3.0	MR
143	UMI 1210-C	2.0	R	1.5	3.0	2.0	2.2	1.5-3.0	MR
144	CM111 (S)-C	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
145	CML 220	2.5	MR	2.0	3.0	4.0	3.0	2.0-4.0	MR
146	CML 227	3.0	MR	2.0	4.5	2.0	2.8	2.0-4.5	MR
147	CML 23	3.0	MR	2.5	3.0	3.0	2.8	2.5-3.0	MR
148	CML 27	1.5	R	3.0	3.0	4.0	3.3	3.0-4.0	MS
149	CML 282	1.5	R	2.5	3.0	2.0	2.5	2.0-3.0	MR
150	CML 29	2.5	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
151	CML 295BBB	1.5	R	1.5	4.0	2.0	2.5	1.5-4.0	MR
152	CML 304	2.0	R	2.0	4.0	3.0	3.0	2.0-4.0	MR
153	CML 312	2.5	MR	2.5	3.5	4.0	3.3	2.5-4.0	MS
154	CML 317	3.0	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
155	CML 321	3.0	MR	3.0	3.5	2.0	2.8	2.0-3.5	MR
156	CML 327	2.0	R	2.0	4.0	2.0	2.7	2.0-4.0	MR
157	CML 334	2.5	MR	3.0	5.0	2.0	3.3	2.0-5.0	MS
158	CML 395	3.0	MR	2.0	5.0	2.0	3.0	2.0-5.0	MR
159	CML 408	2.5	MR	2.0	3.5	3.0	2.8	2.0-3.5	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
160	CML 409	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
161	CML 40BBB	1.5	R	2.5	5.0	2.0	3.2	2.0-5.0	MS
162	CML 420	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
163	CML 422	2.0	R	2.5	5.0	2.0	3.2	2.0-5.0	MS
164	CML 435	2.0	R	2.5	4.0	2.0	2.8	2.0-4.0	MR
165	HKI 1128-C	NG	-	2.5	4.0	2.0	2.8	2.0-4.0	MR
166	LM13 (R)-C	2.5	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
167	UMI 1210-C	2.0		2.0	3.5	1.0	2.2	1.0-3.5	MR
168	CM111 (S)-C	3.0	MR	2.0	3.5	1.0	2.2	1.0-3.5	MR
169	CML 44	3.0	MR	2.5	4.0	3.0	3.2	2.5-4.0	MS
170	CML 451XE62	2.5	MR	2.0	3.5	1.0	2.2	1.0-3.5	MR
171	CML 452	1.5	R	2.0	4.0	2.0	2.7	2.0-4.0	MR
172	CML 494	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
173	CML 51	2.0	R	1.5	3.5	1.0	2.0	1.0-3.5	R
174	CML 55BB	3.0	MR	2.0	5.0	3.0	3.3	2.0-5.0	MS
175	CM 108	3.0	MR	2.0	4.0	4.0	3.3	2.0-4.0	MS
176	CML 202	1.5	R	2.0	5.0	3.0	3.3	2.0-5.0	MS
177	CML 207	2.5	MR	1.5	5.0	2.0	2.8	1.5-5.0	MR
178	CML 208BBB	3.5	MS	2.0	3.5	2.0	2.5	2.0-3.5	MR
179	CML 218BBB	2.5	MR	2.0	3.0	2.0	2.3	2.0-3.0	MR
180	CML 24	3.0	MR	1.5	5.0	2.0	2.8	1.5-5.0	MR
181	CML 248	3.0	MR	1.5	4.0	3.0	2.8	1.5-4.0	MR
182	CML 269	2.0	R	2.0	4.0	2.0	2.7	2.0-4.0	MR
183	CML 271BBB	2.0	R	2.5	4.0	2.0	2.8	2.0-4.0	MR
184	CML 278	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
185	CML 279	2.5	MR	2.0	3.5	3.0	2.8	2.0-3.5	MR
186	CML 322	2.5	MR	1.5	3.0	2.0	2.2	1.5-3.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
187	CML 37	3.5	MS	2.0	4.5	2.0	2.8	2.0-4.5	MR
188	CML 446BBB	2.0	R	3.0	3.5	3.0	3.2	3.0-3.5	MS
189	HKI 1128-C	NG	-	2.5	4.0	1.0	2.5	1.0-4.0	MR
190	LM13 (R)-C	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
191	UMI 1210-C	2.0	R	3.0	3.0	1.0	2.3	1.0-3.0	MR
192	CM111 (S)-C	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
193	CML 484BBB	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
194	CML 189BBB	2.5	MR	3.0	3.5	3.0	3.2	3.0-3.5	MS
195	CML 195	2.5	MR	2.5	4.0	4.0	3.5	2.5-4.0	MS
196	CML 384	2.0	R	2.5	4.0	3.0	3.2	2.5-4.0	MS
197	CML 406	2.5	MR	2.0	5.0	3.0	3.3	2.0-5.0	MS
198	CML 493BBB	2.5	MR	2.5	5.0	4.0	3.8	2.5-5.0	MS
199	CML 542 W	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
200	CML 548 W	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
201	CML 549 W	2.5	MR	2.0	3.0	1.0	2.0	1.0-3.0	R
202	CML 550 W	2.0	R	2.0	4.5	3.0	3.2	2.0-4.5	MS
203	CML 551 Y	2.5	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
204	CML 554 W	2.0	R	2.0	4.0	3.0	3.0	2.0-4..0	MR
205	CML 556 W	2.0	R	1.5	5.0	2.0	2.8	1.5-5.0	MR
206	CML 557 W	2.0	R	1.5	4.5	2.0	2.7	1.5-4.5	MR
207	CML 559 W	2.5	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
208	CML 142 X 150	2.0	R	2.5	4.0	3.0	3.2	2.5-4.0	MS
209	CML 163	2.5	MR	2.5	4.0	4.0	3.5	2.5-4.0	MS
210	CML 176	2.0	R	2.0	5.0	3.0	3.3	2.0-5.0	MS
211	CML 186	3.0	MR	2.5	5.0	2.0	3.2	2.0-5.0	MS
212	Bajim-08-27	2.5	MR	2.5	5.0	2.0	3.2	2.0-5.0	MS
213	HKI 1128-C	NG	-	2.5	4.0	3.0	3.2	2.5-4.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
214	LM13 (R)-C	NG	-	1.5	3.0	2.0	2.2	1.5-3.0	MR
215	UMI 1210-C	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
216	CM111 (S)-C	3.0	MR	2.0	3.0	1.0	2.0	1.0-3.0	R
217	LM 5	2.5	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
218	LM 11	2.0	R	2.0	4.5	3.0	3.2	2.0-4.5	MS
219	LM 14	2.5	MR	1.5	3.0	2.0	2.2	1.5-3.0	MR
220	LM 16	2.0	R	2.0	5.0	5.0	4.0	2.0-5.0	MS
221	LM 17	3.5	MS	2.0	5.0	4.0	3.7	2.0-5.0	MS
222	LM 18	2.5	MR	2.5	5.0	4.0	3.8	2.5-5.0	MS
223	LM 19	3.0	MR	2.5	5.0	2.0	3.2	2.0-5.0	MS
224	HKI 193-1	4.0	MS	3.0	3.0	2.0	2.7	2.0-3.0	MR
225	HKI 193-2	3.5	MS	2.5	3.0	2.0	2.5	2.0-3.0	MR
226	HKI 323	3.5	MS	2.5	3.0	3.5	3.0	2.5-3.5	MR
227	HKI 488-1RG	4.0	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
228	HKI 1344	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
229	HKI 1348-6-2	3.5	MS	2.0	4.5	2.0	2.8	2.0-4.5	MR
230	HKI 1352	3.5	MS	2.0	4.0	2.0	2.7	2.0-4.0	MR
231	HKI 1378	4.0	MS	2.0	4.0	2.0	2.7	2.0-4.0	MR
232	MAI-105	2.5	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
233	MAI-197	4.0	MS	1.5	4.0	3.0	2.8	1.5-4.0	MR
234	CML 170	4.0	MS	2.0	4.0	3.0	3.0	2.0-4.0	MR
235	CML 175	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
236	CML180	4.0	MS	2.0	3.0	3.0	2.7	2.0-3.0	MR
237	HKI 1128-C	NG	-	2.5	4.0	3.0	3.2	2.5-4.0	MS
238	LM13 (R)-C	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
239	UMI 1210-C	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
240	CM111 (S)-C	3.5	MS	2.0	3.0	2.0	2.3	2.0-3.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
241	CML 319	4.0	MS	2.0	4.0	3.0	3.0	2.0-4.0	MR
242	CML 336	3.0	MR	2.0	5.0	4.0	3.7	2.0-5.0	MS
243	DMRQPM 121	4.0	MS	3.0	5.0	5.0	4.3	3.0-5.0	S
244	HKI 1105	4.5	S	2.5	4.0	5.0	3.8	2.5-5.0	MS
245	WX 484	2.5	MR	2.0	4.5	4.0	3.5	2.0-4.5	MS
246	ESM 113	4.5	S	2.5	5.0	4.0	3.8	2.5-5.0	MS
247	HKI 4C4B	2.0	R	2.5	5.0	2.0	3.2	2.0-5.0	MS
248	IML12-2	2.5	MR	2.0	4.5	2.0	2.8	2.0-4.5	MR
249	IML12-9	2.0	R	2.0	4.0	2.0	2.7	2.0-4.0	MR
250	IML12-10	2.0	R	2.0	3.0	3.0	2.7	2.0-3.0	MR
251	IML12-14	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
252	IML12-22	2.0	R	1.5	3.5	3.0	2.7	1.5-3.5	MR
253	IML12-52	1.5	R	2.0	4.0	3.0	3.0	2.0-4.0	MR
254	IML12-55	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
255	IML12-74	2.5	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR
256	IML12-116	2.0	R	1.5	4.0	2.0	2.5	1.5-4.0	MR
257	IML12-133	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
258	IML12-135	1.5	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
259	IML12-143	2.5	MR	1.5	4.0	2.0	2.5	1.5-4.0	MR
260	IML12-161	3.0	MR	1.5	4.0	3.0	2.8	1.5-4.0	MR
261	HKI 1128-C	NG	-	3.0	3.5	3.0	3.2	3.0-3.5	MS
262	LM13 (R)-C	2.0	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
263	UMI 1210-C	1.5	R	2.0	3.0	2.0	2.3	2.0-3.0	MR
264	CM111 (S)-C	3.0	MR	2.5	3.0	2.5	2.7	2.5-3.0	MR
265	IML 12-166	2.5	MR	2.0	5.0	2.5	3.2	2.0-5.0	MS
266	IML12-170	2.5	MR	2.0	5.0	2.0	3.0	2.0-5.0	MR
267	IML12-180	1.5	R	2.0	4.0	3.0	3.0	2.0-4.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
268	IML12-193	2.0	R	2.0	4.0	3.0	3.0	2.0-4.0	MR
269	IML12-195	2.5	MR	2.0	5.0	2.0	3.0	2.0-5.0	MR
270	IML12-212	2.0	R	2.5	4.5	1.0	2.7	1.0-4.5	MR
271	IML 12-213	3.0	MR	2.0	5.0	2.5	3.2	2.0-5.0	MS
272	IML12-215	2.5	MR	2.0	4.5	3.0	3.2	2.0-4.5	MS
273	IML12-218	2.0	R	2.0	4.5	4.0	3.5	2.0-4.5	MS
274	IML12-220	2.5	MR	2.0	4.0	2.5	2.8	2.0-4.0	MR
275	IML12-221	2.0	R	2.0	4.0	2.5	2.8	2.0-4.0	MR
276	IML13-15	2.0	R	2.0	5.0	4.0	3.7	2.0-5.0	MS
277	IML13-17	2.0	R	2.0	3.5	4.0	3.2	2.0-4.0	MS
278	IML13-22	3.0	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
279	IML13-23	2.0	R	2.5	3.0	3.0	2.8	2.5-3.0	MR
280	IML13-46	2.0	R	2.0	4.5	3.0	3.2	2.0-4.5	MS
281	IML13-62	3.5	MS	2.5	4.0	2.0	2.8	2.0-4.0	MR
282	IML 13-84	2.5	MR	2.0	5.0	2.5	3.2	2.0-5.0	MS
283	IML15-2	3.0	MR	1.5	4.5	3.5	3.2	1.5-4.5	MS
284	IML15-7	2.0	R	2.0	5.0	2.0	3.0	2.0-5.0	MR
285	HKI 1128-C	NG	-	2.0	4.0	2.0	2.7	2.0-4.0	MR
286	LM13 (R)-C	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
287	UMI 1210-C	2.0	R	2.0	3.5	2.0	2.5	2.0-3.5	MR
288	CM111 (S)-C	4.0	MS	2.0	3.5	3.0	2.8	2.0-3.5	MR
289	IML15-10	2.0	R	2.0	3.0	3.0	2.7	2.0-3.0	MR
290	IML15-48	2.5	MR	2.5	4.0	3.0	3.2	2.5-4.0	MS
291	IML15-56	2.0	R	2.0	3.5	3.0	2.8	2.0-3.5	MR
292	IML15-60	3.0	MR	2.5	4.5	2.0	3.0	2.0-4.5	MR
293	IML 15-65	2.0	R	2.5	4.5	2.0	3.0	2.0-4.5	MR
294	IML15-243	3.5	MS	2.5	5.0	3.0	3.5	2.5-5.0	MS

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
295	IML15-69	4.0	MS	2.5	5.0	3.0	3.5	2.5-5.0	MS
296	IML15-97	4.0	MS	2.5	3.5	3.0	3.0	2.5-3.5	MR
297	IML15-112	2.5	MR	2.5	4.0	2.0	2.8	2.0-4.0	MR
298	IML15-113	3.0	MR	2.5	3.5	2.0	2.7	2.0-3.5	MR
299	IML15-131	2.5	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
300	IML15-186	4.0	MS	2.0	4.0	4.0	3.3	2.0-4.0	MS
301	IML15-202	4.5	MS	3.0	3.0	2.0	2.7	2.0-3.0	MR
302	IML15-244	3.5	MS	2.5	3.0	2.0	2.5	2.0-3.0	MR
303	IML15-268	4.0	MS	2.0	5.0	4.0	3.7	2.0-5.0	MS
304	IML15-269	3.5	MS	2.5	5.0	3.0	3.5	2.5-5.0	MS
305	IML15-280	2.5	MR	2.5	4.0	3.0	3.2	2.5-4.0	MS
306	IML15-288	2.0	R	2.5	4.0	2.0	2.8	2.0-4.0	MR
307	IML15-299	3.5	MS	2.0	3.5	3.0	2.8	2.0-3.5	MR
308	IML16-4	4.0	MS	2.0	3.0	4.0	3.0	2.0-4.0	MR
309	HKI 1128-C	NG	-	2.0	4.0	2.0	2.7	2.0-4.0	MR
310	LM13 (R)-C	3.0	MR	2.0	3.5	2.0	2.5	2.0-3.5	MR
311	UMI 1210-C	2.5	MR	2.0	3.0	2.0	2.3	2.0-3.0	MR
312	CM111 (S)-C	3.5	MS	2.0	3.5	2.0	2.5	2.0-3.5	MR
313	IML16-6	3.0	MR	2.0	5.0	3.0	3.3	2.0-5.0	MS
314	IML16-14	3.5	MS	2.0	3.5	3.0	2.8	2.0-3.5	MR
315	IML16-17	3.5	MS	1.5	3.0	2.0	2.2	1.5-3.0	MR
316	IML16-25	3.5	MS	2.5	3.0	3.0	2.8	2.5-3.0	MR
317	IML16-27	4.5	S	2.0	4.0	3.0	3.0	2.0-4.0	MR
318	IML16-28	3.5	MS	2.0	5.0	3.0	3.3	2.0-5.0	MS
319	IML 16-98	2.5	MR	2.5	3.0	2.5	2.7	2.5-3.0	MR
320	IML16-134	4.5	S	2.5	4.0	2.0	2.8	2.0-4.0	MR
321	IML16-143	3.0	MR	2.0	4.0	2.0	2.7	2.0-4.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
322	IML16-108	2.0	R	2.0	3.5	3.0	2.8	2.0-3.5	MR
323	IML16-146	NG	-	2.0	3.5	2.0	2.5	2.0-3.5	MR
324	IML16-157	2.5	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
325	IML16-162	2.0	R	1.5	3.0	3.0	2.5	1.5-3.0	MR
326	IML16-183	3.5	MS	2.0	3.5	2.0	2.5	2.0-3.5	MR
327	IML16-185	4.5	S	2.0	4.0	2.0	2.7	2.0-4.0	MR
328	IML16-188	2.5	MR	2.5	3.5	2.0	2.7	2.0-3.5	MR
329	IML16-193	4.0	MS	2.0	4.0	4.0	3.3	2.0-4.0	MS
330	IML16-194	3.0	MR	2.0	4.0	3.0	3.0	2.0-4.0	MR
331	IML16-205	3.5	MS	2.0	3.0	2.0	2.3	2.0-3.0	MR
332	IML 16-208	4.0	MS	2.0	3.0	3.5	2.8	2.0-3.5	MR
333	HKI 1128-C	NG	-	2.0	3.5	2.0	2.5	2.0-3.5	MR
334	LM13 (R)-C	3.0	MR	1.5	3.0	2.0	2.2	1.5-3.0	MR
335	UMI 1210-C	NG	-	2.0	3.0	2.0	2.3	2.0-3.0	MR
336	CM111 (S)-C	3.0	MR	2.5	3.5	2.0	2.7	2.0-3.5	MR
337	IML16-210	3.5	MS	3.5	3.5	4.0	3.7	3.5-4.0	MS
338	IML16-220	4.0	MS	2.5	3.5	2.0	2.7	2.0-3.5	MR
339	IML16-230	2.5	MR	3.0	3.0	3.0	3.0	3.0-3.0	MR
340	IML16-231	2.5	MR	3.0	4.0	2.0	3.0	2.0-4.0	MR
341	IML16-237	4.0	MS	2.0	4.5	2.0	2.8	2.0-4.5	MR
342	IML16-238	3.0	MR	1.5	4.5	3.0	3.0	1.5-4.5	MR
343	IML16-254	3.0	MR	2.5	5.0	3.0	3.5	2.5-5.0	MS
344	IML16-269	4.0	MS	3.5	4.0	2.0	3.2	2.0-4.0	MS
345	IML16-279	4.0	MS	3.0	3.5	2.0	2.8	2.0-3.5	MR
346	IML16-282	3.5	MS	2.5	3.0	2.0	2.5	2.0-3.0	MR
347	DML-187-2	3.5	MS	2.0	5.0	4.0	3.7	2.0-5.0	MS
348	DML-313	1.5	R	2.0	4.0	2.0	2.7	2.0-4.0	MR

Contd.

Table-20

		MLB (1-5)		TLB (1-5)					
S.No.	**Genotypes**	**LUDH**	**Reaction**	**BAJA**	**MAND**	**DHAR**	**Av.Score**	**Range**	**Reaction**
349	DML-187-1	3.0	MR	3.0	4.5	4.0	3.8	3.0-4.5	MS
350	DML-106	2.5	MR	2.5	5.0	4.0	3.8	2.5-5.0	MS
351	DML-106-1	4.0	MS	2.0	4.5	3.0	3.2	2.0-4.5	MS
352	DML-165	4.0	MS	2.0	4.0	2.0	2.7	2.0-4.0	MR
353	HKI 1128-C	NG	-	2.0	4.0	2.0	2.7	2.0-4.0	MR
354	LM13 (R)-C	3.0	MR	2.5	3.0	1.0	2.2	1.0-3.0	MR
355	UMI 1210-C	3.0	MR	2.0	3.0	2.0	2.3	2.0-3.0	MR
356	CM111 (S)-C	3.5	MS	2.0	3.5	2.0	2.5	2.0-3.5	MR
357	Res. Check	1.5	R	-	2.0	2.0	2.0	2.0-2.0	R
358	Sus. Check	4.0	MS	-	5.0	5.0	5.0	5.0-5.0	S

Resistnat Check : MLB:-CM 123 **(LUDHINAN), TLB** CM202 **(BAJAURA),** NITYASHREE **(MANDYA);** CI 4 **(DHARWAD)**

Susceptible Check : MLB:- CM600 **(LUDHIANA); TLB:-** CM 202 **(DHARWAD);** CM 202 **(MANDYA)**

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
1	BML 7	4.0	1.8	6.3	4.0	1.8-6.3	MR	1.0	R	1.5	MR
2	BML-45	3.8	1.2	5.9	3.6	1.2-5.9	MR	1.0	R	2.0	MR
3	BRASIL-117	4.4	2.6	4.9	3.9	2.6-4.9	MR	4.0	S	5.0	HS
4	CML 292	6.3	1.8	6.9	5.0	1.8-6.9	MR	2.0	MR	2.5	MS
5	DML-1	4.6	2.5	4.5	3.9	2.5-4.6	MR	3.0	MS	2.0	MR
6	DML-104	5.0	5.4	6.5	5.6	5.0-6.5	MS	1.0	R	4.0	S
7	DML-112	7.5	3.8	5.3	5.5	3.8-7.5	MS	2.0	MR	4.5	HS
8	DML-119	6.0	3.8	7.0	5.6	3.8-7.0	MS	1.0	R	3.0	MS
9	DML-127	3.8	2.1	7.0	4.3	2.1-7.0	MR	1.0	R	2.5	MS
10	DML-128	3.8	1.3	5.7	3.6	1.3-5.7	MR	4.0	S	2.0	MR
11	DML-134B	5.4	3.1	6.3	5.0	3.1-6.3	MR	2.0	MR	2.0	MR
12	DML-16	4.2	1.5	4.5	3.4	1.5-4.5	MR	3.0	MS	2.5	MS
13	DML-16-2	3.8	1.5	5.5	3.6	1.5-5.5	MR	3.0	MS	1.5	MR
14	DML-163-1	4.0	3.4	6.6	4.7	3.4-6.6	MR	2.5	MS	3.0	MS
15	DML-170	3.5	1.6	6.6	3.9	1.6-6.6	MR	2.0	MR	2.5	MS
16	DML-18-1	4.2	1.4	7.0	4.2	1.4-7.0	MR	1.0	R	3.0	MS
17	DML-181	4.3	2.2	6.4	4.3	2.2-6.4	MR	3.0	MS	1.5	MR
18	DML-19	7.2	3.5	7.1	5.9	3.5-7.2	MS	1.0	R	2.0	MR
19	DML-193	5.8	1.1	5.8	4.2	1.15.8	MR	1.0	R	2.5	MS
20	DML-194	3.4	1.1	NG	2.3	1.1-3.4	R	1.0	R	3.0	MS
21	HKI 1128-C	NG	-	5.9	5.9	5.9-5.9	MS	1.0	R	3.5	S
22	LM13 (R)-C	4.8	1.5	4.6	3.6	1.5-4.8	MR	1.0	R	1.5	MR
23	UMI 1210-C	4.3	2.5	6.0	4.3	2.5-6.0	MR	4.0	S	2.0	MR
24	CM111 (S)-C	4.0	2.3	5.8	4.0	2.3-5.8	MR	2.0	MR	2.5	MS
25	DML-196	4.4	2.7	7.4	4.8	2.7-7.4	MR	2.0	MR	2.5	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
26	DML-212A	5.5	2.3	7.0	4.9	2.3-7.0	MR	1.0	R	2.0	MR
27	DML-221	7.5	3.3	7.0	5.9	3.3-7.5	MS	1.0	R	4.5	HS
28	DML-241-1	3.8	5.0	6.3	5.0	3.8-6.3	MR	1.0	R	5.0	HS
29	DML-242	3.5	1.4	6.2	3.7	1.4-6.2	MR	1.0	R	4.0	HS
30	DML-26-2	5.0	2.8	8.5	5.4	2.8-8.5	MS	1.0	R	1.5	MR
31	DML-269	7.6	1.1	6.8	5.2	1.1-7.6	MS	1.0	R	2.5	MS
32	DML-27-1	NG	2.1	7.7	4.9	2.1-7.7	MR	1.0	R	4.5	HS
33	DML-310	4.8	1.0	6.0	3.9	1.0-6.0	MR	1.0	R	4.0	S
34	DML-346	6.4	1.7	6.6	4.9	1.7-6.6	MR	1.0	R	1.5	MR
35	DML-37-1	4.0	1.3	5.7	3.7	1.3-5.7	MR	3.0	MS	2.5	MS
36	DML-416	5.0	1.9	7.0	4.6	1.9-7.0	MR	1.0	R	3.0	MS
37	DML-49-1	5.4	5.1	7.1	5.9	5.1-7.1	MS	1.0	R	3.5	S
38	DMRPE-6-4-B	7.2	1.9	6.4	5.2	1.9-7.2	MS	4.0	S	2.0	MR
39	DQL-1017-2	5.6	1.1	6.2	4.3	1.1-6.2	MR	4.0	S	3.5	S
40	DQL-1001	8.0	3.1	5.8	5.6	3.1-8.0	MS	2.0	MR	1.5	MR
41	DQL 1005	8.0	3.5	6.0	5.8	3.5-8.0	MS	3.0	MS	2.0	MR
42	HKI 42050	5.0	1.7	6.2	4.3	1.7-6.2	MR	2.0	MR	2.5	MS
43	UMI 1200	3.8	3.8	6.7	4.8	3.8-6.7	MR	4.0	S	2.0	MR
44	UMI 1201	3.0	1.2	6.7	3.6	1.2-6.7	MR	2.0	MR	1.5	MR
45	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	3.0	MS
46	LM13 (R)-C	3.0	1.3	5.8	3.3	1.3-5.8	MR	2.0	MR	2.5	MS
47	UMI 1210-C	3.0	1.2	6.0	3.4	1.2-6.0	MR	3.0	MR	1.5	MR
48	CM111 (S)-C	4.0	1.3	6.8	4.0	1.3-6.8	MR	2.0	MR	2.5	MS
49	UMI 1230	NG	1.0	6.0	3.5	1.0-6.0	MR	2.0	MR	2.0	MR
50	V-373	6.7	1.7	7.3	5.2	1.7-7.3	MS	2.0	MR	2.5	MS
51	DQL-653-5-1	5.3	6.3	6.8	6.2	5.3-6.8	MS	2.0	MR	2.5	MS
52	DQL-653-2-4	6.0	1.8	7.3	5.0	1.8-7.3	MR	1.0	R	3.0	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
53	DQL-779-1	6.5	1.4	5.8	4.6	1.4-6.5	MR	2.0	MR	3.5	S
54	DQL-594 (Spiral)-3	NG	2.6	6.7	4.7	2.6-6.7	MR	1.0	R	2.5	MS
55	DQL-609(dark purple)-1-3	7.0	2.2	7.2	5.5	2.2-7.2	MS	4.0	S	2.0	MR
56	DQL-610-12-4	7.0	3.5	6.8	5.8	3.5-7.0	MS	4.0	S	2.0	MR
57	DQL-611-4-2	6.3	2.5	6.6	5.1	2.5-6.6	MS	1.0	R	2.0	MR
58	DQL-614-5-4	3.6	1.2	5.8	3.6	1.2-5.8	MR	1.0	R	4.0	S
59	DQL-614-2-3	4.6	3.2	6.0	4.6	3.2-6.0	MR	3.0	MS	2.5	MS
60	DQL-780-2	6.0	1.4	7.3	4.9	1.4-7.3	MR	1.0	R	2.0	MR
61	DQL-620-2-1	8.0	2.5	7.3	5.9	2.5-8.0	MS	2.5	MS	2.0	MR
62	DQL-781-2	4.2	2.4	6.5	4.4	2.4-6.5	MR	2.0	MR	1.5	MR
63	DQL-621-1-1A	6.8	3.0	6.8	5.5	3.0-6.8	MS	1.0	R	3.0	MS
64	DQL-621 (Seg)-4-10	7.6	3.5	6.3	5.8	3.5-7.6	MS	2.0	MR	2.5	MS
65	DQL-621 (Seg)-9-1	5.4	1.7	3.9	3.6	1.7-5.4	MR	1.0	R	2.0	MR
66	DQL-506-12-2	7.7	3.0	6.6	5.8	3.0-7.7	MS	3.0	MS	3.0	MS
67	DQL-506-1	8.8	2.3	6.8	5.9	2.3-8.8	MS	1.0	R	2.0	MR
68	DQL-297-1-3	3.4	1.4	6.8	3.9	1.4-6.8	MR	1.0	R	3.5	S
69	HKI 1128-C	5.0	NG	NG	5.0	5.0-5.0	MR	1.0	R	2.5	MS
70	LM13 (R)-C	4.0	1.6	4.8	3.5	1.6-4.8	MR	1.0	R	2.0	MR
71	UMI 1210-C	3.3	2.3	3.5	3.1	2.3-3.5	MR	1.0	R	2.5	MS
72	CM111 (S)-C	4.0	3.8	7.0	4.9	3.8-7.0	MR	1.0	R	3.0	MS
73	DQL-299-1-1	3.7	3.3	7.0	4.7	3.3-7.0	MR	1.0	R	2.5	MS
74	DQL-621 (Seg)-16-5	5.3	2.0	6.7	4.6	2.0-6.7	MR	1.0	R	2.0	MR
75	DQL-295-1-1	5.0	1.6	6.2	4.3	1.6-6.2	MR	1.0	R	2.0	MR
76	DQL-565 (V)-5-2 (Orange)	6.0	4.3	7.4	5.9	4.3-7.4	MS	1.0	R	2.5	MS
77	DQL-626 (ORANGE)-2-3	5.2	2.0	6.7	4.6	2.0-6.7	MR	1.0	R	2.5	MS
78	DQL-291-4	5.4	2.5	6.7	4.9	2.5-6.7	MR	1.0	R	3.0	MS
79	DQL-565 (V)-6-2 (Orange)	6.0	1.6	7.0	4.9	1.6-7.0	MR	1.0	R	3.0	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
80	CLQRCYQ-107	8.3	1.8	6.3	5.5	1.8-8.3	MS	3.0	MS	2.5	MS
81	DQL-621(SEG)-1-7	7.0	2.8	6.8	5.5	2.8-7.0	MS	1.0	R	2.0	MR
82	DQL-630-(ORANGE)-3-6	5.8	1.4	6.3	4.5	1.4-6.3	MR	3.0	MS	3.5	S
83	DQL-659(YELLOW)-1-2	3.8	2.9	7.3	4.7	2.9-7.3	MR	3.0	MS	5.0	HS
84	DQL-669-13-3	5.8	1.8	6.2	4.6	1.8-6.2	MR	1.0	R	2.0	MR
85	DQL-676-16-3	3.6	2.8	6.0	4.1	2.8-6.0	MR	3.0	MS	2.0	MR
86	DMRQPM-03-102	4.0	2.0	6.8	4.3	2.0-6.8	MR	1.0	R	3.5	S
87	DMRQPM-103	7.4	2.3	6.2	5.3	2.6-7.4	MS	1.0	R	4.5	HS
88	DQL-769(YELLOW)-6-3	4.0	2.2	6.4	4.2	2.2-6.4	MR	2.0	MR	4.5	HS
89	DMRQPM-58	6.0	1.6	6.4	4.7	1.6-6.4	MR	2.0	MR	2.0	MR
90	DQL-641-4-2	5.0	2.2	6.4	4.5	2.2-6.4	MR	1.0	R	1.5	MR
91	DQL-685(Orange)-13-1	7.0	2.0	5.8	4.9	2.0-7.0	MR	1.0	R	2.5	MS
92	DQL-716(Y)-1-3	5.2	1.7	5.3	4.1	1.7-5.3	MR	1.0	R	1.5	MR
93	HKI 1128-C	NG	-	6.0	6.0	6.0-6.0	MS	1.0	R	2.5	MS
94	LM13 (R)-C	4.2	1.7	4.9	3.6	1.7-4.9	MR	2.0	MR	2.0	MR
95	UMI 1210-C	4.0	6.0	6.8	5.6	4.0-6.8	MS	3.0	MS	1.5	MR
96	CM111 (S)-C	5.5	2.0	6.9	4.8	2.0-6.9	MR	1.0	R	2.5	MS
97	DQL-720-10-5	6.4	1.9	6.8	5.0	1.9-6.8	MR	2.0	MR	2.5	MS
98	DQL-574-2	5.5	2.5	6.6	4.9	2.5-6.6	MR	2.0	MR	4.0	S
99	DQL-593-3	4.6	2.4	6.4	4.5	2.4-6.4	MR	2.0	MR	4.0	S
100	DQL-609(WG)-1-4	5.6	2.4	6.8	5.0	2.4-6.8	MR	2.0	MR	2.5	MS
101	DQL-593-4	3.5	4.5	7.0	5.0	3.5-7.0	MR	1.0	R	3.0	MS
102	DQL-784(O)-4-1	6.0	2.5	5.1	4.5	2.5-6.0	MR	1.0	R	4.5	HS
103	DQL-602-2	3.4	2.8	7.1	4.4	2.8-7.1	MR	1.0	R	2.5	MS
104	DQL-785(seg)-1-1	5.4	3.7	6.2	5.1	3.7-6.2	MS	2.0	MR	3.5	MS
105	DQL-609-5	3.3	4.6	7.0	5.0	3.3-7.0	MR	1.0	R	2.5	MS
106	DQL-785(seg)-1-8	7.5	1.8	6.7	5.3	1.8-7.5	MS	1.0	R	2.0	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
107	DQL-614-6	6.3	1.7	6.0	4.7	1.0-6.3	MR	4.0	S	2.5	MS
108	DQL-790(PG)-2-4	4.0	1.8	6.9	4.2	1.8-6.9	MR	5.0	HS	1.5	MR
109	DQL-74-1-4B	8.0	1.7	6.4	5.4	1.7-8.0	MS	2.0	MR	2.5	MS
110	DQL-653-3-1	6.0	2.8	5.2	4.7	2.8-6.0	MR	1.0	R	3.0	MS
111	DQL-633-1-1	8.0	2.7	7.0	5.9	2.7-8.0	MS	5.0	HS	2.5	MS
112	CM 120	5.0	1.5	6.6	4.4	1.5-6.6	MR	2.0	MR	2.0	MR
113	CM 125	4.0	1.4	5.6	3.6	1.4-5.6	MR	2.0	MR	2.5	MS
114	CM 133	NG	1.8	6.2	4.0	1.8-6.2	MR	2.0	MR	1.5	MR
115	CM 135	6.0	2.8	6.8	5.2	2.8-6.8	MS	2.0	MR	2.0	MR
116	CM 138	8.5	2.4	7.4	6.1	2.4-8.5	MS	2.0	MR	1.5	MR
117	HKI 1128-C	NG	-	7.3	7.3	7.3-7.3	S	1.0	R	3.0	MS
118	LM13 (R)-C	3.5	1.3	5.7	3.5	1.3-5.7	MR	3.0	MS	3.5	MS
119	UMI 1210-C	3.0	1.6	NG	2.3	1.6-3.0	R	3.0	MS	2.0	MR
120	CM111 (S)-C	3.8	1.4	6.3	3.8	1.4-6.3	MR	1.0	R	4.0	S
121	CM 140	4.3	2.3	7.5	4.7	2.3-7.5	MR	3.0	MS	2.0	MR
122	CM 145	4.2	2.3	6.4	4.3	2.3-6.4	MR	2.0	MR	3.0	MS
123	CM 149	4.0	-	6.0	5.0	4.0-6.0	MR	1.0	R	2.0	MR
124	CM202XE57	4.8	-	7.6	6.2	4.8-7.6	MS	1.0	R	1.5	MR
125	CM 207	3.8	1.7	6.8	4.1	1.7-6.8	MR	1.0	R	3.5	S
126	CM 210	6.0	2.2	7.1	5.1	2.2-7.1	MS	1.0	R	2.5	MS
127	CM 212	5.8	2.7	7.5	5.3	2.7-7.5	MS	1.0	R	1.5	MR
128	CM 213	3.4	1.2	6.0	3.5	1.2-6.0	MR	1.0	R	2.0	MR
129	CM 400	4.0	1.5	7.8	4.4	1.5-7.8	MR	1.0	R	2.5	MS
130	CML 111	4.5	1.9	6.5	4.3	1.9-6.5	MR	1.0	R	3.0	MS
131	CML 112BBB	4.8	1.8	6.1	4.2	1.8-6.1	MR	3.0	MS	2.5	MS
132	CML 114	5.3	1.4	7.6	4.8	1.4-7.6	MR	3.0	MS	1.5	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
133	CML 117-3-4	3.2	1.1	6.1	3.5	1.1-6.1	MR	2.0	M	2.0	MR
134	CML 12	7.8	1.3	7.7	5.6	1.3-7.8	MS	1.0	R	2.5	MS
135	CML 121	5.3	1.7	6.9	4.6	1.7-6.9	MR	3.0	MS	3.0	MS
136	CML 141	7.5	1.4	6.0	5.0	1.4-7.5	MR	1.0	R	2.5	MS
137	CML 162	4.4	1.4	6.3	4.0	1.4-6.3	MR	1.0	R	3.0	MS
138	CML 171	6.8	3.8	6.8	5.8	3.8-6.8	MS	3.0	MS	2.5	MS
139	CML 172	5.0	4.0	7.3	5.4	4.0-7.3	MS	1.0	R	2.0	MR
140	CML 22	4.2	5.0	6.9	5.4	4.2-6.9	MS	1.0	R	1.5	MR
141	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.0	MR
142	LM13 (R)-C	3.6	1.3	5.0	3.3	1.3-5.0	MR	3.0	MS	2.0	MR
143	UMI 1210-C	4.3	2.5	4.0	3.6	2.5-4.3	MR	2.0	MR	3.0	MS
144	CM111 (S)-C	4.6	1.3	5.5	3.8	1.3-5.5	MR	1.0	R	2.0	MR
145	CML 220	7.3	5.1	7.0	6.5	5.1-7.3	MS	4.0	S	3.0	MS
146	CML 227	4.4	4.2	6.6	5.1	4.2-6.6	MS	1.0	R	3.5	S
147	CML 23	6.2	1.9	6.5	4.9	1.9-6.5	MR	1.0	R	2.5	MS
148	CML 27	4.8	2.0	6.6	4.5	2.0-6.6	MR	1.0	R	3.5	S
149	CML 282	5.7	1.5	6.9	4.7	1.5-6.9	MR	1.0	R	4.0	S
150	CML 29	3.2	1.4	7.3	4.0	1.4-7.3	MR	1.0	R	2.0	MR
151	CML 295BBB	4.6	2.7	7.0	4.8	2.7-7.0	MR	1.0	R	3.5	S
152	CML 304	3.2	2.4	6.8	4.1	2.4-6.8	MR	1.0	R	2.5	MS
153	CML 312	4.0	2.4	6.3	4.2	2.4-6.3	MR	1.0	R	3.0	MS
154	CML 317	3.8	2.3	6.3	4.1	2.3-6.3	MR	3.0	MS	2.0	MR
155	CML 321	5.3	3.3	6.8	5.1	3.3-6.8	MS	2.0	MR	1.5	MR
156	CML 327	3.8	1.8	6.8	4.1	1.8-6.8	MR	1.0	R	2.5	MS
157	CML 334	4.0	1.1	5.5	3.6	1.1-5.5	MR	3.0	MS	3.0	MS
158	CML 395	4.0	2.4	6.8	4.4	2.4-6.8	MR	2.0	MR	3.5	S
159	CML 408	7.0	2.3	6.9	5.4	2.3-7.0	MS	1.0	R	2.0	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
160	CML 409	6.2	1.5	6.4	4.7	1.5-6.4	MR	2.0	MR	1.5	MR
161	CML 40BBB	6.0	1.4	7.0	4.8	1.4-7.0	MR	2.0	MR	2.5	MS
162	CML 420	6.8	2.1	6.4	5.1	2.1-6.8	MS	1.0	R	3.0	MS
163	CML 422	4.6	3.0	6.8	4.8	3.0-6.8	MR	1.0	R	3.5	S
164	CML 435	4.2	2.3	6.3	4.3	2.3-6.3	MR	1.0	R	3.0	MS
165	HKI 1128-C	NG	1.9	5.0	3.5	1.9-5.0	MR	1.0	R	2.0	MR
166	LM13 (R)-C	3.8	-	5.8	4.8	3.8-5.8	MR	1.0	R	2.5	MS
167	UMI 1210-C	8.5	1.4	6.5	5.5	1.4-8.5	MS	2.0	MR	2.0	MR
168	CM111 (S)-C	4.5	2.0	7.4	4.6	2.0-7.4	MR	1.0	R	2.5	MS
169	CML 44	5.3	1.4	6.4	4.4	1.4-6.4	MR	1.0	R	2.0	MR
170	CML 451XE62	4.0	1.3	6.6	4.0	1.3-6.6	MR	2.0	MR	2.5	MS
171	CML 452	3.6	1.6	6.7	4.0	1.6-6.7	MR	1.0	R	2.0	MR
172	CML 494	3.6	2.4	4.8	3.6	2.4-4.8	MR	3.0	MS	2.0	MR
173	CML 51	4.0	1.6	6.7	4.1	1.6-6.7	MR	1.0	R	2.5	MS
174	CML 55BB	7.0	1.7	6.4	5.0	1.7-7.0	MR	1.0	R	3.5	S
175	CM 108	5.0	2.2	7.5	4.9	2.2-7.5	MR	1.0	R	3.0	MS
176	CML 202	3.8	2.8	6.4	4.3	2.8-6.4	MR	1.0	R	3.5	S
177	CML 207	6.2	2.0	6.2	4.8	2.0-6.2	MR	1.0	R	2.0	MR
178	CML 208BBB	4.8	3.8	6.4	5.0	3.8-6.4	MR	1.0	R	2.5	MS
179	CML 218BBB	4.6	1.1	6.6	4.1	1.1-6.6	MR	3.0	MS	2.5	MS
180	CML 24	3.5	1.9	7.1	4.2	1.9-7.1	MR	2.0	MR	3.0	MS
181	CML 248	7.5	4.4	7.0	6.3	4.4-7.5	S	1.0	R	2.0	MR
182	CML 269	3.2	1.1	5.6	3.3	1.1-5.6	MR	2.0	MR	2.5	MS
183	CML 271BBB	8.0	1.4	5.9	5.1	1.4-8.0	MS	1.0	R	3.0	MS
184	CML 278	8.7	1.6	6.7	5.6	1.6-8.7	MS	2.0	MR	2.5	MS
185	CML 279	7.2	2.3	5.7	5.0	2.3-7.2	MR	1.0	R	2.0	MR
186	CML 322	5.8	2.0	7.0	4.9	2.0-7.0	MR	1.0	R	1.5	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
187	CML 37	5.5	1.7	6.4	4.5	1.7-6.4	MR	2.0	MR	2.5	MS
188	CML 446BBB	5.2	1.6	7.0	4.6	1.6-7.0	MR	1.0	R	3.0	MS
189	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.0	MR
190	LM13 (R)-C	3.8	1.2	5.0	3.3	1.2-5.0	MR	3.0	MS	2.0	MR
191	UMI 1210-C	4.2	1.0	6.0	3.7	1.0-6.0	MR	2.0	MR	1.5	MR
192	CM111 (S)-C	3.8	1.8	7.2	4.3	1.8-7.2	MR	2.0	MR	2.0	MR
193	CML 484BBB	6.0	3.7	6.4	5.4	3.7-6.4	MS	1.0	R	2.0	MR
194	CML 189BBB	4.3	2.1	5.8	4.0	2.1-5.8	MR	3.0	MS	2.5	MS
195	CML 195	3.8	2.7	6.9	4.4	2.7-6.9	MR	1.0	R	2.0	MR
196	CML 384	3.0	1.2	5.9	3.4	1.2-5.9	MR	1.0	R	2.5	MS
197	CML 406	4.8	1.5	6.1	4.1	1.5-6.1	MR	2.0	MR	3.0	MS
198	CML 493BBB	3.2	2.0	6.8	4.0	2.0-6.8	MR	4.0	S	2.5	MS
199	CML 542 W	4.8	1.3	6.9	4.3	1.3-6.9	MR	2.0	MR	2.0	MR
200	CML 548 W	3.4	1.5	6.7	3.9	1.5-6.7	MR	1.0	R	3.0	MS
201	CML 549 W	3.6	1.7	7.8	4.4	1.7-7.8	MR	1.0	R	2.5	MS
202	CML 550 W	3.3	2.6	6.7	4.2	2.6-6.7	MR	1.0	R	3.0	MS
203	CML 551 Y	4.2	2.1	5.8	4.0	2.1-5.8	MR	1.0	R	2.0	MR
204	CML 554 W	8.2	2.5	6.6	5.8	2.5-8.2	MS	1.0	R	3.5	S
205	CML 556 W	3.8	1.1	7.0	4.0	1.1-7.0	MR	3.0	MS	3.0	MS
206	CML 557 W	4.2	2.4	6.6	4.4	2.4-6.6	MR	4.0	S	2.0	MR
207	CML 559 W	3.5	1.9	6.8	4.1	1.9-6.8	MR	3.0	MS	2.0	MR
208	CML 142 X 150	4.4	1.8	6.2	4.1	1.8-6.2	MR	2.0	MR	1.5	MR
209	CML 163	7.6	1.2	6.8	5.2	1.2-7.6	MS	2.0	MR	2.5	MS
210	CML 176	4.2	2.1	6.6	4.3	2.1-6.6	MR	2.0	MR	3.5	S
211	CML 186	5.4	2.3	6.7	4.8	2.3-6.7	MR	2.0	MR	3.0	MS
212	Bajim-08-27	5.4	-	6.7	6.0	5.4-6.7	MS	1.0	R	2.5	MS
213	HKI 1128-C	NG	1.4	5.0	3.2	1.4-5.0	MR	1.0	R	2.5	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
214	LM13 (R)-C	NG	1.8	6.0	3.9	1.8-6.0	MR	2.0	MR	2.5	MS
215	UMI 1210-C	3.0	1.6	6.1	3.6	1.6-6.1	MR	3.0	MS	3.0	MS
216	CM111 (S)-C	5.2	1.1	6.0	4.1	1.1-6.0	MR	2.0	MR	4.5	HS
217	LM 5	3.6	1.9	6.2	3.9	1.9-6.2	MR	3.0	MS	5.0	HS
218	LM 11	6.0	2.3	6.4	4.9	2.3-6.4	MR	1.0	R	3.0	MS
219	LM 14	3.3	1.3	6.2	3.6	1.3-6.2	MR	1.0	R	2.0	MR
220	LM 16	5.5	1.4	6.5	4.5	1.4-6.5	MR	1.0	R	3.0	MS
221	LM 17	6.0	3.2	6.0	5.1	3.2-6.0	MS	1.0	R	2.5	MS
222	LM 18	5.0	3.0	7.3	5.1	3.0-7.3	MS	1.0	R	3.5	S
223	LM 19	3.3	2.0	5.7	3.6	2.0-5.7	MR	1.0	R	3.0	MS
224	HKI 193-1	4.0	2.8	6.6	4.5	2.8-6.6	MR	1.0	R	2.0	MR
225	HKI 193-2	4.5	1.5	6.2	4.1	1.5-6.2	MR	3.0	MS	2.0	MR
226	HKI 323	4.5	2.6	6.7	4.6	2.6-6.7	MR	1.0	R	1.5	MR
227	HKI 488-1RG	5.0	1.0	6.8	4.3	1.0-6.8	MR	1.0	R	3.5	S
228	HKI 1344	4.3	1.0	7.4	4.2	1.0-7.4	MR	1.0	R	3.0	MS
229	HKI 1348-6-2	7.3	2.0	7.2	5.5	2.0-7.3	MS	2.0	MR	2.5	MS
230	HKI 1352	5.0	1.5	7.0	4.5	1.5-7.0	MR	1.0	R	2.5	MS
231	HKI 1378	4.7	2.0	5.9	4.2	2.0-5.9	MR	2.0	MR	3.5	S
232	MAI-105	4.0	2.8	5.0	3.9	2.8-5.0	MR	1.0	R	3.0	MS
233	MAI-197	4.3	3.4	6.4	4.7	3.4-6.4	MR	1.0	R	3.5	S
234	CML 170	6.2	2.1	6.7	5.0	2.1-6.7	MR	2.0	MR	2.5	MS
235	CML 175	4.2	1.8	6.5	4.2	1.8-6.5	MR	1.0	R	2.0	MR
236	CML180	6.8	2.8	6.1	5.3	2.8-6.8	MS	2.0	MR	2.5	MS
237	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.5	MS
238	LM13 (R)-C	3.6	1.3	5.0	3.3	1.3-5.0	MR	3.0	MS	4.5	HS
239	UMI 1210-C	3.0	1.3	5.5	3.3	1.3-5.5	MR	1.0	R	2.0	MR
240	CM111 (S)-C	6.0	1.4	6.4	4.6	1.4-6.4	MR	1.0	R	1.5	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
241	CML 319	4.8	3.9	6.6	5.1	3.9-6.6	MS	2.0	MR	2.5	MS
242	CML 336	4.6	3.7	6.8	5.0	3.7-6.8	MR	1.0	R	3.5	S
243	DMRQPM 121	5.0	1.6	6.8	4.5	1.6-6.8	MR	1.0	R	3.0	MS
244	HKI 1105	5.6	2.3	6.6	4.8	2.3-6.6	MR	1.0	R	3.0	MS
245	WX 484	4.5	1.8	5.6	4.0	1.8-5.6	MR	1.0	R	2.5	MS
246	ESM 113	4.6	2.4	7.0	4.7	2.4-7.0	MR	2.0	MR	3.5	S
247	HKI 4C4B	6.5	1.9	6.2	4.8	1.9-6.2	MR	3.0	MS	3.0	MS
248	IML12-2	6.8	1.2	6.5	4.8	1.2-6.8	MR	1.0	R	2.5	MS
249	IML12-9	6.0	2.5	6.5	5.0	2.5-6.5	MR	1.0	R	2.0	MR
250	IML12-10	4.8	1.5	7.2	4.5	1.5-7.2	MR	3.0	MS	2.0	MR
251	IML12-14	5.0	2.0	6.4	4.5	2.0-6.4	MR	2.0	MR	3.0	MS
252	IML12-22	6.0	2.0	6.4	4.8	2.0-6.4	MR	1.0	R	2.5	MS
253	IML12-52	5.6	2.1	6.6	4.8	2.1-6.6	MR	1.0	R	3.0	MS
254	IML12-55	4.8	1.6	5.6	4.0	1.6-5.6	MR	1.0	R	2.0	MR
255	IML12-74	3.4	1.8	6.6	3.9	1.8-6.6	MR	2.0	MR	2.5	MS
256	IML12-116	4.3	2.1	5.9	4.1	2.1-5.9	MR	2.0	MR	2.0	MR
257	IML12-133	4.5	1.9	6.9	4.4	1.9-6.9	MR	1.0	R	2.5	MS
258	IML12-135	4.0	2.1	6.9	4.3	2.1-6.9	MR	3.0	MS	2.0	MR
259	IML12-143	4.0	1.9	6.0	4.0	1.9-6.0	MR	1.0	R	2.5	MS
260	IML12-161	7.0	1.2	5.9	4.7	1.2-7.0	MR	1.0	R	1.5	MR
261	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.0	MR
262	LM13 (R)-C	6.0	1.6	5.2	4.3	1.6-6.0	MR	1.0	R	2.5	MS
263	UMI 1210-C	4.0	1.4	4.0	3.1	1.4-4.0	MR	1.0	R	2.0	MR
264	CM111 (S)-C	7.8	1.8	6.6	5.4	1.8-7.8	MS	1.0	R	1.5	MR
265	IML 12-166	7.2	1.8	6.3	5.1	1.8-7.2	MS	1.0	R	3.5	S
266	IML12-170	5.0	2.4	6.8	4.7	2.4-6.8	MR	1.0	R	3.5	S
267	IML12-180	6.4	1.5	6.4	4.8	1.5-6.4	MR	1.0	R	3.0	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
268	IML12-193	5.6	1.6	7.1	4.8	1.6-7.1	MR	1.0	R	3.5	S
269	IML12-195	6.2	2.1	6.7	5.0	2.1-6.7	MR	1.0	R	2.5	MS
270	IML12-212	6.2	2.0	5.8	4.7	2.0-6.2	MR	1.0	R	2.0	MR
271	IML 12-213	5.0	1.7	7.2	4.6	1.7-7.2	MR	2.0	MR	2.5	MS
272	IML12-215	4.2	1.8	5.7	3.9	1.8-5.7	MR	1.0	R	3.0	MS
273	IML12-218	5.2	1.6	5.3	4.0	1.6-5.3	MR	1.0	R	3.0	MS
274	IML12-220	6.2	2.6	7.1	5.3	2.6-7.1	MS	1.0	R	2.5	MS
275	IML12-221	3.6	1.8	6.0	3.8	1.8-6.0	MR	1.0	R	3.0	MS
276	IML13-15	4.6	2.6	6.3	4.5	2.6-6.3	MR	4.0	S	2.5	MS
277	IML13-17	6.7	2.0	6.7	5.1	2.0-6.7	MS	4.0	S	4.5	HS
278	IML13-22	7.5	1.8	6.4	5.2	1.8-7.5	MS	2.0	MR	5.0	HS
279	IML13-23	5.8	1.4	6.7	4.6	1.4-6.7	MR	3.0	MS	4.0	S
280	IML13-46	4.8	1.9	6.5	4.4	1.9-6.5	MR	3.0	MS	5.0	HS
281	IML13-62	6.0	4.1	6.3	5.5	4.1-6.3	MS	1.0	R	3.0	MS
282	IML 13-84	6.6	1.2	5.6	4.5	1.2-6.6	MR	1.0	R	3.0	MS
283	IML15-2	4.8	1.7	6.2	4.2	1.7-6.2	MR	1.0	R	2.5	MS
284	IML15-7	4.6	2.3	6.2	4.4	2.3-6.2	MR	4.0	S	3.5	S
285	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.5	MS
286	LM13 (R)-C	3.8	1.7	5.1	3.5	1.7-5.1	MR	4.0	S	2.5	MS
287	UMI 1210-C	6.5	2.1	4.9	4.5	2.1-6.5	MR	3.0	MS	3.0	MS
288	CM111 (S)-C	4.6	1.4	6.2	4.1	1.4-6.2	MR	1.0	R	1.5	MR
289	IML15-10	5.0	2.0	6.3	4.4	2.0-6.3	MR	3.0	MS	2.0	MR
290	IML15-48	5.2	1.6	6.6	4.5	1.6-6.6	MR	3.0	MS	3.5	S
291	IML15-56	5.4	1.2	6.0	4.2	1.2-6.0	MR	3.0	MS	2.0	MR
292	IML15-60	4.6	2.3	7.3	4.7	2.6-7.3	MR	3.0	MS	3.5	S
293	IML 15-65	5.0	3.8	6.9	5.2	3.8-6.9	MS	3.0	MS	3.0	MS
294	IML15-243	4.0	3.2	5.8	4.3	3.2-5.8	MR	4.0	S	2.5	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
295	IML15-69	6.2	1.4	5.8	4.5	1.4-6.2	MR	3.0	MS	4.0	S
296	IML15-97	5.0	2.5	5.8	4.4	2.5-5.8	MR	3.5	S	1.5	MR
297	IML15-112	4.8	1.7	6.9	4.5	1.7-6.9	MR	2.0	MR	2.5	MS
298	IML15-113	5.4	1.7	6.2	4.4	1.7-6.2	MR	4.0	S	4.5	HS
299	IML15-131	5.0	1.3	3.9	3.4	1.3-5.0	MR	4.0	S	5.0	HS
300	IML15-186	4.8	1.2	5.8	3.9	1.2-5.8	MR	3.0	MS	4.5	HS
301	IML15-202	4.0	1.3	5.3	3.5	1.3-5.3	MR	3.5	S	2.5	MS
302	IML15-244	4.8	1.8	5.4	4.0	1.8-5.4	MR	3.0	MS	2.0	MR
303	IML15-268	4.8	2.9	5.9	4.5	2.9-5.9	MR	1.0	R	2.0	MR
304	IML15-269	3.8	2.6	7.3	4.6	2.6-7.3	MR	1.0	R	4.0	S
305	IML15-280	4.0	3.0	6.8	4.6	3.0-6.8	MR	1.0	R	2.5	MS
306	IML15-288	5.4	2.1	6.7	4.7	2.1-6.7	MR	1.0	R	2.0	MR
307	IML15-299	3.3	5.3	6.5	5.0	3.3-6.5	MR	2.0	MR	2.0	MR
308	IML16-4	5.3	4.8	7.4	5.9	4.8-7.4	MS	2.0	MR	1.5	MR
309	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	5.0	HS
310	LM13 (R)-C	4.0	1.8	6.3	4.0	1.8-6.3	MR	2.0	MR	2.5	MS
311	UMI 1210-C	4.0	1.0	7.0	4.0	1.0-7.0	MR	1.0	R	3.0	MS
312	CM111 (S)-C	5.0	1.7	6.6	4.4	1.7-6.6	MR	1.0	R	4.5	HS
313	IML16-6	3.0	1.9	7.1	4.0	1.9-7.1	MR	1.0	R	3.5	S
314	IML16-14	3.2	2.4	5.3	3.6	2.4-5.3	MR	3.0	MS	2.0	MR
315	IML16-17	5.6	3.6	6.6	5.3	3.6-6.6	MS	1.0	R	2.5	MS
316	IML16-25	3.5	1.8	6.3	3.9	1.8-6.3	MR	1.0	R	2.0	MR
317	IML16-27	3.2	4.6	6.0	4.6	3.2-6.0	MR	1.0	R	2.5	MS
318	IML16-28	4.8	3.5	7.2	5.1	3.5-7.2	MS	2.0	MR	3.0	MS
319	IML 16-98	3.4	1.9	6.6	4.0	1.9-6.6	MR	3.5	S	2.0	MR
320	IML16-134	4.8	2.0	5.5	4.1	2.0-5.5	MR	2.0	MR	2.5	MS
321	IML16-143	5.3	1.6	7.3	4.7	1.6-7.3	MR	1.0	R	2.0	MR

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	Genotypes	LUDH	DELH	HYDE	Av.Score	Range	Reaction	DHAR	Reaction	MAND	Reaction
322	IML16-108	5.0	2.9	6.4	4.8	2.9-6.4	MR	1.0	R	2.0	MR
323	IML16-146	NG	2.5	6.1	4.3	2.5-6.1	MR	3.5	S	1.5	MR
324	IML16-157	3.5	1.6	7.4	4.2	1.6-7.4	MR	1.0	R	3.0	MS
325	IML16-162	4.0	1.2	6.7	4.0	1.2-6.7	MR	1.0	R	3.5	S
326	IML16-183	5.0	2.7	6.3	4.6	2.7-6.3	MR	3.0	MS	4.0	S
327	IML16-185	3.5	1.6	6.4	3.9	1.6-6.4	MR	5.0	HS	4.5	HS
328	IML16-188	6.2	2.3	6.6	5.0	2.3-6.6	MR	3.0	MS	3.0	MS
329	IML16-193	5.6	3.0	6.2	4.9	3.0-6.2	MR	1.0	R	2.5	MS
330	IML16-194	6.0	2.9	6.7	5.2	2.9-6.7	MS	1.0	R	3.0	MS
331	IML16-205	7.0	3.2	6.5	5.6	3.2-7.0	MS	1.0	R	2.5	MS
332	IML 16-208	7.5	2.5	5.8	5.3	2.5-7.5	MS	2.0	MR	2.0	MR
333	HKI 1128-C	NG	-	8.0	8.0	8.0-8.0	S	1.0	R	2.5	MS
334	LM13 (R)-C	4.4	1.4	4.4	3.4	1.4-4.4	MR	1.0	R	1.5	MR
335	UMI 1210-C	NG	1.6	6.0	3.8	1.6-6.0	MR	3.0	MS	2.0	MR
336	CM111 (S)-C	5.0	2.1	5.8	4.3	2.1-5.8	MR	1.0	R	2.5	MS
337	IML16-210	4.6	3.3	6.4	4.7	3.3-6.4	MR	1.0	R	3.0	MS
338	IML16-220	4.7	1.6	6.0	4.1	1.6-6.0	MR	2.0	MR	2.5	MS
339	IML16-230	5.3	-	6.4	5.9	5.3-6.4	MS	2.5	MS	1.5	MR
340	IML16-231	8.0	5.0	7.3	6.8	5.0-8.0	MS	1.0	R	2.5	MS
341	IML16-237	6.7	2.7	7.0	5.5	2.7-7.0	MS	3.0	MS	2.0	MR
342	IML16-238	6.3	2.8	6.4	5.2	2.8-6.4	MS	3.0	MS	3.0	MS
343	IML16-254	5.3	3.0	6.8	5.0	3.0-6.8	MR	3.0	MS	3.5	S
344	IML16-269	4.0	2.5	6.3	4.3	2.5-6.3	MR	1.0	R	4.5	HS
345	IML16-279	8.2	2.3	6.3	5.6	2.3-8.2	MS	1.0	R	2.5	MS
346	IML16-282	4.3	2.2	5.9	4.1	2.2-5.9	MR	1.0	R	3.0	MS
347	DML-187-2	5.5	3.0	7.0	5.2	3.0-7.0	MS	3.5	S	3.5	S
348	DML-313	7.3	1.5	6.5	5.1	1.5-7.3	MS	1.0	R	2.5	MS

Contd.

Table-20

		C.ROT (1-9)						C.RUST (1-5)		P.RUST (1-5)	
S.No.	**Genotypes**	**LUDH**	**DELH**	**HYDE**	**Av.Score**	**Range**	**Reaction**	**DHAR**	**Reaction**	**MAND**	**Reaction**
349	DML-187-1	8.2	2.2	6.6	5.7	2.2-8.2	MS	1.0	R	2.0	MR
350	DML-106	4.6	1.6	6.1	4.1	1.6-6.1	MR	1.0	R	3.5	S
351	DML-106-1	7.0	2.9	7.0	5.6	2.9-7.0	MS	2.0	MR	4.0	S
352	DML-165	6.3	1.6	6.4	4.8	1.6-6.4	MR	1.0	R	3.5	S
353	HKI 1128-C	NG	-	NG	-	-	-	1.0	R	2.5	MS
354	LM13 (R)-C	4.0	1.6	5.6	3.7	1.6-5.6	MR	3.0	MS	2.5	MS
355	UMI 1210-C	7.3	2.3	4.5	4.7	2.3-7.3	MR	3.0	MS	2.0	MR
356	CM111 (S)-C	6.5	1.8	6.4	4.9	1.8-6.5	MR	1.0	R	3.0	MS
357	Res. Check	4.8	-	4.1	4.4	4.1-4.8	MR	2.0	MR	2.5	MS
358	Sus. Check	7.6	-	6.5	7.1	6.5-7.6	S	4.0	S	4.5	HS

Resitant Check : C.ROT:- CM 123 **(LUDHIANA);** P. RUST:- HEMA **(MANDYA)**

Susceptible Check :C.ROT:- CM 600 **(LUDHIANA); P. RUST:-** 219J **(MANDYA)**

Resitant Check :-C. RUST:-CI4 **(DHARWAD);**

Susceptible Check :C. RUST:- CM 202 **(DHARWAD);**

Table 21. Disease screening of maize genotypes against MLB, RDM and PFSR (D)

S.No.	Pedigree	MLB (1-5)		RDM (%)	
		LUDH	Reaction	UDAI	Reaction
1	TL02A-1184A-32-1-3-1-2-1-2-Ä-1-1	1.5	R	0.0	R
2	TL02A-1184A-32-1-3-1-2-1-3-Ä-1-1	1.5	R	0.0	R
3	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-1 (set one)	2.5	MR	0.0	R
4	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-2 (set Two)	3.0	MR	10.0	R
5	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-2-1	2.5	MR	0.0	R
6	AF -04-B-5779-22-3–3-2-2-1-1-1-Ä-1-1	3.0	MR	12.0	MR
7	AF -04-B-5779-22-3–3-2-2-1-1-2-Ä-1-1	2.5	MR	0.0	R
8	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2-Ä-1-1	3.5	MS	13.0	MR
9	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2-Ä-2-1	2.5	MR	6.0	R
10	CM 115-4-2 -3-2-2-1-1-1-1-Ä-1-1	2.0	R	8.0	R
11	CM 115-4-2 -3-2-2-1-1-1-1-Ä-2-1	1.5	R	18.0	MR
12	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-2-Ä-1-1	2.5	MR	17.0	MR
13	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-2-1-2-Ä-1-1	2.5	MR	8.0	R
14	V406 -2 Ä-1-1-1-1-1-Ä-1-1	3.0	MR	33.0	MS
15	V406 -2 Ä-1-1-1-1-1-Ä-2-1	3.0	MR	0.0	R
16	**Susceptible check (Local)**	3.5	MS	89.0	S
17	V406 -2 Ä-1-1-1-1-2 -Ä-1-1	3.0	MR	0.0	R
18	V338 -1Ä-1-1-1-1-1-Ä-1-1	3.0	MR	50.0	MS
19	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-1-1	3.5	MS	6.0	R
20	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-2-1	2.0	R	15.0	MR
21	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-3-1	2.0	R	70.0	S
22	PFSR (Y)-C1-B-1Ä-1-1-1-1-2-Ä-1-1	2.0	R	80.0	S
23	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-1-1	2.5	MR	33.0	MS
24	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-2-1	3.0	MR	0.0	R
25	Indimyt-100-2Ä-1-1-2-1-2-Ä-1-1	4.0	MS	0.0	R
26	Indimyt-100-2Ä-1-1-2-1-2-Ä-2-1	4.5	S	43.0	MS
27	Indimyt-100-2Ä-1-1-2-1-2-Ä-3-1	4.5	S	33.0	MS
28	Indimyt-345-3Ä-2-1-2-Ä-1-1	4.0	MS	60.0	S
29	Indimyt-345-3Ä-2-1-2-Ä-1-2	4.0	MS	0.0	R
30	Indimyt-345-3Ä-2-1-2-Ä-1-3	4.5	S	5.0	R
31	Indimyt-345-3Ä-2-1-2-Ä-2-1	3.5	MS	11.0	MR
32	**Susceptible check (Local)**	4.5	S	11.0	MR
33	North east 4-1 (N)- Ä -1-1-2-Ä-1-1	4.0	MS	11.0	MR
34	North east 4-1 (N)- Ä -1-1-2-Ä-1-2	4.0	MS	15.0	MR
35	North east 4-1 (N)- Ä -1-1-2-Ä-1-3	3.5	MS	0.0	R
36	North east 4-1 (N)- Ä -1-1-2-Ä-1-4	4.0	MS	13.0	MR
37	North east 4-2 (N)- Ä-1-1-1-Ä-1(white tip) -1	3.5	MS	26.0	MS
38	North east 4-2 (N)- Ä-1-1-1-Ä-1(white tip) -1	4.0	MS	23.0	MR

39	North east 4-3 (N)- Ä-1-1-1-Ä-1-1	2.5	MR	0.0	R
40	North east 4-3 (N)- Ä-1-1-1-Ä-1-2	3.0	MR	31.0	MS
41	North east 4-3 (N)- Ä-1-1-1-Ä-1-3	2.5	MR	11.0	MR
42	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-1-1	3.0	MR	10.0	R
43	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-2-1	2.0	R	17.0	MR
44	NEH (W) -1 (N)-1-1-Ä-1-1	4.0	MS	9.0	R
45	NEH (W) -1 (N)-1-2-Ä-1-1	4.5	S	0.0	R
46	NEH (W) -2 (N)-1-1-Ä-1-1 (set one)	4.0	MS	0.0	R
47	NEH (W) -2 (N)-1-1-Ä-1-2 (set Two)	4.5	S	18.0	MR
48	**Susceptible check (Local)**	3.5	MS	89.0	S
49	NEH (W) -2 (N)-1-1-Ä-1-3 (set Two)	3.0	MR	15.0	MR
50	CML 389-1-1-1-1-Ä-1-1	4.5	S	15.0	MR
51	CML 342 – 1-1-1-Ä-1-1	4.5	S	56.0	S
52	CML 342 – 1-1-2-Ä-1-1	4.5	S	53.0	S
53	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-1-1	4.0	MS	37.0	MS
54	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-2-1	4.0	MS	29.0	MS
55	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-3-1	4.0	MS	22.0	MR
56	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-2-1	3.5	MS	29.0	MS
57	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-1-1	4.0	MS	25.0	MR
58	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-2-1	3.5	MS	47.0	MS
59	PFSR (Y)-C0 Ä-2-1-1-1-Ä-1-1	4.0	MS	13.0	MR
60	PFSR (Y)-C0 Ä-2-1-1-1-Ä-2-1	4.0	MS	0.0	R
61	Extra early (White) Ä -1-1-1-1Ä-1	-	-	10.0	R
62	Resistant Check	2.0	R	-	-
63	Susceptible Check	4.5	S	-	-

Resistant Check:-MLB- LMDR-1 **(Ludhiana)**

Susceptible Check:-MLB- CM 600 **(Ludhiana)**

S.No.	Pedigree	C. Rot (1-9)				
		LUDH	UDAI	Mean	Range	Reaction
1	TL02A-1184A-32-1-3-1-2-1-2-Ä-1-1	4.0	6.2	5.1	4.0-6.2	MS
2	TL02A-1184A-32-1-3-1-2-1-3-Ä-1-1	5.0	7.5	6.3	4.2-7.5	MS
3	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-1 (set one)	4.2	4.6	4.4	4.2-4.6	MR
4	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-1-2 (set Two)	3.0	7.0	5.0	3.0-7.0	MR
5	TL02A-1184A-32-4 -1-1-2-1-1-2-Ä-2-1	4.3	7.0	5.7	4.3-7.0	MS
6	AF -04-B-5779-22-3–3-2-2-1-1-1-Ä-1-1	4.7	5.0	4.9	4.7-5.0	MR
7	AF -04-B-5779-22-3–3-2-2-1-1-2-Ä-1-1	5.5	3.3	4.4	3.3-5.5	MR
8	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2-Ä-1-1	4.7	2.8	3.8	2.8-4.7	MR
9	AF-04-B-5796-A- 7-1-2-2-1-2-1-1-2-Ä-2-1	4.5	1.5	3.0	1.5-4.5	R
10	CM 115-4-2 -3-2-2-1-1-1-1-Ä-1-1	4.8	2.9	3.9	2.9-4.8	MR
11	CM 115-4-2 -3-2-2-1-1-1-1-Ä-2-1	2.7	4.0	3.4	2.7-4.0	MR
12	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-1-1-2-Ä-1-1	5.5	2.0	3.8	2.0-5.5	MR
13	PFSR (Y)-C0-1-Ä-4-1Ä-1-1-1-3Ä-1-1-2-1-2-Ä-1-1	6.5	4.3	5.4	4.3-6.5	MS
14	V406 -2 Ä-1-1-1-1-1-Ä-1-1	4.5	5.5	5.0	4.5-5.5	MR
15	V406 -2 Ä-1-1-1-1-1-Ä-2-1	3.8	4.8	4.3	3.8-4.8	MR
16	**Susceptible check (Local)**	5.8	7.4	6.6	5.8-7.4	MS
17	V406 -2 Ä-1-1-1-1-2 -Ä-1-1	3.3	6.2	4.8	3.3-6.2	MR
18	V338 -1Ä-1-1-1-1-1-Ä-1-1	3.0	3.6	3.3	3.0-3.6	MR
19	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-1-1	5.8	3.2	4.5	3.2-5.8	MR
20	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-2-1	7.0	4.4	5.7	4.4-7.0	MS
21	PFSR (Y)-C1-B-1Ä-1-1-1-1-1-Ä-3-1	6.0	NG	6.0	6.0-6.0	MS
22	PFSR (Y)-C1-B-1Ä-1-1-1-1-2-Ä-1-1	4.3	8.5	6.4	4.3-8.5	MS
23	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-1-1	3.5	4.2	3.9	3.5-4.2	MR
24	PFSR (Y)-C0-3Ä-1-1-1-1-1-Ä-2-1	5.0	4.8	4.9	4.8-5.0	MR
25	Indimyt-100-2Ä-1-1-2-1-2-Ä-1-1	6.3	3.1	4.7	3.1-6.3	MR
26	Indimyt-100-2Ä-1-1-2-1-2-Ä-2-1	7.3	5.8	6.6	5.8-7.3	MS
27	Indimyt-100-2Ä-1-1-2-1-2-Ä-3-1	6.5	4.5	5.5	4.5-6.5	MS
28	Indimyt-345-3Ä-2-1-2-Ä-1-1	3.3	4.8	4.1	3.3-4.8	MR
29	Indimyt-345-3Ä-2-1-2-Ä-1-2	3.5	3.8	3.7	3.5-3.8	MR
30	Indimyt-345-3Ä-2-1-2-Ä-1-3	5.8	4.0	4.9	4.0-5.8	MR
31	Indimyt-345-3Ä-2-1-2-Ä-2-1	4.3	4.6	4.5	4.3-4.6	MR
32	**Susceptible check (Local)**	7.3	8.4	7.9	7.3-8.4	S
33	North east 4-1 (N)- Ä -1-1-2-Ä-1-1	5.5	3.4	4.5	3.4-5.5	MR
34	North east 4-1 (N)- Ä -1-1-2-Ä-1-2	4.8	3.8	4.3	3.8-4.8	MR
35	North east 4-1 (N)- Ä -1-1-2-Ä-1-3	4.0	4.5	4.3	4.0-4.5	MR

36	North east 4-1 (N)- Ä -1-1-2-Ä-1-4	3.8	4.3	4.1	3.8-4.3	MR
37	North east 4-2 (N)- Ä-1-1-1-Ä-1(white tip) -1	4.3	4.2	4.3	4.2-4.3	MR
38	North east 4-2 (N)- Ä-1-1-1-Ä-1(white tip) -1	4.5	2.6	3.6	2.6-4.5	MR
39	North east 4-3 (N)- Ä-1-1-1-Ä-1-1	4.3	3.3	3.8	3.3-4.3	MR
40	North east 4-3 (N)- Ä-1-1-1-Ä-1-2	5.0	3.2	4.1	3.2-5.0	MR
41	North east 4-3 (N)- Ä-1-1-1-Ä-1-3	2.8	3.0	2.9	2.8-3.0	R
42	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-1-1	6.5	3.0	4.8	3.0-6.5	MR
43	PFSR (Y)-C1-A- -3Ä-1-2-1-1-1-Ä-2-1	6.5	3.9	5.2	3.9-6.5	MS
44	NEH (W) -1 (N)-1-1-Ä-1-1	6.8	3.1	5.0	3.1-6.8	MR
45	NEH (W) -1 (N)-1-2-Ä-1-1	5.3	3.7	4.5	3.7-5.3	MR
46	NEH (W) -2 (N)-1-1-Ä-1-1 (set one)	5.3	3.1	4.2	3.1-5.3	MR
47	NEH (W) -2 (N)-1-1-Ä-1-2 (set Two)	5.2	3.4	4.3	3.4-5.2	MR
48	**Susceptible check (Local)**	6.7	8.2	7.5	6.7-8.2	S
49	NEH (W) -2 (N)-1-1-Ä-1-3 (set Two)	4.8	4.8	4.8	4.8-4.8	MR
50	CML 389-1-1-1-1-Ä-1-1	6.0	4.6	5.3	4.6-6.0	MS
51	CML 342 – 1-1-1-Ä-1-1	4.5	3.7	4.1	3.7-4.5	MR
52	CML 342 – 1-1-2-Ä-1-1	4.8	2.9	3.9	2.9-4.8	MR
53	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-1-1	5.3	2.6	4.0	2.6-5.3	MR
54	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-2-1	5.5	4.5	5.0	4.5-5.5	MR
55	PFSR (Y)-C1-B Ä-1-1-1-1-Ä-3-1	5.3	2.9	4.1	2.9-5.3	MR
56	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-2-1	5.5	4.0	4.8	4.0-5.5	MR
57	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-1-1	5.0	3.6	4.3	3.6-5.0	MR
58	PFSR (Y)-C1-B Ä-2-2-1-2-Ä-2-1	5.0	4.0	4.5	4.0-5.0	MR
59	PFSR (Y)-C0 Ä-2-1-1-1-Ä-1-1	4.8	2.4	3.6	2.4-4.8	MR
60	PFSR (Y)-C0 Ä-2-1-1-1-Ä-2-1	5.3	3.1	4.2	3.1-5.3	MR
61	Extra early (White) Ä -1-1-1-1Ä-1	-	7.4	7.4	7.4-7.7	S
62	Resistant Check	3.2	-	3.2	3.2-3.2	MR
63	Susceptible Check	6.5	-	6.5	6.5-6.5	S

Resistant Check:- PFSR- LMDR-1 **(Ludhiana),** JCY2-7 **(Hyderabad)**

Susceptible Check:-PFSR- CM 600 **(Ludhiana),** BML 6 **(Hyderabad)**

Table 22. Disease screening of maize inbred lines against TLB and Polysora rust at Mandya

Sl.No.	Pedigree	TLB (1–5)	Polysora rust (1-5)
1	NAI 102 X MA-K-2014	5.0	2.0
2	NAI 109 X MA-K-2014	4.5	3.0
3	NAI 113 X MA-K- 2014	3.0	1.5
4	NAI 116 X MA-K-2014	3.5	1.5
5	NAI 117 X MA-K-2014	3.5	2.0
6	NAI 123 X MA-K-2014	3.5	1.5
7	NAI 124 X MA-K-2014	4.0	3.5
8	NAI 125 X MA-K-2014	3.0	3.0
9	CHKK 124 X MA-R-2014	5.0	2.5
10	NAI 137 X MA-K-2014	3.0	2.0
219 J		4.5	3.0
11	NAI 138 X MA-K-2014	3.0	1.5
12	NAI 139 X MA-K-2014	3.5	1.5
13	NAI 142 X MA-K-2014	3.0	2.0
14	NAI 143 X MA-K-2014	3.0	2.0
15	NAI 147 X MA- K-2014	3.0	2.5
16	NAI 154 X MA-K-2014	3.5	3.0
17	NAI 158 X MA-K-2014	4.5	2.5
18	NAI 161 X MA-K-2014	5.0	3.0
19	NAI 162 X MA-K-2014	3.5	2.0
20	NAI 165 X MA-K-2014	3.0	1.5
219J		5.0	4.0
21	NAI 167 X MA-K-2014	5.0	2.5
22	NAI 169 X MA-K-2014	3.5	1.5
23	NAI 170 X MA-K-2014	3.0	1.5
24	NAI 171 X MA-K-2014	3.0	2.0
25	NAI 173 X MA-K-2014	2.5	2.0
26	NAI 174 X MA-K-2014	3.0	2.0
27	NAI 175 X MA-K-2014	2.5	2.0
28	NAI 176 X MA-K-2014	4.0	2.5
29	NAI 177 X MA-K-2014	3.5	2.0
30	NAI 178 X MA-K-2014	3.0	1.5
219J		4.5	3.5
31	NAI 179 X MA-K-2014	4.5	2.5
32	NAI 180 X MA-K-2014	3.5	2.5
33	NAI 181 X MA-K-2014	3.0	2.0
34	NAI 188 X MA-K-2014	5.0	3.5
35	NAI 190 X MA-K-2014	5.0	2.5
36	NAI 191 X MA-K-2014	4.5	2.5
37	NAI 193 X MA-K-2014	5.0	3.0
38	NAI 194 X MA -K-2014	3.5	2.0
39	NAI 197 X MA-K-2014	3.0	1.5
40	NAI 199 X MA-K-2014	4.0	2.0
219J		4.0	3.5
41	NAI 204 X MA-K-2014	3.5	1.5

42	NAI 207 X MA-K-2014	3.0	1.5
43	NAI 208 # MA-K-2014	3.0	2.0
44	NAI 209 X MA-K-2014	3.0	1.5
45	NAI 212 # MA-K-2014	3.0	1.5
46	NAI 214-2 X MA-K-2014	2.5	2.0
47	NAI 215 X MA-K-2014	3.5	2.0
48	NAI 217-1 # MA-K-2014	5.0	3.0
49	NAI 218-10 X MA-K-2014	5.0	3.0
50	NAI 219-4 X MA-K-2014	5.0	3.0
219J		5.0	3.5
51	NAI 221-7 X MA-K-2014	4.0	2.5
52	NAI 222-4 X MA-K-2014	3.5	3.5
53	NAI 224-6 X MA-K-2014	3.5	3.5
54	NAI 225-3 X MA-K-2014	3.5	2.5
55	NAI 226 X MA-K-2014	3.0	2.0
56	NAI 227 X MA-K-2014	3.5	2.0
57	NAI 228 X MA-K-2014	3.0	2.0
58	MAI 105 X MA-K-2014	4.0	2.5
59	MAI 110 X MA-K-2014	4.5	3.5
60	KUI 1141 X MA-K-2014	3.0	3.0
219J		4.0	4.5
61	KUI 1141 a X MA-K-2014	2.5	3.0
62	CM 114 X MA-K-2014	3.0	2.0
63	CM 118 X MA-K-2014	3.0	1.5
64	CM 122 X MA-K-2014	3.0	1.5
65	CM 123 X MA-K-2014	4.5	2.5
66	CM 131 X MA-K-2014	4.0	2.5
67	CM 137 X MA-K-2014	4.0	2.0
68	CM 139 X MA-K-2014	4.5	2.5
69	CM 142 X MA-K-2014	4.0	2.5
70	CM 145 # MA-K-2014	3.5	2.0
219J		5.0	4.5
71	CM 205 X MA-K-2014	4.0	2.0
72	NAB-(Y)-2 X MA-K-2014	5.0	3.0
73	WINPOP 21 X MA-K-2014	3.5	2.5
74	WINPOP 26 X MA-K-2014	5.0	2.5
75	WINPOP 45 X MA-K-2014	4.5	2.0
76	WINPOP 47 X MA-K-2014	5.0	3.5
77	POP-61CI-QPMTEYE X MA-K-2014	5.0	4.0
78	POP 446CI X MA-K-2014	5.0	3.5
79	DMSC 8 X MA-K-2014	4.5	3.0
80	DMSC 14 X MA-K-2014	3.5	3.0
219J		5.0	3.5
81	DMSC 15 X MA-K-2014	5.0	3.5
82	DMSC 18 X MA-K-2014	4.5	2.5
83	DMSC 19 X MA-K-2014	4.5	2.5
84	DMSC 20 # MA-K-2014	3.5	2.0
85	DMSC 24 X MA-K-2014	3.0	2.0
86	DMSC 28 X MA-K-2014	4.5	2.0

87	DMSC 36 X MA-K-2014	4.0	2.5
88	JCY 2-7-1 X MA-K-2014	3.5	3.0
89	V 351 X MA-K-2014	4.0	3.5
90	U 139 X MA-K-2014	4.0	2.0
	219J	4.5	3.5
91	U 298 X MA-K-2014	4.0	2.5
92	U 488 X MA-K-2014	4.5	3.5
93	U 536 X MA-K-2014	3.5	2.0
94	CML 134 X MA-K-2014	4.5	3.5
95	CML 154 X MA-K-2014	3.5	2.5
96	CML 247 X MA-K-2014	3.0	2.5
97	CML 248 X MA-K-2014	3.0	4.0
98	CML 300 X MA-K-2014	4.0	2.5
99	CML 336 X MA-K-2014	3.0	2.0
100	CML 360 X MA-K-2014	3.0	2.0
	219J		
101	CML 363 X MA-K-2014	4.0	2.5
102		5.0	3.0
103	CML 410 X MA-K-2014	3.5	3.0
104	CML 413 X MA-K-2014	3.0	2.5
105	CML 436 X MA-K-2014	3.5	2.0
106	CML 480 # MA-K-2014	3.0	2.0
107	CML 481 X MA-K-2014	3.0	2.0
108	HKI-PC-5 X MA-K-2014	4.5	2.5
109	HKI-PC-7 X MA-K-2014	4.5	3.5
110	HKI 164 X MA-K-2014	3.0	2.5
	219J	4.5	4.0
111	HKI 164-7-2 X MA-K-2014	4.0	2.5
112	HKI 193-1 X MA-K-2014	5.0	3.0
113	HKI 209 X MA-K-2014	4.5	3.0
114	HKI-PC-413 X MA-K-2014	5.0	3.5
115	HKI-488 #-MA-K-2014	5.0	2.5
116	HKI-577 X MA-K-2014	5.0	4.0
117	HKI-1040-5- X MA-K-2014	4.5	2.5
118	HKI-1344-X MA-K-2014	5.0	4.0
119	HKI-5072-2-BJ- X MA-K-2014	3.0	2.0
120	POOL-16-XMA-K-2014	3.5	3.5
	219J	5.0	4.0
121	DM-HOC-1-XMA-K-2014	3.5	2.0
122	DM-HOC-15-XMA-K-2014	3.0	4.0
123	CLQ-RC-X-MA-K-2014	5.0	4.0
124	CLQ-PCY #-MA-K-2014	3.5	3.0
125	V-341-XMA-K-2014	5.0	2.5
126	DMR-QPM-58-X MA-K-2014	4.0	2.0
127	AQO-3134-B-B X-MA-K-2014	3.0	1.5
128	HP-36-4 XMA-K-2014	3.0	1.5
129	HP-35 XMA-K-2014	3.5	2.0
130	WEP-1-XMA-K-2014	3.5	2.5

219J		4.5	3.5
131	WEP-6-XMA-K-2014	3.0	3.5
132	LM-5-#-MA-K-2014	3.5	3.5
133	ENT-I-X-MA-K-2014	4.5	3.0
134	SHD-IER-6-XMAK-2014	3.5	2.0
135	POBLac-616-X-MA-KA-2014	4.0	2.5

Table 23. Disease screening of maize inbred lines against SDM at Mandya

Sl. No.	MAI lines	SDM (%)	Sl. No.	MAI lines	SDM (%)
1	MAI 1	3.3	14	NAI 142	16.7
2	MAI 2	3.7	15	NAI 147	30.1
3	MAI 7	3.9	16	NAI 161	63.5
4	MAI 8	2.3	17	NAI 175	10.0
5	MAI 11	2.6	18	NAI 179	0.0
6	MAI 12	11.7	19	NAI 197	5.6
7	MAI 13	6.1	20	NAI 207	22.7
8	MAI 16	11.9	21	NAI 209	91.7
9	MAI 19	4.2	22	CML 410	67.9
10	MAI 20	8.7	23	KUI 1411	45.2
11	MAI 21	10.0	RC	NAH 1137	12.5
12	NAI 116	11.7	SC	CM 500	100.0
13	NAI 137	79.2			

Table 24 A. Performance of the previous year's resistant station inbred lines against TLB at Mandya

Sl. No.	Inbred lines	TLB Disease score (1-5 scale)		
		2014	2015	Mean
1	NAI -137	2.0	3.0	2.5
2	NAI -138	2.0	3.0	2.5
3	NAI -142	2.0	3.0	2.5
4	NAI -175	2.0	2.5	2.3
5	NAI -207	2.0	3.0	2.5
6	NAI -209	2.0	3.0	2.5
7	KUI- 1141	2.0	3.0	2.5
8	KUI-1141a	2.0	2.5	2.3
9	CML- 248	2.0	3.0	2.5
10	CML- 360	2.0	3.0	2.5

Table 24 B. Performance of the previous years' resistant station inbred lines againstSDM at Mandya

Sl. No.	Mandya inbred lines	SDM (%)		
		2014-15	2015-16	Mean
1	MAI 1	5.26	3.30	4.28
2	MAI 2	9.09	3.66	6.37
3	MAI 7	11.11	3.85	7.48
4	MAI 8	9.52	2.33	5.92
5	MAI 11	10.53	2.63	6.58
6	MAI 12	9.09	11.69	10.39
7	MAI 13	11.11	6.11	8.61
8	MAI 16	10.53	11.94	11.23
9	MAI 19	11.76	4.20	7.98
10	MAI 20	10.00	8.69	9.35
11	MAI 21	10.00	10.01	10.01

Table 25. Assessment of avoidable yield loss due to TLB at Dharwad

Replication	Treatment	Rating scale (1-5)	Yield (kg/ha)	Per cent loss in yield
R1	Protected	2.0	5963.00	17.20
	Unprotected	4.5	494.66	
R2	Protected	2.0	6108.53	19.67
	Unprotected	4.6	4906.70	
R3	Protected	2.0	6075.22	19.57
	Unprotected	4.6	4886.46	
R4	Protected	2.5	5873.38	18.79
	Unprotected	4.6	4769.65	
R5	Protected	2.0	6306.40	16.23
	Unprotected	4.5	2683.72	
R6	Protected	2.6	5875.34	21.34
	Unprotected	4.8	4621.66	
R7	Protected	2.0	6244.50	18.42
	Unprotected	4.6	5094.33	
R8	Protected	2.5	5910.95	17.20
	Unprotected	4.6	4894.20	
R9	Protected	1.5	6453.25	18.23
	Unprotected	4.0	5276.88	
			Mean Avoidable yield loss =	18.52

Table 26. Assessment of yield losses due to charcoal rot caused by *Macrophomina phaseolina* at Ludhiana

Replication	Treatment	**Charcoal rot (1-9)**	**Disease index**	**Average yield (kg/plot)**	**Percent loss in yield**
R1	Protected	4.5	50.6	7.8	20.5
	Un-protected	6.0	65.2	6.2	
R2	Protected	5.0	52.8	7.9	19.0
	Un-protected	6.0	63.9	6.4	
R3	Protected	4.8	52.7	8.2	19.5
	Un-protected	5.5	60.3	6.6	
R4	Protected	4.0	42.8	8.0	18.8
	Un-protected	5.5	60.4	6.5	
R5	Protected	4.5	48.4	7.5	20.0
	Un-protected	6.5	68.5	6.0	
R6	Protected	5.5	59.3	7.8	17.9
	Un-protected	6.2	68.1	6.4	
R7	Protected	4.0	44.8	7.9	21.5
	Un-protected	6.5	69.4	6.2	
R8	Protected	4.2	42.9	7.6	17.1
	Un-protected	6.2	69.3	6.3	
R9	Protected	4.8	52.7	7.8	19.2
	Un-protected	6.0	68.1	6.3	
Average yield loss (%)					**19.3**

Protected

1. Seed treatment with Bavistin @3g/kg seed
2. Talc based formulation of *Trichoderma* (10g/kg FYM) row placement at the time of planting

Table 27. Assessment of yield losses due to maydis leaf blight caused by *Drechslera maydis* at Ludhiana

Replication	Treatment	**Maydis Leaf Blight (1-5)**	**Disease index**	**Average yield (Kg/plot)**	**Percent loss in yield**
R1	Protected	2.0	40.0	8.2	23.17
	Un-protected	3.0	60.0	6.3	
R2	Protected	2.2	45.0	9.3	20.4
	Un-protected	2.8	55.0	7.4	
R3	Protected	2.2	45.0	8.0	21.2
	Un-protected	3.2	62.5	6.3	
R4	Protected	2.4	47.5	8.5	20.0
	Un-protected	3.4	63.5	6.8	
R5	Protected	2.2	42.5	8.2	19.5
	Un-protected	3.0	60.0	6.6	
R6	Protected	2.1	45.0	8.2	23.2
	Un-protected	3.5	65.0	6.3	
R7	Protected	2.1	42.5	9.6	23.9
	Un-protected	3.0	57.5	7.3	
R8	Protected	2.2	50.0	8.3	15.7
	Un-protected	2.8	62.5	7.0	
R9	Protected	2.5	47.5	9.0	15.6
	Un-protected	3.4	55.0	7.6	
Average yield loss (%)					**20.3**

1. In protected plot, Indofil M-45 was sprayed two times at 3 DAI and 15 DAI. The crop was inoculated once with *Drechslera maydis*. 2. In non-protected plot, plain water was sprayed after inoculation of the plants with pathogen.

Table 28 A. Assessment of avoidable yield loss due to RDM at Udaipur

Replication	Protected	PD Intensity (%)	Yield q/ha	Yield Loss %
R-1	**Protected**	11.0	41.3	
	Unprotected	58.0	17.0	
R-2	**Protected**	9.0	46.0	
	Unprotected	65.0	21.0	
R-3	**Protected**	13.0	43.0	
	Unprotected	64.0	19.5	
R-4	**Protected**	10.0	42.0	
	Unprotected	63.0	23.0	
R-5	**Protected**	8.0	58.0	
	Unprotected	67.0	17.6	
R-6	**Protected**	6.0	46.9	
	Unprotected	59.0	20.8	
R-7	**Protected**	15.0	46.7	
	Unprotected	78.0	16.3	
R-8	**Protected**	14.0	41.8	
	Unprotected	65.0	26.0	
R-9	**Protected**	10.0	44.2	
	Unprotected	64.0	18.5	
Mean	**Protected PDI-54.11/ Unprotected-10.67**			
Disease control (%)	**Protected Disease control-74.44**			
Avoidable yield losses (%)-55.49%				
CD (5%)	**3.03 1.84 2.87 4.11**			
CV (%)	**2.43**			

Table 28 B. Assessment of avoidable yield loss due to maize cyst nematode

Name of varieties	Nematode Population						Grain Yield	
	Cyst / 5 g root	Per cent reduction over check	Cyst/ 100 cc soil	Per cent reduction over check	Final nematode larvae/ 100 cc soil	Per cent reduction over check	q/ha	Per cent increase over check
Pratap Makka--9	7.10 (2 – 13)	61.62	9.10 (6 – 13)	53.81	841.00 (700--1070)	25.58	36.92 (31.82--41.12)	27.2
Pratap Hybrid Maize --3	3.30 (0 – 8)	82.16	4.80 (2 – 9)	75.63	580.00 (380--720)	48.67	42.43 (34.28--47.64)	36.6
PEEHM--5	18.50 (14 –25)	------	19.70 (14 – 26)	------	1130.00 (930--1450)	------	26.89 (22.26--32.18)	------

Date of sowing : 13.07.2015 Initial Nematode Population : 650 larvae/100 cc soil

Soil type : Clay loam

Replication : 10 Date of observation : 15.10.2015

Plot size : Line sowing Date of harvesting : 26.10.2015

Table 29. Occurrence of maize diseases in trap nursery trial

S.No.	Inbred line	Maydis leaf blight score (1-5)								
		PANT	BAJA	DELH	LUDH	DHAU	KARN	DHOL	DHAR	UDAI
1	CM129	2.5	2.0	1.5	3.0	2.0	2.8	1.0	-	1.0
2	CM202	2.0	2.0	2.0	3.0	NG	2.4	2.0	-	1.5
3	CM119	3.0		3.5	4.0	2.0	2.4	3.0	-	1.5
4	ITNA004	2.5	2.5	NG	NG	NG	NG	NG	-	1.0
5	CM111	3.5	-	2.0	3.5	0.0	2.4	2.0	-	1.0
6	CM500	2.5	-	1.5	2.5	T	2.4	2.0	-	1.5
7	CM115	2.0	2.0	1.5	2.0	NG	2.4	1.0	-	1.0
8	CM501	2.5	2.0	2.0	3.0	1.0	2.4	3.0	-	1.0
9	Indimyt-100-2Ä-1-1-2-1-1	-	-	2.5	2.5	0.0	3.6	NG	2.5	1.5
10	CM 105	3.5	1.5	2.0	2.5	NG	1.6	1.0	-	1.0
11	CM123	2.0	2.0	2.0	2.0	0.0	3.0	1.0	-	1.0
12	CM128	2.5	3.0	2.5	4.0	3.5	2.4	NG	-	1.5
13	CM 149	-	2.0	NG	NG	0.0	2.4	4.0	-	1.0
14	BML 6	-	-	2.5	4.0	1.0	2.6	3.0	-	1.5

Table- 29

		Turcicum leaf blight score (1-5)					BLSB (1-5)					
S.No.	**Inbred line**	**BAJA**	**MAND**	**DHAU**	**ALMO**	**COIM**	**DHAR**	**PANT**	**LUDH**	**KARN**	**UDAI**	**DHAU**
1	CM129	2.5	5.0	0.0	3.0	0.0	4.0	3.0	1.5	1.8	1.0	0.0
2	CM202	4.5	4.0	NG	4.0	0.0	5.0	3.5	0.0	2.0	1.0	NG
3	CM119	2.0	5.0	0.0	3.0	0.0	3.5	2.5	3.0	2.4	0.0	0.0
4	ITNA004	3.5	4.0	NG	-	0.0	4.0	3.0	NG	NG	1.5	NG
5	CM111	2.0	3.5	0.5	2.0	0.0	3.5	-	3.0	2.0	0.5	0.0
6	CM500	2.0	4.5	T	2.0	5.0	4.5	3.5	0.0	2.4	1.0	0.0
7	CM115	-	3.0	NG	2.0	5.0	3.0	3.5	2.0	1.6	1.0	NG
8	CM501	2.0	3.5	0.0	2.0	0.0	2.0	3.0	2.5	2.8	1.0	0.0
9	Indimyt-100-2Ä-1-1-2-1-1	2.5	4.0	0.0	3.0	3.0	3.0	3.0	2.0	2.4	0.0	0.0
10	CM 105	2.0	4.0	NG	2.0	5.0	3.5	2.5	0.0	2.0	0.0	NG
11	CM123	2.5	3.5	0.0	2.0	3.0	2.5	3.5	1.5	2.0	0.0	0.0
12	CM128	1.5	4.5	0.0	4.0	1.0	4.0	3.5	2.0	2.4	0.0	0.0
13	CM 149		3.5	0.0	3.0	0.0	3.0	2.5	NG	1.6	0.0	0.0
14	BML 6	2.0	3.0	1.0	3.0	0.0	4.5	3.0	3.0	2.4	1.0	0.0
15	Resistant check	-	2.0	-	-	-	2.0	-	-	-	-	-
16	Susceptible check	-	4.5	-	-	-	5.0	-	-	-	-	-

Table- 29

		BSDM (1-5)	CLS (1-5)			PFSR (%)	RDM (%)	SDM	PFSR (1-9)		BSR (%)	
S.No.	**Inbred line**	**DHAU**	**BAJA**	**DHAR**	**KARN**	**DELH**	**UDAI**	**COIM**	**LUDH**	**UDAI**	**LUDH**	**DHAU**
1	CM129	1.0	2.5	2.0	1.0	22.22	13.0	0.0	4.0	4.0	0.0	0.0
2	CM202	NG	2.5	1.0	2.1	18.75	6.0	0.0	6.5	0.0	10.0	NG
3	CM119	1.0	3.0	3.0	1.6	83.33	11.0	0.0	4..0	2.0	0.0	0.0
4	ITNA004	NG	-	1.0	NG	-	0.0	0.0	NG	1.0	NG	NG
5	CM111	1.0	-	2.5	1.4	36.36	6.0	0.0	5.0	3.0	15.0	0.0
6	CM500	1.0	-	1.0	1.2	0.0	0.0	0.0	5.5	4.0	10.2	0.0
7	CM115	NG	-	1.0	1.6	18.18	8.0	0.0	6.2	1.0	6.0	NG
8	CM501	1.0	-	2.0	2.0	25	0.0	0.0	4.8	6.0	8.5	0.0
9	Indimyt-100-2Ä-1-1-2-1-1	1.0	-	1.5	1.2	83.33	0.0	0.0	8.5	0.0	5.0	0.0
10	CM 105	NG	-	1.5	1.4	22.22	0.0	0.0	3.4	0.0	0.0	NG
11	CM123	1.0	-	1.0	1.6	0.0	20.0	0.0	3.8	0.0	0.0	0.0
12	CM128	1.0	2.0	1.0	1.8	40	14.0	0.0	4.2	3.0	5.5	0.0
13	CM 149	2.0	-	1.0	2.1	-	0.0	0.0	NG	0.0	NG	0.0
14	BML 6	1.0	-	1.0	1.6	9.09	18.0	0.0	3.8	1.5	4.0	0.0
15	Resistant check	-	-	1.0	-	-		-	-		-	-
16	Susceptible check	-	-	2.0	-	-		-	-		-	-

Table- 29

		BS		CUR	C.ROT	P. RUST	C. RUST	RUST	CLS (1-5)	Germination (%)	Remarks
S.No.	Inbred line	DHAU	UDAI	DHAU	HYDE	MAND	DHAR	COIM	UDAI	MAND	MAND
1	CM129	0.0	1.0	1.0	6.1	3.0	4.0	0.0	1.5	70	-
2	CM202	NG	1.5	NG	5.7	3.5	3.5	0.0	1.0	80	MLB (2.5)
3	CM119	0.0	1.5	1.0	6.7	4.0	3.5	0.0	1.0	65	CLS (3.0), MLB (2.5)
4	ITNA004	NG	1.0	NG		4.5	1.0	0.0	1.0	85	MLB (4.0), MSR (30%)
5	CM111	0.0	1.5	1.0	4.8	3.0	3.5	0.0	1.5	60	MLB (2.5)
6	CM500	0.0	1.5	0.5	5.4	2.0	2.0	1.0	1.0	70	
7	CM115	NG	1.0	NG	5.9	4.5	2.0	0.0	1.0	75	SDM (80%) FSR (30 %)
8	CM501	1.0	1.0	1.0	6.1	3.0	2.5	0.0	1.5	80	CLS (3.5)
9	Indimyt-100-2Ä-1-1-2-1-1	0.0	1.0	2.0	6.6	4.0	3.0	5.0	1.5	70	Charcoal rot
10	CM 105	NG	1.0	NG	6.0	3.5	4.0	3.0	1.5	65	-
11	CM123	1.0	1.5	0.0	5.6	4.0	3.0	0.0	1.0	80	-
12	CM128	0.0	1.0	0.0	6.3	3.5	2.0	3.0	1.5	75	MLB (3.0)
13	CM 149	0.0	0.0	1.0	5.1	4.0	1.5	0.0	0.5	70	-
14	BML 6	0.0	1.5	0.0	5.2	3.0	1.0	3.0	1.5	75	FSR (40%)
15	Resistant check	-	-	-	-	1.5	2.0	-	-	90	MLB (2.5)
16	Susceptible check	-	-	-	-	5.0	3.5	-	-	85	-

Table 30. Survey and surveillance of maize diseases in Himachal Pradesh

District/Disease	Turcicum Leaf Blight	Banded Leaf and Sheath Blight	Maydis Leaf Blight	Brown Spot	Curvularia Leaf Spot
Mandi	Moderate	High	Moderate	Low to moderate	Low
Kullu	Moderate	Moderate	Low to Moderate	Low	Low
Bilaspur	Moderate	Moderate to High	Moderate to High	Low	Low

Systematic surveys were conducted by Bajaura centre under survey and surveillance programme in maize growing areas of Mandi, Kullu and Bilaspur district of Himachal Pradesh during *Kharif*, 2015. The most common diseases of these areas were Turcicum Leaf Blight (TLB), Banded leaf and sheath blight (BLSB) and Maydis leaf blight. Brown spot and curvularia leaf spot diseases of maize were of minor importance.

Table 31. Survey and surveillance of maize diseases in Gujarat

Season : *Kharif* 2015 **State** : Gujarat **Zone** : III **Centre** : Godhra

S. No.	Locations	Date	No. of field surveyed	Grain filling stage	Foliar diseases (Disease Score and Intensity)								Date of disease appearance (MMRS, Godhra)	Period of rapid spread (MMRS, Godhra)
					MLB (1-5)	MLB (PDI)	TLB (1-5)	TLB (PDI)	CLS (1-5)	CLS (PDI)	BLSB (1-5)	BLSB (PDI)		
1.	Godhra	09.09.15	10	Yes	3.0	60	2.0	40	3.0	60	3.0	60	**MLB :** 14.08.15 **TLB :** 16.08.15 **CLS :** 15.08.15 **BLSB :** 20.08.15	**1. MLB :** 05.09.15 to 01.10.15 **2. TLB :** 05.09.15 to 05.10.15 **3. CLS :** 06.09.15 to 04.10.15 **4. BLSB :** 07.09.15 to 09. 10.15
2.	Khanpur	11.09.15	15	Yes	3.0	60	3.0	60	3.0	60	3.0	60		
3.	Santrampur	20.09.15	12	Yes	2.0	40	3.0	60	3.0	60	3.5	70		
4.	Kadana	21.09.15	10	Yes	3.0	60	3.0	60	3.0	60	3.5	70		
5.	Dahod	25.09.15	12	Yes	2.0	40	3.0	60	2.0	40	2.5	50		
6.	Garbada	29.09.15	15	Yes	1.0	20	2.0	40	3.0	60	2.5	50		
7.	Chhotaudipur	30.09.15	15	Yes	2.0	40	3.0	60	3.0	60	1.5	30		
8.	Pavijetpur	01.10.15	15	Yes	2.0	40	2.0	40	4.0	80	3.5	70		
9.	Amirgadh	01.10.15	10	Yes	3.0	60	1.0	20	3.0	60	3.5	70		
10.	Khedbrahma	03.10.15	15	Yes	3.0	60	2.0	40	3.0	60	3.0	60		
11.	Bhiloda	03.10.15	12	Yes	2.0	40	3.0	60	3.0	60	3.5	70		
12.	Virpur	04.10.15	10	Yes	2.0	40	2.0	40	2.0	40	3.0	60		
13.	Malpur	04.10.15	12	Yes	3.0	60	2.0	40	2.0	40	3.5	70		
14.	Sonpur	05.10.15	15	Yes	4.0	80	3.0	60	2.0	40	3.5	70		
15.	Idar	05.10.15	15	Yes	3.0	60	3.0	60	3.0	60	3.5	70		
16.	Datta	06.10.15	12	Yes	1.0	20	4.0	80	2.0	40	3.0	60		
17.	Ambaji	06.10.15	12	Yes	2.0	40	3.0	60	3.0	60	4.0	80		
18.	Palanpur	07.10.15	12	Yes	3.0	60	3.0	60	3.0	60	3.5	70		
19.	Lunavada	08.10.15	15	Yes	3.0	60	3.0	60	2.0	40	3.5	70		
20.	Modasa	10.10.15	10	Yes	2.0	40	3.0	60	1.0	20	3.0	60		

MLB = Maydis leaf blight TLB = Turcicum leaf blight BLSB = Banded leaf and sheath blight CLS = Curvularia leaf spot
PDI : Percent Disease Index

The maize disease survey was done by Godhra centre in 20 locations. The details are given in Table 1. Total 254 maize fields were surveyed to take observations of intensity of MLB, TLB, CLS and BLSB diseases at grain filling stage. The highest intensity of diseases MLB, TLB, CLS and BLSB occurred at Sonpur, Datta, Pavijetpur and Ambaji whereas lowest intensity of MLB, TLB, CLS and BLSB diseases were found at Garbada, Amirgadh, Modasa and Chhotaudaipur locations. The weather data of Godhra location is enclosed herewith for further studies.

Table 32. Survey and surveillance of maize diseases in northern Karnataka

Season: Kharif-2015: Zone: 4 State: Karnataka : Center: Dharwad

Sl.No	District /Place	Area covered (ha)	No. of fields surveyed	Date of survey	Crop Stage	Variety /Hybrid	Foliar diseases severity (PDI)					Charcol stalk rot Incidence (%)
							TLB	C.Rust	CLS	MLB	Brown Spot	
1	Dharawad	32.0	18	Sept-Oct	Grain filling stage	Hybrid	71.6	68.5	58.3	Traces	Traces	3.66
2	Kalaghatagi	15.0	22	Sept-Oct	Grain filling stage	Hybrid	65.3	60.8	45.7	Traces	40.2	1.20
3	Shiggon	20.0	27	Sept-Oct	Grain filling stage	Hybrid	53.6	58.3	20.5	Traces	55.3	4.50
4	Bydagi	12.0	8	Sept-Oct	Grain filling stage	Hybrid	58.5	56.8	28.8	Traces	61.8	Traces
5	Haveri	39.0	43	Aug-Sept	Grain filling stage	Hybrid	63.6	60.9	49.5	Traces	59.4	1.30
6	Gokak	15.0	22	Aug-Sept	Grain filling stage	Hybrid	64.8	65.6	29.7	Traces	Traces	3.10
7	Hukkeri	5.0	10	Sept-Oct	Grain filling stage	Hybrid	63.9	72.5	Traces	Traces	Traces	Traces
8	Nippani	12.0	10	October	Grain filling stage	Hybrid	65.4	72.6	41.6	20.2	Traces	Traces
9	Mudhol	16.0	20	October	Grain filling stage	Hybrid	58.8	59.5	Traces	64.3	Traces	4.80
10	Soundatti	13.0	10	September	Grain filling stage	Hybrid	61.6	58.3	20.5	Traces	Traces	1.30
11	Badami	14.0	9	September	Grain filling stage	Hybrid	65.6	61.5	Traces	Traces	Traces	5.60
12	Bagalkot	10.0	6	October	Grain filling stage	Hybrid	58.2	65.9	Traces	62.6	Traces	5.90
13	Bailhongal	5.0	8	Sept-Oct	Grain filling stage	Hybrid	64.4	63.6	Traces	30.5	Traces	5.40

Table 33. Survey and surveillance of maize diseases in Punjab during *Kharif* 2015

S.No.	District	Crop Stage	Foliar diseases					Stalk rots	
			MLB	BLSB	BSDM	CLS	BLS	BSR	PFSR
1.	Shaheed Bhagat Singh Nagar	Knee high and grain filling stage	Moderate	Moderate to High	-	-	-	Moderate	Low to Moderate
2.	Hoshiarpur	Knee high and grain filling stage	Moderate	Moderate to high	-	-	-	Moderate	Low to Moderate
3.	Ludhiana	Knee high and grain filling stage	Moderate	Moderate	-	Low	Low	Low	Low
4.	Ropar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	-	Low to Moderate	Low
5.	Gurdaspur	Knee high and grain filling stage	Moderate	Moderate to High	Traces	-	-	Moderate	Low
6.	Jalandhar	Knee high and grain filling stage	Low to Moderate	Moderate	-	-	-	Low	Low

MLB- Maydis Leaf Blight
BLSB- Banded leaf and Sheath blight
BSDM- Brown Stripe Downy Mildew
CLS-Curvularia Leaf Spot
BLS-Bacterial Leaf Streak
BSR-Bacterial stalk rot
PFSR- Post flowering stalk rots

Table 34. Survey and surveillance of maize diseases in Tamil Nadu

Sl. No.	Place	Date	No. field surveyed	Crop stage/ variety		Disease intensity/severity (Tr., Mod, Serv)												Remarks
						Foliar Diseases								PFSR				
				Knee high	Gran. Fillg	SDM (%)	MLB	TLB	BSDM	BLSB	Rust	BS	Others	PFSR	CSR	LW	ESR	
1	Reddiyar Chathiram	11.09.2015	3		☑	0	0	3	0	0	0	0	0	0	0	0	0	
3	Avalpoonthurai	17.09. 15	5	☑		0	0	Gr.5	0	0	0	0	0	0	0	0	0	
4	Thondamuthur	12.11.2015	3	☑	☑(Fodder Maize)	100 %	0	0	0	0	Gr. 3	0	0	0	0	0	0	
5	Annur	26.11.2015	3	☑(private Hybrid)	☑	80%	0	0	0	0	0	0	0	0	0	0	0	
6	Ottanchathiram	22.12.2015	2		☑(private Hybrid ☑	0	0	0	0	0	0	0	0	7	0	0	0	
7	Anthiyur	28.01.2016	3	☑	☑	0.0	0	Gr.5	0	0	0	0	0	0	0	0	0	

Table 35. Survey and surveillance of maize diseases in Rajasthan

Season: Kharif -2015 State: Rajasthan Zone: V Centre: Udaipur

S.No	Place	*Date*	No. of field surveyed	Crop variety	Disease Intensity/Severity											
					Foliar diseases								PFSR/ SMUT			
					DM (%)	MLB	TLB	BSDM	BLSB	CLS	BS	OTHER	PFSR	CSR	LW	Head smut
1.	Bujhda	13.9.15	2	Maize local	15.0	3.0	-	-	-	1.0	1.5	-	-	-	-	-
2.	Fateh nagar	8.9.15	3	Maize Local (Yellow/white)	10.0	3.0	-	-	1.0	3.0	1.5	-	Mod.	-	-	Flag smut Mod.
3.	Kharva chanda	23.8.15	4	Maize local	15.0	2.0	-	-	-	1.5	2.0	-	-	-	-	Flag smut Mod.
4.	Nai	11.9.15	3	Maize Local	25.0	2.0	-	-	-	2.5	1.5	-	Sev.	-	-	Common rust
5.	Mavli	4.9.15	4	Maize Local (Yellow/white)	-	2.5	-	-	-	2.0	2.0	-	Mod.	-	-	-
6.	Sisarama	6.09.2014	5	DHM-117	0.0	1.0	-	-	-	1.5	1.0	-	Mod.	-	-	-
7.	Dabok	4.9.15	6	Maize Local	-	2.0	1.0	-	-	2.5	2.0	-	Tr. To Mod.	-	-	Common rust
8.	Kaladwas	17.8.15	4	Sweet Corn	10.0	2.5	-	-	-	2.0	1.0	-	-	-	-	-

S.No	Place	*Date*	No. of field surveyed	Crop variety	Disease Intensity/Severity											
					Foliar diseases								PFSR/ SMUT			
					DM (%)	MLB	TLB	BSDM	BLSB	CLS	BS	OTHER	PFSR	CSR	LW	Head smut
9.	Peepal khunt	4.9.15	5	Maize Local	-	1.5	-	-	2.0	1.5	2.0	-		-	-	Flag smut Mod.
10	Bheel khera	14.9.15	4	Maize Local (Yellow/white)	30.0	1.0	1.5	20.0	2.5	1.5	1.5	-		-	-	-
11	Navania	7.9.15	3	Maize Local	25.0	2.0	-		1.0	1.0	1.0	-	Sev.	-		-
12	Gogunda	7.9.15	4	Maize Local	20.0	2.0	1.0	25.0	1.5	1.5	0.5	-	Sev.	--	-	-

RDM – Rajasthan Downy Mildew, PFSR – Post Flowering Stalk Rot, MLB – Maydis Leaf Blight, CLS – Curvularia Leaf Spot, BS – Brown Spot BLSB – Banded Leaf & Sheath Blight, HS = Head Smut, Tr. – Traces, Mod. – Moderate, Sev. – Severe.

Table 36. Occurrence of maize cyst nematode in Rajasthan

Name of Places/villages	No. of samples collected	No. of samples containing *H. zeae*	Occurrence (%)	Average Nematode Population			Other Dominant Nematodes in soil
				Cyst / plant	Cyst/ 100 cc soil	Larvae / 100 cc soil	
Udaipur (Udaipur)	13	9	69.23	9.22	13.00	555.56	RLN, SN, LN
Salumber (Udaipur)	5	4	80.00	11.50	15.00	600.00	RLN, LN, RKN
Barapal (Udaipur)	7	5	71.43	12.00	15.60	612.00	SN, LN
Kanpur (Udaipur)	8	6	75.00	12.50	13.83	630.00	RKN, RLN ,SN, LN
Sindu (Udaipur)	6	4	66.67	14.00	16.25	662.50	RLN, RKN. LN
Durga Kund (Rajsamand)	4	4	100.00	15.75	18.50	665.00	SN, LN. RLN
Gomti (Rajsamand)	5	4	80.00	16.25	20.00	675.00	LN, RLN, SN
Bijainagar (Ajmer)	6	4	66.67	4.00	5.50	320.00	RLN, LN, RKN
Badi (Ajmer)	4	3	75.00	6.00	8.00	533.33	LN, SN
Sathana (Ajmer)	5	3	60.00	3.33	5.00	350.00	RLN, SN, RKN
Sikhrani (Ajmer)	4	2	50.00	5.00	6.00	510.00	SN, LN
Badli (Ajmer)	5	3	60.00	6.67	8.67	553.33	SN , RLN, LN
Grand Total	72	51	70.83				

LN : Lance nematode , *Hoplolaimus* spp.
SN : Stunt nematode, *Tylenchorhynchus* spp.
RLN : Root lesion nematode , *Pratylenchus* spp.
RKN: Root--knot nematode, *Meloidogyne* spp.

Table 37 A. Efficacy of fungicides on incidence of maydis leaf blight under field condition at Karnal

Sr. No	Treatment	Location :Karnal			
		PDI*	%Disease control	Yield (q/ha)	Yield increase (%)
1	Propiconazole @ 0.1 %	50.00(44.90)	37.5	7.70	32.76
2	Hexaconazole @ 0.1%	52.89(46.63)	33.88	6.90	18.96
3	Carbendazim @ 0.1%	51.81(46.02)	35.25	7.30	25.86
4	Mancozeb @ 0.2%	53.30(46.90)	33.37	6.90	18.96
5	Carbendazim 12 WP + Mancozeb 63 WP @ 0.125%	50.55(45.23)	36.81	7.60	31.03
6	Untreated check (water spray)	80.00(63.92)	0.00	5.80	0.00
7	Sem+	0.80		0.08	
8	CD 0.05	(2.78)		0.44	
9	CV %	3.12		5.75	

*Test Variety Name: HKI 1105 + HKI 536CBT

* Statistically data analysis (CD, CV & Sem) with transformed values in parenthesis

Five fungicides namely propiconazole 25 EC, hexaconazole 25 EC, carbendazim 50 WP, mancozeb 75 WP and carbendazim 12 WP + mancozeb 63 WP were tested at different concentrations on artificially inoculated genotype HKI 1105 + HKI 536CBTat CCSHAU, RRS, Karnal. All the fungicides were found significantly effective in controlling the Maydis leaf blight. Lowest per cent disease index (PDI) was recorded when crop was sprayed with Propiconazole @ 0.1 % with maximum increase in yield over untreated check followed by Carbendazim 12 WP + Mancozeb 63 WP @ 0.125%.

Table 37 B. Efficacy of botanicals/ bioagents on incidence of maydis leaf blight under field condition at Karnal

Sr. No	Treatment	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
1	Azadirachtin 3000ppm @ 0.3%	67.00(54.94)	14.97	6.00	22.44
2	*R. serpentine* leaves (Sarpgandaha) @10%	52.22(46.28)	33.73	7.88	60.81
3	*A. marmelos* leaves (Bel Pathar) @25 %	63.33(52.85)	19.63	6.24	27.34
4	*TH-3* @ 0.5% as seed treatment, bioagent fortified FYM (1:50) and spray @ 0.5%	58.89(50.11)	25.26	6.60	34.69
5	*TV-3* @ 0.5% as seed treatment, bioagent fortified FYM (1:50) and spray@ 0.5%	56.66(48.84)	28.09	6.12	24.89
6	Untreated check (water sprays)	78.80(62.58)	0.00	4.90	0.00
7	Sem+	1.25		0.06	
8	CD 0.05	4.23		0.27	
9	CV %	4.36		5.12	

*Test Variety Name : HKI 1105 + HKI 536CBT

* Statistically data analysis (CD, CV & Sem) with transformed values in parenthesis

Three botanicals and two bioagents were tested under field condition at different concentrations on artificially inoculated genotype HKI 1105 + HKI 536CBTat CCSHAU, RRS, Karnal. All the botanicals/bioagents and were found significantly effective in controlling the Maydis leaf blight. Lowest per cent disease index (PDI) was recorded when crop was sprayed with leaf extract (10 %) of medicinal plant Sarpgandha (*R. serpentine*) followed by *TV-3* @ 0.5% as seed treatment, bioagentfortified FYM (1:50) and spray@ 0.5%.Significantly higher yield was also recorded in case of *R. Serpentine* followed by *TV-3* @ 0.5% as seed treatment, bioagentfortified FYM (1:50) and spray@ 0.5%.

Table 38. Efficacy of bioagents on incidence of BLSB and yield of maize at Pantnagar

Tr. no.	Treatments	PDI	Disease control (%)	Yield (q/ha)	yield increase (%)
1	*Pseudomonas fluorescens*- seed treatment (4g/kg)	56.67 (48.85)	31.99	43.28	31.52
2	*Trichoderma harzianum* - seed treatment (2.5g/kg)+ *Pseudomonas fluorescens* seed treatment (4g/kg)	66.67 (54.78)	19.99	35.49	22.04
3	*Trichoderma harzianum* - seed treatment (2.5g/kg)	70.00 (57.00)	15.99	33.37	13.86
4	FYM(100kg/ha)-soil application + *Pseudomonas fluorescens* - seed treatment (4g/kg)	63.33 (52.78)	24.00	39.22	26.96
5	FYM(100kg/ha)- soil application + *Pseudomonas fluorescens* - seed treatment (4g/kg)+ *Trichoderma harzianum*- seed treatment (2.5g/kg)	63.33 (52.78)	24.00	42.41	32.52
6	FYM(100kg/ha)- soil application + *Trichoderma harzianum* (2.5g/kg)	56.67 (48.45)	31.99	44.97	34.49
7	Check	83.33 (66.64)	-	28.71	-
	CD at 5%	10.63 (7.06)		**1.51**	
	CV	9.09 (7.28)		**2.22**	

(Figures within the parenthesis are angular transformed values)

Table 39. Efficacy of bioagents on incidence of BLSB and yield of maize at Pantnagar

Tr. No.	Treatments	PDI	Disease control (%)	Yield (q/ha)	% yield increase over check
1	Dinfenconazole 25EC (0.1%)	63.33 **(52.78)**	17.43	31.30	20.92
2	Hexaconazole 25EC (0.1%)	70.00 **(57.00)**	8.69	26.79	7.61
3	Validamycin (0.1%)	60.00 **(50.77)**	21.74	27.99	11.57
4	Tebuconazole @ 0.05%	56.67 **(48.85)**	26.08	30.67	19.30
5	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	53.33 **(46.92)**	30.44	31.61	21.70
6	Azoxystrobin @ 0.05%	46.67 **(43.08)**	39.12	35.80	30.86
7	Pencycuron @ 0.1%	50.00 **(45.00)**	34.74	37.15	33.37
8	Carbendazim 50WP (0.1%)	66.67 **(54.78)**	13.04	29.19	15.22
9	Untreated check (water spray)	76.67 **(61.22)**	-	24.75	-
	CD at 5%	**10.53 (6.44)**		**1.51**	
	CV	**10.08 (7.28)**		**2.22**	

(Figures within the parenthesis are angular transformed values)

Table 40. Efficacy of resistance inducer in control of banded leaf and sheath blight at Pantnagar

Tr.No	Treatment	Disease mean score	PDI	% Disease control over check	Grain yield	
					Yield (q/ha)	% Yield increase over check
T1	Salicylic acid@50mg/litre as seed priming & spray @ 100 mg/litre water	2.63	52.50 (46.51)	8.69	43.58	2.77
T2	Salicylic acid @ 50 mg/litre as seed priming & spray @ 150 mg / litre water	3.38	67.50 (55.44)	(-)*	33.21	(-)*
T3	Salicylic acid@ 50 mg/litre as seed priming & spray @200 mg / litre water	2.50	50.00 (45.00)	13.09	45.09	9.57
T4	Salicylic acid @ 50 mg/litre as seed priming & spray @250 mg/litre water	3.13	62.50 (52.27)	(-)*	37.24	(-)*
T5	Check (seed dipping in water & water spray)	2.88	57.50 (49.39)	(-)*	42.37	(-)*
	CD at 5%	**0.64**			**3.74**	
	CV	**14.25**			**6.03**	

(Figures within the parenthesis are angular transformed values)
***(-)** Value is less than check

*** Data not considered due to non- coherence.**

Table 41. Efficacy of newer fungicides in the control of banded leaf and sheath blight (BLSB) at Bajaura.

Treatment		Mean Disease Score	PDI*	Disease control (%)	Yield (q/ha)	Yield increase (%)
T1	Difenconazole @ 0.1 %	1.9	38.5 (38.4)	45.0	35.1	21.3
T2	Hexaconazole @ 0.1%	1.9	38.5 (38.4)	45.0	34.3	19.3
T3	Carbendazim @ 0.1%	2.2	43 (41.0)	38.6	35.6	22.4
T4	Validamycin @ 0.1%	1.7	34.8 (36.2)	50.2	40.1	31.1
T5	Tebuconazole @ 0.05%	1.9	38 (38.1)	45.7	36.1	23.4
T6	Trifloxystrobin 25% + Tebuconazole 50% @ 0.05%	1.5	30.7 (33.6)	56.2	41.6	33.5
T7	Azoxystrobin @ 0.05%	2.0	40.3(39.4)	42.4	39.2	29.4
T8	Untreated check (water spray)	3.5	70 (56.8)		27.6	-
	CD 0.05		1.8		7.0	-
	CV (%)		3.1		5.5	

*Transformed (angular transformation) in the parentheses.
Pencycuron @ 0.1% not available

Result: All the treatments were found effective as compared to untreated check. Treatment T6, Trifloxystrobin 25% + Tebuconazole 50% @ 0.05% was most effective which gave 56.2% disease control with 33.5% increase in yield. Treatment T4, Validamycin @ 0.1% was second effective treatment which gave 50.2% disease control with 31.1% increase in yield.

Table 42. Efficacy of newer fungicides on incidence of banded leaf and sheath blight (BLSB) at Godhra .

Treatments		Godhra				
		Mean disease score* (1-5)	PDI (%)	Disease control (%)	Yield (q/ha)	Yield increase (%)
T_1	Difenconazole @ 0.1%	2.3	22.50 (28.29)	50.00	28.95	26.42
T_2	Hexaconazole @ 0.1%	2.9	29.17 (32.66)	35.19	26.96	17.73
T_3	Carbendazim @ 0.1%	3.0	30.00 (33.17)	33.33	23.80	3.93
T_4	Validamycin @ 0.1%	3.3	33.33 (35.22)	25.93	26.65	16.38
T_5	Tebuconazole @ 0.05%	2.8	28.33 (32.14)	37.04	27.55	20.31
T_6	Trifloxystrobin 25%+Tebuconazole 50% @ 0.05%	1.7	16.67 (24.07)	62.96	32.88	43.58
T_7	Azoxystrobin @ 0.05%	3.0	30.00 (33.19)	33.33	24.92	8.82
T_8	Pencycuron @ 0.1%	2.3	23.33 (28.84)	48.15	29.50	28.82
T_9	Untreated check (water spray)	4.5	45.00 (42.11)	-	22.90	-
S. Em±		0.86	0.46	-	0.60	-
C. D (0.05%)		0.25	1.39	-	1.81	-
C. V %		5.21	2.50	-	3.87	-

*Mean of three replications
Figures in parenthesis are angular transformed values

The *kharif* 2015 results revealed that all the treatments were found significantly superior over control. Among the treatments Trifloxystrobin 25% + Tebuconazole 50% (0.05%) was found best in checking banded leaf and sheath blight (BLSB) disease severity (16.67%) resulted in highest grain (32.88 q/ha) with 43.58 yield increase over check

Table 43. Efficacy of newer fungicides on incidence of banded leaf and sheath blight at Delhi

S. No.	Fungicides	Disease score (1-5 scale)	PDI (%)	% Disease Inhibition	Rank as per PDI	Yield (kg/3m^2)	Yield (Q/ha)	Yield increase (%)
1	Difenconazole @0.1%	3.37	68.03	8.228	6	1.802	60.07	19.25
2	Hexaconazole @0.1%	2.88	61.20	17.443	3	2.083	69.43	27.45
3	Carbendazim@0.1%	3.18	62.17	16.134	4	1.887	62.90	24.87
4	Validamycim @0.1%	2.61	52.53	29.138	1	2.274	75.80	33.54
5	Tebuconazole @0.05%	3.51	70.07	5.477	8	1.732	57.73	12.74
6	Trifloxystrobin 25% + Tebuconazole 50%@0.05%	3.19	63.73	14.029	5	1.873	62.43	19.31
7	Azoxystrobin @0.05%	2.91	58.60	20.949	2	2.116	70.53	28.58
8	Pencycuron @0.1%	3.46	69.73	5.935	7	1.591	53.03	5.01
9	Untreated check (Water spray)	3.65	74.13	-		1.511	50.37	-
	C.D.	0.512	4.682			0.240		
	SE(m)	0.169	1.548			0.079		
	SE(d)	0.239	2.190			0.112		
	C.V.	9.173	4.160			7.334		

Inference on result: Efficacy of eight fungicides were evaluated in the management of BLSB disease. Validamycin (0.1%) was found superior followed by Azoxystrobin (0.05%), Hexaconazole (0.1%), Carbendazim (0.1%), Trifloxystrobin 25% + Tebuconazole 50% (0.05%), Difenconazole (0.1%), Pencycuron (0.1%) and Tebuconazole (0.05%).

Table 44. Efficacy of newer fungicides in the control of banded leaf and sheath blight (BLSB) at Ludhiana

S.No.	Treatment	Dose (%)	Disease severity* (%)	Disease control (%)	Dried grain weight* (gm/plot)	Average yield (q/ha)
1.	Hexaconazole	0.1	48.50 [b]	31.20	5082.13 [a]	70.58
2.	Tebuconazole	0.1	46.67 [b]	33.80	5255.92 [a]	73.00
3.	Azoxystrobin	0.05	34.00 [b]	51.77	5507.73 [a]	76.50
4.	Propiconazole	0.1	48.00 [b]	31.91	5016.27 [a]	69.67
5.	Difenoconazole	0.1	43.83 [b]	37.82	5231.60 [a]	72.66
6.	Carbendazim	0.1	52.67 [ab]	25.29	4893.40 [a]	67.96
7.	Trifloxystrobin + Tebuconazole	0.05	43.33 [b]	38.53	5330.65 [a]	74.04
8.	Pencycuron	0.1	45.67 [b]	35.21	5281.76 [a]	73.36
9.	Validamycin	0.1	39.33 [b]	44.21	5434.52 [a]	75.48
10.	Control	-	70.50 [a]	-	3905.73 [b]	54.25

*Values within experiments followed by the same letter are not significantly different at P = 0.05

** Mean of three replications

- Post inoculation spray (2 DAI) was done and each chemical was sprayed twice at 15 days interval.

Among nine fungicides tested, Azoxystrobin (Amistar) @ 0.05 % proved highly effective with minimum disease severity (34.0 %) and maximum grain yield (76.5 q/ha). All the treatments were significantly superior over control. Validamycin, Trifloxystrobin + Tebuconazole (Nativo) and Difenoconazole (Score) were next in the order of their efficacy.

Table 45. Efficacy of newer fungicides on incidence of turcicum leaf blight and common rust at Dharwad

Treatments		Dose (%)	PDI		PDI		Yield (q/ha)	Per cent Increase in yield
			TLB	Disease control (%)	C. Rust	Disease control (%)		
T_1	Hexaconazole 5 EC	0.1	44.64 (41.88)	35.12	43.24 (41.11)	14.79	56.23	11.9
T_2	Tebuconazole 250 EC	0.1	18.70 (25.67)	72.06	18.06 (24.86)	59.25	69.66	36.41
T_3	Difenconazole 25 EC	0.1	24.20 (29.46)	64.83	30.11 (25.23)	40.66	63.81	26.98
T_4	Propiconazole 25 EC	0.1	35.15 (36.35)	48.91	24.50 (29.92)	51.72	65.66	30.67
T_5	Hexaconazole 4% +Zineb 68%	0.2	36.22 (36.39)	47.36	28.76 (32.29)	43.33	62.50	24.37
T_6	Hexaconazole 5% +Captan 70%	0.2	49.35 (44.60)	28.28	44.67 (41.94)	11.98	52.75	4.97
T_7	Carbendazim 25% + Iprodione 25%	0.2	56.89 (48.97)	17.32	49.98 (44.96)	1.52	53.23	5.93
T_8	Trifloxystrobin 25% + Tebuconazole 50%	0.05	19.22 (25.99)	72.82	20.68 (26.98)	64.41	68.55	38.62
T_9	Untreated Control	-	68.81 (56.06)	-	50.75 (45.43)	-	50.25	-
S.Em±			1.22		1.03		0.99	
CD(P=0.05)			3.65		2.76		2.96	
CV (%)			6.88		9.84		15.88	

Figures in parentheses are Arcsine transformed values

Foliar application of Tebuconazole 205EC @0.1% found significantly superier with respect ot disease control efficacy and yield Tebuconazole 250EC recorded 72.82% TLB disease control and 64.41% C.Rust disease control efficacy and resulted in 36.41% increase in yield over untreated control

Table 46. Efficacy of bio-agents, fungicide and potash in control of post flowering stalk rots (PFSR) at Udaipur

Treatments		Mean disease score	PDI	Disease control (%)	Grain yield	
					(q/ha)	Increase over control (%)
T_1	*TH -3* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray@ 0.5%	3.5	22.7 (28.4)	65.84	**42.7**	**43.28**
T_2	*Pseudomonas fluorescens @ 0.5%* as seed treatment, bioagent-fortified FYM (1:50) and spray@ 0.5%	3.0	20.6 (27.0)	69.02	39.4	32.21
T_3	*TV-3 (Trichoderma viride)* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray@ 0.5%	2.5	14.4 (22.3)	78.34	45.5	52.68
T_4	Spraying of muriate of potash @ 1-2% at 30 days after planting	4.5	37.5 (37.7)	43.60	31.2	4.69
T_5	Propiconazole @ 0.1% spray at 40 DAS	2.0	14.7 (23.5)	77.89	43.8	46.97
T_6	Double dose of muriate of potash at 45 DAS	3.5	31.2 (33.9)	53.08	41.5	39.26
T_7	Untreated check (water spray)	7.5	66.5 (54.6)	-	29.8	-
SEM+		0.11	1.26	1.89	1.12	4.20
CD (0.05)		0.34	3.73	5.62	3.29	12.47
CV (%)		6.02	8.48	6.83	5.75	26.52

Note: Bio-agent fortified FYM under moist condition was incubated for 25 days and thereafter, it was applied in furrow near root zone of the plants before sowing of experiment.

Table 47. Management of charcoal rot with bioagents, fungicide and potash at Ludhiana

S. No.	Treatment	Method and time of application	Dose (%)	Disease severity* (%)	Disease control (%)	Dried grain weight* (gm/plot)	Average yield (q/ha)	Yield increase (%)
1.	*Trichoderma harzianum* (Local)	Seed treatment at sowing	0.5	61.4 [dc]	14.95	3845.2 [c]	53.41	33.51
2.	*Trichoderma harzianum* (Delhi isolate)	Seed treatment at sowing	0.5	63.2 [cde]	12.46	3641.6 [c]	50.58	29.79
3.	*Pseudomonas fluorescence* (Local)	Seed treatment at sowing	0.5	68.0 [ae]	5.81	3059.5 [a]	42.49	16.42
4.	*Trichoderma harzianum* (Local)	FYM supplemented with bioagent in 50:1 ratio at sowing	6 tonnes /acre	58.1 [bd]	19.52	4161.7 [b]	57.80	38.56
5.	*Trichoderma harzianum* (Delhi isolate)	FYM supplemented with bioagent in 50:1 ratio at sowing	6 tonnes /acre	60.5 [bd]	16.20	3856.4 [c]	53.56	33.7
6.	*Pseudomonas fluorescence* (Local)	FYM supplemented with bioagent in 50:1 ratio at sowing	6 tonnes /acre	64.3 [ce]	10.94	3461.1 [c]	48.07	26.12
7.	Muriate of Potash	Spray at 30 DAS	1-2%	64.8 [cef]	10.4	3191.6 [a]	44.33	19.89
8.	Propiconazole @ 0.1%	Spray at 45 DAS	0.1	55.8 [b]	22.71	4244.0 [b]	58.94	39.75
9.	Muriate of Potash	Spray at 45 DAS	Double dose	69.8 [af]	3.32	2940.8 [a]	40.84	9.04
10.	Control	Water spray	-	72.2 [a]		2556.5 [a]	35.51	-

*Values within experiments followed by the same letter are not significantly different at P = 0.05

** Mean of three replications

Among nine treatments, spray of propiconazole @0.1% at 45 DAS followed by treatment with FYM supplemented with Trichoderma harzianum (Local) in 50:1 ratio at sowing proved effective with charcoal rot severity of 55.8 % and 58.1 % respectively as compared to control (72.2 %). The grain yield increased from 35.51 q/ha in control to 58.94 q/ha in propiconazole treatment closely followed by 57.8 q/ha in FYM supplemented with Trichoderma harzianum (Local) in 50:1 ratio. All the treatments were significantly superior over control.

Table 48. Efficacy of bio-agents and fungicides in control of Rajasthan downy mildew (RDM) at Udaipur

Treatments		Incidence (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase (%)
T_1	*Bacillus amyloliquefaciens* @10g/kg as seed treatment, bioagent-fortified FYM (1:50) and spray @ 1.0%	33.0	45.0	**40.5**	**52.83**
T_2	*TH-3* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	22.0	56.0	43.5	64.15
T_3	*TV-3 (Trichoderma viride)* @ 0.5% as seed treatment, bioagent-fortified FYM (1:50) and spray @ 0.5%	13.0	65.0	47.8	80.37
T_4	Fosetyl-al @ 0.2% seed treatment and spray @ 0.2%	10.0	68.0	49.6	87.16
T_5	Azoxystrobin @ 0.2% seed treatment and spray @ 0.15%	NA	NA		NA
T_6	Metalaxyl+Mancozeb @ 0.25% seed treatment and spray @ 0.25%	8.0	70.0	51.2	93.20
T_7	Metalaxyl @ 0.25% seed treatment and spray @ 0.25%	12.0	66.0	48.9	84.52
T_8	Untreated check (water spray)	78.0	-	26.5	-
SEM+		0.77	0.99	1.58	5.90
CD (0.05)		2.30	2.95	4.69	17.54
CV (%)		6.15	2.93	7.18	17.77

Note: Incubated bio-agent fortified FYM under moist condition for 20 days before sowing of experiment.

Table 49. Efficacy of resistance inducer in control of RDM at Udaipur

Treatments		PDI (%)	Disease control (%)	Grain yield	
				(q/ha)	Increase over control (%)
T_1	Salicylic acid (SA) @ 100 µg/g	28.00	65.00	41.0	51.81
T_2	Salicylic acid (SA) @ 150 µg/g	16.0	80.00	48.0	77.65
T_3	Salicylic acid (SA) @ 200 µg/g	15.0	81.25	49.5	83.51
T_4	Salicylic acid (SA) @ 250 µg/g	13.0	83.75	48.8	80.74
T_5	Untreated check (water spray)	80.0	0.0	27.0	0.0
	SEM+	0.90	1.76	1.90	6.99
	CD (0.05)	2.79	5.42	5.87	21.52
	CV (%)	5.56	5.68	8.89	23.78

- All the plants in the trial were artificially inoculated by whorl inoculation technique.

Table 50. Efficacy of resistance inducer in control of turicum leaf blight at Bajaura

Treatment		Germination (%)	Disease mean Score	PDI*	Disease control (%)	Yield[#] (q/ha)	Yield increase over control (%)
T1	Salicylic acid (SA) @ 50 mg/litre as seed priming & spray @ 100 mg/litre water	66.7	2.0	39.8 (39.1)	38.6	14.5	6.3
T2	Salicylic acid (SA) @ 50 mg/litre as seed priming & spray @ 150 mg/litre water	60.8	1.8	35.6 (36.6)	45.1	15.1	11.4
T3	Salicylic acid (SA) @ 50 mg/litre as seed priming & spray @ 200 mg/litre water	58.3	1.7	34.4 (35.9)	46.9	15.6	14.6
T4	Salicylic acid (SA) @ 50 mg/litre as seed priming & spray @ 250 mg/litre water	58.3	1.6	32.6 (34.8)	49.7	16.5	21.3
T5	Check (seed dipping in water and water spray)	55.0	3.2	64.8 (53.6)	-	13.6	-
	CD 0.05	ns		1.7		2.8	
	CV (%)			2.8		9.6	

*Transformed (angular transformation) in the parentheses. # Yield levels are low due to delayed sowing.

Result: All the treatments were found effective as compared to untreated check. Treatment T4, Salicylic acid (SA) @ 50 mg/litre as seed priming & spray @ 250 mg/litre water was most effective which gave 49.7% TLB control with 21.3% increase in yield. No toxic/ synergetic effect could be observed on germination.

Table 51. Efficacy of resistance inducers in control of maize diseases at Delhi

Treatment		Single spray of inducers 3 days before inoculation					Single spray of inducers 3 days after inoculation					Double spray of inducers 3 days before and after inoculation				
		Disease			Yield		Disease			Yield		Disease			Yield	
		Score	PDI	Control (%)	Yield (kg/ 1.5m^2)	% increase over control	Score	PDI	% Control	Yield (kg/ 1.5m^2)	% increase over control	Score	PDI	% Control	Yield (kg/ 1.5m^2)	% increase over control
T1	Salicylic acid (SA) spray @100 mg/l water	2.82	56.40	22.95	0.625	-20.80	3.34	66.80	8.74	0.781	3.33	2.75	55.00	24.86	0.706	-6.94
T2	Salicylic acid (SA) spray @150 mg/l water	3.25	68.80	6.01	0.647	-16.69	3.29	65.80	10.11	0.932	18.99	2.61	52.20	28.68	0.836	9.69
T3	Salicylic acid (SA) spray @200 mg/l water	3.40	68.00	7.10	0.828	8.82	2.83	56.60	22.67	0.418	-46.32	3.36	67.00	8.47	0.727	-3.85
T4	Salicylic acid (SA) spray @250 mg/l water	3.13	62.60	14.48	0.552	-36.77	2.87	57.40	21.58	0.921	17.21	3.04	60.80	16.93	0.798	5.39
T5	Acibenzolar –S-methyl (ASM) spray @10 mg/l water	3.86	77.20	-5.46	1.085	30.41	3.25	65.00	11.20	0.822	8.15	3.37	67.40	7.92	1.131	33.24
T6	Acibenzolar –S-methyl (ASM) spray @20 mg/l water	3.29	65.80	10.11	0.739	-0.016	2.66	53.20	27.32	0.606	-24.58	3.32	66.40	9.29	0.798	5.39
T7	Check (seed dipping in water & water spray)	3.66	73.20	-	0.755	-	3.66	73.20	-	0.755	-	3.66	73.20	-	0.755	-
	CD (0.05)	0.537	10.893		**N/A**		N/A	N/A		**N/A**		N/A	N/A		**N/A**	
	CV (%)															

*Seed priming with inducers could not be done due to non availability of chemicals at the time of seed sowing

Inference on the result: Out of the three spray schedules, the resistance inducing chemicals showed some promise in the single spray after 3 days of pathogen inoculation w.e.t. disease reduction/control. Concentrations of the chemicals did not show any trend of disease control. The yield data were very erratic. Therefore, in my opinion, there is no certainty to achieve positive impact of such chemicals under field condition; it may be effective in controlled conditions mainly. Hence this trial may be relooked

Spray schedule: i. Single spray: 3 days before inoculation (11.08.15), ii. Single spray: 3 days after inoculation (17.08.15), iii. Double spray: 3 days before and 3 days after inoculation (i+ii)

Table 52. Efficacy of resistant inducer in control of maydis leaf bight and charcoal rot at Ludhiana

S. No.	Treatment	Disease Index (%)				Dried grain weight* (gm/plot)	Average yield (q/ha)	% increase in yield over control
		Maydis leaf Blight	Disease control (%)	Charcoal rot	Disease control (%)			
1.	Salicylic acid (SA) @ 50 mg/litre as seed priming	59.87 [ac]	6.20	66.80 [a]	2.83	4131.8 [b]	57.39	3.25
2.	Salicylic acid (SA) @ 50mg/litre as seed priming and spray @100 mg/litre water	57.20 [cd]	10.38	60.02 [c]	12.69	4408.2 [bc]	61.22	9.32
3.	Salicylic acid (SA) @ 50mg/litre as seed priming and spray @150 mg/litre water	54.17 [d]	15.13	54.41 [b]	20.85	4664.5 [c]	64.78	14.30
4.	Salicylic acid (SA) @ 50mg/litre as seed priming and spray @200 mg/litre water	50.50 [bd]	20.88	53.28 [b]	22.50	4874.2 [a]	67.70	17.99
5.	Salicylic acid (SA) @ 50mg/litre as seed priming and spray @200 mg/litre water	47.50 [b]	25.58	51.17 [b]	25.57	4978.7 [a]	69.15	19.71
6.	Control	63.83 [a]	-	68.75 [a]	-	3997.4 [b]	55.52	-

*Values within experiments followed by the same letter are not significantly different at P = 0.05
* Mean of three replications

Among five treatments, Salicylic acid (SA) @ 50mg/litre as seed priming and spray @ 200 mg/litre water reduced severity of maydis leaf blight to 47.5 per cent and charcoal rot to 51.17 per cent as compared to control treatment (63.83 and 68.75 % respectively) and thus increased the grain yield by 19.71 per cent. All the treatments were significantly superior over control..

Table 53. Efficacy of bioagents and botanicals in the management of maize cyst nematode

Date of sowing	:	14.07.2015	Initial Nematode Population	:	600 larvae/100 cc soil
Soil type	:	Clay loam	Replication	:	3
Crop variety	:	PEEHM—5	Plot size	:	7.50 sq. m
Design	:	R.B.D.	Date of harvesting	:	23.10.2015

Treatments	Nematode Population						Grain Yield	
	Cyst / 5 g root	Per cent reduction over check	Cyst/ 100 cc soil	Per cent reduction over check	Larvae/ 100 cc soil	Per cent reduction over check	q/ha	Per cent increase over check
Pochonia chlamydosporia 2 % w/w+ Lantana leaf 1 q/ha	15.00	37.50	13.67	33.87	781.66	38.93	35.55	31.96
Paecilomyces lilacinus 2 % w/w + Lantana leaf 1 q/ha	16.66	30.54	15.00	27.43	865.00	32.42	33.20	23.24
Trichoderma harzianum 2 % w/w+ Lantana leaf 1 q/ha	18.66	22.21	17.00	17.76	976.66	23.71	31.11	15.18
Pochonia chlamydosporia 2 % w/w + Aak leaf 1 q/ha	17.66	26.38	16.33	21.00	930.00	27.34	32.11	19.19
Paecilomyces lilacinus 2 % w/w + Aak leaf 1 q/ha	19.33	19.46	17.33	16.16	990.00	22.67	30.83	14.44
Trichoderma harzianum 2 % w/w + Aak leaf 1 q/ha	20.33	15.29	19.00	8.08	1090.00	14.84	29.78	10.54
Trichoderma viride 2 % w/w + Neem cake 2 q/ha	13.00	45.83	10.33	50.02	646.66	49.49	40.28	49.52
Untreated check	24.00	**----**	20.67	**----**	1280.00	**----**	26.94	**----**
SEm ±	1.46	----	1.01	----	57.24	----	1.27	----
CD at 5%	4.47	----	3.06	----	173.67	----	3.87	----

Table 54. Interaction of maize cyst nematode *with Fusarium verticilioides*

Treatment	Cyst / 5 g root	Cyst/ 100 cc soil	Final nematode population/ 100 cc soil	Disease Rating Scale of PFSR	Yield q/ha
Nematode + PFSR (N+F)	16.67 (20.62)	20.50 (19.61)	603.33 (27.67)	4.55	30.38 (14.30)
Nematode alone (Check)	21.00	25.50	834.17	------	35.45
T test	S	S	S	------	S

Initial nematode population : 620 larvae/100 cc soil
Soil type : Clay loam
Crop variety : PEEHM – 5
Replications : 12
Date of observation : 26.10.2015
Date of sowing : 14.07.2015
Plot size : 5.00 sq. m
Design : Paired Plot Design
Figures in parentheses are the percent decrease over check
Date of harvesting : 07.11.2015

Table 55. Interaction of maize cyst nematode with termite

Treatments	Nematode Population					Yield	
	Initial Nematode population/ 100 cc soil	Cyst / 100 cc soil	Per cent decrease over check	Final nematode larvae / 100 cc soil	Per cent decrease over check	Yield/ plant (g)	Per cent decrease over check
Nematode +Termite (N+T)	616.00	16.33	32.02	782.00	29.83	26.60	38.85
Nematode alone (Check)	616.00	24.05	----------	1114.50	----------	43.50	----------

Data are the average of twenty entries/plants.

ENTOMOLOGY

ABBREVIATIONS USED

AVT- Advanced Variety Trail

DAG- Days after Germination

DAI- Days after Infestation

EC- Emulsifiable Concentration

HS- Highly Susceptible

LIR- Leaf Injury Rating

LS- Least Susceptible

MS- Moderately Susceptible

NG- No Germination

SC- Suspension Concentration

WP- Wettable Powder

Executive Summary

ET1: Evaluation of AICRP entries against stem borers under AICRP

During Kharif 2015, AICRP trials of 71, 41, 39 and 42 entries of different maturity period, speciality corn, QPM and inbreds were evaluated at zone II (represented by Delhi, Karnal and Ludhiana), zone III (Dholi), zone IV (Kolhapur, Hyderabad) and zone V (Udaipur) for screening against *Chilo partellus* under artificial infestation.

The entries were sown in two rows of three metres each. Sixteen seeds were sown; ten days after germination, extra plants were rouged out leaving twelve plants in each row. When the plants were 12-14 days-old; 10-12 black-headed eggs of *C. partellus* laid on butter paper were pinned in the whorl. The eggs hatched within few hours and the neonate larvae nibbled on the leaves and found their way in the leaf and later into stem. The plants were observed 25 days after infestation for level of infestation by recording the leaf injury rating on 1-9 scale.

LIR	Plant Symptoms
1	Plants showing no infestation symptom
2	1-2 leaves with pinholes
3	3-4 leaves with holes
4	1/3 leaves showing infestation symptoms
5	Half the number of the leaves with infestation symptoms
6	2/3 leaves with infestation symptoms and the holes becoming windows
7	Leaves with long window and plant growth is stunted
8	Almost all leaves displaying heavy infestation and plant growth is stunted
9	Dead heart formation observed

The least, moderately and highly susceptible lines are defined by LIR1-3, >3-6 and >6-9 respectively.

Different maturity group: The following entries registered least susceptible reaction against *C. partellus*

Full Season Maturity period: Zone II: CMH 10-555, ADV 0990296, PRMH-189, ADV 1190384,115-08-01,, Siri-4527; Zone III: 29 entries least susceptible while 12 were highly susceptible; Zone IV:32 moderately susceptible while 9 highly susceptible; Zone V: DAS-Mh-106, PM14101L, GK3118, Siri-4527, PMH-3-C and Bio 9681-C were least susceptible.

Medium Maturity period: Zone II:BH 412084, JH 31605, CP.201, DKC9144(IM8478) and HM 9-C were least susceptible; Zone III: all entries except BL 897, CP.201 , HT 51412607 and DKC9144(IM8478) were least susceptible; Zone IV: No entry showed least susceptible reaction; Zone V: BH 412084, BL 897 and HT 51412607 showed least susceptible reaction.

Early Maturity period: Zone II: GYH-0656, FH 3605, FH 3664 and CMH 10-531 were least susceptible; Zone III: all the entries were least susceptible; Zone IV: no entry showed least susceptibility; Zone V: FH 3605, FH 3664, PMH-5-C were least susceptible

Extra Early Maturity period: Zone II: Vivek Hybrid 21-C and Vivek Hybrid 43-C were least susceptible; Zone III: all the entries were least susceptible; Zone IV: no entry showed least susceptibility; Zone V: no entry showed least susceptibility.

Speciality Corn: The following entries registered least susceptible reaction against *C. partellus*

Pop Corn: Zone II: SJPC1, MPC-1-15 and VLpop corn-C were least Susceptible; Zone III: DMRHP 1402 IMHP 1540, HPC 1,VL Popcorn-2(Re-testing),KDPC-2 (Pop corn),IMHP 1535 and VL Pop corn-C: Zone IV: no entry was least susceptible; Zone V: VL Popcorn-2(Re-testing) and SJPC1 were least susceptible

Sweet Corn: Zone II: one entry, FSCH 55 ; Zone III: FSCH 75, QMHSC-1182, BSCH 6, SJSC1, ASKH1, FSCH 41 and ASKH4; Zone IV: no entry was least susceptible; Zone V: QMHSC-1182 and FSCH 55 were least susceptible

Baby Corn: Zone II: Vivek MH 27(R-Testing), IMHB 1531, HKH 425 and HM4-C; Zone III: IMHB 1538, IMHB 1539, MBC-11-15, IMHB 1537, ABH9001,DMRH 1305, IMHB 1531, IMHB 1532, GAYMH-1, IMH 1525, BAUM-3, ASKBH1 and HM4-C; Zone IV: no entry was least susceptible; Zone V: IMHB 1529, IMHB 1539, BAUM-3 and HM4-C were least susceptible

QPM: Zone II: EHQ-64, BQPMH-18, IIMRQPMH1510 and IIMRQPMH; Zone III: All enteries except IIMRQPMH1510 were least susceptible; Zone IV: IIMRQPMH1507, IIMRQPMH1508, LQPMH 415, APQH9(EDV), IIMRQPMH1504, BQPMH-18, IIMRQPMH1505, FQH 106, LQPMH 115, LQPMH 315, DHM 117-C and HQPM1-C; Zone V: AQH4(EDV), APQH9(EDV), HM4-C and HQPM 5-C were least susceptible

ET 2: Screening of inbred lines against *Chilo partellus*

Forty-two inbred lines were evaluated for resistance against *C. partellus*. In Zone II: 41 enteries were moderately susceptible (LIR=3.1-6.0) and one, G77 highly susceptible (LIR 6.1-9.0); Zone III: three entries- G 12, G15 and G32 were least susceptible, one entry, G63, highly susceptible and all other enteries moderately susceptible; Zone IV: none of the genotype showed least susceptible reaction for *Chilo partellus*, 34 enteries were moderately susceptible and 8 enteries highly susceptible; Zone V: G2, G3, G32, G63, G179 and KDM895A were found to be least susceptible whereas 30 moderately susceptible and 6 highly susceptible.

ET 3: Monitoring of *Helicoverpa armigera* by pheromone traps

The population of *Helicoverpa armigera* was monitored from tasseling till hard dough stage of maize by installing pheromone traps during *Kharif*- 2015. The traps were regularly observed and number of moths per trap was recorded at weekly interval. The moths started appearing in second week of September and continue till first week of October at Delhi with maximum number of moths i.e. **7.5**/trap/week noticed in first week of October. Moth appearance was observed in the same metrological period at Karnal. The moths strated appearing in first week of May and continued till second week of June at Ludhiana. Maximum number of moths (64.5/trap/3 days) were recorded during mid June. *Helicoverpa* moths were observed

active in the second fortnight of September at Udaipur with maximum activity (5 moths /trap) recorded during the last week of September.

The period of activity varied greatly from location to location with minimum (15 days) recorded at Udaipur to more than 30 days at Delhi and Karnal while the moth activity was observed quite earlier in the month of May on spring sown maize at Ludhiana. The cob infestation was 27.5, 3.9, 0.5 and 6.8 percent at Delhi, Karnal, Hyderabad and Udaipur respectively.

ET 4: Evaluation of biocontrol agents, egg and larval parasitoids

Egg parasitoids

The parasitization was recorded on the freshly laid eggs by *C. partellus* by artificially releasing the adults on HQPM1 and PMH1 at 12 DAG. The plants were harvested and the egg masses obtained were kept under ambient condition for observing the emergence of parasitoids. No parasitization was observed at Karnal, Kolhapur, Ludhiana and Udaipur, while 12.5 percent parasitization by *Trichogramma* was recorded at Delhi.

Larval parasitoids

The larvae collected from infested maize plants when reared in laboratory, resulted in 37.5, 6.1, 5.6, 8.6, and 4.8 percent parasitization by *Cotesia flavipes* at Delhi, Karnal, Hyderabad, Ludhiana and Udaipur respectively. The mean larval incidence at all the centres suggested *Cotesia* to be active during 30-60 DAG with maximum incidence (21.4 percent) recorded at 40 DAG. Thereafter, the incidence starts decreasing till 60 DAG. No parasitized larvae recovered from the plants dissected at 70 DAG at any of the centre. Similar results were recorded in 2014.

ET 5: Evaluation of insecticides against maize stem borers

The efficacy of four insecticides Chlorantraniliprole 20 SC, Flubendiamide 480 SC, Novaluron 10 EC and Deltamethrin 2.8 EC was evaluated at AICRP centres during Kharif, 2015. Flubendiamide 480 SC followed by Chlorantraniliprole 20 SC were found to be most effective based on leaf injury rating observed at 25 days after infestation while Novaluron 10 EC followed by Flubendiamide 480 SC resulted in maximum yield return as compared to control.

ET6 : Evaluation of inbred lines against Shoot fly, *Atherigina Spp.* under natural infestation during spring 2015

Sixty Eight inbred lines were evaluated against shootfly during spring 2015 at Delhi and Ludhiana.The following lines recorded less than 10.0 percent dead hearts,CML420(8.3), ,ACC.263214(9.1),WINPOP 8(9.1) AEB (Y)(10.0%), and CML49(10.0)

ET 1: Evaluation of maize AICRP trails under artificial infestation for AVT I and II

Table 1.1: Zone wise summary of AICRP trials for resistance against *Chilo partellus* in each maturity group during Kharif, 2015

Level of susceptibility	Full season maturity		Medium maturity		Early maturity		Extra-early maturity
	AVT I	AVT II	AVT I	AVT II	AVT I	AVT II	AVT I
No. of entries							
Zone II							
Least susceptible	5	1	3	2	1	3	2
Moderately susceptible	22	13	6	3	2	5	2
Highly susceptible	-	-	-	-	1	-	-
Zone III							
Least susceptible	19	10	6	4	4	8	4
Moderately susceptible	8	4	3	1	-	-	-
Highly susceptible	-	-	-	-	-	-	-
Zone IV							
Least susceptible	-	-	-	-	-	-	-
Moderately susceptible	20	12	7	4	3	7	3
Highly susceptible	7	2	2	1	1	1	1
Zone V							
Least susceptible	3	3	3	-	-	3	-
Moderately susceptible	22	10	5	5	4	5	3
Highly susceptible	2	1	1	-	-	-	1

(The figures indicate number of entries)

Table 1.2: Zone wise summary of maize AICRP trials for resistance against *Chilo partellus* for specialty corn group during Kharif, 2015

Level of susceptibility	Pop corn	Sweet corn	Baby corn	QPM
Zone II				
Least susceptible	3	1	4	4
Moderately susceptible	6	11	14	35

Highly susceptible	-	-	-	-
Zone III				
Least susceptible	7	7	13	38
Moderately susceptible	3	6	5	1
Highly susceptible	-	-	-	-
Zone IV				
Least susceptible	-	-	-	12
Moderately susceptible	3	8	12	27
Highly susceptible	6	3	1	-
Zone V				
Least susceptible	2	2	4	4
Moderately susceptible	6	7	12	33
Highly susceptible	1	2	2	2

Table 1.3: Screening of maize AICRP entries of Full season Maturity group against *Chilo partellus* during Kharif, 2015

(The figures indicate mean score in terms of LIR)

		Zone II				**Zone III**	**Zone IV**			**Zone V**
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
	AVT I									
1	HT 51412616	3.3	5.9	5.1	**4.7**	**2.9**	4.1	6.3	**5.2**	**3.3**
2	VNR-4325	3.4	3.1	5.2	**3.9**	**2.0**	5.5	6.1	**5.8**	**5.7**
3	DAS-MH-106	1.3	4.0	4.4	**3.2**	**2.2**	3.0	5.6	**4.3**	**1.7**
4	JH 13282	3.0	4.2	5.2	**4.1**	**3.3**	6.0	6.3	**6.2**	**4.0**
5	JH 12010	3.0	3.2	7.5	**4.6**	**4.3**	4.9	6.0	**5.5**	**3.3**
6	ADV 0990293	2.2	3.8	4.5	**3.5**	**3.1**	4.8	6.2	**5.5**	**3.3**
7	PM14101L	2.8	2.6	5.8	**3.7**	**2.8**	5.5	6.7	**6.1**	**2.7**
8	DKC9159 (IN8570)	2.2	3.3	5.0	**3.5**	**2.5**	5.0	6.2	**5.6**	**3.3**
9	DMH 192	1.8	3.6	5.4	**3.6**	**3.0**	4.0	6.2	**5.1**	**3.3**
10	JH 13252	2.1	2.6	5.2	**3.3**	**2.9**	2.5	6.1	**4.3**	**4.0**
11	CMH 10-555	1.9	2.1	4.3	**2.8**	**2.3**	6.0	6.9	**6.5**	**4.0**
12	CMH 11-618	1.3	2.3	6.6	**3.4**	**3.3**	2.0	6	**4.0**	**3.7**
13	Gold 1166	2.7	6.2	5.3	**4.7**	**2.5**	5.5	5.8	**5.7**	**6.7**
14	CMH 12-663	4.7	3.8	5.0	**4.5**	**2.4**	4.7	3.9	**4.3**	**3.3**
15	HT 51412607	1.9	3.4	5.5	**3.6**	**5.6**	4.1	5.8	**5.0**	**4.3**
16	ADV 0990296	1.4	2.3	4.3	**2.7**	**3.4**	8.5	5.1	**6.8**	**4.0**
17	PRMH-189	1.4	2.7	4.2	**2.8**	**1.8**	4.1	5.5	**4.8**	**3.7**
18	ADV 1190384	1.5	3.7	3.1	**2.8**	**2.9**	6.8	5.1	**6.0**	**8.7**

19	JH 13270	3.0	2.7	7.3	**4.3**	**2.8**	7.6	5.1	**6.4**	**3.7**
20	DKC9151 (IN8902)	3.5	2.7	6.2	**4.1**	**3.1**	7.3	4.7	**6.0**	**5.7**
21	NMH-1247	2.5	3.4	5.7	**3.9**	**2.7**	3.3	5	**4.2**	**5.3**
22	Super-1177	2.4	2.5	4.7	**3.2**	**1.3**	7.4	5.9	**6.7**	**3.3**
23	KMH-3981	1.6	2.8	6.4	**3.6**	**3.2**	4.6	6	**5.3**	**3.3**
24	GK3118	5.1	4.6	6.5	**5.4**	**2.9**	3.9	5.1	**4.5**	**1.7**
25	KH-2192	2.1	3.4	5.3	**3.6**	**2.9**	6.1	4.9	**5.5**	**3.7**
26	115-08-01	1.5	2.8	4.2	**2.8**	**2.4**	7.8	4.5	**6.2**	**3.3**
27	DMRH1308	1.3	3.5	6.0	**3.6**	**2.7**	3.9	6.6	**5.3**	**5.3**
AVT II										
28	DKC9133	3.2	7.3	5.5	**5.3**	**3.3**	2.5	5.6	**4.1**	**3.3**
29	HTMH 5108	2.5	5.0	2.9	**3.5**	**1.8**	2.8	5.5	**4.2**	**3.3**
30	DKC9141 (IM8539)	1.8	3.4	5.3	**3.5**	**2.4**	5.8	5	**5.4**	**4.7**
31	HTMH 5202	4.6	2.7	4.7	**4.0**	**4.6**	5.6	5.6	**5.6**	**4.0**
32	IM8556	4.1	6.2	5.5	**5.2**	**3.9**	5.5	5.1	**5.3**	**4.0**
33	PRO-392	1.9	3.2	5.1	**3.4**	**2.0**	7.1	5.2	**6.2**	**3.3**
34	DAS-MH-105	2.1	3.4	7.1	**4.2**	**2.8**	2.8	4.8	**3.8**	**8.3**
35	CP.999	1.3	4.0	5.2	**3.5**	**3.5**	5.9	5.3	**5.6**	**4.3**
36	X35D601	2.2	3.2	5.8	**3.7**	**2.6**	7.7	5.6	**6.7**	**4.0**
37	Siri-4527	1.5	2.5	4.6	**2.9**	**3.0**	3.7	5.3	**4.5**	**1.3**
38	PMH-1-C	5.4	3.5	5.7	**4.8**	**1.8**	6.2	4.6	**5.4**	**4.0**
39	PMH-3-C	2.3	4.1	4.5	**3.6**	**2.2**	4.9	5.7	**5.3**	**1.0**
40	Seedtech 2324-C	1.9	3.7	4.4	**3.3**	**2.0**	3.6	5.7	**4.7**	**3.3**
41	BIO 9681-C	2.0	3.5	5.4	**3.6**	**2.6**	3.7	5.5	**4.6**	**1.0**

The underlined figures represent least susceptible entries

Table 1.4: Screening of maize AICRP entries of Medium Maturity group against *Chilo partellus* during Kharif, 2015

(The figures indicate mean score in terms of LIR)

		Zone II				**Zone III**	**Zone IV**			**Zone V**
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
AVT I										
1	BH 412084	1.1	2.6	4.1	**2.6**	**2.9**	6.9	6.3	**6.6**	**1.0**
2	JH 31605	1.9	3.3	3.0	**2.7**	**2.6**	4.1	5.6	**4.9**	**3.3**
3	BL 897	3.9	3.1	4.2	**3.7**	**3.7**	6.3	6	**6.2**	**1.3**
4	HT 51412182	2.8	3.1	4.3	**3.4**	**2.9**	5.6	5	**5.3**	**8.7**
5	DAS-MH-306	1.4	6.4	4.8	**4.2**	**2.6**	5.9	5.8	**5.9**	**3.3**
6	JKMH 4848	2.1	2.7	5.5	**3.4**	**2.4**	5.2	5.3	**5.3**	**3.3**
7	CP.201	2.5	3.1	3.4	**3.0**	**3.2**	4.4	5.4	**4.9**	**4.0**
8	GK3120	3.2	3.0	3.7	**3.3**	**2.7**	4.4	5.6	**5.0**	**3.7**

9	HT 51412607	3.2	3.5	4.5	**3.7**	**4.0**	5.5	5.5	**5.5**	**1.7**
AVT II										
10	HTMH 5402	3.3	3.5	4.9	**3.9**	**2.2**	4.1	4.8	**4.5**	**4.0**
11	DKC9144 (IM8478	1.6	2.9	4.4	**3.0**	**3.6**	4.3	6.7	**5.5**	**3.3**
12	HM 9-C	1.4	2.4	4.5	**2.8**	**2.3**	4.5	4.2	**4.4**	**5.7**
13	BIO 9637-C	1.8	3.4	5.4	**3.5**	**2.8**	5.6	5.1	**5.4**	**4.0**
14	PMH-4-C	3.7	3.3	4.1	**3.7**	**2.6**	6.1	6	**6.1**	**3.3**

The underlined figures represent least susceptible entries

Table 1.5: Screening of maize AICRP entries of Early and Extra Early Maturity group against *Chilo partellus* during Kharif, 2015

(The figures indicate mean score in terms of LIR)

		Zone II				**Zone III**	**Zone IV**			**Zone V**
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
	AVT I-Early									
1	GYH-0656	2.0	3.0	3.5	**2.8**	**1.9**	6.9	5	**6.0**	**5.3**
2	AH9001	1.8	3.7	4.3	**3.3**	**1.9**	4.3	4.4	**4.4**	**3.3**
3	KDN1263SC	6.8	4.2	7.2	**6.1**	**1.8**	5.6	6.8	**6.2**	**3.7**
4	KDQH-49	2.3	3.6	3.7	**3.2**	**1.9**	5.9	4.6	**5.3**	**3.3**
AVT II-Early										
5	FH 3605	1.8	2.7	4.0	**2.8**	**1.8**	3.3	4.4	**3.9**	**1.7**
6	FH 3626	1.9	3.2	4.1	**3.1**	**1.9**	3.0	4.6	**3.8**	**4.3**
7	FH 3664	1.4	2.0	4.1	**2.5**	**1.5**	6.1	5.5	**5.8**	**1.3**
8	JH 31613	2.2	3.3	4.2	**3.2**	**2.0**	6.3	5.2	**5.8**	**4.0**
9	CMH 10-531	1.9	3.2	3.6	**2.9**	**2.5**	5.3	5.2	**5.3**	**4.0**
10	Bio 9720	2.6	3.2	5.1	**3.6**	**2.2**	6.9	5.4	**6.2**	**3.3**
11	PMH-5-C	3.3	4.3	4.9	**4.1**	**2.2**	5.6	5.7	**5.7**	**1.3**
12	Parkash-C	4.0	3.7	3.3	**3.7**	**2.5**	5.6	5.3	**5.5**	**3.7**
AVT I-Extra Early										
13	EH-2236	3.6	6.2	4.8	**4.8**	**2.3**	7.2	5	**6.1**	**3.3**
14	AH1317	2.9	2.6	4.1	**3.2**	**3.0**	6.7	4	**5.4**	**5.7**
15	Vivek Hybrid 21-C	1.0	3.0	3.7	**2.5**	**1.9**	6.0	4.7	**5.4**	**7.0**
16	Vivek Hybrid 43-C	1.2	3.3	3.7	**2.7**	**2.4**	5.4	3.9	**4.7**	**5.0**

The underlined figures represent least susceptible entries

Table 1.6: Screening of maize AICRP entries of Speciality Corn against *Chilo partellus* during Kharif, 2015

(The figures indicate mean score in terms of LIR)

		Zone II				Zone III	Zone IV			Zone V
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
POP CORN										
1	DMRHP 1402	2.6	6.1	4.3	**4.4**	**2.4**	7.7	5.6	**6.7**	**5.0**
2	IMHP 1540	2.2	3.5	4.4	**3.3**	**2.6**	4.6	4.7	**4.7**	**4.0**
3	HPC 1	1.7	3.6	4.2	**3.2**	**2.2**	8.1	5.5	**6.8**	**3.3**
4	VL Popcorn-2(Re-testing)	2.3	2.9	4.2	**3.1**	**1.8**	7.5	5.6	**6.6**	**1.3**
5	DMRHP 1401	3.4	5.0	4.2	**4.2**	**3.8**	7.7	6.5	**7.1**	**5.0**
6	SJPC1	1.8	3.5	3.0	**2.8**	**5.4**	7.5	4.4	**6.0**	**1.0**
7	KDPC-2 (Pop corn)					**2.8**				
8	MPC-1-15	1.4	3.5	3.4	**2.8**	**3.6**	5.5	4.9	**5.2**	**6.3**
9	IMHP 1535	3.0	4.4	4.6	**4.0**	**2.3**	7.5	6.6	**7.1**	**3.7**
10	VL Pop corn-C	1.4	2.8	4.7	**3.0**	**2.5**	6.3	6.5	**6.4**	**5.7**
SWEET CORN										
1	FSCH 75	1.9	4.1	4.3	**3.4**	**2.2**	6.6	6.6	**6.6**	**3.7**
2	QMHSC-1182	2.0	4.2	4.4	**3.5**	**2.2**	5.4	5.5	**5.5**	**1.3**
3	BSCH 6	1.7	4.1	4.2	**3.3**	**2.2**	4.9	6	**5.5**	**4.0**
4	SJSC1	2.1	4.6	4.6	**3.8**	**1.6**	6.3	7.1	**6.7**	**8.3**
5	ADVSW-2	2.3	6.7	4.7	**4.6**	**3.2**	5.6	5.6	**5.6**	**4.0**
6	FSCH 55	1.9	2.6	4.3	**2.9**	**3.4**	5.4	5.3	**5.4**	**1.7**
7	ASKH1	1.5	4.2	4.6	**3.4**	**2.6**	5.0	6.4	**5.7**	**4.0**
8	FSCH 41	SU				**2.4**				
9	ASKH4	4.1	2.4	3.2	**3.3**	**2.6**	4.9	6.8	**5.9**	**4.3**
10	ADVSW-1	3.8	2.6	4.4	**3.6**	**3.5**	4.1	4.8	**4.5**	**3.3**
11	Madhuri-C	2.9	3.9	5.0	**4.0**	**3.1**	5.6	5.8	**5.7**	**3.7**
12	WOSC -C	SU				**3.8**				
13	Priya-C	2.2	5.0	4.2	**3.8**	**3.3**	5.9	6.5	**6.2**	**9.0**
BABY CORN										
1	IMHB 1538	2.0	3.8	4.7	**3.5**	**2.2**	4.6	5.1	**4.9**	**3.3**
2	IMHB 1529	2.4	3.7	4.2	**3.4**	**3.8**	4.7	5.4	**5.1**	**1.3**
3	IMHB 1539	2.8	2.8	4.1	**3.2**	**2.5**	3.4	5.3	**4.4**	**1.0**
4	Vivek MH 27(R-Testing)	2.4	2.7	3.7	**2.9**	**3.1**	4.5	5.9	**5.2**	**3.7**
5	BVM-2	1.8	4.6	4.0	**3.5**	**3.3**	7.6	6.1	**6.9**	**3.3**
6	MBC-11-15	2.3	4.1	4.0	**3.4**	**2.1**	5.3	6.5	**5.9**	**3.3**
7	IMHB 1537	2.6	3.8	4.2	**3.5**	**2.5**	5.7	6.1	**5.9**	**3.7**
8	ABH9001	2.1	3.9	3.2	**3.1**	**2.7**	6.8	5.2	**6.0**	**4.0**

9	DMRH 1305	2.4	2.6	4.4	**3.1**	**2.5**	4.9	5.3	**5.1**	**5.0**
10	IMHB 1531	1.7	2.3	4.2	**2.7**	**2.5**	3.9	4.4	**4.2**	**4.0**
11	IMHB 1532	2.3	3.5	4.2	**3.4**	**1.6**	2.6	4.5	**3.6**	**6.3**
12	GAYMH-1	2.3	4.6	3.0	**3.3**	**1.4**	3.8	5	**4.4**	**3.3**
13	IMH 1525	2.7	3.9	4.2	**3.6**	**2.7**	3.4	5.6	**4.5**	**4.0**
14	BAUM-3	3.0	3.9	4.2	**3.7**	**1.9**	2.9	5	**4.0**	**1.0**
15	HKH 425	1.6	3.7	3.0	**2.7**	**3.2**	3.7	5.5	**4.6**	**3.3**
16	ASKBH1	1.6	6.2	4.2	**4.0**	**2.6**	3.4	5.5	**4.5**	**6.3**
17	AH5021	2.4	4.4	4.5	**3.8**	**3.2**	3.0	4.1	**3.6**	**4.0**
18	HM4-C	1.4	2.7	4.1	**2.7**	**2.5**	4.9	5.2	**5.1**	**1.0**

The underlined figures represent least susceptible entries

Table 1.7: Screening of maize AICRP entries of QPM against *Chilo partellus* during Kharif, 2015
(The figures indicate mean score in terms of LIR)

		Zone II				**Zone III**	**Zone IV**			**Zone V**
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
	AVT I									
1	AQH8(EDV)	2.8	3.2	4.5	**3.5**	**2.6**	4.3	3.5	**3.9**	**4.0**
2	IIMRQPMH 1507	3.4	4.0	4.9	**4.1**	**2.3**	3.0	2.6	**2.8**	**5.7**
3	IIMRQPMH 1508	2.8	3.3	5.1	**3.7**	**1.7**	3.4	2.5	**3.0**	**4.3**
4	PMSQ5	3.4	3.1	5.0	**3.8**	**2.1**	3.4	2.8	**3.1**	**4.0**
5	IIMRQPMH 1502	3.2	3.4	4.5	**3.7**	**2.4**	4.4	3.4	**3.9**	**5.3**
6	AQH9(EDV)	2.6	3.1	4.8	**3.5**	**1.9**	4.0	2.9	**3.5**	**4.0**
7	LQPMH 415	4.3	3.4	5.1	**4.3**	**2.4**	2.9	2.6	**2.8**	**8.7**
8	AQH4 (EDV)	3.4	3.5	4.6	**3.8**	**2.3**	5.5	3.9	**4.7**	**1.3**
9	APQH9(EDV)	2.4	4.1	3.8	**3.4**	**1.6**	3.4	2.5	**3.0**	**1.7**
10	IHQ-091	2.7	3.7	5.3	**3.9**	**1.5**	4.2	2.9	**3.5**	**5.3**
11	MHQPM-10-15	2.5	6.1	5.4	**4.7**	**1.9**	6.4	4.1	**5.3**	**6.3**
12	EHQ-64	2.1	2.5	3.7	**2.8**	**2.2**	4.8	3.5	**4.2**	**3.7**
13	IIMRQPMH 1504	2.3	6.2	4.0	**4.2**	**2.2**	3.3	2.8	**3.0**	**5.0**
14	BAUQMH-18	2.5	4.0	5.2	**3.9**	**2.5**	5.8	4.1	**5.0**	**3.3**
15	BQPMH 36	1.6	2.7	3.8	**2.7**	**1.6**	3.5	2.6	**3.0**	**4.0**
16	HQPM 26	2.0	3.1	4.5	**3.2**	**1.6**	3.7	2.7	**3.2**	**4.0**
17	IIMRQPMH 1510	1.8	2.5	4.2	**2.8**	**1.4**	4.5	3.0	**3.7**	**5.0**
18	BQPMH 141 (EDV-DHM117)	2.5	3.3	4.3	**3.3**	**1.6**	5.2	3.4	**4.3**	**5.0**
19	IIMRQPMH 1501	3.0	2.9	4.8	**3.6**	**3.6**	3.3	3.5	**3.4**	**4.3**
20	IIMRQPMH 1503	2.2	3.3	4.0	**3.2**	**2.6**	3.7	3.2	**3.4**	**3.7**
21	IIMRQPMH 1506	3.2	3.3	4.4	**3.6**	**2.2**	4.2	3.2	**3.7**	**4.3**

22	LQPMH 115	1.8	6.1	4.8	**4.2**	**1.9**	3.0	2.4	**2.7**	**4.0**
23	EHQ-63	2.7	3.3	4.5	**3.5**	**1.6**	3.6	2.6	**3.1**	**3.7**
24	IIMRQPMH 1505	2.9	3.1	3.4	**3.1**	**1.6**	2.6	2.1	**2.4**	**3.3**
25	VEHQ14-1	3.9	3.4	4.0	**3.8**	**2.1**	5.9	4.0	**4.9**	**4.7**
26	LQPMH 215	3.5	2.6	4.4	**3.5**	**1.9**	3.9	2.9	**3.4**	**3.3**
27	VEHQ15-1	3.4	3.5	4.6	**3.8**	**1.7**	4.5	3.1	**3.8**	**3.7**
28	IIMRQPMH 1509	2.0	3.1	3.8	**3.0**	**1.7**	5.1	3.4	**4.3**	**3.3**
29	FQH 106	3.2	3.2	4.3	**3.6**	**2.3**	2.6	2.4	**2.5**	**5.3**
30	LQPMH 315	3.6	3.4	4.0	**3.7**	**2.4**	2.8	2.6	**2.7**	**3.3**
31	HM8-C	2.7	2.7	4.4	**3.3**	**2.0**	6.8	4.4	**5.6**	**4.7**
32	HM9-C	4.3	2.9	3.9	**3.7**	**1.9**	3.9	2.9	**3.4**	**3.3**
33	HM4-C	3.3	2.7	4.0	**3.4**	**3.0**	4.5	3.8	**4.1**	**1.0**
34	DHM 117-C	3.6	3.1	4.2	**3.6**	**2.9**	2.7	2.8	**2.8**	**4.3**
35	Vivek QPM-9-C	3.2	2.7	5.2	**3.7**	**1.8**	3.9	2.9	**3.4**	**4.0**
36	HQPM 1-C	3.3	3.0	4.4	**3.5**	**1.6**	3.4	2.5	**2.9**	**3.3**
37	HQPM 4-C	3.2	3.3	4.0	**3.5**	**2.3**	4.5	3.4	**3.9**	**3.7**
38	HQPM 5-C	2.7	3.0	4.4	**3.4**	**2.9**	4.3	3.6	**3.9**	**2.0**
39	HQPM 7-C	3.2	2.9	4.8	**3.6**	**2.7**	4.0	3.4	**3.7**	**4.0**

The underlined figures represent least susceptible entries

ET 2: Evaluation of inbred lines under artificial infestation

Table 2.1: Screening of maize inbred lines against stem borer, *Chilo partellus* during Kharif, 2015
(The figures indicate mean score in terms of LIR)

		Zone II				**Zone III**	**Zone IV**			**Zone V**
Ent. No.	**Pedigree**	**DELH**	**KARN**	**LUDH**	**Mean LIR**	**DHOL Mean LIR**	**KOLH**	**HYDE**	**Mean LIR**	**UDAI Mean LIR**
1	IC565877	4.4	2.7	7.7	**4.9**	**3.4**	7.0	6.2	**6.6**	**5.7**
2	IC565880	5.6	3.8	5.6	**5.0**	**5.0**	NG	5.1	**5.1**	**1.3**
3	IC565881	6.5	2.9	7.6	**5.7**	**3.5**	8.7	5.2	**7.0**	**1.3**
4	IC565888	5.4	3.3	4.6	**4.4**	**5.1**	4.2	4.2	**4.2**	**5.7**
5	IC565895	4.7	3.0	4.7	**4.1**	**3.6**	2.8	5.6	**4.2**	**3.7**
6	IC565897	4.6	3.2	7.8	**5.2**	**4.0**	4.3	7.4	**5.9**	**4.0**
7	IC571611	3.9	3.8	5.8	**4.5**	**2.7**	3.8	6.5	**5.2**	**3.3**
8	IC573120	3.3	3.1	5.2	**3.9**	**3.8**	7.9	5.6	**6.8**	**8.3**
9	IC584542	4.0	3.0	5.3	**4.1**	**2.1**	3.5	5.4	**4.5**	**3.3**
10	IC584585	4.7	3.5	7.3	**5.1**	**3.9**	4.6	5.7	**5.2**	**5.7**
11	IC584586	3.3	2.5	6.4	**4.0**	**5.3**	6.4	5.1	**5.8**	**5.7**
12	IC584787	3.1	2.5	5.0	**3.5**	**5.8**	7.2	6.8	**7.0**	**4.7**
13	AEB(Y)C534-1-1	2.2	3.2	5.0	**3.4**	**2.3**	5.0	6.5	**5.8**	**1.0**

14	AEB(Y)C534-1-2	1.8	3.5	6.0	**3.7**	**6.6**	2.8	5.7	**4.3**	**4.7**
15	AEB(Y)C534-1-3	4.2	3.3	4.8	**4.1**	**3.8**	6.8	5.7	**6.3**	**5.7**
16	AEB(Y)C534-1-4	6.6	3.7	5.3	**5.2**	**5.5**	2.3	6.0	**4.2**	**9.0**
17	AEB(Y)C538-1	5.6	6.5	5.3	**5.8**	**3.8**	4.8	6.0	**5.4**	**4.3**
18	BCK/BC4	4.2	6.2	5.8	**5.4**	**3.9**	4.0	5.4	**4.7**	**5.0**
19	BPT10	5.9	3.9	5.7	**5.2**	**3.5**	5.2	6.3	**5.8**	**5.7**
20	BPT5	3.9	2.9	5.3	**4.0**	**4.4**	6.3	4.8	**5.6**	**4.3**
21	DMR N1	4.3	4.4	5.2	**4.6**	**4.1**	4.0	6.1	**5.1**	**3.3**
22	DMR N3	5.5	6.3	3.0	**4.9**	**4.3**	5.4	4.9	**5.2**	**8.7**
23	EC440414	1.8	3.2	5.8	**3.6**	**7.7**	5.9	5.2	**5.6**	**1.0**
24	EC440612	3.5	6.3	6.0	**5.3**	**5.2**	7.0	6.3	**6.7**	**5.3**
25	EC440623	5.3	6.0	7.8	**6.4**	**5.0**	3.8	6.8	**5.3**	**3.3**
26	EC442714	3.7	3.0	4.8	**3.8**	**5.1**	4.6	5.9	**5.3**	**5.7**
27	EC598465	1.6	3.7	4.6	**3.3**	**4.8**	3.4	5	**4.2**	**3.7**
28	EC618222	3.0	2.7	3.4	**3.0**	**4.0**	2.4	5.1	**3.8**	**3.3**
29	EC646047	2.7	3.2	3.2	**3.0**	**4.3**	8.5	5.6	**7.1**	**3.3**
30	EC656141	3.7	2.8	3.2	**3.3**	**3.9**	7.5	4.3	**5.9**	**5.7**
31	WNZPBTL8	3.6	3.3	3.4	**3.4**	**4.5**	2.8	5.3	**4.1**	**1.0**
32	WNZPBTL9	2.3	3.7	3.6	**3.2**	**4.1**	2.7	4.8	**3.8**	**3.3**
33	CM 500	4.1	4.0	5.2	**4.4**	**4.0**	3.7	3.2	**3.5**	**3.3**
34	CM 300	5.8	2.8	5.7	**4.8**	**4.1**	3.9	7.9	**5.9**	**3.7**
35	DMR E63	8.0	4.3	3.8	**5.4**	**5.4**	2.3	5.0	**3.7**	**4.0**
36	IIMR SBT POOL	4.9	3.3	3.0	**3.7**	**4.5**	2.9	4.2	**3.6**	**3.7**
37	IIMR PBT POOL	4.0	3.5	3.0	**3.5**	**5.3**	3.6	5.1	**4.4**	**4.3**
38	IIMR PBT SYNTHETIC	2.8	3.4	3.1	**3.1**	**4.6**	3.4	4.5	**4.0**	**4.0**
39	KDM 895A	4.4	2.7	7.7	**4.9**	**-**	4.6	5.3	**5.0**	**2.7**
40	KDM 3814	5.6	3.8	5.6	**5.0**	**-**	7.4	5.8	**6.6**	**7.7**
41	KDM 362B	6.5	2.9	7.6	**5.7**	**-**	5.0	6	**5.5**	**7.0**
42	EHQ-64	5.4	3.3	4.6	**4.4**	**-**	2.4	5.4	**3.9**	**7.0**

The underlined figures represent least susceptible germplasm

ET 3: Monitoring of *Helicoverpa armigera* by pheromone traps

DELHI

Date of installation of traps: 5.9.15

Table 3.1a: *Helicoverpa armigera* catch/trap in maize at 50 DAG during Kharif, 2015

Trap No.	ith day (Septmeber, 2015)								nth day (October, 2015)				Total catch/trap
	7	9	11	14	15	19	22	28	1	6	12	18	
1							12	22	18	0	0	2	54
2							2	1	4	0	0	0	7
3	1						1	3	0	0	0	0	14
4							2	1	8	0	0	1	12
Catch/day	1	0	0	0	0	0	17	27	30	0	0	3	

Table 3.1b: Cob infestation during Kharif, 2015

Treatmetn	Total number of cobs observed	No. of infested cobs	Percent incidence	% incidence (mean of 4 repl.)
Pheromone trap	50	23	46	27.5
	50	9	18	
	50	6	12	
	50	17	34	
Control	240	80	34	34
Percent reduction in infestation= 19.12				

KARNAL

Date of installation of traps=27-08-2015

Table 3.2a: *Helicoverpa armigera* catch/trap in maize during Kharif, 2015

Date of observation	No. of *H. armigera* adults trapped	
	Location 1	Location 2
27-08-2015	0	0
03-09-2015	0	0
10-09-2015	4	6
17-09-2015	9	12
24-09-2015	13	11
01-10-2015	0	2
08-10-2015	0	0

KOLHAPUR

Due to long dry spell, the drying of crop started at flowering stage. Hence, no further traps were released. **And hence, the trial may please be treated as vitiated.**

HYDERABAD

Table 3.3a: *Helicoverpa armigera* catch/trap in maize during Kharif, 2015

S.No.	Standard week		Average trapped adults per trap
1	34th	21-27 Aug, 2015	0.58
2	35th	28th Aug to 3rd Sep, 2015	0.33
3	36th	4-10 Sep, 2015	0.31
4	37th	11-17 Sep, 2015	0.06
5	38th	18-24 Sep, 2015	0.39
6	39th	25th Sep to 1st Oct, 2015	0.93

Location: MRC, Rajendranagar Hybrid: DHM 117 DOS: 10.07.2015

Table 3.3b: Cob infestation during Kharif, 2015

Total No. of cobs observed	No. of infested cobs	No. of larvae recovered	Percent incidence	Severity of infestation
1000	5	6	0.5%	120

Note: Cob infestation of *Euproctis* was observed during *Kharif*, 2015.

LUDHIANA

Location 1: Ludhiana
Date of installation of traps: 28.04.15

Table 3.4a: *Helicoverpa armigera* catch/trap in maize

***Helicoverpa armigera* catch per trap in spring sown maize**									
Trap No.	**01-05-2015**	**06-05-2015**	**09-05-2015**	**12-05-2015**	**18-05-2015**	**21-05-2015**	**26-05-2015**	**02-06-2015**	**09-06-2015**
1	15	5	1	1	30	34	14	11	21
2	14	11	16	45	50	56	20	35	12
3	12	10	12	36	40	40	15	30	18
4	18	2	4	68	85	73	58	38	17

5	21	7	19	83	93	68	34	31	20
6	20	7	12	18	54	32	16	21	18
7	14	16	3	52	65	52	10	11	16
8	24	2	1	9	24	20	14	20	15
9	18	3	4	2	18	29	61	34	20
10	17	27	28	26	128	58	52	22	7
11	15	14	14	37	106	34	47	48	19
12	14	8	6	54	86	53	35	26	15
13	63	11	7	9	70	21	40	52	14
14	17	5	8	18	54	34	35	34	13
Mean	**20.14**	**9.14**	**9.64**	**32.71**	**64.50**	**43.14**	**32.21**	**29.50**	**16.07**

Location 2: Bahowal (Hoshiarpur) Date if installation of traps: 02.05.15

Table 3.4a: *Helicoverpa armigera* catch/trap in maize during Spring, 2015

***Helicoverpa armigera* catch per trap in spring sown maize**							
Trap No.	**8-5-15**	**13-5-15**	**18-5-15**	**25-5-15**	**1-6-15**	**8-6-15**	**15-6-15**
1	14	9	22	15	8	6	5
2	22	8	20	19	13	10	5
3	56	45	60	61	32	22	15
4	33	15	32	35	30	18	11
5	13	11	18	11	7	11	5
6	27	21	25	25	15	15	11
7	19	11	22	13	11	8	11
8	45	27	53	45	34	27	15
9	105	89	112	85	55	30	22
10	22	15	32	25	9	6	5
11	110	88	111	100	67	34	22
12	95	79	103	95	55	22	9
13	71	65	79	75	49	25	13
14	112	100	100	111	37	19	15
15	50	43	57	60	27	18	11
16	19	16	28	28	5	8	6
Mean	**50.81**	**40.13**	**54.63**	**47.69**	**28.38**	**17.56**	**11.31**

UDAIPUR

Date of installation of traps: 30.08.2015

Table 3.5a: *Helicoverpa armigera* catch/trap in maize during Kharif, 2015

Met week	Trap-1	Trap-2	Trap-3	No. of cobs infested
I	Nil	Nil	Nil	Total number of cob observed = 500
II	Nil	Nil	Nil	Total number of infested cobs = 34
III	Nil	02	02	Infestation level: 6.8%
IV	05	04	06	

ET 4: Evaluation of biocontrol agents of *Chilo partellus*

Egg and Larval parasitoids

DELHI

Eggs parasitoids of *Chilo partellus*

Cultivars used: HQPM1 and PMH 1
Date of sowing: 30.7.15 Date of germination: 4.8.15
Date of adult release: 18.8.15 Harvesting of plants: 22.8.15

Table 4.1a: Percent incidence and severity of egg parasitoids of *Chilo partellus* on maize during Kharif, 2015

Germplasm	No. of egg masses	No. of egg mass parasitized	Number of parasitoids emerged	Parasitization (%)	Severity of parasitization (%)
HQPM1	3	0	0	0	0
	1	0	0	0	0
	4	0	0	0	0
PMH 1	1	0	0	0	0
	1	0	0	0	0
	8	1 (50 eggs)	14-16	12.5	28-32

Larval Parasitoids of *Chilo partellus*

Sampling from AICRP trials after takinhg LIR observation

Table 4.1b: Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

Date of sampling	Plant age (days)	No. of plant samples	No. of larvae recovered	No. of infested larvae	Parasitization (%)	No. of parasitoids emerged	Parasitoids/larva
31.8.15	42	20	20	16	80	423	26.44
7.9.15	49	25	2	1	50	29	29.00
10.9.15	52	20	2	1	50	14	14.00
15.9.15	57	30	10	2	20	43	21.50
22.9.15	64	30	0	0	0	0	0

KARNAL

Egg parasitization

Germplasm : HQPM 1
Replications : 3
Date of Sowing : 07/07/2015
Date of germination : 12/07/2015

Table 4.2a: Percent incidence and severity of egg parasitoids of *Chilo partellus* on maize during Kharif, 2015

Date of adult released	Date of collection of plants	No of egg masses	No. of eggs	No of eggs hatched	No of parasitoids emerged	Parasitization (%)
R1-22.07.15	25.07.15	9	138	112	0	0
R2-25.07.15	28.07.15	12	192	159	0	0
R3-25.07.15	28.07.15	18	256	211	0	0

Table 4.2b: Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

DAG	No. of plant samples(n)	No. of larvae recovered	No. of infested larvae	No. of parasitoids	Name of parasitoid	Incidence (%)	Severity (%)
40	40	100	13	248	*Cotesia sp.*	7.69	19.08
50	40	38	2	0	-	0	0
60	40	0	0	0	-	0	0

KOLHAPUR

Table 4.3a: Percent incidence and severity of egg parasitoids of *Chilo partellus* on maize during Kharif, 2015

Met. Week	Date of eggs exposed	Date of eggs collection	Parasitization (%)
34	20/08/2015	21/08/2015	Nil
35	27/08/2015	28/08/2015	Nil
36	03/09/2015	04/09/2015	Nil
37	10/09/2015	11/09/2015	Nil
38	17/09/2015	18/09/2015	Nil
39	24/09/2015	25/09/2015	Nil
40	05/10/2015	06/10/2015	Nil

Table 4.3b: Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

Met. Week	Date of observation	No. of larvae from 20 infested plants	Parasitization (%)
34	21/08/2015	19	Nil
35	28/08/2015	10	Nil
36	04/09/2015	13	Nil
37	11/09/2015	08	Nil
38	18/09/2015	09	Nil
39	25/09/2015	05	Nil
40	06/10/2015	04	Nil

HYDERABAD

Hybrid/variety: DHM 117

DOS: 12.08.2015

Date of release of adults: 31.08.2015

Table 4.4a: Percent incidence and severity of egg parasitoids of *Chilo partellus* on maize during Kharif, 2015

Replica-tions	No. of Egg mass	No. of eggs	No. of *Chilo* neonates	No. of parasitoids	Name of the parasitoid	Parasitization (%)
R1	9	270	150	8	*Trichogramma*	2.96%
R2	12	504	302	0	0	0
R3	10	280	174	0	0	0

Table 4.4b: Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

DAG	No. of plant samples	No. of larvae recovered	No. of infested larvae	No. of parasitoids	Name of parasitoid	Incidence (%)
40	40	6	1	5	*Cotesia*	16.7
50	40	4	0	0	0	0
60	40	0	0	0	0	0

LUDHIANA

Table 4.5a: Percent incidence and severity of egg and larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

Date of *C. partellus* adult release	No. of adult release	Date of collection of eggs from field	Mean no of egg masses (number of eggs)	Parasitization (%)	Remarks
25.6.15	20 pairs on 44 plants in each of 3 replication	28.6.15	22 (445)	-	No parasitoid was observed
13.7.15		17.7.15	11 (198)	-	
27.7.15		30.7.15	8.5 (120)	-	
10.8.15		14.8.15	14 (290)	-	
24.8.15		27.8.15	5 (80)	-	

Table 4.5b: Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

Plot No.	Crop stage at collection (DAG)	Date and no. of plants dissected	No. of larvae recovered	No of pupae formed	Larval Parasitization (%)	Remarks
Inbred lines	40	24.7.15 (20)	73	60	Nil	*Cotesia* was present in all the parasitized larvae.
	50	4.8.15 (20)	44	37	Nil	
Tr. No. 75	30	10.8.15 (20)	39	32	7.69	
	40	20.8.15 (15)	21	15	9.52	
Tr. No. 76	40	23.8.15 (10)	18	12	16.67	
	50	2.9.15 (15)	21	14	14.29	
Tr. No. 77-78	50	7.9.15 (20)	27	19	11.11	

* Recovery study of egg parasitoids and identification of larval parasitoids was done in collaboration with Biocontrol unit, Department of Entomology

UDAIPUR

Table 4.6a: Percent incidence and severity of egg parasitoids of *Chilo partellus* on maize during Kharif, 2015

Date of egg masses exposed	Date of collection of eggs from field	Parasitization (%)
01.08.2015	05.08.2015	Nil
04.08.2015	08.08.2015	Nil
05.08.2015	09.08.2015	Nil

Table 4.6b Percent incidence and severity of larval parasitoids of *Chilo partellus* on maize during Kharif, 2015

Days after Germination (DAG)	Date of Dissection of infested plants	No. of larvae recovered from 20 plants	Larval parasitization (%)
40	30.08.2015	46	10.9
50	09.09.2015	12	8.3
60	19.09.2015	6	0
70	29.09.2015	0	0

ET 5: Evaluation of insecticides against maize stem borers

DELHI

Germplasm used : HQPM1

Treatments : 9 Replications : 3

Date of sowing : 20.7.15 Date of germination : 24.7.15

Date of infestation : 18.8.15 Date of spray : 21.8.15

Datecof observation : 8.9.15 Date of harvesting : 27.10.15

Table 5.1: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) and grain yield (at 14% moisture) during Kharif, 2015

Insecticide	Insecticide efficacy parameters	
	Av. LIR	Av. yield (t/ha)
Chlorantraniliprole 20 SC @ 0.3ml/l	1.12 ±0.18	15.8 ±3.83
Chlorantraniliprole 20 SC @ 0.4ml/l	1.57 ±0.98	29.1 ±19.16
Flubendiamide 480 SC @ 0.1ml/l	1.19 ±0.20	34.5 ±15.54
Flubendiamide 480 SC @ 0.2ml/l	2.18 ±0.98	34.1 ±14.35
Novaluron 10EC @0.75ml/l	1.99 ±0.72	36.8 ±9.14
Novaluron 10EC @1.0ml/l	1.55 ±0.90	41.5 ±7.39
Deltamethrin 2.8EC @ 0.4ml/l	1.10 ±0.09	32.6 ±14.45
Deltamethrin 2.8EC @ 0.8ml/l	1.31 ±0.49	28.8 ±9.04
Control	1.92 ±0.83	34.3 ±7.28

KARNAL

Name of Germplasm : HQPM 1
Date of Sowing : 20/07/15
Date of Germination : 25/07/15
Date of Spray : 08/08/15
Date of LIR Observation : 31/08/15
Date of Harvesting : 23/10/15

Table 5.2: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) and grain yield (at 14% moisture) during Kharif, 2015

Sl. No	Treatments	Mean Leaf Injury Rating	Grain yield Q/ha
1	Chlorantraniliprole 20 SC @ 0.3ml/l	2.51	54.60
2	Chlorantraniliprole 20 SC @ 0.4ml/l	2.34	57.25
3	Flubendiamide 480 SC @ 0.1ml/l	2.42	53.85
4	Flubendiamide 480 SC @ 0.2ml/l	2.39	56.80
5	Novaluron 10EC @0.75ml/l	3.25	51.78
6	Novaluron 10EC @1.0ml/l	3.19	53.10
7	Deltamethrin 2.8EC @ 0.4ml/l	3.04	53.45
8	Deltamethrin 2.8EC @ 0.8ml/l	2.72	54.25
9	Control	5.95	45.58
	CD (P=0.05%)	0.39	5.29
	CV (%)	4.86	5.54

KOLHAPUR

Table 5.3: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) and grain yield

Sr. No.	No. of Treatments	Date of sowing	Date of germination	Date of 1st spraying*	Date of infestation	Date of 2nd spraying
1	09	28/08/2015	04/09/2015	14/09/2015	16/09/2015	18/09/2015

(at 14% moisture) during Kharif, 2015

Treatments	Treatment details	Mean LIR	Grain Yield (q/ha)
T_1	Chlorantraniliprole 20 SC @ 0.3ml/l	3.55	Due to long dry spell, data on grain yield has not been obtained.
T_2	Chlorantraniliprole 20 SC @ 0.4ml/l	3.44	
T_3	Flubendiamide 480 SC @ 0.1ml/l	3.30	
T_4	Flubendiamide 480 SC @ 0.2ml/l	3.15	
T_5	Novaluron 10EC @0.75ml/l	3.92	
T_6	Novaluron 10EC @1.0ml/l	3.90	
T_7	Deltamethrin 2.8EC @ 0.4ml/l	4.02	
T_8	Deltamethrin 2.8EC @ 0.8ml/l	4.12	
T_9	Control	5.01	

Trial may please be treated as vitiated.

HYDERABAD

Variety/hybrid : DHM 117
Date of Sowing : 22.07.2015
Date of Infestation : 11.08.2015
Sprayed insecticides two days after infestation and recorded LIR at 25 days after infestation

Table 5.4: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) during Kharif, 2015

S.No.	Treatments / insecticide	Mean LIR
1.	Chlorantraniliprole 20 SC @ 0.3ml/l	2.07
2.	Chlorantraniliprole 20 SC @ 0.4ml/l	2.17
3.	Flubendiamide 480 SC @ 0.1ml/l	2.40
4.	Flubendiamide 480 SC @ 0.2ml/l	1.87
5.	Novaluron 10EC @0.75ml/l	2.67
6.	Novaluron 10EC @1.0ml/l	2.70
7.	Deltamethrin 2.8EC @ 0.4ml/l	2.77
8.	Deltamethrin 2.8EC @ 0.8ml/l	2.43
9.	Control	4.67

LUDHIANA

Table 5.5: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) and grain yield (at 14% moisture) during Kharif, 2015

Insecticide	Leaf injury before spray (%)	Incidence 1 week after spray		Incidence 3 week after spray		Grain Yield (q/ha)
		Leaf injury	Dead heart	Leaf injury	Dead heart	
Chlorantraniliprole 20 SC @ 0.3ml/l	17.69 (24.83)	11.88 (20.15)	2.26 (8.50)	7.93 (16.31)	3.84 (10.89)	49.63
Chlorantraniliprole 20 SC @ 0.4ml/l	18.90 (25.64)	7.26 (15.60)	0.56 (2.47)	4.69 (12.51)	1.64 (7.35)	54.40
Flubendiamide 480 SC @ 0.1ml/l	20.81 (26.95)	11.86 (19.87)	1.62 (7.30)	7.71 (15.97)	2.68 (9.32)	52.92
Flubendiamide 480 SC @ 0.2ml/l	20.77 (26.90)	8.77 (17.00)	0.54 (2.43)	9.64 (18.05)	1.50 (7.02)	56.34
Novaluron 10EC @0.75ml/l	19.86 (26.27)	13.10 (21.19)	1.66 (7.40)	11.94 (20.19)	5.98 (14.12)	50.88
Novaluron 10EC @1.0ml/l	19.45 (25.89)	11.93 (20.13)	0.56 (2.47)	7.98 (16.35)	1.67 (7.42)	54.81
Deltamethrin 2.8EC @ 0.4ml/l	18.76 (25.53)	20.27 (20.69)	2.22 (8.45)	17.74 (24.74)	6.59 (14.83)	48.75
Deltamethrin 2.8EC @ 0.8ml/l	15.41 (23.10)	13.05 (20.99)	0.54 (2.43)	10.16 (17.74)	2.50 (9.01)	53.33

Neem	20.80 (27.09)	13.38 (21.43)	3.29 (10.18)	13.04 (21.14)	6.29 (14.39)	47.59
Control	22.62 (28.28)	34.98 (36.21)	9.44 (17.71)	30.91 (33.71)	19.90 (26.44)	39.40
	(NS)	(4.55)	(5.34)	(5.12)	(3.32)	7.85

The figures in parentheses are angular transformed values

UDAIPUR

Season: Kharif 2015
Variety/ germplasms: Pratap makka-5
Date of Germination: 07/08/2015
Date of release of pest: 19/08/2015
Replications: 3
Date of Sowing: 30/07/2015
Date of Spraying: 21/08/2015
Date of Observation: 13/09/2015

Table 5.6: Efficacy of insecticides against *Chilo partellus* in terms of LIR (1-9 scale) during Kharif, 2015

S.No.	Treatments	Mean LIR
1	Chlorantraniliprole 20 SC @ 0.3ml/l	2.73
2	Chlorantraniliprole 20 SC @ 0.4ml/l	2.80
3	Flubendiamide 480 SC @ 0.1ml/l	2.53
4	Flubendiamide 480 SC @ 0.2ml/l	2.26
5	Novaluron 10EC @0.75ml/l	3.53
6	Novaluron 10EC @1.0ml/l	5.46
7	Deltamethrin 2.8EC @ 0.4ml/l	3.20
8	Control	7.86

VI. Evaluation of maize inbred lines under natural infestation against Shoot fly, *Atherigona Spp.*duirng spring , 2015

Table 6.1: Evaluation of maize inbred lines against shoot fly, *Atherigona soccata Rand* under natural condition at IIMR, Delhi during spring 2015.

S.No.	Entry	% dead hearts	S.No.	Entry	% dead hearts
SF1	WNZ EXOTIC POOLDC2	0	SF37	CML49	0
SF2	V 351	0	SF38	CML491	0
SF3	97P65BBB26B	NG	SF39	CML50	0
SF4	AEB(Y)1	0	SF40	CML55BB	20
SF5	AEB(Y)2SELECTION	0	SF41	CML73	0
SF6	AEB(Y)C534-1	0	SF42	EC4400414	0
SF7	AEB(Y)C538-1	8.33	SF43	EC598464	11.11
SF8	BASILOCAL SELECTION	0	SF44	HKI2-6-2-4	0
SF9	BCK/BC2	20	SF45	EC672591	0
SF10	BCK/BC8	0	SF46	G15QC7BBB6BBB	0
SF11	BML14	18.18	SF47	G18QC8-36	0
SF12	CHINA8	0	SF48	HKI1105	0
SF13	CLQRCWQ02B6	50	SF49	HKI209	7.69
SF14	CLQRCYQ42	8.33	SF50	HKI287	0
SF15	CLQRCYQ47B	0	SF51	HKI326-3	0
SF16	CM115	0	SF52	JCS789CH1	0
SF17	CM117	0	SF53	JCS796CH8	11.11
SF18	CM117-3-4-1	0	SF54	P390AM/CMLC4 F230B2-1-2-2BBB	33.33
SF19	CM118	0	SF55	P63C2BBB17B	23.07
SF20	CM142	9.09	SF56	PFSR/51016-1	14.29
SF21	CM501	20	SF57	S01slyqBBB13B	11.11
SF22	CML162	0	SF58	S87P66QBBB30	16.67
SF23	CML23	15.38	SF59	WS2	23.07
SF24	CML261	0	SF60	High OilQPMc13BBB66BB	7.14
SF25	CML292	0	SF61	HKI164-3-(2-1)-1	66.67
SF26	CML298	20	SF62	HKI170(1+2)	0
SF27	CML312	25	SF63	CUBA378	0
SF28	CML336	7.69	SF64	DMSC28	14.29
SF29	CML338	0	SF65	HKI 1831	0
SF30	CML420	0	SF66	Sweet Corn Synthetic	40

SF31	CML481	0	SF67	HKIPCBT3	0
SF32	CML485BBB	0	SF68	Winpop8	0
SF33	AEBY (1)	0	SF69	AEBY(1)	0
SF34	BML 7	30	SF70	BML 7	0
SF35	**CM 140**	0	SF71	**CM 140**	30
SF36	**CM 500**	30	SF72	**CM 500**	0

Table 6.2: **Screening of maize inbred lines against shoot fly, *Atherigona naqvii* under natural condition using fish meal technique at PAU, Ludhiana during spring 2015.**

Experimental detail

Date of sowing : 10.2.15
Date of germination: 28.2.15
No. of replication: 1
No. of entries : 72
Plot size : 1 row
Row length : 2.5 m
Spacing : 60 x 20 cm

Plot No.	Entry	Incidence (%) of shoot fly after			
		14 days of germination		21 days of germination	
		Leaf injury	Dead hearts	Leaf injury	Dead hearts
SF1	WNZ EXOTIC POOLDC2	27.27	9.09	18.18	27.27
SF2	PFSR 5106/1	30.00	10.00	40.00	20.00
SF3	97P65BBB26B	**NG**	**NG**	**NG**	**NG**
SF4	AEB(Y)1	36.36	18.18	27.27	36.36
SF5	WNCDMR11R3214	27.27	9.09	36.36	18.18
SF6	AEB(Y)C534-1	40.00	20.00	30.00	40.00
SF7	AEB(Y)C538-1	30.00	10.00	30.00	30.00
SF8	BASILOCAL SELECTION	36.36	18.18	27.27	36.36
SF9	BCK/BC2	42.86	14.29	28.57	42.86
SF10	BCK/BC8	11.11	11.11	22.22	22.22
SF11	BML14	25.00	16.67	25.00	33.33
SF12	CHINA8	30.00	10.00	20.00	30.00
SF13	CLQRCWQ02B6	18.18	9.09	18.18	27.27
SF14	CLQRCYQ42	33.33	16.67	25.00	33.33
SF15	CLQRCYQ47B	27.27	9.09	27.27	27.27
SF16	CM115	33.33	22.22	22.22	33.33
SF17	CM117	33.33	22.22	22.22	44.44
SF18	CM117-3-4-1	30.00	10.00	20.00	40.00
SF19	CM118	36.36	18.18	18.18	36.36
SF20	CM142	25.00	8.33	16.67	33.33

SF21	CM501	40.00	10.00	30.00	30.00
SF22	CML162	22.22	22.22	22.22	33.33
SF23	CML23	30.00	20.00	20.00	40.00
SF24	CML261	22.22	11.11	22.22	33.33
SF25	CML292	22.22	22.22	22.22	33.33
SF26	CML298	18.18	9.09	18.18	27.27
SF27	CML312	40.00	20.00	30.00	40.00
S28	CML336	36.36	9.09	18.18	36.36
SF29	CML338	33.33	25.00	16.67	41.67
SF30	CML420	16.67	8.33	16.67	16.67
SF31	CML481	27.27	27.27	18.18	45.45
SF32	CML485BBB	20.00	20.00	20.00	30.00
SF33	AEBY (1)	22.22	22.22	22.22	22.22
SF34	BML 7	27.27	27.27	18.18	36.36
SF35	CML49	16.67	16.67	16.67	16.67
SF36	CM 500	30.00	10.00	20.00	30.00
SF37	CML49	10.00	10.00	10.00	20.00
SF38	CML491	33.33	16.67	16.67	33.33
SF39	CML50	14.29	28.57	14.29	28.57
SF40	CML55BB	33.33	22.22	33.33	33.33
SF41	CML73	25.00	16.67	16.67	33.33
SF42	EC4400414	33.33	8.33	25.00	25.00
SF43	EC598464	22.22	22.22	22.22	33.33
SF44	HKI2-6-2-4(1-2)-4	18.18	9.09	18.18	18.18
SF45	EC672591	30.00	20.00	20.00	30.00
SF46	G15QC7BBB6BBB	44.44	33.33	22.22	55.56
SF47	G18QC8-36	25.00	25.00	25.00	25.00
SF48	HKI1105	33.33	11.11	22.22	33.33
SF49	HKI209	**NG**	**NG**	**NG**	**NG**
SF50	HKI287	27.27	27.27	18.18	36.36
SF51	HKI326-3	30.00	20.00	20.00	30.00
SF52	JCS789CH1	27.27	9.09	18.18	27.27

SF53	JCS796CH8	**NG**	**NG**	**NG**	**NG**
SF54	P390AM/CMLC4 F230B2-1-2-2BBB	33.33	22.22	22.22	33.33
SF55	P63C2BBB17B	16.67	16.67	16.67	25.00
SF56	PFSR/51016-1	33.33	22.22	11.11	44.44
SF57	S01slyqBBB13B	20.00	20.00	10.00	30.00
SF58	S87P66QBBB30	27.27	18.18	9.09	27.27
SF59	WS2	18.18	18.18	0.00	36.36
SF60	High OilQPMc13BBB66BB	16.67	16.67	16.67	25.00
SF61	HKI164-3-(2-1)-1	30.00	20.00	20.00	30.00
SF62	HKI170(1+2)	18.18	18.18	18.18	27.27
SF63	CUBA378	25.00	12.50	12.50	25.00
SF64	DMSC28	25.00	12.50	25.00	12.50
SF65	HKI 1831	11.11	22.22	11.11	22.22
SF66	Sweet Corn Synthetic	22.22	22.22	22.22	33.33
SF67	HKIPCBT3	22.22	11.11	22.22	22.22
SF68	Winpop8	9.09	9.09	9.09	18.18
SF69	AEBY(1)	10.00	20.00	20.00	20.00
SF70	BML 7	30.00	20.00	20.00	40.00
SF71	CM 140	14.29	14.29	28.57	28.57
SF72	CM 500	25.00	25.00	25.00	25.00

BIOCHEMISTRY

BIOCHEMISTRY

Maize is the third most important cereal widely utilized as a food for a large segment of Indian population particularly residing in Rajasthan, Behar, Bengal, Gujarat, Hill States, Madhya Pradesh, Chhattisgarhi etc. Although a coarse cereal but still it occupies third place after wheat and rice in terms of human nutrition. Starch is the major nutritional component of maize kernel constituting about 70 % of its kernel weight. In fact maize is one of the most important natural multiplier of starch. Maize provides about 2-4 % of oil which is rich in essential fatty acids making it highly suitable for human consumption. Yellow maize is also a rich source of provitamin A as well as anti-oxidants such as β-carotene, α-carotene, cryptoxanthene, zeaxanthene and lutein etc. However, in spite of widespread adoption, the nutritional quality of maize protein is poor due to the deficiency of two essential amino acids viz; tryptophan and lysine. The discovery of association of *opaque*-2 gene with lysine and tryptophan in 1964 opened up new vistas in improving maize protein quality and as a result leading research centres across the world incorporated *opaque-2* gene in their elite germplasm and subsequently developed nutritionally improved *opaque*-2 maize with enhanced lysine content. However, the *opaque*-2 maize possesses some negative effects as its endosperm is soft and chalky and is susceptible to insect and pest infestation. The *opaque*-2 maize was further improved for its agronomic characteristics and is transformed to the present day quality protein maize (QPM). QPM refers to maize homozygous for the *opaque*-2 allele, with increased lysine and tryptophan concentrations and having hard or vitreous endosperm. QPM development requires precise biochemical analysis in order to identify suitable germplasm possessing the threshold concentration of protein quality along with required kernel characteristics. The biochemistry laboratory of Indian Institute of Maize Research is the central analytical facility which helps in developing nutritionally improved maize, particularly, quality protein maize (QPM) cultivars across India. The laboratory facilitates the biochemical analysis of maize germplasm received from IIMR as well as maize centres of the coordinating unit of ICAR and State Agricultural Universities. The laboratory is well equipped with state of the art instruments such as Ultra Performance Liquid Chromatography (UPLC), automated geltech, automatic solvent extractor system, vacuum concentrator, lypholyzer, NIRT, double beam spectrophotometer, fermenter, polarimeter, etc. The laboratory meets the requirement for analysis of various biochemical parameters such as protein quality (protein, tryptophan and lysine), carbohydrate profile (starch, sugar, amylose and amylopectin), oil, carorenoids etc. across India.

During the period of 2015–2016 a large number of maize germplasm received under QPM breeding programme of AICRP as well as the QPM strengthening programe of AICRP centres were analyzed for protein quality. Maize samples received from IIMR are also analyzed for protein quality as well as other quality parameters as desired. The detailed quality analysis is discussed as below.

EVALUATION OF MAIZE GERMPLASM RECEIVED UNDER AICRP QPM PROGRAMME

Samples received from different centres under coordinated QPM breeding programme were analyzed for protein quality viz: protein, tryptophan, 100 kernel weight and specific gravity. In this programme samples were received from zone I (VPKAS Almora, Bajaura), zone II (Karnal),

Zone III (Dholi) and zone V (Udaipur and Godhra) were analyzed for protein quality under QPM breeding programme of AICRP. No opaqueness was observed in the samples received from Dholi center, therefore, were found unsuitable for biochemical analysis analysis. Varying degree of opaqueness was observed in all the samples analyzed.

Evaluation of protein content of maize germplasm

The kernels were screened on the basis of opaqueness to select the representative sample. The endosperm was separated, defatted and processed for protein quality. Variability for protein content was observed amongst different centres. Maximum protein content was observed from the samples received from VPKAS, Almora. Some of the genotypes like IMR 414 and IMR 429 performed exceptionally well throughout the locations. The detailed data is presented in Table 1.

Table 1: Protein content of maize germplasm received under coordinated QPM breeding programme

S. No.	Pedigree	Protein (%)					Mean value	Range
		Karnal	Udaipur	Almora	Godhra	Bajaura		
1	IMR 410	9.61	7.56	7.33	10.11	7.11	8.34	7.11-10.11
2	IMR 411	8.74	8.53	8.05	8.83	8.07	8.44	8.05-8.83
3	IMR 412	7.58	7.11	7.25	9.21	8.09	7.85	7.11-8.09
4	IMR 413	7.78	8.21	8.40	7.82	7.35	7.91	7.35-8.40
5	IMR 414	9.17	10.45	8.55	9.30	11.29	9.75	8.55-11.29
6	IMR 415	7.18	7.94	7.45	8.00	7.05	7.52	7.05-8.00
7	IMR 416	9.73	9.08	9.29	9.93	8.36	9.28	8.36-9.93
8	IMR 417	8.38	9.58	7.56	11.17	7.10	8.76	7.12-11.17
9	IMR 418	7.70	10.55	7.01	10.91	7.13	8.66	7.01-10.91
10	IMR 419	10.55	10.33	7.81	8.38	7.01	8.82	7.01-10.55
11	IMR 420	7.67	10.16	7.04	7.86	8.80	8.301	7.04-10.16
12	IMR 421	10.57	9.72	7.21	9.50	7.71	8.94	7.21-10.57
13	IMR 422	9.68	10.43	7.70	8.14	8.01	8.79	7.70-10.43
14	IMR 423	9.65	9.95	7.84	7.65	8.50	8.720	7.65-9.95
15	IMR 424	8.03	10.15	10.34	10.22	7.20	9.19	7.2-10.34
16	IMR 425	7.00	7.1	7.17	8.28	6.94	7.30	7.00-8.28
17	IMR 426	10.47	12.45	7.03	9.30	7.09	9.27	7.03-12.45
18	IMR 427	8.39	9.87	7.22	9.72	7.76	8.59	7.22-9.87

19	IMR 428	7.83	12.35	8.84	8.57	7.14	8.95	7.14-12.35
20	IMR 429	10.07	10.21	7.47	11.87	9.17	9.76	7.47-11.87
21	IMR 430	7.53	10.75	11.01	10.02	7.92	9.45	7.53-11.01
22	IMR 431	8.36	11.58	7.42	8.85	7.38	8.72	7.38-11.58
23	IMR 432	10.39	10.12	9.08	8.42	8.14	9.23	8.14-10.39
24	IMR 433	9.86	11.65	7.69	8.46	7.03	8.94	7.03-11.65
25	IMR 434	7.46	10.07	7.02	11.29	6.63	8.49	7.02-11.29
26	IMR 435	7.94	10.73	7.07	9.12	7.09	8.39	7.07-10.73
27	IMR 436	8.59	10.21	7.72	9.82	10.44	9.35	7.72-10.21
28	IMR 437	8.23	9.03	7.02	7.68	12.97	8.986	7.02-12.97
29	IMR 438	8.54	10.16	7.59	10.11	8.08	8.90	7.59-10.16
30	IMR 439	7.55	8.23	7.22	8.50	7.63	7.83	7.2-8.50
31	IMR 440	9.78	12.04	7.97	10.35	7.00	9.43	7.00-12.04
32	IMR 441	9.36	10.03	7.11	7.55	8.96	8.60	7.11-10.03
33	IMR 442	8.73	10.34	7.68	8.44	7.01	8.44	7.01-10.34
34	IMR 443	8.53	10.77	8.86	9.18	7.01	9.19	7.01-10.77
35	IMR 444	7.30	10.06	7.11	7.19	8.30	7.99	7.11-10.06
36	IMR 445	7.42	11.22	7.15	-	7.64	8.36	7.15-11.22
37	IMR 446	7.49	11.15	7.20	7.99	8.70	8.51	7.20-11.15
38	IMR 447	9.17	9.51	7.79	9.04	7.01	8.50	7.01-9.51
39	IMR 448	7.22	10.19	7.73	8.07	9.75	8.59	7.22-10.19
Mean		8.60	9.99	7.79	9.075	8.03	8.69	7.79-9.99
Range		7.00-10.57	7.1-12.45	7.01-11.01	7.19-11.87	6.63-12.97	7.30-9.76	

Evaluation of tryptophan content of maize germplasm

As already discussed normal maize is deficient in two essential amino acids such as lysine and tryptophan. Lysine is the first limiting amino acid and tryptophan is second. Protein quality of maize is assessed through the estimation of tryptophan due to the accuracy and ease in analyzing this amino acid. The tryptophan content in normal maize ranges between 0.3-0.6 % of endosperm protein whereas in QPM the values are almost double (0.6 – 1.1 %) as compared to normal maize. Varying levels of tryptophan were observed among different locations. The mean values of tryptophan are far below the threshold concentration (0.6%) across all the locations

except VPKAS Almora. At Almora 24 out of 39 genotypes exhibited the desired tryptophan content. It seems that crop was properly handled at the above said center only. However, some of the genotypes like IMR 421 and IMR 425 performed better across the locations in terms of tryptophan content. The data is presented in Table 2.

Table 2: Tryptophan content of maize germplasm received under coordinated QPM breeding programme

S. No.	Pedigree	Tryptophan (% of endosperm protein)					Mean value	Range
		Karnal	Udaipur	Almora	Godhra	Bajaura		
1	IMR 410	0.38	0.44	0.53	0.44	0.48	0.45	0.38-0.48
2	IMR 411	0.57	0.45	0.61	0.48	0.47	0.52	0.45-0.61
3	IMR 412	0.51	0.48	0.77	0.41	0.42	0.52	0.41-0.77
4	IMR 413	0.45	0.60	0.65	0.48	0.46	0.53	0.45-0.65
5	IMR 414	0.35	0.42	0.42	0.38	0.46	0.41	0.35-0.46
6	IMR 415	0.53	0.52	0.71	0.42	0.66	0.57	0.42-0.71
7	IMR 416	0.38	0.43	0.50	0.39	0.46	0.43	0.38-0.50
8	IMR 417	0.54	0.51	0.74	0.41	0.55	0.55	0.41-0.74
9	IMR 418	0.48	0.38	0.54	0.36	0.47	0.45	0.36-0.54
10	IMR 419	0.31	0.34	0.57	0.47	0.48	0.43	0.31-0.57
11	IMR 420	0.45	0.37	0.53	0.46	0.37	0.44	0.37-0.53
12	IMR 421	0.43	0.62	0.85	0.46	0.59	0.59	0.43-0.85
13	IMR 422	0.39	0.42	0.49	0.60	0.45	0.47	0.42-0.60
14	IMR 423	0.34	0.60	0.80	0.73	0.39	0.57	0.34-0.83
15	IMR 424	0.48	0.79	0.61	0.50	0.47	0.57	0.48-0.79
16	IMR 425	0.66	0.55	0.71	0.73	0.47	0.62	0.47-0.73
17	IMR 426	0.45	0.48	0.64	0.44	0.48	0.50	0.44-0.64
18	IMR 427	0.47	0.43	0.52	0.42	0.44	0.46	0.42-0.52
19	IMR 428	0.46	0.49	0.48	0.45	0.48	0.47	0.45-0.49
20	IMR 429	0.41	0.47	0.56	0.37	0.36	0.43	0.36-0.56
21	IMR 430	0.49	0.46	0.45	0.36	0.50	0.45	0.36-0.50

22	IMR 431	0.51	0.42	0.63	0.62	0.42	0.52	0.42-0.63
23	IMR 432	0.49	0.61	0.62	0.49	0.46	0.53	0.46-0.62
24	IMR 433	0.46	0.38	0.66	0.48	0.63	0.52	0.38-0.63
25	IMR 434	0.61	0.43	0.63	0.43	0.62	0.54	0.43-0.63
26	IMR 435	0.46	0.44	0.57	0.49	0.43	0.48	0.43-0.57
27	IMR 436	0.44	0.41	0.54	0.46	0.42	0.45	0.42-0.54
28	IMR 437	0.48	0.48	0.66	0.49	0.35	0.49	0.35-0.66
29	IMR 438	0.55	0.47	0.66	0.40	0.40	0.50	0.40-0.66
30	IMR 439	0.62	0.61	0.68	0.42	0.47	0.56	0.42-0.68
31	IMR 440	0.39	0.36	0.61	0.38	0.45	0.44	0.36-0.61
32	IMR 441	0.50	0.47	0.76	0.43	0.60	0.55	0.43-0.76
33	IMR 442	0.40	0.42	0.65	0.45	0.48	0.48	0.40-0.65
34	IMR 443	0.42	0.49	0.53	0.42	0.79	0.53	0.42-0.79
35	IMR 444	0.47	0.40	0.58	0.53	0.47	0.49	0.40-0.58
36	IMR 445	0.52	0.36	0.63	-	0.61	0.53	0.36-0.63
37	IMR 446	0.47	0.46	0.74	0.70	0.50	0.57	0.46-0.74
38	IMR 447	0.40	0.48	0.66	0.37	0.47	0.48	0.37-0.66
39	IMR 448	0.68	0.55	0.65	0.45	0.44	0.55	0.44-0.68
Mean		0.47	0.47	0.62	0.47	0.49	0.50	0.47-0.62
Range		0.31-0.68	0.34-0.79	0.42-0.85	0.36-0.73	0.35-0.79	0.41-0.62	

Evaluation of 100 kernel weight and specific gravity of maize germplasm

Kernel weight and specific gravity are other important parameters in QPM breeding as they signify kernel hardness and density respectively. The earlier improvements in protein quality of maize (opaque-2 maize) are associated with poor kernel appearance. Opaque-2 maize is soft and chalky and therefore susceptible to insect and pest infestation. The development of quality protein maize required the kernel to hard, vitreous and dense. Table 3 presents the 100 kernel weight values of genotypes under evaluation across different locations. Wide variability in kernel weight of individual genotypes has been observed across locations, although, the little difference has been observed in the mean values across locations.

Table 3: 100 kernel weight of maize germplasm received under coordinated QPM breeding programme

S. No.	Pedigree	100 kernel weight					Mean value	Range
		Karnal	Udaipur	Almora	Godhra	Bajaura		
1	IMR 410	29.17	24.99	19.64	23.30	36.70	26.76	19.64-36.7
2	IMR 411	18.08	20.60	17.50	20.40	39.80	23.28	17.50-39.80
3	IMR 412	27.12	25.18	22.02	36.80	26.40	27.50	22.02-36.80
4	IMR 413	25.32	25.79	23.06	29.20	22.60	25.19	22.60-29.20
5	IMR 414	18.59	38.73	25.91	22.60	24.10	25.99	18.59-38.73
6	IMR 415	25.44	30.99	24.50	21.30	26.10	25.67	21.30-30.99
7	IMR 416	23.26	31.86	18.49	20.80	25.20	23.92	18.49-31.86
8	IMR 417	25.46	26.33	24.42	27.20	31.50	26.98	24.42-31.50
9	IMR 418	24.22	33.39	25.65	24.10	22.20	25.91	22.20-33.39
10	IMR 419	23.00	36.46	28.56	24.40	38.50	30.18	23.00-38.50
11	IMR 420	28.35	20.00	23.18	18.90	30.30	24.15	18.90-30.30
12	IMR 421	23.84	21.45	16.38	20.10	26.80	21.71	16.38-26.80
13	IMR 422	34.02	31.90	30.19	20.90	32.60	29.92	20.90-34.02
14	IMR 423	24.79	24.68	21.38	19.90	31.90	24.53	19.90-31.90
15	IMR 424	15.66	26.02	25.38	19.40	26.50	22.59	15.66-26.50
16	IMR 425	20.47	20.44	31.42	12.17	37.90	24.48	12.17-37.90
17	IMR 426	28.48	33.64	19.72	32.50	25.40	27.95	19.72-33.64
18	IMR 427	30.07	30.19	28.32	29.80	27.70	29.22	27.70-30.19
19	IMR 428	23.97	23.52	19.80	29.10	26.80	24.64	19.80-29.10
20	IMR 429	17.97	30.45	27.75	19.70	29.50	25.07	17.97-30.45
21	IMR 430	24.61	33.52	35.21	24.70	32.10	30.03	24.61-35.21
22	IMR 431	21.38	21.82	21.00	16.50	28.10	21.76	16.50-28.10
23	IMR 432	22.12	19.80	21.89	15.50	29.09	21.68	15.50-29.09
24	IMR 433	22.11	23.80	18.04	15.60	25.80	21.07	15.60-25.80

25	IMR 434	20.38	27.34	23.28	32.70	24.80	25.70	20.38-32.70
26	IMR 435	21.18	32.77	23.52	19.06	25.70	24.45	19.06-32.77
27	IMR 436	25.57	23.76	28.68	22.70	30.00	26.14	22.70-30.00
28	IMR 437	25.68	22.05	20.81	18.30	27.40	22.85	18.30-27.40
29	IMR 438	18.47	23.62	20.04	22.10	25.90	22.03	18.47-25.90
30	IMR 439	22.38	24.38	20.38	22.20	34.70	24.81	20.38-34.70
31	IMR 440	25.42	32.40	27.09	25.80	32.70	28.68	25.42-32.70
32	IMR 441	27.12	29.26	22.23	32.60	20.60	26.36	20.60-32.60
33	IMR 442	26.15	28.72	13.23	24.70	34.00	25.36	13.23-34.00
34	IMR 443	22.16	32.28	29.05	22.50	29.20	27.04	22.16-32.28
35	IMR 444	19.04	28.25	24.62	15.30	31.20	23.68	15.30-31.20
36	IMR 445	21.72	26.38	18.93	----	29.60	24.16	18.93-29.60
37	IMR 446	19.50	28.44	18.79	22.10	27.70	23.31	18.79-28.44
38	IMR 447	25.45	25.77	18.96	31.80	29.70	26.34	18.96-31.80
39	IMR 448	26.45	24.32	24.13	24.40	31.40	26.14	24.13-31.40
Mean		23.70	27.32	23.16	23.19	29.18	25.31	23.16-29.18
Range		15.66-34.02	19.80-38.73	13.23-35.21	12.17-36.80	20.60-39.80	21.07-30.18	

The data in Table 4 presents the specific gravity values of experimental genotypes across different locations. Variation in specific gravity has been observed within locations. It is noted that genotypes grown at Almora exhibited least specific gravity as compared to others.

Table 4: Specific gravity of maize germplasm received under coordinated QPM breeding programme

S. No.	**Pedigree**	**Specific gravity**					**Mean value**	**Range**
		Karnal	**Udaipur**	**Almora**	**Godhra**	**Bajaura**		
1	IMR 410	1.21	1.24	1.40	1.16	1.22	1.25	1.21-1.40
2	IMR 411	1.29	1.28	0.97	1.27	1.24	1.21	0.97-1.29
3	IMR 412	1.13	1.25	1.10	1.22	1.11	1.16	1.10-1.25

4	IMR 413	1.26	1.07	1.15	1.32	1.13	1.19	1.07-1.26
5	IMR 414	1.32	1.21	1.29	1.13	1.20	1.23	1.13-1.32
6	IMR 415	1.27	1.29	1.22	1.06	1.18	1.20	1.06-1.29
7	IMR 416	1.16	1.22	1.07	1.15	1.05	1.13	1.07-1.22
8	IMR 417	1.27	1.31	1.22	1.23	1.21	1.25	1.21-1.31
9	IMR 418	1.10	1.66	1.16	1.20	1.23	1.27	1.10-1.66
10	IMR 419	1.15	1.21	1.42	1.10	1.28	1.23	1.10-1.42
11	IMR 420	1.22	1.11	1.15	1.18	1.26	1.18	1.11-1.26
12	IMR 421	1.12	1.07	1.17	1.25	1.34	1.19	1.07-1.34
13	IMR 422	1.30	1.22	1.25	1.04	1.24	1.21	1.04-1.30
14	IMR 423	1.23	1.23	1.50	0.99	1.22	1.23	0.99-1.50
15	IMR 424	1.11	1.18	1.05	1.21	1.20	1.15	1.05-1.21
16	IMR 425	1.13	1.13	1.20	0.76	1.18	1.08	0.76-1.20
17	IMR 426	1.29	1.20	0.98	1.25	1.27	1.20	0.98-1.29
18	IMR 427	1.25	1.50	1.10	1.14	1.38	1.27	1.10-1.50
19	IMR 428	1.93	1.17	1.10	1.11	1.03	1.27	1.03-1.93
20	IMR 429	1.28	1.08	1.15	0.75	1.34	1.12	0.75-1.34
21	IMR 430	1.11	1.19	1.76	1.12	1.23	1.28	1.11-1.76
22	IMR 431	1.06	1.09	1.05	1.17	1.27	1.13	1.05-1.27
23	IMR 432	1.10	0.99	1.09	1.29	1.24	1.14	0.99-1.29
24	IMR 433	1.10	1.19	1.50	1.30	1.29	1.28	1.10-1.50
25	IMR 434	1.27	1.24	1.16	1.25	1.24	1.23	1.16-1.27
26	IMR 435	1.51	1.48	1.17	1.19	1.28	1.33	1.17-1.51
27	IMR 436	1.16	1.18	1.43	1.26	1.25	1.26	1.16-1.43
28	IMR 437	1.28	1.10	1.15	1.30	1.24	1.21	1.10-1.30
29	IMR 438	1.15	1.18	1.11	1.22	1.29	1.19	1.11-1.29
30	IMR 439	1.24	1.35	1.13	1.06	1.33	1.22	1.06-1.35
31	IMR 440	1.17	1.47	1.12	1.17	1.25	1.24	1.17-1.47

32	IMR 441	1.98	1.33	1.11	1.16	1.28	1.37	1.11-1.98
33	IMR 442	1.18	1.19	1.07	1.23	1.30	1.19	1.07-1.30
34	IMR 443	1.23	1.15	1.21	1.12	1.21	1.18	1.15-1.23
35	IMR 444	1.19	1.08	1.36	1.09	1.56	1.26	1.08-1.56
36	IMR 445	1.08	1.31	1.05	------	1.23	1.17	1.05-1.31
37	IMR 446	1.21	1.42	1.04	1.10	1.25	1.20	1.04-1.42
38	IMR 447	1.11	1.17	1.05	1.22	1.23	1.16	1.05-1.23
39	IMR 448	1.20	1.21	1.09	1.1	0.92	1.10	0.92-1.21
Mean		1.24	1.23	1.19	1.15	1.24	1.21	1.15-1.24
Range		1.06-1.98	0.99-1.66	0.97-1.76	0.75-1.32	0.92-1.56	1.08-1.37	

EVALUATION OF MAIZE GERMPLASM FOR PROTEIN QUALITY

QPM development requires continuous monitoring of protein quality. In the first set of experiment a total of 150 inbreds received from IIMR during kharif 2015 were analyzed for protein quality. The kernels were screened on the basis of opaqueness to select the representative sample containing 25 to 50% of opaqueness. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. The range of protein was 7.01 to 12.90 per cent with lowest and highest values being exhibited by the genotypes DQL 2168 and DQL 2236-1-1, respectively. The range of tryptophan was 0.35 {DQL 2209} to 0.80 {DQL 2202} per cent (Table 5). Germplasm having threshold concentrations of protein quantity (≥ 9% protein) along with quality (≥ 0.6 % tryptophan in the endosperm protein) was selected and identified as promising QPM material. A total of 25 lines were found to possess the required concentrations of protein quality (Table 5.1)

Table 5: Protein quality of maize inbreds received IIMR

S. No.	Pedigree	100 K.W.	S. G.	Protein (%)	Try (%)
1	DQL 2208	23.9	1.32	10.5	0.45
2	DQL 2232	23.05	1.15	9.60	0.50
3	DQL 2202	27.52	1.14	7.56	0.80
4	DQL 2213	31.34	1.30	12.06	0.42
5	DQL 2204	34.35	1.21	8.13	0.50
6	DQL 2201	24.15	1.14	8.76	

7	DQL 2217	27.20	1.23	11.24	0.51
8	DQL 2209	28.32	1.18	12.70	0.35
9	DQL 2205-1	30.29	1.37	8.22	0.45
10	DQL 2203	30.12	1.25	8.61	0.57
11	DQL 2237-1	24.82	1.24	8.14	0.40
12	DQL 2227	32.14	1.35	7.36	0.62
13	DQL 2211	35.86	1.37	11.65	0.46
14	DQL 2215	25.62	1.07	11.78	0.48
15	DQL 2220	27.95	1.27	9.05	0.62
16	DQL 2236	17.63	1.46	9.07	0.54
17	DQL 2239	22.17	1.38	8.70	0.47
18	DQL 2226	24.46	1.11	10.84	0.44
19	DQL 2230	28.45	1.29	9.92	0.45
20	DQL 2234	27.67	1.25	8.62	0.47
21	DQL 2235	20.87	1.30	12.54	0.52
22	DQL 2240	25.62	1.16	9.11	0.54
23	DQL 2236-1	20.52	1.02	11.4	0.47
24	DQL 2238	28.62	1.30	8.78	
25	DQL 2237	26.81	1.34	8.71	
26	DQL 2231	29.55	1.34	9.57	
27	DQL 2227	29.44	1.47	10.22	
28	DQL 2236-1-1	17.61	1.46	12.90	0.42
29	DQL 2228	21.40	1.30	8.65	
30	DQL 2206	34.19	1.31	11.79	0.60
31	DQL 2254-2-1	23.14	1.15	10.30	0.40
32	DQL 2254-2	27.81	1.26	8.76	0.56
33	DQL 2254	32.66	1.36	8.90	0.61
34	DQL 2253-4	21.73	1.35	9.41	0.48
35	DQL 2253-3	23.42	1.30	8.91	0.49
36	DQL 2253-2	22.13	1.10	8.22	0.63
37	DQL 2253-1	29.28	1.33	11.29	0.45

38	DQL 2253	17.96	1.49	9.61	0.60
39	DQL 2252	20.96	1.31	9.86	0.48
40	DQL 2252-1	13.57	1.69	9.82	0.48
41	DQL 2250	25.00	1.38	8.93	0.50
42	DQL 2248	28.19	1.40	9.57	0.55
43	DQL 2247	25.55	1.41	7.24	0.59
44	DQL 2247-1	23.99	1.33	10.84	0.47
45	DQL 2246	28.00	1.40	9.61	0.47
46	DQL 2245	24.58	1.36	8.50	0.60
47	DQL 2243	22.57	1.41	8.63	0.61
48	DQL 2242	21.66	1.35	8.06	0.51
49	DQL 2228-1	18.80	1.17	7.90	0.64
50	DQL 2212	27.63	1.25	8.39	0.40
51	DQL 2222	23.90	1.32	8.22	0.62
52	DQL 2219	32.00	1.45	10.77	0.62
53	DQL 2218	28.82	1.31	9.30	0.65
54	DQL 2212-2	23.89	1.32	9.61	0.46
55	DQL 2220-1	26.24	1.31	8.29	0.64
56	DQL 2223	25.64	1.42	9.11	0.61
57	DQL 2221	26.00	1.30	7.79	0.56
58	DQL 2229	24.80	1.24	8.70	0.66
59	DQL 2225	30.54	1.38	10.81	0.52
60	DQL 2209-1	25.80	1.29	10.15	0.46
61	DQL 2216	29.30	1.33	8.72	0.61
62	DQL 2266-2	29.68	1.85	9.63	0.61
63	DQL 2266-1-2	23.47	1.30	8.58	0.44
64	DQL 2266-1	29.78	1.14		0.48
65	DQL 2266	19.17	1.79	9.00	0.52
66	DQL 2260	22.19	1.10	10.26	0.62
67	DQL 2262	34.71	1.23	9.06	0.52
68	DQL 2261	35.13	1.25	7.65	0.66

69	DQL 2262-3-1	24.57	1.36	9.85	0.49
70	DQL 2259-1	21.12	1.17	11.18	0.60
71	DQL 2259	19.27	1.20	10.96	0.48
72	DQL 2259-2	28.56	1.42	11.12	0.59
73	DQL 2257	24.46	1.22	9.35	0.70
74	DQL 2256	22.17	1.23	7.27	0.77
75	DQL 2255	24.74	1.23	7.03	0.61
76	DQL 2179	20.29	1.12	9.45	0.48
77	DQL 2178	22.35	1.24	9.92	0.69
78	DQL 2177	24.58	1.22	10.63	0.45
79	DQL 2176	15.18	1.26	12.08	0.76
80	DQL 2175	21.38	1.18		0.43
81	DQL 2200	16.28	1.01	10.81	0.55
82	DQL 2199	22.65	1.25	10.22	
83	DQL 2198	20.87	1.30	10.76	0.44
84	DQL 2197	16.83	1.40	10.81	0.48
85	DQL 2196	18.62	1.55	12.23	0.43
86	DQL 2195	18.68	1.16	9.54	0.52
87	DQL 2194	20.99	1.18	7.58	0.6
88	DQL 2188	21.29	1.33	7.35	0.52
89	DQL 2187-1	32.20	1.15	10.50	0.72
90	DQL 2187	29.42	1.63	9.92	0.55
91	DQL 2186	19.96	1.10	8.83	0.54
92	DQL 2184	21.23	1.17	8.11	0.60
93	DQL 2183	22.24	1.11	10.92	0.49
94	DQL 2182	21.13	1.32	7.41	0.69
95	DQL 2181	17.96	1.12	11.18	0.71
96	DQL 2180	17.19	1.22	8.34	0.53
97	DQL 2189	25.97	1.29	7.66	0.72
98	DQL 2190	25.97	1.29	9.21	0.76
99	DQL 2191	24.97	1.38	8.59	0.54

100	DQL 2191-2	29.93	1.24	8.55	0.48
101	DQL 2192	22.60	1.25	9.07	0.50
102	DQL 2193	22.95	1.27	10.06	0.48
103	DQL 2174	19.61	1.08	10.90	0.60
104	DQL 2173	25.36	1.26	9.73	0.63
105	DQL 2172	33.44	1.28	11.33	0.47
106	DQL 2170	24.75	1.23	7.03	0.62
107	DQL 2169	30.23	1.16	11.54	0.48
108	DQL 2168	21.94	1.21	7.01	0.51
109	DQL 2167	23.52	1.17	9.48	0.69
110	DQL 2166	28.24	1.41	10.67	0.78
111	DQL 2165	11.25	1.12	9.47	0.62
112	DQL 2164	16.16	1.01	8.63	0.68
113	DQL 2163	22.49	1.12	9.05	0.65
114	DQL 2162	34.11	1.06	8.16	0.43
115	DQL 2161	30.74	1.18	9.85	0.72
116	DQL 2160	19.87	1.24	7.97	0.60
117	DQL 2159	28.52	1.18	11.01	0.62
118	DQL-2024	20.82	1.15	9.63	0.60
119	DQL-2031-2	22.3	1.23	9.55	0.40
120	DQL-2055	22.76	1.19	11.60	0.45
121	DQL-2029	20.52	1.14	9.66	0.40
122	DQL-2033	20.94	1.02	9.29	0.41
123	DQL-2066	18.49	1.32	8.65	0.45
124	DQL-2081	27.57	1.25	8.51	0.42
125	DQL-2038	11.91	1.19	10.43	0.40
126	DQL-2028-1	22.51	1.18	9.67	0.47
127	DQL-2040	20.11	1.05	10.55	0.40
128	DQL-2068	18.28	1.30	9.36	0.43
129	WNCQPM-10542-1	25.88	1.07	11.31	0.62
130	DQL 2168-1	19.77	1.64	7.59	0.52

131	DQL 2199-1	23.78	1.32	9.21	0.54
132	DQL 2208	18.49	1.32	10.99	0.47
133	DQL 2283-5	32.38	1.15	8.82	0.46
134	DQL 2283	24.56	1.23	11.35	
135	DQL 2283-2	26.20	1.19	10.06	
136	DQL 2283-1	27.42	1.25	9.91	
137	DQL 2282	20.59	1.14	11.26	
138	DQL 2180-1	19.73	1.41	11.50	
139	DQL 2273	21.28	1.18	9.55	
140	DQL 2272	19.46	1.08	7.12	
141	DQL 2272-1	21.95	1.21	9.54	
142	DQL 2282-1	23.54	1.23	7.40	
143	DQL 2270	26.10	1.86	12.29	
144	DQL 2267	32.38	1.47	7.71	
145	DQL 2271	27.45	1.24	9.23	
146	DQL-2052	16.78	1.19	8.87	0.51
147	DQL-2072	24.24	1.34	12.19	0.40
148	DQL-2039	16.48	1.17	12.27	0.48
149	DQL-2047	21.98	1.99	11.93	0.40
150	DQL-2042	23.71	1.24	8.62	0.75

Table 5.1: Most promising lines for protein quality

S. No.	Pedigree	100 K.W.	S. G.	Protein (%)	Try (%)
1	DQL 2220	27.95	1.27	9.05	0.62
2	DQL 2163	22.49	1.12	9.05	0.65
3	DQL 2223	25.64	1.42	9.11	0.61
4	DQL 2190	25.97	1.29	9.21	0.76
5	DQL 2218	28.82	1.31	9.30	0.65
6	DQL 2257	24.46	1.22	9.35	0.70
7	DQL 2165	11.25	1.12	9.47	0.62
8	DQL 2167	23.52	1.17	9.48	0.69

9	DQL 2253	17.96	1.49	9.61	0.60
10	DQL-2024	20.82	1.15	9.63	0.60
11	DQL 2266-2	29.68	1.85	9.63	0.61
12	DQL 2173	25.36	1.26	9.73	0.63
13	DQL 2161	30.74	1.18	9.85	0.72
14	DQL 2178	22.35	1.24	9.92	0.69
15	DQL 2260	22.19	1.1	10.26	0.62
16	DQL 2187-1	32.2	1.15	10.50	0.72
17	DQL 2166	28.24	1.41	10.67	0.78
18	DQL 2219	32.00	1.45	10.77	0.62
19	DQL 2174	19.61	1.08	10.90	0.60
20	DQL 2159	28.52	1.18	11.01	0.62
21	DQL 2259-1	21.12	1.17	11.18	0.60
22	DQL 2181	17.96	1.12	11.18	0.71
23	WNCQPM-10542-1	25.88	1.07	11.31	0.62
24	DQL 2206	34.19	1.31	11.79	0.60
25	DQL 2176	15.18	1.26	12.08	0.76

In the second set of experiment a total of 233 inbreds received from IIMR, Ludhiana grown during rabi 2014 – 2015 were analyzed for protein quality. The kernels were screened on the basis of opaqueness to select the representative sample containing 25 to 50% of opaqueness. Out crossed as well as non uniform kernels were discarded. The endosperm was separated, defatted and processed for protein quality. The range of protein was 7.01 to 13.88 per cent with lowest and highest values being exhibited by the genotypes DQL-2202 and DQL-2039-1-1, respectively. The range of tryptophan was 0.34 {DQL-2017-1} to 0.80 {DQL-1327} per cent (Table 6). A total of 46 lines were found to possess the threshold concentrations of protein quality for QPM breeding (Table 6.1)

Table 6: Protein quality of maize inbreds received IIMR, Ludhiana

S. No.	**Pedigree**	**100 K.W.**	**S.G.**	**Protein (%)**	**Tryp (%)**
1	DQL-2002	19.66	1.24	10.86	0.53
2	DQL-2002-1	28.22	1.08	10.55	0.44
3	DQL-2003	22.69	1.13	9.16	0.65

4	DQL 2180-1	19.77	1.23	10.07	0.52
5	DQL 2166	22.62	1.25	9.42	0.50
6	DQL 2177-1	23.95	1.19	8.71	0.47
7	DQL 2174-1	18.71	1.33	10.59	0.36
8	DQL 2162-1	26.49	1.20	7.94	0.57
9	DQL 2181-1	25.09	1.25	8.32	0.51
10	DQL 2170-1	18.00	1.28	9.39	0.60
11	DQL-2017-1	23.93	1.19	11.34	0.34
12	DQL-2017-2	31.15	1.29	10.43	0.45
13	DQL-2017-2	32.30	1.34	10.81	0.38
14	DQL-2044	20.20	1.12	9.57	0.62
15	DQL-2004-1	17.40	1.24	10.72	0.66
16	DQL-2004-2	20.36	1.27	10.44	0.73
17	DQL-2006	16.82	1.40	10.76	0.61
18	DQL-2007	16.62	1.18	10.50	0.63
19	DQL-2007-2	18.34	1.14	8.63	0.60
20	DQL-2007-3	17.67	1.47	11.91	0.45
21	DQL-2007-4	15.40	0.91	9.12	0.62
22	DQL-2009	14.32	1.43	10.38	0.60
23	DQL-2011	19.80	1.23	10.90	0.61
24	DQL-2014	23.52	1.30	10.66	0.62
25	DQL-2016	21.56	1.34	10.84	0.46
26	DQL-2017	27.92	1.39	7.14	0.61
27	DQL-2021	24.12	1.09	9.10	0.60
28	DQL-2018-1	23.03	1.27	7.85	0.54
29	DQL-2020	12.28	1.18	10.43	0.53
30	DQL-2024	17.72	1.31	9.41	0.60
31	DQL-2024-1	20.00	1.28	7.83	0.65
32	DQL-2024-2	20.83	1.30	10.15	0.63
33	DQL-2025	17.97	1.28	10.18	0.50
34	DQL-2026	12.98	1.29	9.02	0.68

35	DQL-2026-1	16.02	1.33	10.05	0.61
36	DQL-2027	24.70	1.54	7.53	0.77
37	DQL-2028	20.96	1.31	7.44	0.72
38	DQL-2028-1	17.78	1.37	9.85	0.62
39	DQL-2029	24.30	1.21	9.63	0.54
40	DQL-2030	21.60	1.51	8.68	0.60
41	DQL-2031-1	17.65	1.26	9.65	0.62
42	DQL-2032	19.44	1.38	12.85	0.50
43	DQL-2032-1	19.86	1.24	12.91	0.53
44	DQL-2032-2	24.87	1.24	10.62	0.71
45	DQL-2033	26.03	1.08	9.62	0.55
46	DQL-2035	15.80	1.31	12.68	0.48
47	DQL-2035	28.49	1.35	12.07	0.46
48	DQL-2037	20.91	1.74	10.69	0.50
49	DQL-2038-1	16.21	1.62	10.81	0.47
50	DQL-2038-2	24.08	1.33	12.06	0.43
51	DQL-2039	22.62	1.19	13.25	0.42
52	DQL-2039-1-1	16.94	1.41	13.88	0.39
53	DQL-2039-1	24.31	1.27	9.91	0.53
54	DQL-2039-2	18.94	1.45	13.49	0.40
55	DQL-2040	18.88	0.90	10.35	0.62
56	DQL-2042	17.05	1.21	9.33	0.64
57	DQL-2043	29.85	1.35	10.28	0.46
58	DQL-2044	17.2	1.43	9.84	0.63
59	DQL-2046	17.55	1.46	9.71	0.62
60	DQL-2047	20.05	1.11	10.83	0.41
61	DQL-2048	21.25	1.18	9.50	0.61
62	DQL-2049	16.76	1.39	7.80	0.60
63	DQL-2050	22.64	1.25	10.27	0.50
64	DQL-2050-1	16.12	1.35	10.37	0.60
65	DQL-2051	20.10	1.00	10.98	0.49

66	DQL-2052	16.28	1.16	11.31	0.51
67	DQL-2053	25.46	1.15	7.08	0.68
68	DQL-2054	17.21	1.22	10.06	0.56
69	DQL-2055	21.77	1.27	9.54	0.62
70	DQL-2056	15.37	1.28	9.77	0.60
71	DQL-2057	15.67	1.56	9.88	0.59
72	DQL-2058-1	16.51	1.37	12.49	0.45
73	DQL-2058-2	18.98	1.00	13.46	0.47
74	DQL-2059	13.90	1.26	11.43	0.53
75	DQL-2060	29.38	1.08	8.10	0.74
76	DQL-2062	31.86	1.09	7.57	0.61
77	DQL-2063	21.87	1.00	9.81	0.78
78	DQL-2064	17.93	1.00	9.04	0.46
79	DQL-2064-1	28.86	1.15	10.12	0.53
80	DQL-2066-1	14.76	1.23	10.23	0.45
81	DQL-2068	21.03	1.10	10.13	0.48
82	DQL-2070	18.99	1.35	9.09	0.46
83	DQL-2070-1	23.40	1.30	9.06	0.41
84	DQL-2071	16.77	1.39	11.89	0.61
85	DQL-2072	31.83	1.13	11.70	0.65
86	DQL-2077	31.05	1.03	9.76	0.74
87	DQL-2080	31.27	1.04	9.81	0.70
88	DQL-2080	33.06	1.10	11.30	0.62
89	DQL-2081	27.97	1.16	8.49	0.51
90	DQL-2081-1	29.89	1.03	8.42	0.58
91	DQL-2082	20.75	1.03	9.50	0.62
92	DQL-2084	24.84	1.03	9.70	0.68
93	DQL-2085	25.84	1.29	8.43	0.62
94	DQL-2087	22.94	1.27	8.44	0.55
95	DQL-2096	28.71	1.36	8.56	0.45
96	DQL-2097	30.76	1.28	9.73	0.54

97	DQL-2098	29.10	1.21	9.74	0.52
98	DQL-2099	20.87	1.04	8.85	0.78
99	DQL-2104	20.76	1.15	11.09	0.45
100	DQL-2104-1	22.51	1.12	10.68	0.63
101	DQL-2104-2	18.58	0.92	10.37	0.75
102	DQL-2105	25.37	1.20	11.50	0.43
103	DQL-2105-1	21.12	1.05	11.81	0.52
104	DQL-2011	24.61	1.17	8.92	0.62
105	DQL-2113	24.97	1.24	8.67	0.61
106	DQL-2124	28.76	1.31	10.14	0.46
107	DQL-2124-2	28.81	1.02	10.69	0.48
108	DQL-2124-1	33.48	0.93	8.49	0.73
109	DQL-2139	16.82	1.40	9.78	0.60
110	DQL-2144	28.51	1.29	11.27	0.45
111	DQL-2157	36.50	1.21	10.14	0.55
112	DQL-2157-1	27.13	1.23	8.29	0.60
113	DQL-2157-2	28.10	1.33	9.99	0.53
114	DQL-2018	36.10	1.08	11.1	0.53
115	DQL-2018-1	32.10	1.20	10.2	0.49
116	DQL-2018-2	13.49	0.83	11.22	0.40
117	DQL-2018-3	22.50	1.12	8.23	0.65
118	DQL-1302	21.25	1.11	8.87	0.62
119	DQL-1327	22.29	1.17	8.03	0.8
120	DQL-1327-1	22.51	1.12	8.87	0.63
121	DQL-2158	31.62	1.09	10.24	0.56
122	DQL-2159	37.40	1.16	10.41	0.51
123	DQL-2160	21.48	1.19	8.82	0.48
124	DQL-2161	29.75	1.23	8.94	0.62
125	DQL-2162	29.31	1.33	10.47	0.51
126	DQL-2163	23.74	1.18	8.77	0.52
127	DQL-2164	24.91	1.66	10.08	0.42

128	DQL-2165	15.45	1.40	9.42	0.37
129	DQL-2166	19.00	1.35	10.09	0.79
130	DQL-2167	30.59	1.27	9.07	0.49
131	DQL-2168	23.21	1.16	7.81	0.43
132	DQL-2169	40.38	1.18	7.80	0.51
133	DQL-2170	28.92	1.31	7.70	0.61
134	DQL-2171	6.43	0.35	10.08	0.44
135	DQL-2173	25.93	1.17	9.74	0.43
136	DQL-2174	21.12	1.11	10.31	0.42
137	DQL-2175	20.65	1.14	10.18	0.45
138	DQL-2176	21.36	1.16	10.92	0.46
139	DQL-2177	25.56	1.06	10.62	0.39
140	DQL-2178	20.42	1.02	9.68	0.65
141	DQL-2180	20.96	1.04	10.05	0.45
142	DQL-2181	17.97	0.99	9.04	0.47
143	DQL-2182	24.88	1.24	9.43	0.54
144	DQL-2184	18.66	1.03	9.04	0.76
145	DQL-2186	26.80	1.11	10.26	0.53
146	DQL-2187	28.99	1.31	10.41	0.47
147	DQL-2188	21.71	1.14	8.51	0.45
148	DQL-2189	26.47	1.20	7.91	0.62
149	DQL-2190	25.41	1.05	9.07	0.57
150	DQL-2191	28.28	1.17	9.63	0.63
151	DQL-2191-1	20.26	1.44	8.41	0.42
152	DQL-2191-2	19.11	1.36	9.24	0.47
153	DQL-2192	21.03	1.16	7.79	0.45
154	DQL-2193	20.34	1.13	9.78	0.42
155	DQL-2193-1	21.05	1.05	9.36	0.44
156	DQL-2194	23.76	1.18	8.24	0.56
157	DQL-2196	18.83	1.34	11.03	0.49
158	DQL-2197	16.98	0.77	10.59	0.46

159	DQL-2198	26.63		9.56	0.46
160	DQL-2199	24.38	1.21	8.33	0.51
161	DQL-2200	21.78	1.03	10.13	0.44
162	DQL-2201	25.71	1.28	7.45	0.68
163	DQL-2202	22.54	1.12	7.01	0.71
164	DQL-2207	28.46	1.18	9.35	0.62
165	DQL-2205	26.51	1.32	7.81	0.76
166	DQL-2208	16.63	1.18	8.91	0.45
167	DQL-2209	16.60	1.18	9.86	0.56
168	DQL-2210	22.40	1.49	10.7	0.44
169	DQL-2211	26.37	1.25	9.90	0.60
170	DQL-2212	29.35	1.33	8.20	0.47
171	DQL-2213	21.90	0.98	10.24	0.73
172	DQL-2214	19.86	1.10	8.14	0.61
173	DQL-2215	20.98	1.16	9.86	0.42
174	DQL-2216	26.28	1.19	9.35	0.54
175	DQL-2172	28.38	1.19	9.22	0.43
176	DQL-2217	25.67	1.16	10.25	0.45
177	DQL-2218	31.16	1.29	9.51	0.41
178	DQL-2219	26.77	1.21	10.04	0.36
179	DQL-2220	25.91	1.29	8.70	0.42
180	DQL-2221	30.23	1.04	8.74	0.47
181	DQL-2222	20.84	1.15	7.58	0.61
182	DQL-2223	23.21	1.16	8.80	0.37
183	DQL-2227	24.67	1.12	11.06	0.48
184	DQL-2228	15.66	1.11	7.75	0.63
185	DQL-2183	29.48	1.22	9.24	0.44
186	DQL-2229	25.41	1.15	9.24	0.45
187	DQL-2230	31.50	1.12	8.41	0.60
188	DQL-2231	26.62	1.33	9.14	0.48
189	DQL-2232	27.04	1.35	8.64	0.36

190	DQL-2233	23.36	1.29	8.65	0.57
191	DQL-2234	24.15	1.09	7.15	0.52
192	DQL-2235	19.04	1.05	10.3	0.46
193	DQL-2237	25.20	1.26	8.88	0.40
194	DQL-2238	28.49	1.29	9.66	0.45
195	DQL-2239	24.20	1.21	8.32	0.47
196	DQL-2240	19.68	1.40	9.10	0.38
197	DQL-2241	18.69	1.03	8.03	0.61
198	DQL-2242	23.20	1.16	9.11	0.44
199	DQL-2243	25.16	1.25	9.12	0.40
200	DQL-2244	24.40	1.35	8.71	0.42
201	DQL-2245	22.29	1.23	8.31	0.47
202	DQL-2246	24.26	1.34	7.56	0.51
203	DQL-2247	19.89	1.42	9.76	0.41
204	DQL-2248	26.10	1.18	9.05	0.48
205	DQL-2250	19.40	1.38	8.62	0.48
206	DQL-2251	8.54	1.42	11.75	0.47
207	DQL-2252	13.70	1.24	11.71	0.46
208	DQL-2253	23.31	1.29	9.47	0.45
209	DQL-2254	31.99	1.23	9.68	0.43
210	DQL-2255	23.71	1.18	9.95	0.56
211	DQL-2256	23.10	1.15	9.38	0.49
212	DQL-2257	14.99	1.24	9.18	0.46
213	DQL-2258	22.41	1.12	9.93	0.47
214	DQL-2259	22.55	1.12	9.11	0.48
215	DQL-2260	21.46	1.19	7.70	0.52
216	DQL-2261	30.22	1.25	10.23	0.51
217	DQL-2261-1	28.46	1.18	10.31	0.44
218	DQL-2262	22.20	1.11	10.16	0.49
219	DQL-2263	28.38	1.18	9.04	0.40
220	DQL-2265	22.21	1.11	7.85	0.47

221	DQL-2266	19.87	1.41	10.14	0.44
222	DQL-2267	17.97	1.28	7.01	0.45
223	DQL-2270	15.08	1.25	9.16	0.46
224	DQL-2271	23.98	1.14	8.96	0.47
225	DQL-2272	20.20	1.12	8.58	0.48
226	DQL-2273	15.26	1.38	9.54	0.46
227	DQL-2274	23.06	1.15	9.90	0.43
228	DQL-2275	25.23	1.20	9.09	0.52
229	DQL-2276	24.76	1.03	9.34	0.70
230	DQL-2278	26.59	1.20	9.14	0.54
231	DQL-2279	28.11	1.17	9.53	0.53
232	DQL-2281	22.77	1.26	8.16	0.42
233	DQL-2283	20.31	1.12	9.43	0.45

Table 6.1: Most promising lines for protein quality

S. No.	**Pedigree**	**100 K.W.**	**S.G.**	**Protein (%)**	**Tryp (%)**
1	DQL-2026	12.98	1.29	9.02	0.68
2	DQL-2184	18.66	1.03	9.04	0.76
3	DQL-2021	24.12	1.09	9.10	0.60
4	DQL-2007-4	15.40	0.91	9.12	0.62
5	DQL-2003	22.69	1.13	9.16	0.65
6	DQL-2042	17.05	1.21	9.33	0.64
7	DQL-2276	24.76	1.03	9.34	0.70
8	DQL-2207	28.46	1.18	9.35	0.62
9	DQL 2170-1	18.00	1.28	9.39	0.60
10	DQL-2024	17.72	1.31	9.41	0.60
11	DQL-2048	21.25	1.18	9.50	0.61
12	DQL-2082	20.75	1.03	9.50	0.62
13	DQL-2055	21.77	1.27	9.54	0.62
14	DQL-2044	20.20	1.12	9.57	0.62
15	DQL-2191	28.28	1.17	9.63	0.63

16	DQL-2031-1	17.65	1.26	9.65	0.62
17	DQL-2178	20.42	1.02	9.68	0.65
18	DQL-2084	24.84	1.03	9.70	0.68
19	DQL-2046	17.55	1.46	9.71	0.62
20	DQL-2077	31.05	1.03	9.76	0.74
21	DQL-2056	15.37	1.28	9.77	0.60
22	DQL-2139	16.82	1.4	9.78	0.60
23	DQL-2080	31.27	1.04	9.81	0.70
24	DQL-2063	21.87	1.00	9.81	0.78
25	DQL-2044	17.20	1.43	9.84	0.63
26	DQL-2028-1	17.78	1.37	9.85	0.62
27	DQL-2211	26.37	1.25	9.90	0.60
28	DQL-2026-1	16.02	1.33	10.05	0.61
29	DQL-2166	19.00	1.35	10.09	0.79
30	DQL-2024-2	20.83	1.30	10.15	0.63
31	DQL-2213	21.90	0.98	10.24	0.73
32	DQL-2040	18.88	0.90	10.35	0.62
33	DQL-2050-1	16.12	1.35	10.37	0.60
34	DQL-2104-2	18.58	0.92	10.37	0.75
35	DQL-2009	14.32	1.43	10.38	0.60
36	DQL-2004-2	20.36	1.27	10.44	0.73
37	DQL-2007	16.62	1.18	10.50	0.63
38	DQL-2032-2	24.87	1.24	10.62	0.71
39	DQL-2014	23.52	1.30	10.66	0.62
40	DQL-2104-1	22.51	1.12	10.68	0.63
41	DQL-2004-1	17.40	1.24	10.72	0.66
42	DQL-2006	16.82	1.40	10.76	0.61
43	DQL-2011	19.80	1.23	10.90	0.61
44	DQL-2080	33.06	1.10	11.30	0.62
45	DQL-2072	31.83	1.13	11.70	0.65
46	DQL-2071	16.77	1.39	11.89	0.61

In order to facilitate the QPM breeding programme, samples received from different AICRP centers were analyzed for protein quality. In this programme 57 samples were received from SKUAST Srinagar. However, most of the samples seemed to be segregating showing varying degree of opaqueness. Biochemical analysis showed that only 3 genotypes possess the threshold concentration of tryptophan. The results are presented in Table 7.

Table 7: Protein quality of maize inbreds received from SKUAST, Srinagar

S. No.	Pedigree	100 K. W.	S.G.	Protein (%)	Try (%)
1	KDM-340-A	22.39	1.11	8.20	0.49
2	KDM-343-A	22.31	1.23	9.77	0.47
3	KDM-921-A	29.11	1.11	10.81	0.45
4	KDM-351-A	30.42	1.26	11.27	0.38
5	KDM-909-A	19.36	1.38	11.76	0.39
6	KDM-381-A	17.39	1.24	9.84	0.48
7	KDM-899-A	17.49	1.24	9.85	0.47
8	KDM-962-A	29.13	1.12	12.82	0.37
9	KDM-940-A	21.54	1.34	13.21	0.46
10	KDM-332-A	29.16	1.32	9.93	0.41
11	KDM-382-A	29.78	1.35	12.19	0.37
12	KDM-925-B	31.61	1.31	7.51	0.47
13	KDM-917-A	18.30	1.40	9.72	0.43
14	KDM-912-A	35.36	1.36	11.26	0.40
15	KDM-438-A	21.56	1.26	9.39	0.45
16	KDM-926-B	17.52	1.16	12.86	0.36
17	KDM-332-B	30.45	1.38	11.22	0.42
18	KDM-930-A	29.78	1.35	13.01	0.40
19	KDM-916-A	31.52	1.43	12.42	0.34
20	KDM-323-A	28.20	1.34	13.56	0.32
21	QPM20	27.05	1.22	12.45	0.40
22	KDM-3008	36.65	1.31	12.64	0.39
23	CM502	30.42	1.38	13.94	0.37
24	QPM50	Sample not in good condition			
25	KDM-895-A	32.91	1.26	11.11	0.40

26	POP7	21.65	1.54	12.68	0.37
27	KDM-3009	22.55	1.25	13.06	0.40
28	KDM-362-A	32.58	1.35	11.00	0.44
29	KDM-3006	25.31	1.26	11.52	0.57
30	SMP-53	32.09	1.33	12.16	0.39
31	V-335	31.95	1.45	9.74	0.42
32	NBPGR-21	24.69	1.23	11.11	0.38
33	QPM21	25.47	1.41	11.12	0.47
34	KDM-329	Sample not in good condition			
35	QPM49	15.24	1.27	10.27	0.61
36	SC1263	Sample not in good condition			
37	HKI586	34.41	1.91	9.11	0.49
38	NBPGR-10	32.43	1.47	12.69	0.43
39	NBPGR-24	26.69	1.33	13.94	0.37
40	POP-5	31.11	1.29	10.91	0.46
41	CML-129	43.19	1.43	11.65	0.42
42	KDM-111	Sample not in good condition			
43	KDPC-2	21.01	1.75	10.4	0.48
44	KDMH-17	35.59	1.48	9.27	0.53
45	YELLOW POOL-4	32.38	1.47	9.80	0.51
46	L-2	20.22	1.68	7.30	0.74
47	NBPGR-23	24.42	1.74	12.9	0.4
48	POOL-42	29.39	1.33	7.19	0.66
49	L1	27.08	1.93	8.06	0.54
50	KDM-72	25.74	1.28	8.21	0.49
51	C-8	30.54	1.27	8.34	0.47
52	KDM-322	28.35	1.41	7.64	0.51
53	KDM-1156	28.69	1.43	12.22	0.33
54	KDM-892-A	31.14	1.29	10.34	0.42
55	KDM-914-A	22.20	1.23	10.38	0.39
56	KDM-1159	27.85	1.26	8.03	0.57

57	KDM-957	22.39	1.59	8.12	0.51

In another set of experiment under AICRP QPM strengthening programme samples (50 nos.) received from VPKAS, Almora were analyzed for protein quality. Inspite of repeated reminders the center did not provided the pedigree of the material, therefore, reported as such. This set of samples was much better in terms of seed quality. The biochemical analysis showed that 18 out of 50 genotypes posses the required concentration of tryptophan in the endosperm protein (Table 8).

Table 8: Protein quality of maize inbreds received from VPKAS, Almora

S. No.	Pedigree	100 K.W.	S.G.	Protein (%)	Try (%)
1	AMQZ-1	19.32	1.20	6.94	0.76
2	AMQZ-2	22.05	1.22	7.28	0.46
3	AMQZ-3	26.37	1.31	7.97	0.49
4	AMQZ-4	16.54	1.18	11.58	0.42
5	AMQZ-5	20.58	1.08	12.83	0.41
6	AMQZ-6	20.19	1.12	10.72	0.47
7	AMQZ-7	20.57	1.14	11.38	0.45
8	AMQZ-8	18.20	1.51	11.12	0.46
9	AMQZ-9	19.50	1.08	11.68	0.47
10	AMQZ-10	19.48	1.08	9.36	0.54
11	AMQZ-11	25.89	1.29	10.62	0.64
12	AMQZ-12	29.99	1.24	7.72	0.64
13	AMQZ-13	22.08	1.16	7.98	0.52
14	AMQZ-14	11.42	1.14	8.59	0.73
15	AMQZ-15	11.38	1.13	13.04	0.54
16	AMQZ-16	9.71	0.81	13.27	0.47
17	AMQZ-17	12.74	0.64	12.51	0.50
18	AMQZ-18	12.66	0.70	14.89	0.47
19	AMQZ-19	14.04	1.00	13.42	0.49
20	AMQZ-20	20.55	1.71	10.49	0.45
21	AMQZ-21	18.37	1.53	9.56	0.62
22	AMQZ-22	22.63	1.13	8.86	0.48

23	AMQZ-23	21.21	1.11	10.47	0.48
24	AMQZ-24	31.81	1`.32	7.99	0.62
25	AMQZ-25	28.38	1.18	9.46	0.60
26	AMQZ-26	28.73	1.02	8.98	0.51
27	AMQZ-27	16.58	1.38	8.29	0.82
28	AMQZ-28	13.83	1.38	9.13	0.71
29	AMQZ-29	22.62	1.25	9.83	0.69
30	AMQZ-30	21.39	1.18	7.57	0.77
31	AMQZ-31	26.5	1.32	7.32	0.49
32	AMQZ-32	21.38	1.18	8.72	0.44
33	AMQZ-33	23.05	1.15	7.96	0.61
34	AMQZ-34	20.10	1.11	9.16	0.6
35	AMQZ-35	12.14	1.01	11.07	0.51
36	AMQZ-36	18.74	1.33	9.79	0.42
37	AMQZ-37	13.9	1.39	10.8	0.62
38	AMQZ-38	32.08	1.33	7.61	0.61
39	AMQZ-39	19.43	1.38	9.01	0.60
40	AMQZ-40	19.84	1.10	7.31	0.49
41	AMQZ-41	21.40	1.07	9.54	0.48
42	AMQZ-42	16.60	1.66	7.90	0.46
43	AMQZ-43	21.02	1.05	7.31	0.49
44	AMQZ-44	23.55	1.23	6.96	0.62
45	AMQZ-45	22.89	1.27	7.25	0.61
46	AMQZ-46	17.30	1.44	8.94	0.36
47	AMQZ-47	29.14	1.45	8.65	0.38
48	AMQZ-48	20.51	1.13	7.14	0.45
49	AMQZ-49	24.85	1.24	7.09	0.49
50	AMQZ-50	16.93	1.41	10.11	0.40

EVALUATION OF MAIZE GERMPLASM FOR OIL AND STARCH CONTENT GROWN UNDER DIFFERENT ENVIRONMENTS

In this experiment selfed seeds of maize cultivars (44 nos.) grown at three different locations viz: Begusarai, Hyderabad and Delhi were analyzed for oil and starch content. The data is presented in Table 9.

Table 9: Evaluation of maize germplasm for oil and starch content under different environments

S. No.	Pedigree	Oil (%)	Starch (%)
Location - Begusarai			
1	HQPM-1-1B	3.89	69.44
2	HQPM-1-2B	3.61	73.60
3	HQPM-1-3B	3.44	72.13
4	Buland-1	3.95	71.52
5	Buland-2	4.09	73.00
6	Buland-3	4.45	71.10
7	HQPM-7-1	3.98	71.35
8	HQPM-7-2	3.58	70.27
9	HQPM-7-3	3.48	69.64
10	HM-4-1	3.13	73.04
11	HM-4-2	3.02	71.99
12	Rasi-750-1	3.10	72.04
13	Rasi-750-2	3.05	72.61
14	Rasi-750-3	3.13	71.82
15	Prakash-1	4.14	73.05
16	Prakash-2	4.23	73.02
17	Prakash-3	4.31	71.45
18	KMH-7148-1	3.11	70.69
19	KMH-7148-2	3.18	70.79
20	BIO-9681-1	3.37	69.61
21	BIO-9681-2	3.10	72.86
22	BIO-9681-3	3.11	71.33

23	PMH-189-1	3.12	72.15
24	PMH-189-2	3.48	74.01
25	PMH-189-3	3.97	73.46
26	BIO-9637-1	4.54	69.51
27	BIO-9637-2	3.93	69.89
28	BIO-9637-3	3.84	71.32
29	BISCOX6571-1	4.15	73.17
30	BISCOX6571-2	3.57	70.13
31	BISCOX6571-3	4.04	72.44
32	NMH-1247-1	3.55	69.67
33	NMH-1247-2	3.33	69.41
34	NMH-1247-3	3.43	71.95
35	SEED TECH-2324-1	3.18	69.58
36	SEED TECH-2324-2	3.28	72.44
37	PMH-5-1	3.98	71.47
38	PMH-5-2	4.16	69.85
39	PMH-2589-1	2.48	72.65
40	PMH-2589-2	2.40	74.00
41	PMH-2589-3	2.43	73.72
42	BIO-237-1B	3.81	72.98
43	BIO-237-2B	3.91	73.75
44	BIO-237-3B	3.90	73.30
Location - Hyderabad			
1	HQPM-1-1H	4.73	72.60
2	HQPM-1-2H	4.67	70.84
3	HQPM-1-3H	5.09	71.13
4	Buland-1	4.55	68.94
5	Buland-2	4.64	70.23
6	Buland-3	4.12	71.18
7	HQPM-7-1	3.92	71.93
8	HQPM-7-2	3.86	73.21

9	HQPM-7-3	3.68	71.86
10	HM-4-1	3.38	72.86
11	HM-4-2	3.55	72.13
12	Rasi-750-1	2.94	73.30
13	Rasi-750-2	2.69	73.80
14	Rasi-750-3	2.77	72.34
15	Prakash-1	3.57	70.30
16	Prakash-2	3.62	69.98
17	Prakash-3	3.23	69.18
18	KMH-7148-1	2.59	73.05
19	KMH-7148-2	2.73	71.11
20	KMH-7148-3	2.41	73.57
21	BIO-9681-1	2.79	71.87
22	BIO-9681-2	3.12	70.48
23	BIO-9681-3	2.68	71.56
24	PMH-189-1	2.82	73.28
25	PMH-189-2	3.11	73.31
26	PMH-189-3	3.05	73.82
27	BIO-9637-1	3.52	71.01
28	BIO-9637-2	3.36	69.29
29	BIO-9637-3	3.54	72.10
30	BISCOX6571-1	3.51	73.27
31	BISCOX6571-2	3.62	72.20
32	BISCOX6571-3	3.65	70.90
33	NMH-1247-1	3.08	73.70
34	NMH-1247-2	2.86	73.97
35	NMH-1247-3	3.00	73.22
36	SEED TECH-2324-1	2.78	70.57
37	SEED TECH-2324-2	3.00	70.10
38	SEED TECH-2324-3	2.84	71.06
39	PMH-5-1	2.69	72.72

40	PMH-5-2	3.02	73.75
41	PMH-2589-1	2.20	72.01
42	PMH-2589-2	2.38	72.75
43	PMH-2589-3	2.18	71.03
44	BIO-237-1H	3.40	72.21
45	BIO-237-2H	3.56	70.45
46	BIO-237-3H	3.51	72.74
47	PMH-3-1H	3.83	69.44
48	PMH-3-2H	3.96	70.33
Location - Delhi			
1	HQPM-1-1D	3.78	73.16
2	HQPM-1-2D	3.45	72.44
3	HQPM-1-3D	4.04	70.98
4	Buland-1	4.72	70.19
5	Buland-2	4.49	68.17
6	Buland-3	3.85	68.80
7	HQPM-7-1	4.18	68.63
8	HQPM-7-2	3.62	70.13
9	HM-4-1	3.25	69.81
10	HM-4-2	3.39	68.10
11	HM-4-3	3.00	71.16
12	Rasi-750-1	3.15	71.96
13	Rasi-750-2	3.70	69.60
14	Rasi-750-3	3.28	70.30
15	Prakash-1	4.01	72.77
16	Prakash-2	4.37	73.38
17	Prakash-3	3.80	72.29
18	KMH-7148-1	3.37	73.01
19	KMH-7148-2	3.78	71.42
20	KMH-7148-3	3.39	72.39
21	BIO-9681-1	3.25	70.59

22	BIO-9681-2	3.61	71.66
23	BIO-9681-3	4.04	70.64
24	PMH-189-1	3.09	72.01
25	PMH-189-2	2.87	71.28
26	BIO-9637-1	3.85	72.18
27	BIO-9637-2	3.37	73.53
28	BIO-9637-3	3.92	70.69
29	BISCOX6571-1	3.11	71.64
30	BISCOX6571-2	3.84	70.35
31	BISCOX6571-3	3.36	71.42
32	NMH-1247-1	2.81	73.31
33	NMH-1247-2	3.06	74.04
34	SEED TECH-2324-1	3.32	72.94
35	SEED TECH-2324-2	3.62	71.53
36	SEED TECH-2324-3	2.95	71.44
37	PMH-5-1	3.14	73.42
38	PMH-5-2	3.34	70.68
39	PMH-2589-1	2.62	73.17
40	PMH-2589-2	2.95	73.52
41	PMH-2589-3	2.89	72.04
42	BIO-237-1D	3.15	72.68
43	BIO-237-2D	3.85	73.94
44	PMH-3-1D	4.05	71.40
45	PMH-3-2D	4.11	70.48
46	PMH-3-2D	3.73	72.81

Monitoring Report

AICRP Monitoring Report-Kharif 2015

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
1	Barapani	1. Dr. K.S.Hooda, Pathologist, IIMR, New Delhi. 2. Dr.Vijay Poonia, Agronomist, IARI, New Delhi. 3. Dr. Chikkappa G. K, Breeder, IIMR, New Delhi.	**Breeding:** The trials were managed properly but planting 1 or 2 border row in the end and beginning of each trial to follow principles of randomization is needed.	**Good**
			Agronomy: Plant Pathology& Entomology : No trials	
2	Gossaingaon	1. Dr. K.S. Hooda, Pathologist, IIMR, New Delhi. 2. Dr. Vijay Poonia, Agronomist, IARI, New Delhi. 3. Dr. Chikkappa G. K, Breeder, IIMR, New Delhi	**Breeding:** Overall grading of centre	**Good**
			Agronomy: Ridge and furrow system for sowing of maize is suggested moreover bunds and channels are also needed in nutrient management experiment. **Sweet corn trial has been rejected** due to poor germination.	**Good**
			Plant Pathology: All 6 trials were conducted as per technical program.	**Very Good**
3	Pantnagar	1 Dr. J. S. Chawla, Breeder, PAU, Ludhiana. 2. Dr. C.M. Parihar, Agronomist, IIMR, New Delhi. 3. Dr. V.K.Rathi, Pathologist, HPKV, Dhaulakuan. 4. Dr. Manoj Mehla, Entomologist, MPUAT, Udaipur.Date : 16.09.2013	**Breeding:** All the eleven trials were conducted as per technical program.	**Excellent**
			Agronomy: All the 3 trials were conducted as per technical program	**Good**
			Plant Pathology: All 17 trials were conducted in good manner. All the entries were artificially inoculated to screen against BLSB and Stalk rot.	**Very Good**
			Soil Science: All the 3 trials were conducted as per technical program.	**Very Good**
			Entomology: No trials	
4	Almora	1 Dr. J. S. Chawla, Breeder, PAU, Ludhiana. 2. Dr. C.M. Parihar, Agronomist, IIMR, New Delhi. 3. Dr. V.K.Rathi, Pathologist, HPKV, Dhaulakuan. 4. Dr. Manoj Mehla, Entomologist, MPUAT, Udaipur.Date : 16.09.2013	**Breeding:** Out of 7 trials, **2 trials were rejected (trial no 71, AVT-II, Sweet corn I-II-III).** Trials were damaged via wild animals and availability of uniform field is a major problem. Due to this scientist were forced to reduce plot size in many cases.	**Good,**
			Agronomy: All three trials were conducted in good manner. Reduced plot size and replications across the field are not desirable.	**Good**
			Plant Pathology: All the trials were properly managed and data recording was done as per plan.	**Very Good**
			Entomology: No trials	
5	Behraich	1. Dr. J.P.Shahi, Professor, Plant Breeding, IIAS, BHU, Varanasi. 2. Dr. Mritunjay Kumar, Agronomist, Tirhut College of Agric, Dholi Bihar	**Breeding:** All the trials were planted, The crop growth expression was good.	**Very good**
			Agronomy: All the trials were planted as per technical program and crop growth expression was good.	**Very Good**
			Plant Pathology & Entomology: No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
6	Kanpur	1. Dr. J.P.Shahi, Professor, Plant Breeding, IIAS, BHU, Varanasi. 2. Dr. Mritunjay Kumar, Agronomist, Tirhut College of Agric, Dholi Bihar	**Breeding:** All the11 trials were planted, following trails namely, **63,64, 66, 69, sweet corn, pop corn were rejected** due to poor plant population.	**Average**
			Agronomy: No trail was conducted.	
			Plant Pathology & Entomology: No trials	
7	Bajaura	1. Dr. Ashok Kumar, Agronomist, IIMR, New Delhi 2. Dr. N.K. Singh, Breeder GBPUAT, Pantnagar 3. Dr. Jwala Jindal, Entomologist, PAU, Ludhiana 4. Dr. C. Chandershekhar, Pathologist, VPKAS, Almora	**Breeding:** Excellent growth expression was observed in all the trials. The sowing season in this region starts from mid-May to 25th June. Therefore, the seed of the trials needs to deliver at the end of May or at least in first week of June.	**Excellent**
			Agronomy: Excellent growth expression was observed in 6 trials out of seven. One trial on performance or pre-release early maturity genotypes under varying plant density and nutrient levels in Zone-I couldn't be planted due to mixing of seed during transportation.	**Excellent**
			Plant Pathology: All the trials were conducted under good field practices. In order to create proper disease incidence seed should be made available by first week of June.	**Excellent**
			Entomology: No trials	
8	Kangra	1. Dr. Ashok Kumar, Agronomist, IIMR, New Delhi 2. Dr. N.K. Singh, Breeder GBPUAT, Pantnagar 3. Dr. Jwala Jindal, Entomologist, PAU, Ludhiana 4. Dr. C. Chandershekhar, Pathologist, VPKAS, Almora	**Breeding:** The experiments were conducted in very good manner however, **one coordinated trial no. 71-21-AVT-2 was rejected due to poor plant population.**	**Very Good**
			Agronomy: No trials	
			Plant Pathology & Entomology : No trials	
9	Dhaulakuan	1. Dr. Ashok Kumar, Agronomist, IIMR, New Delhi 2. Dr. N.K. Singh, Breeder GBPUAT, Pantnagar 3. Dr. Jwala Jindal, Entomologist, PAU, Ludhiana 4. Dr. C. Chandershekhar, Pathologist, VPKAS, Almora	**Breeding:** (Volunteer Centre). All two trials were conducted in very good manner. Seeds should reach by first week of June for timely sowing of trials.	**Very Good**
			Plant Pathology: All the trials were conducted in good manner **except 2 inbred trials were rejected due to poor germination.**	**Very Good**
			Agronomy & Entomology: No trials	
			Agronomy: Plant Pathology & Entomology : No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
10	Hyderabad	1. Dr. Chikkappa, G. K, Breeder, IIMR, New Delhi. 2. Dr. Mahesh Kumar, Agronomist, PAU Ludhiana. 3. Dr. A.K.Rai, Entomologist, Tirhut College of 4. Agriculture Dholi, Bihar. 5. Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. 6. Farm, Mandya.	**Breeding:** Technical programme has been implemented as per the plan and experiments were conducted very neatly.	**Excellent**
			Agronomy: All allotted trials were conducted neatly and systematically.	**Excellent**
			Plant Pathology: Technical programme has been implemented as per the plan and experiments were conducted neatly. Pathologist to be posted immediately.	**Excellent**
			Entomology: Technical programme has been implemented as per the plan however border area should be planted by susceptible local variety.	**Very Good**
11	Karimnagar	1. Dr. Chikkappa, G. K, Breeder, IIMR, New Delhi. 2. Dr. Mahesh Kumar, Agronomist, PAU Ludhiana. 3. Dr. A.K.Rai, Entomologist, Tirhut College of Agriculture Dholi, Bihar. 4. Dr. N. Mallikarjuna, Pathologist, Zonal ARS, V.C. Farm, Mandya.	**Breeding:** All the allotted trials were conducted as per the technical programme. Breeding program on line maintenance needs to be improved.	**Excellent**
			Agronomy: All the allotted trials were conducted as per the technical programme.	**Very good**
			Plant Pathology & Entomology: No trials	
12	Karnal	1. Dr. Dilip Singh, Agronomist, MPUAT, Udaipur 2. Dr. Pramod Rokadia, Professor, Breeding, MPUAT, Banswara 3. Dr. S.S. Sharma, Pathologist, MPUAT, Udaipur 4. Dr. Sushant Mahadik, Entomologist, M Shahu Agri School Campus, Kolhapur	**Breeding:** The centre is doing excellent work in maize breeding and all the trials were well managed.	**Excellent**
			Agronomy: Trials were conducted as per approved technical program. One trial on density x nutrient level x Sweet corn was not conducted due to seed mixing/ non receipt of seed.	**Very Good**
			Entomology: Trials were conducted as per approved technical program	**Excellent**
			Plant Pathology: Trials were conducted as per approved technical program.	**Very Good**
13	Ludhiana	1. Dr. Dilip Singh, Agronomist, MPUAT, Udaipur 2. Dr. Pramod Rokadia, Professor, Breeding, MPUAT, Banswara 3. Dr. S.S. Sharma, Pathologist, MPUAT, Udaipur 4. Dr. Sushant Mahadik, Entomologist, M Shahu Agri School Campus, Kolhapur	**Breeding:** The centre is doing excellent work in maize breeding. All fourteen trials were conducted	**Excellent**
			Agronomy: The centre is doing excellent work in maize agronomy and all the trials were well managed.	**Excellent**
			Entomology: The centre is doing excellent work in maize entomology.	**Excellent**
			Plant Pathology: The centre is doing excellent work in maize pathology. However, there is lack of contingency for the conduct of trials.	**Excellent**

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
14	Udhampur	1. Dr. Dilip Singh, Agronomist, MPUAT, Udaipur 2. Dr. Pramod Rokadia, Professor, Breeding, MPUAT, Banswara 3. Dr. S.S. Sharma, Pathologist, MPUAT, Udaipur 4. Dr. Sushant Mahadik, Entomologist, M Shahu Agri School Campus, Kolhapur	**Breeding:** All five trials were conducted in very good manner	**Very Good**
			Agronomy: No agronomy trials were allotted by DMR as the scientist has gone on study leave. No alternative arrangement has been made by the university.been made by the university.	
			Entomology: No trials	
15	Varanasi	1. Dr. Ajay Kumar, Breeder**,** Tirhut College of Agriculture, Dholi, Bihar. 2. Dr. M.V. Singh, Agronomist, NDUAT, Bahraich.	**Breeding:** All the allotted trials were conducted as per the technical programme	**Very Good**
			Agronomy: No trials	
			Plant Pathology & Entomology: No trials	
16	Ambikapur	1. Dr. Ajay Kumar, Breeder**,** Tirhut College of Agriculture, Dholi, Bihar. 2. Dr. M.V. Singh, Agronomist, NDUAT, Bahraich.	**Breeding:** The growth expression was very good in most of the trials.	**Very Good**
			Agronomy: All the allotted trials were conducted as per the technical programme	**Very Good,**
			Plant Pathology & Entomology: No trials	
17	Udaipur	1.Dr. Meena Shekhar, Pathologist, IIMR, New Delhi. 2. Dr. Nirupama Singh, Breeder, IIMR, New Delhi. 3**.** DR. V. K. Paradkar, Agronomist, JNKVV, Chhindwara. 4. Dr. Maha Singh, Entomologist, CCSHAU, Uchani- Karnal	**Breeding:** The plan was implemented as per technical program..	**Excellent**
			Agronomy: The plan was implemented as per technical program.	**Excellent**
			Plant Pathology: The plan was implemented as per technical program	**Excellent**
			Nematology: All the trials were conducted as per plan.	**Excellent**
			Entomology: All the trials were properly managed and recorded as per technical plan.	**Excellent**
18	Banswara	1.Dr. Meena Shekhar, Pathologist, IIMR, New Delhi. 2. Dr. Nirupama Singh, Breeder, IIMR, New Delhi. 3**.** DR. V. K. Paradkar, Agronomist, JNKVV, Chhindwara. 4. Dr. Maha Singh, Entomologist, CCSHAU, Uchani- Karnal	**Breeding:** All trials were conducted in good manner	**Excellent**
			Agronomy: All trials were conducted in good manner	**Excellent**
			Plant Pathology & Entomology: No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
19	Godhara	1.Dr. Meena Shekhar, Pathologist, IIMR, New Delhi. 2. Dr. Nirupama Singh, Breeder, IIMR, New Delhi. 3. DR. V. K. Paradkar, Agronomist, JNKVV, Chhindwara. 4. Dr. Maha Singh, Entomologist, CCSHAU, Uchani- Karnal	**Breeding:** All the trials were conducted in very good manner under rainfed condition.	**Very Good**
			Agronomy: Experiments were conducted in very good conditions and programme implemented as per technical programme.	**Excellent**
			Plant Pathology & Entomology: No trials	
20	Jhabua	1.Dr. Meena Shekhar, Pathologist, IIMR, New Delhi. 2. Dr. Nirupama Singh, Breeder, IIMR, New Delhi. 3. DR. V. K. Paradkar, Agronomist, JNKVV, Chhindwara. 4. Dr. Maha Singh, Entomologist, CCSHAU, Uchani- Karnal	**Breeding:** Out of eight trials seven trials were conducted. One trial no. 61B was not planted and trial no-61A was failed.	**Average**
			Agronomy: Two trials were allotted and both were failed due to drought conditions.	**Poor**
			Plant Pathology & Entomology: No trials	
	Chhindwara	1. Dr. R.B.Dubey, Breeder, MPUAT, Udaipur 2. Dr. C. S. Singh, Agronomist, BAU, Kanke, Ranchi	**Breeding:** All the trials were planted as per technical program	**Excellent**
			Agronomy: All the trials were planted as per technical program	**Excellent**
21.	Coimbatore	1. Dr. J.C.Shekhar, Entomolist, Winter Nursery, IIMR, Hyderabad. 2. Dr. Jyoti Kaul, Breeder, IIMR, New Delhi. 3. Dr. A.K.Sinha, Agronomist, RMD College of Agric, Ambikapur 4. Dr. R.P.Singh, Pathologist, GBPUAT, Pantnagar	**Breeding:** The centre is doing very good work in maize breeding.	**Excellent**
			Agronomy & Entomology: No trials	
			Pathology: Trials were conducted in very good conditions	**Excellent**
22	Vagarai	1. Dr. J.C.Shekhar, Entomolist, Winter Nursery, IIMR, Hyderabad. 2. Dr. Jyoti Kaul, Breeder, IIMR, New Delhi. 3. Dr. A.K.Sinha, Agronomist, RMD College of Agric, Ambikapur 4. Dr. R.P.Singh, Pathologist, GBPUAT, Pantnagar	**Breeding:** Trial were conducted in good manner.	**Good**
			Agronomy: The trials were conducted very neatly.	**Very Good**
			Plant Pathology & Entomology: No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
23	Mandya	1. Dr. J.C.Shekhar, Entomolist, Winter Nursery, IIMR, Hyderabad. 2. Dr. Jyoti Kaul, Breeder, IIMR, New Delhi. 3. Dr. A.K.Sinha, Agronomist, RMD College of Agric, Ambikapur 4. Dr. R.P.Singh, Pathologist, GBPUAT, Pantnagar.	**Breeding:** The centre is doing very good work in maize breeding.	**Excellent**
			Agronomy & Entomology: No trials	
			Plant Pathology: The trials were conducted very neatly. Maize pathologist to be posted immediately.	**Excellent,**
24	Kolhapur	1. Dr. Ramesh Kumar, Breeder, IIMR, Ludhiana 2. Dr. D. Sreelatha, Agronomist, Maize Research Centre, ARI, Hyderabad 3. Dr. P.Laxmi Sojanya, Entomologist, Winter Nursery, IIMR, Hyderabad 4. Dr. Vinod Malik, Pathologist, CCSHAU, Karnal	**Breeding:** Out of twelve trials, eleven trials were rejected only baby corn trial was in good condition	**Average**
			Agronomy: All the three coordinated were not conducted.	**Average**
			Entomology: Trial were conducted in very good manner.	**Very Good**
25	Dharwad	1. Dr. Ramesh Kumar, Breeder, IIMR, Ludhiana 2. Dr. D. Sreelatha, Agronomist, Maize Research Centre, ARI, Hyderabad 3. Dr. P.Laxmi Sojanya, Entomologist, Winter Nursery, IIMR, Hyderabad 4. Dr. Vinod Malik, Pathologist, CCSHAU, Karnal	**Breeding:** Breeding program was well planned and executed.	**Very Good**
			Agronomy: All trials were conducted in very good manner.	**Very Good**
			Pathology : All trials were implemented and disease incidence was also good. There is an urgent need to have separate fully equipped pathology laboratory.	**Very Good**
26	KSSC, Dharwad	1. Dr. Ramesh Kumar, Breeder, IIMR, Ludhiana 2. Dr. D. Sreelatha, Agronomist, Maize Research Centre, ARI, Hyderabad 3. Dr. P.Laxmi Sojanya, Entomologist, Winter Nursery, IIMR, Hyderabad 4. Dr. Vinod Malik, Pathologist, CCSHAU, Karnal	**Breeding:** All three trials were conducted in very good manner.	**Very Good**
27	Bhubneshwar	1. Dr. P. Kumar, Entomologist, IIMR, New Delhi. 2. Dr. Vinay Mahajan, Breeder, IIMR, New Delhi 3. Dr. Amit Kumar, Agronomist, GBPUAT, Pantnagar 4. Dr. Pankaj Baiswar, Pathologist, ICAR-N.East, Barapani.	**Breeding:** All trials were conducted in very good manner. It was suggested to change the land for a better place	**Very Good**
			Agronomy: All four trials were conducted in good manner	**Good**
			Plant Pathology & Entomology: No trials	

Sl. No	Name of Centre	Monitoring Team and Date of Monitoring	Remarks/Comments	Overall Grading
28	Ranchi	1. Dr. P. Kumar, Entomologist, IIMR, New Delhi. 2. Dr. Vinay Mahajan, Breeder, IIMR, New Delhi 3. Dr. Amit Kumar, Agronomist, GBPUAT, Pantnagar 4. Dr. Pankaj Baiswar, Pathologist, ICAR-N.East, Barapani.	**Breeding:** Out of ten trials, one trial on 62-A was rejected.	**Very Good**
			Agronomy: Out of four trials, one trial on weed management was rejected.	**Very Good**
			Plant Pathology & Entomology: No Trial	
29	Dholi	1. Dr. P. Kumar, Entomologist, IIMR, New Delhi. 2. Dr. Vinay Mahajan, Breeder, IIMR, New Delhi 3. Dr. Amit Kumar, Agronomist, GBPUAT, Pantnagar 4. Dr. Pankaj Baiswar, Pathologist, ICAR-N.East, Barapani.	**Breeding:** All trials were conducted in very good manner	**Very Good**
			Agronomy: Out of seven trials three trials namely tillage x nutrient in rice-maize, Tillage x nutrient in maize- wheat and hybrid x density x nutrient in rice-maize were rejected.	**Good**
			Plant Pathology: The plant population must be maintained.	**Very Good**
			Entomology: Technical help is required and atleast one laboratory facility needs to be created.	**Good,**
30	Kashmir	1. Dr. S.L.Jat, Agronomist, IIMR, New Delhi 2. Mr.Vishal Singh, Breeder, IIMR, Ludhiana	**Breeding:** All trials were conducted in a good manner.	**Very Good**
			Agronomy: All trials were conducted in a good manner.	**Very Good,**

ICAR-CIMMYT Collaboration

CONTENTS

Table No.	Trial Code	Trial Description	Centre	No. Entries	Replications	Page No.
20	CAT-159	S3s: QPM conversion of elite non-QPM lines	ICAR-IIMR, New Delhi	50	2	IC37
21	CAT-1571	F2s: High Methionine x QPM Lines (for methionine C56 enrichment of QPM) - Set 2	ICAR-IIMR, Ludhiana	35	1	IC38
22	CAT-1592	S3s: QPM conversion of elite non-QPM lines	PAU, Ludhiana	50	2	IC39
23	CAT-15101	BC1S2s: Elite lines for enhancing drought tolerance	ICAR-IIMR, Ludhiana	40	1	IC40 - IC42
24	CAT-15111	F2s: Improvement of elite inbred lines for agronomic performance	Delhi	148	2	IC43

Proposed ICAR-CIMMYT Technical Programme - 2015-16

Trial	Description / Objective	Management	Ent × Rep × Row	Centres		
Breeding Trials						
CAT1512	Early Maturing QPM Hybrids	Optimum	40x2x1=80	Srinagar	Barapani	Ludhiana (PAU)
CAT1513	Intermediate-Late Maturing QPM Hybrids	Optimum	60x2x1=120	Ludhiana (PAU)		
CAT1518	Extra early maturing (advanced) yellow lines test crosses from DT populations	Optimum	45x2x1=90	Godra		
CAT1521	Extra early maturing (advanced) yellow and white lines test crosses from DTxWL back cross populations	Optimum	15x2x1=30	Karimanagr	Godra	
CAT1522	Extra early maturing (advanced) white lines test crosses from DTxWL biparental populations	Optimum	20x2x1=40	Karimanagr	Godra	
CAT1523	Extra early maturing (advanced) yellow lines test crosses from DTxWL biparental populations	Optimum	15x2x1=30	Karimanagr	Godra	
CAT1524	Medium maturing (advanced) yellow and white lines test crosses from DTXWL biparental populations	Optimum	20x2x1=40	Karimanagr	Godra	
CAT1527	Extra early maturing (advanced) yellow and white lines test crosses from DTxWL back cross populations	Water-logging	15x2x1=30	Dholi	Begusarai	
CAT1528	Extra early maturing (advanced) white lines test crosses from DTxWL biparental populations	Water-logging	20x2x1=40	Dholi	Begusarai	
CAT1529	Extra early maturing (advanced) yellow lines test crosses from DTxWL biparental populations	Water-logging	15x2x1=30	Dholi	Begusarai	
CAT1530	Medium maturing (advanced) yellow and white lines test crosses from DTXWL biparental populations	Water-logging	20x2x1=40	Dholi	Begusarai	
CAT1537	Extra early maturing (advanced) yellow lines test crosses from DT populations	Drought	45x2x1=90	Godra		
CAT1540	Extra early maturing (advanced) yellow and white lines test crosses from DTxWL back cross populations	Drought	15x2x1=30	Karimnagar	Godra	

CAT1541	Extra early maturing (advanced) white lines test crosses from DTxWL biparental populations	Drought	20x2x1=40	Karimnagar	Godra	
CAT1542	Extra early maturing (advanced) yellow lines test crosses from DTxWL biparental populations	Drought	15x2x1=30	Karimnagar	Godra	
CAT1543	Medium maturing (advanced) yellow and white lines test crosses from DTXWL biparental populations	Drought	20x2x1=40	Karimnagar	Godra	
Disease phenotyping trials						
CAT151	Multilocation phenotyping of advanced CIMMYT-Asia lines for turcicum	TLB	75x2x1=150	Almora	Mandya	Arbhavi
CAT152	Multilocation phenotyping of advanced CIMMYT-Asia lines for Fusarium stalk rot	FSR	75x2x1=150	Ludhiana (PAU)		
CAT153	Multilocation phenotyping of advanced CIMMYT-Asia lines for Macrophomina stalk rot	MSR	70x2x1=140	Hyderabad (WNC)	Arbhavi	
CAT154	Multilocation phenotyping of advanced CIMMYT-Asia lines for BLSB	BLSB	75x2x1=150	Dhaulakuan	Delhi (IIMR)	Pantnagar
CAT155	Multilocation phenotyping of advanced CIMMYT-Asia lines for Downy Mildew	DM	75x2x1=150	Mandya	Dhaulakaun	
Breeding Nurseries						
CAT156	F2s: High Methionine x QPM Lines (for methionine enrichment of QPM) - Set 1	Optimum	35x1x15=525	Delhi (IARI)		
CAT157	F2s: High Methionine x QPM Lines (for methionine enrichment of QPM) - Set 2	Optimum	35x1x15=525	Ludhian (IIMR)		
CAT158	F2s: Elite QPM pedigree crosses for development of new generation of elite QPM lines	Optimum	35x1x15=525	Delhi (IIMR)		
CAT159	S3s: QPM conversion of elite non-QPM lines	Optimum	50x2x1=100	Delhi (IIMR)	Ludhiana (PAU)	
CAT1510	BC1S2s: Elite lines for enhancing drought tolerance	Optimum	40x2x1=80	Ludhian (IIMR)		
CAT1511	F2s: Improvement of elite inbred lines for agronomic performance	Optimum	148x2x1=296	Delhi (IIMR)		

Executive Summary of ICAR-CIMMYT Technical Programme - 2015-16

The present report comprises the results of trials conducted as part of the ICAR-CIMMYT Technical Programme 2015-16 under ICAR-CIMMYT collaborative programme which was approved in 58th Annual Maize Workshop of All India Coordinated Maize Improvement Project held at Punjab Agricultural University (PAU), Ludhiana during April 4-6, 2015. During 2015-16, 27 trials were proposed, out of which 16 were of breeding trials, five were of disease phenotyping trials and six were of breeding nurseries. Breeding trials comprises hybrids / test-crosses developed by using different types of germplasm *viz.,* early- and late-maturing quality protein , white and yellow lines derived from drought tolerant populations / drought tolerant back-cross populations / drought tolerant and water-logging tolerant biparental populations etc. The disease phenotyping trial comprises advances CIMMYT-Asia lines, whereas breeding nurseries comprises F_2s, S_3s and BC_1S_2s developed by following pedigree crosses between high-lysine and tryptophan (QPM) and high Methionine lines; drought tolerant traits as well as with superior agronomic performances.

During Kharif 2015, seven breeding trials under optimum management condition across three locations *viz.,* AAU, Godra, ICARRCNEH, Barapani and PAU, Ludhiana; four water-logging trials at RMR&SPC, Begusarai were conducted. Four, disease phenotyping trials were conducted for FSR (Ludhiana), MSR (Hyderabad), TLB (Almora, Larnoo (Kashmir) and Dharwad) and BLSB (Delhi). Five trait specific breeding nurseries were also conducted at IIMR, New Delhi, PAU, Ludhiana and IIMR, Ludhiana for above mentioned traits.

The present report comprises the mean values of observations recorded for different traits on entries under different trials. The details regarding number of entries, replications, trials descriptions and the centre where trials were conducted are given in contents whereas the results of the trials are presented in Table 1 to 24. The pedigree details of the entries are given separately under separate section pedigree details of the trials.

Centres: Barapani

Trial Name: CAT15122	
Entry	**Name**
1	VH141860
2	VH133668
3	VH142012
4	VH141875
5	VH133433
6	VH141981
7	VH133752
8	VH141996
9	VH133670
10	VH133627
11	VH141897
12	VH112650
13	VH133741
14	VH141840
15	VH133393
16	VH141940
17	VH141890
18	VH133324
19	VH141961
20	VH141914
21	VH133687
22	VH141848
23	VH141756
24	VH133327
25	VH141898
26	VH141749
27	VH142005
28	LC RCM 1-1
29	VH141719
30	VH133731
31	VH112667
32	VH133369
33	LC RCM 1-1
34	VH141773
35	AH 1222
36	VH133704
37	VH142007
38	VH141934
39	VH133719
40	VH 133468

Trial Name: CAT-1527

Centres: Begusarai

Entry	Stock ID	Name	Pedigree
1		CL02450	CML442-3/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1//(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-B*4-B
2		CL02450	DTPWC9-F16-1-1-3-2-2-2-1-B/WLS-F36-4-2-2-B//WLS-F36-4-2-2-BB-1-B*4-B
3		CML451	G18SeqC5F100-1-1-3-1-2-B/WLS-F36-4-2-2-B//WLS-F36-4-2-2-BB-1-B*4-B
4		CML451	DTPYC9-F38-4-3-1-3-2-1-2-B/WLS-F36-4-2-2-B//WLS-F36-4-2-2-BB-1-B*4-B
5		CL02450	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-6-BBB-B
6		CL02450	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-7-BBB-B
7		CML451	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-6-BBB-B
8		CML451	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-7-BBB-B
9		CL02450	((CML34-(1+2)-1-1-B1-B/WL-18-6-2-3-3-1-B*5)//(CML34-(1+2)-1-1-BBB))-B-1-BBB-B
10		CL02450	((CML34-(1+2)-1-1-B1-B/WL-18-6-2-3-3-1-B*5)//(CML34-(1+2)-1-1-BBB))-B-12-BBB-B
11		CL02450	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-14-BBB-B
12		CL02450	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-1-BBB-B
13		CL02450	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-9-BBB-B
14		CL02450	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-14-BBB-B
15		CL02450	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-15-BBB-B
16		CML451	((CML34-(1+2)-1-1-B1-B/WL-18-6-2-3-3-1-B*5)//(CML34-(1+2)-1-1-BBB))-B-1-BBB-B
17		CML451	((CML34-(1+2)-1-1-B1-B/WL-18-6-2-3-3-1-B*5)//(CML34-(1+2)-1-1-BBB))-B-11-BBB-B
18		CML451	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-6-BBB-B
19		CML451	((DTPYC9-F87-1-1-1-2-1-2-1-BBB/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(DTPYC9-F87-1-1-1-2-1-2-1-B*4))-B-14-BBB-B
20		CML451	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-2-BBB-B
21		CML451	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-4-BBB-B
22		CML451	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-7-BBB-B
23		CML451	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-11-BBB-B
24		CML451	((CML34-(1+2)-1-1-B1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B)//(CML34-(1+2)-1-1-B1-BBB))-B-15-BBB-B

Trial Name: CAT-1528

Centres: Begusarai

Entry	Stock ID	Name	Pedigree
1		CL02450	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-10-B*4-B
2		CL02450	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-8-B*4-B
3		CL02450	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B2-B1-BB-B
4		CL02450	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-7-B*4-B
5		CL02450	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-14-B*4-B
6		CL02450	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-15-B*4-B
7		CML451	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-10-B*4-B
8		CML451	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-2-B*4-B
9		CML451	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-8-B*4-B
10		CML451	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-8-B*4-B
11		CML451	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-B*4-B
12		CML451	(DTPWC9-F5-4-1-1-2-2-1-1-B/WLS-F36-4-2-2-B)-BB-2-B*4-B
13		CML451	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-7-B*4-B
14		CML451	(G18SeqC5F105-1-1-1-2-3-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-2-B*4-B
15		CML451	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-B*4-B
16		CML451	(ZM523B-29-2-1-1-BBB-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-1-B*4-B

Trial Name: CAT-1529

Centres: Begusarai

Entry	Stock ID	Name	Pedigree
1		CL02450	(G18SeqC5F100-1-1-3-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-B*5
2		CL02450	(ZM621A-10-1-1-1-2-B*10-6/WLS-F36-4-2-2-B)-BB-1-B*5
3		CL02450	(G18SeqC5F19-1-2-1-2-2-B/WLS-F36-4-2-2-B)-BB-1-B*5
4		CL02450	(G18SeqC5F19-1-2-1-2-3-B/WLS-F36-4-2-2-B)-BB-1-B*5
5		CL02450	(ZM621A-10-1-1-1-2-B*10-6/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-9-B*5
6	ZL113725	CL02450	(G18SeqC5F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-2-B*4
7	ZL113724	CL02450	(G18SeqC5F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B*4
8	ZL113706	CL02450	(G18SeqC5F76-2-2-1-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B1-B2-BB
9	ZL113725	CML451	(G18SeqC5F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-2-B*4
10	ZL113706	CML451	(G18SeqC5F76-2-2-1-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B1-B2-BB
11	ZL113724	CML451	(G18SeqC5F19-1-2-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-1-B*4

Trial Name: CAT-1530

Centres: Begusarai

Entry	Stock ID	Name	Pedigree
1		CL02450	(ZM621A-10-1-1-1-2-B*10-6/Bio9681-WLS-6-3-2-1-2-B*4)-BB-3-B*4-B
2		CL02450-BB	(CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-2-B*4-B
3		CML451	(CML444-2/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-2-B*4-B
4		CML451	(DTPWC9-F5-4-1-1-2-2-1-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1)-BB-5-B*4-B
5		CL02450	DTPWC9-F2-3-1-1-2-1-2-1-B/WLS-F36-4-2-2-B//WLS-F36-4-2-2-BB-1-BBB-B
6	ZL113711	CL02450	(CML442-3/Bio9681-WLS-6-3-2-1-2-B*4)-BB-6-BB-B
7	ZL113672	CL02450	(DTPWC9-F67-2-2-1-3-2-1-2-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-4-B2-B2-BB
8	ZL113661	CL02450	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-B*4
9	ZL113663	CL02450	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-3-B*4
10	VH05878A	CML451-BB	DTPWC9-F2-3-1-1-2-1-2-1-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1//(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1-B-1-BBB
11	ZL113653	CML451-BB	(G18SeqC5F105-1-1-1-2-3-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BBB
12	ZL113661	CML451-BB	(DTPWC9-F5-4-1-1-2-2-1-1-B/Bio9681-WLS-6-3-2-1-2-B*4)-BB-1-BBB
13	ZL113885	CML451-BB	(CML440-1/Bio9681-WLS-6-3-2-1-2-B*4)-BB-5-BBB
14	ZL135119	CML451-BB	((DTPWC9-F67-2-2-1-3-2-1-2-BBB/LaPostaSeqC7-F33-1-1-2-2-B*6)//(DTPWC9-F67-2-2-1-3-2-1-2-B*4))-B-9-BB
15	ZL114004	CML451-BB	(G18SeqC5F105-1-1-1-2-3-B/(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F243-1-1)-BB-10-BBB

Trial Name: MSRIT1

Centres: Hyderabad

Entry	Stock ID	Name	Pedigree
1	SN-124-9	SNL142662	DTPYC9-F102-3-1-2-2-1-2-2-B-B-B1-B
2	SN-156-6	SNL142789	(DT/LN/EM-46-3-1xCML311-2-1-3)-B- F350-1-1-1-B
3	SN-156-7	SNL142663	CML-311-2-1-1-B-B-B-B-B-B-B-B
4	SN-156-11		CA00360 / Pio3011F2-3-5-6-1-B-BBB-B-B-B-B-B-B-B
5	SN268-153	VL0512420	CML226-1-2-2-1-B*11-B
6	SN269-44	VL055063	[Ent320:92SEW2-77/[DMRESR-W]EarlySel-#I-2-4-B/CML386]-B-11-3-B-2-#-B*4-1-B*8-B
7	SN269-39	VL05552	CML491-B*8-B
8	SN268-3	VL062618	DTPYC9-F38-4-3-1-2-B*8-B
9	SN268-94	VL062623	DTPYC9-F102-4-5-1-1-BBB-B2-B*5-B
10	SN269-74	VL062630	DTPYC9-F114-2-4-1-2-B*5-B
11	SN268-40	VL062632	DTPYC9-F72-1-2-1-1-B*7-B
12	SN268-14	VL105555	SW5-10-B*5-2-B*8-B
13	SN244-42	VL1017749	P31C4S5B-99-JMM-B*8-1-B*6-B
14	SN268-146	VL1018145	POOL16BNSEQC3F22x1-3-2-2-2-B*9-B
15	SN244-120	VL1077	TL-SEQUIAS03446-1-B-7-1-B*9-B
16	SN270-55	VL1018172	POOL16BNSEQC3F28x15-3-1-2-2-B*8-B
17	SN269-84	SNL153297	CML254-B*8-B
18	SN270-19	VL1018803	DTPYC9-F125-2-8-1-1-B*8-B
19	SN268-7	VL1018806	CLA44-B*5-B
20	SN270-53	SNL1411632	CA03118-B-4-4-2-B-B2-B*4-B
21	SN269-55	VL105546	P45C6HC63-3-1-1-B-2-3-4-1-B*4-1-B*7-B
22	SN268-163	VL105551	POP352CO-HS324-2-2-BB-2-B-1-B*8-B
23	SN269-11	VL105554	SW3-17-BB-2-BBB-2-B*8-B
24	SN275-2	ZL11349	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-1-B
25	SN269-61	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*17-B
26	SN244-11	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7-B
27	SN270-10	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6-B
28	SN270-34	SNL153223	G18SeqC5F19-1-2-1-2-4-B*7-B
29	SN270-35	VL109080	G18SeqC5F19-1-2-1-2-2-B*6-B
30	SN268-137	VL109179	P31C4S5B-23-##-6-B*6-5-B-1-B*6-B
31	SN244-40	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6-B
32	SN270-56	VL109186	Pop31C4S5B-6-##-1-2-B*5-B1-BB-2-B*6-B
33	SN269-86	SNL153298	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F148-1-1-1-1-1-BBB-B
34	SN268-102	VL121095	CLA41-B*6-B
35	SN268-99	VL1212	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F294-1-1-1-B*4-B
36	SN244-133	VL1213	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B*7-B
37	SN268-185	VL144077	CL-RCY031=(CL-02410*CML287)-B-9-1-1-2-B*12-B
38	SN269-19	VL1231	CL-RCW97-B*6-B
39	SN268-149	VL1239	SO4YLWL-90-B-3-1-B-1-B*7-B
40	SN268-150	VL1245	WLS-F191-2-1-1-B-1-B*7-B
41	SN268-151	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB-B
42	SN268-184	SNL153291	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F164-1-1-1-B*6-B
43	SN268-139	VL1259	CL-RCY023=(CL-02439*CML286)-B-1-2-2-B*13-B
44	SN270-11	VL126	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F191-1-1-1-B1-B*4-B
45	SN244-17	VL108870	DTPYC9-F46-3-6-1-2-2-1-2-B*7-B
46	SN244-228	VL1012767	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*11-B
47	SN244-170	VL108504	CA00102/CA00106-B-13-1-B*7-B
48	SN244-192	VL108882	EY-DMR-C5-S2-BB-3-2-B*6-1-B*6-B
49	SN244-239	VL109524	(CML165xKI45)-B-14-1-B*4-1-B*7-B
50	SN244-16	VL108870	DTPYC9-F46-3-6-1-2-2-1-1-BB-B1-B2-BBB-B
51	SN244-304	VL1018680	CML495-B*7-B
52	SN244-129	VL109582	CLQ-RCYQ36-B-1-B*8-B
53	SN244-340	VL1048	CLRCY039-B*7-B
54	SN244-306	VL05550	CML503-B*8-B
55	SN244-288	VL1018553	CML344-B*8-B

Trial Name: MSRIT1

Centres: Hyderabad

Entry	Stock ID	Name	Pedigree
56	SN244-327	VL109282	(CML161xCLQ-RCYQ31)-B-3-6-BB-3-B*8-B
57	SN270-30	VL1251	WLS-F36-4-2-2-B-1-B*7-B
58	SN270-64	VL1062	Messina-03445(S2-Syn)-F1Bulk-78-2-1-B*9-B
59	SN244-155	VL062625	DTPYC9-F46-1-2-1-1-B*7-B
60	SN270-9	VL1018792	CML329/MBRc2amF14-2-B*9-B
61	SN244-27	VL109086	G18SeqC5F76-2-1-2-1-1-B*8-B
62	SN244-111	VL127	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B*7-B
63	SN244-130	SNL142288	CLQ-RCYQ40=(CML165xCLQ-6203)-B-9-1-1-B-2-B*4-1-B*8-B
64	SN244-277	VL051963	CML186-1-B*6-B
65	SN268-138	VL109307	CLQ-RCYQ035-B*13-B
66	SN244-258	VL108869	DTPYC9-F46-3-1-1-2-3-2-2-B*9-B
67	SN244-117	VL107539	(CA14515/CA14509)-F2-7-3-B*11-B
68	SN244-160	VL108304	[CML327xCML287]F2-32-1-B*5-1-B*8-B
69	CL02450	CL02450	CL02450
70	CML474	CML474	CML474
71	CML451	CML451	CML451
72	CML470	CML470	CML470
73	CML165	CML165	CML165
74	CML193	CML193	CML193
75	CML472	CML472	CML472

Trial Name: MSRIT2

Centres: Ludhiana

Entry	Stock ID	Name	Pedigree
1	SN-124-9	SNL142662	DTPYC9-F102-3-1-2-2-1-2-2-B-B-B1-B
2	SN-156-6	SNL142789	(DT/LN/EM-46-3-1xCML311-2-1-3)-B- F350-1-1-1-B
3	SN-156-7	SNL142663	CML-311-2-1-1-B-B-B-B-B-B-B-B
4	SN-156-11	SN-156-11	CA00360 / Pio3011F2-3-5-6-1-B-BBB-B-B-B-B-B-B-B
5	SN268-153	VL0512420	CML226-1-2-2-1-B*11-B
6	SN269-44	VL055063	[Ent320:92SEW2-77/[DMRESR-W]EarlySel-#I-2-4-B/CML386]-B-11-3-B-2-#-B*4-1-B*8-B
7	SN269-39	VL05552	CML491-B*8-B
8	SN268-3	VL062618	DTPYC9-F38-4-3-1-2-B*8-B
9	SN268-94	VL062623	DTPYC9-F102-4-5-1-1-BBB-B2-B*5-B
10	SN269-74	VL062630	DTPYC9-F114-2-4-1-2-B*5-B
11	SN268-40	VL062632	DTPYC9-F72-1-2-1-1-B*7-B
12	SN268-14	VL105555	SW5-10-B*5-2-B*8-B
13	SN244-42	VL1017749	P31C4S5B-99-JMM-B*8-1-B*6-B
14	SN268-146	VL1018145	POOL16BNSEQC3F22x1-3-2-2-2-B*9-B
15	SN244-120	VL1077	TL-SEQUIAS03446-1-B-7-1-B*9-B
16	SN270-55	VL1018172	POOL16BNSEQC3F28x15-3-1-2-2-B*8-B
17	SN269-84	SNL153297	CML254-B*8-B
18	SN270-19	VL1018803	DTPYC9-F125-2-8-1-1-B*8-B
19	SN268-7	VL1018806	CLA44-B*5-B
20	SN270-53	SNL1411632	CA03118-B-4-4-2-B-B2-B*4-B
21	SN269-55	VL105546	P45C6HC63-3-1-1-B-2-3-4-1-B*4-1-B*7-B
22	SN268-163	VL105551	POP352CO-HS324-2-2-BB-2-B-1-B*8-B
23	SN269-11	VL105554	SW3-17-BB-2-BBB-2-B*8-B
24	SN275-2	ZL11349	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F203-1-1-1-B
25	SN269-61	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*17-B
26	SN244-11	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7-B
27	SN270-10	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6-B
28	SN270-34	SNL153223	G18SeqC5F19-1-2-1-2-4-B*7-B
29	SN270-35	VL109080	G18SeqC5F19-1-2-1-2-2-B*6-B
30	SN268-137	VL109179	P31C4S5B-23-##-6-B*6-5-B-1-B*6-B
31	SN244-40	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6-B
32	SN270-56	VL109186	Pop31C4S5B-6-##-1-2-B*5-B1-BB-2-B*6-B
33	SN269-86	SNL153298	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F148-1-1-1-1-1-BBB-B
34	SN268-102	VL121095	CLA41-B*6-B
35	SN268-99	VL1212	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F294-1-1-1-B*4-B
36	SN244-133	VL1213	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F303-1-1-1-B*7-B
37	SN268-185	VL144077	CL-RCY031=(CL-02410*CML287)-B-9-1-1-2-B*12-B
38	SN269-19	VL1231	CL-RCW97-B*6-B
39	SN268-149	VL1239	SO4YLWL-90-B-3-1-B-1-B*7-B
40	SN268-150	VL1245	WLS-F191-2-1-1-B-1-B*7-B
41	SN268-151	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB-B
42	SN268-184	SNL153291	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F164-1-1-1-B*6-B
43	SN268-139	VL1259	CL-RCY023=(CL-02439*CML286)-B-1-2-2-B*13-B
44	SN270-11	VL126	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F191-1-1-1-B1-B*4-B
45	SN244-17	VL108870	DTPYC9-F46-3-6-1-2-2-1-2-B*7-B
46	SN244-228	VL1012767	(CTS013050/(AMATLC0HS167-1-1-1-2F/R)-B*5/Ki44)-B*11-B
47	SN244-170	VL108504	CA00102/CA00106-B-13-1-B*7-B
48	SN244-192	VL108882	EY-DMR-C5-S2-BB-3-2-B*6-1-B*6-B
49	SN244-239	VL109524	(CML165xKI45)-B-14-1-B*4-1-B*7-B
50	SN244-16	VL108870	DTPYC9-F46-3-6-1-2-2-1-1-BB-B1-B2-BBB-B
51	SN244-304	VL1018680	CML495-B*7-B
52	SN244-129	VL109582	CLQ-RCYQ36-B-1-B*8-B
53	SN244-340	VL1048	CLRCY039-B*7-B
54	SN244-306	VL05550	CML503-B*8-B
55	SN244-288	VL1018553	CML344-B*8-B

Trial Name: MSRIT2

Centres: Ludhiana

Entry	Stock ID	Name	Pedigree
56	SN244-327	VL109282	(CML161xCLQ-RCYQ31)-B-3-6-BB-3-B*8-B
57	SN270-30	VL1251	WLS-F36-4-2-2-B-1-B*7-B
58	SN270-64	VL1062	Messina-03445(S2-Syn)-F1Bulk-78-2-1-B*9-B
59	SN244-155	VL062625	DTPYC9-F46-1-2-1-1-B*7-B
60	SN270-9	VL1018792	CML329/MBRc2amF14-2-B*9-B
61	SN244-27	VL109086	G18SeqC5F76-2-1-2-1-1-B*8-B
62	SN244-111	VL127	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B*7-B
63	SN244-130	SNL142288	CLQ-RCYQ40=(CML165xCLQ-6203)-B-9-1-1-B-2-B*4-1-B*8-B
64	SN244-277	VL051963	CML186-1-B*6-B
65	SN268-138	VL109307	CLQ-RCYQ035-B*13-B
66	SN244-258	VL108869	DTPYC9-F46-3-1-1-2-3-2-2-B*9-B
67	SN244-117	VL107539	(CA14515/CA14509)-F2-7-3-B*11-B
68	SN244-160	VL108304	[CML327xCML287]F2-32-1-B*5-1-B*8-B
69	CL02450	CL02450	CL02450
70	CML474	CML474	CML474
71	CML451	CML451	CML451
72	CML470	CML470	CML470
73	CML165	CML165	CML165
74	CML193	CML193	CML193
75	CML472	CML472	CML472

Trial Name: TLBIT-11

Centres: Larnoo, Kashmir

Entry	Stock ID	Name	Pedigree
1	CL02450	CL02450	CL02450
2	V746-40	CML165	CML165
3	K10-38	VL0512418	CML224-B*9
4	K8-70	VL0512421	CML227-B*9
5	V715-215	VL05127	CML181-B*5
6	K10-64	VL0536	[CML389/CML176]-B-29-2-2-B*6-1-B*7
7	K10-58	VL05552	CML491-B*8
8	K10-111	VL05606	CLQ-RCWQ50-B*12
9	V715-259	VL05614	CZL99014-B-2-BBB
10	V715-325	VL057982	ZEWAc1F2-134-4-1-B-1-B*4-1-B-1-B*5
11	K10-44	VL058725	CML312-1-B*7
12	K8-11	VL062606	DTPYC9-F142-3-2-1-2-1-2-2-B*7
13	V794-13	VL062607	DTPYC9-F143-5-4-1-2-B*4-B1-BBB
14	K9-4	VL1010760	(CLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBBxP390Am/CMLc4F218-B-1-B)-B-4-2-BB-2-B*6
15	V715-8	VL1010762	(CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-20-2-BB-1-BBB
16	V715-371	VL1010764	(CML165xCL-02843)-B-12-3-1-BB-1-B*5
17	K9-90	VL1012763	(CTS011004/EY-DMR-G-C5-S2-BB-3-1-B*4/Pop147)F2#89-3-2-B-1-B*13
18	V715-301	VL1012768	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*8
19	K10-54	VL1012903	CML465-B*7
20	K10-18	VL1018140	DTPWC9-F75-3-2-1-2-2-1-3-B*7
21	K8-50	VL1018165	POOL16BNSEQC3F24x10-1-1-2-1-B*9
22	V715-217	VL1018419	CML193-BB
23	V715-229	VL1018527	CML317-2-BBB
24	K8-73	VL1018625	CML422-2-B*7
25	V715-242	VL1018640	CML448-BBB
26	K10-110	VL1018641	CML449-B*6
27	K10-59	VL1018680	CML495-B*7
28	V715-407	VL1018798	CLRCY018-BB
29	K8-79	VL102	([Pop445c1F2-1-1xPop446c1F2]x[Pop446c1F2-358-2xPop445c1F2])-#-38-2-B*9
30	K10-68	VL1020	[[[K64R/G16SR]-39-1/[K64R/G16SR]-20-2]-5-1-2-B*4/CML390]-B-38-1-B-7-#/[BETASYN]BC1-1-1-1-#-B*10
31	V715-70	VL1030	CA03139-BBB-2-B*4
32	K9-87	VL1031	CA03141-1-B-2-B*8
33	K8-7	VL1033	CA14514-B-2-B-2-B*6
34	K9-40	VL1034	CA14709-4-7-5-1-B*6
35	V715-343	VL1048	CLRCY039-B*5
36	K10-93	VL1049	CLRCY040-B*8
37	K9-65	VL105549	POP351C0-HS155-3-1-BB-1-B-1-B*7
38	K10-5	VL107579	(CML226xCML295)-32-1-2-2-B-1-B*9
39	K8-88	VL1076	Pop31C4S5B-85-##-1-2-B*5-B2-BB-4-B*8
40	K9-104	VL107649	(CML474/S92145-2EV-7-3-B*5)-F2-25-1-B*10
41	K9-25	VL108501	CA00102/CA00106-B-12-2-B*7
42	K9-27	VL108665	CA00102/CA03149-B-5-2-B*7
43	V715-58	VL108706	CA00106/CA03147-BB-3-BBB
44	V715-355	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*14
45	V715-302	VL108724	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*12
46	K9-148	VL108734	SW92145-2EV-7-3-B*5-5-B-1-B*5
47	K10-108	VL108808	CLRCY015-B*6
48	K8-9	VL108853	DTPYC9-F134-2-1-2-1-2-1-1-B*6
49	K8-10	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7
50	K9-46	VL108856	DTPYC9-F142-1-4-1-2-1-2-1-B*4-B1-BBB
51	K9-47	VL108859	DTPYC9-F143-5-5-1-2-1-2-2-B*8
52	K8-12	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6
53	K8-22	VL109080	G18SeqC5F19-1-2-1-2-2-B*6
54	K8-24	VL109081	G18SeqC5F236-1-2-1-2-2-B*7

Trial Name: TLBIT-11

Centres: Larnoo, Kashmir

Entry	Stock ID	Name	Pedigree
55	K8-27	VL109086	G18SeqC5F76-2-1-2-1-2-BB-B3-B-B1-BB
56	V715-238	VL109138	CML433-B*4
57	K9-5	VL109250	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*7
58	V715-310	VL109449	(CLQ-6601xCL-02843)-B-2-2-1-BB-1-B*5
59	V715-4	VL109452	(CLQ-6601xCL-02843)-B-26-3-1-BB-2-B*4
60	V715-365	VL109470	(CLQ-RCYQ31xCLQ-RCYQ49=(CML176xCL-G2501)-B-55-2-1-B)-B-34-1-BB-4-B*5
61	K10-81	VL109545	[CL-G2501xCML170]-B-2-3-2-BB-3-B*8
62	K9-111	VL109576	CLQ-6603-B-1-B*8
63	K9-137	VL1244	WLS-F190-2-1-1-B-2-B*6
64	V715-200	VL1249	WLS-F299-2-1-2-B-2-BBB
65	V715-272	VL106	(CA14502/CA14509)-F2-31-1-B*6
66	V715-52	VL1225	AMATLCOHS44-5-2-2-1-1-B*7
67	V715-147	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-BBB
68	V715-198	VL1247	WLS-F238-2-2-1-B-1-B*4
69	V715-357	VL108726	CA03147-B*4
70	V715-21	VL127	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F192-1-1-1-B*4
71	V715-36	VL1222	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F81-1-1-1-BBB
72	CML474	CML474	CML474
73	CML472	CML472	CML472
74	CML470	CML470	CML470
75	CML451	CML451	CML451

Trial Name: TLBIT-21

Centres: Almora

Entry	Name
1	CLO2450
2	CML 165
3	CML 451
4	CML 470
5	CML 474
6	SNL 1411634
7	SNL 1411635
8	SNL 1412548
9	SNL 153223
10	SNL 153225
11	SNL 153277
12	SNL 153280
13	SNL 153294
14	SNL 153296
15	SNL 153297
16	VL 0511321
17	VL 0512418
18	VL 057982
19	VL 058725
20	VL 062607
21	VL 1010760
22	VL 1010764
23	VL 1010764
24	VL 1012768
25	VL 1012903
26	VL 1018140
27	VL 1018165
28	VL 1018393
29	VL 1018419
30	VL 1018527
31	VL 1018625
32	VL 1018680
33	VL 1018794
34	VL 102
35	VL 1030
36	VL 1031
37	VL 1033
38	VL 1043
39	VL 1047
40	VL 1048
41	VL 1049
42	VL 1050
43	VL 1055
44	VL 105549
45	VL 106
46	VL 107579
47	VL 1076
48	VL 107649
49	VL 107824
50	VL 108501
51	VL 108665
52	VL 108706
53	VL 108723
54	VL 108726
55	VL 108808
56	VL 108810
57	VL 108853
58	VL 108855
59	VL 108856
60	VL 108859
61	VL 108860
62	VL 109080
63	VL 109086
64	VL 109179
65	VL 109184
66	VL 109250
67	VL 109449
68	VL 109507
69	VL 109545
70	VL 109576
71	VL 1221
72	VL 1225
73	VL 1244
74	VL 1247
75	VL 1253

Trial Name: TLBIT-23

Centres: Dharwad

Entry	Stock ID	Name	Pedigree
1	CL02450	CL02450	CL02450
2	V746-40	CML165	CML165
3	SN269-25	VL0512418	CML224-B*9-B
4	SN269-83	SNL153296	CML227-B*9-B
5	SN268-12	VL057982	ZEWAc1F2-134-4-1-B-1-B*4-1-B-1-B*8-B
6	SN244-284	VL058725	CML312-1-B*7-B
7	SN244-13	VL062607	DTPYC9-F143-5-4-1-2-B*4-B1-BBB-B
8	SN269-5	VL1010760	(CLQ-RCYQ14=(CML164*CML161)-B-1-1-1-BBBxP390Am/CMLc4F218-B-1-B)-B-4-2-BB-2-B*6-B
9	SN269-81	SNL153294	(CL-RCY016x(CML165xCLQ-6203)-B-54-1-1-BB)-B-20-2-BB-1-B*6-B
10	SN269-65	VL1010764	(CML165xCL-02843)-B-12-3-1-BB-1-B*8-B
11	SN268-90	VL1012768	(CTS013058/(AMATLC0HS167-1-1-1-2F/R)-B*5/Nei402011)-B*11-B
12	SN269-35	VL1012903	CML465-B*7-B
13	SN268-105	VL1018140	DTPWC9-F75-3-2-1-2-2-1-3-B*7-B
14	SN270-54	VL1018165	POOL16BNSEQC3F24x10-1-1-2-1-B*9-B
15	SN269-24	VL1018419	CML193-B*5-B
16	SN269-84	SNL153297	CML254-B*8-B
17	SN269-27	VL1018527	CML317-2-B*6-B
18	SN270-59	VL1018625	CML422-2-B*7-B
19	K8-79	VL102	([Pop445c1F2-1-1xPop446c1F2]x[Pop446c1F2-358-2xPop445c1F2])-#-38-2-B*9
20	SN268-59	VL1030	CA03139-BBB-2-B*7-B
21	SN268-88	VL1031	CA03141-1-B-2-B*8-B
22	SN270-72	VL1033	CA14514-B-2-B-2-B*6-B
23	SN268-61	SNL1411634	CA14709-4-7-5-1-B*6-B
24	SN269-58	VL1048	CLRCY039-B*7-B
25	SN269-59	VL1049	CLRCY040-B*8-B
26	SN269-33	VL1055	CML451-B*8-B
27	SN270-27	VL105549	POP351C0-HS155-3-1-BB-1-B-1-B*7-B
28	SN269-16	VL107579	(CML226xCML295)-32-1-2-2-B-1-B*9-B
29	SN270-67	VL1076	Pop31C4S5B-85-##-1-2-B*5-B2-BB-4-B*8-B
30	SN268-16	VL107649	(CML474/S92145-2EV-7-3-B*5)-F2-25-1-B*10-B
31	SN268-54	VL108501	CA00102/CA00106-B-12-2-B*7-B
32	SN244-171	VL108665	CA00102/CA03149-B-5-2-B*7-B
33	SN268-58	VL108706	CA00106/CA03147-BB-3-B*6-B
34	SN269-61	VL108723	CA00310/AMATLC0HS71-1-1-2-1-1-1-B*17-B
35	SN269-48	VL108724	CA00370/(AMATLC0HS133-1-F/R)-1-3-1-2-5-B*15-B
36	SN270-88	SNL153277	SW92145-2EV-7-3-B*5-5-B-1-B*5-B
37	SN269-73	VL108808	CLRCY015-B*6-B
38	SN270-1	VL108853	DTPYC9-F134-2-1-2-1-2-1-1-B*6-B
39	SN270-4	VL108855	DTPYC9-F142-1-3-1-2-1-2-2-B*7-B
40	SN270-23	VL108856	DTPYC9-F142-1-4-1-2-1-2-1-B*4-B1-BBB-B
41	SN268-64	VL108859	DTPYC9-F143-5-5-1-2-1-2-2-B*8-B
42	SN270-10	VL108860	DTPYC9-F145-3-2-1-2-2-1-2-B*6-B
43	SN270-35	VL109080	G18SeqC5F19-1-2-1-2-2-B*6-B
44	SN270-34	SNL153223	G18SeqC5F19-1-2-1-2-4-B*7-B
45	SN270-36	SNL153225	G18SeqC5F236-1-2-1-2-2-B*7-B
46	SN244-28	VL109086	G18SeqC5F76-2-1-2-1-2-BB-B3-B-B1-BB-B
47	SN244-291	SNL1411635	CML433-B*7-B
48	SN269-6	VL109250	(CLQ-RCYQ28xP390Am/CMLc4F218-B-1-B)-B-43-1-BB-2-B*7-B
49	SN268-128	VL109449	(CLQ-6601xCL-02843)-B-2-2-1-BB-1-B*8-B
50	SN275-12	VL1010764	(CLQ-6601xCL-02843)-B-26-3-1-BB-2-B*4-B
51	SN268-130	VL109545	[CL-G2501xCML170]-B-2-3-2-BB-3-B*8-B
52	SN270-5	VL109576	CLQ-6603-B-1-B*8-B
53	SN270-17	VL1244	WLS-F190-2-1-1-B-2-B*6-B
54	SN275-5	SNL1412548	WLS-F299-2-1-2-B-2-BB-B
55	SN270-91	SNL153280	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F232-1-1-1-1-B*4-B

Trial Name: TLBIT-23

Centres: Dharwad

Entry	Stock ID	Name	Pedigree
56	SN268-155	VL106	(CA14502/CA14509)-F2-31-1-B*9-B
57	SN268-140	VL1225	AMATLCOHS44-5-2-2-1-1-B*10-B
58	SN270-46	VL109179	P31C4S5B-23-##-6-B*7-3-B-1-B*6-B
59	SN268-151	VL1247	WLS-F238-2-2-1-B-1-B*4-B1-BB-B
60	SN268-169	VL108726	CA03147-B*7-B
61	SN269-62	VL108810	CLRCY038-B*7-B
62	SN270-33	VL109184	P31C4S5B-85-##-1-4-5-B*5-1-B-1-B*8-B
63	SN269-47	VL1047	CLRCY030-B*8-B
64	SN270-31	VL1018393	CML164-B*8-B
65	SN269-3	VL0511321	[TS6C1F238-1-3-3-1-2-#-BB/[EV7992#/EV8449-SR]C1F2-334-1(OSU8i)-10-7(I)-X-X-X-2-BB-1]-1-1-2-1-1-B*5-1-B-B2-B*4-B
66	SN244-319	VL1050	CLRCY041-B*8-B
67	SN270-84	VL1018794	S87P69Q(SIYF)131-2-2-1-B*7-B
68	SN269-34	VL1253	CML452=Ac8328BNC6-166-1-1-1-B*15-B
69	SN269-50	VL109507	(CML161xCLQ-RCYQ31)-B-23-2-BB-1-B*8-B
70	SN270-12	VL1221	(DT/LN/EM-46-3-1xCML311-2-1-3)-B-F76-1-1-1-B*5-B
71	SN269-40	VL1018680	CML495-B*7-B
72	SN244-225	VL1043	CLQRCYQ59-B*8-B
73	CML474	CML474	CML474
74	CML470	CML470	CML470
75	CML451	CML451	CML451

Trial Name: BLSBIT1

Centres: Delhi

Entry	Name
1	VL1016197
2	VL1095470
3	VL107389
4	VL1016211
5	VL1030
6	SNL1411637
7	VL108880
8	VL1018496
9	VL1018510
10	VL1253
11	VL058725
12	VL109545
13	VL109293
14	VL1062606
15	VL108726
16	SNL153296
17	VL1012756
18	VL1061
19	VL105555
20	VL109287
21	VL108303
22	VL0511321
23	VL109451
24	VL108501
25	VL108665
26	VL1010090
27	SNL1411634
28	VL108849
29	VK1017777
30	VL1232
31	VL1240
32	VL105606
33	VL1031
34	VL05616
35	VL1018673
36	VL121096
37	VL1012903
38	VL1043
39	VL1047
40	VL108526
41	VL1012847
42	SNL142796
43	SNL142798
44	SNL142799
45	SNL142800
46	SNL142371
47	SNL142801
48	SNL142359
49	SNL142363
50	SNL142666
51	SNL142793
52	SNL142355
53	SNL142327
54	SNL142320
55	SNL142344
56	SNL142351

Entry	Name
57	SNL142381
58	SNL142333
59	SNL142337
60	SNL142340
61	SNL142370
62	SNL142384
63	SNL142360
64	SNL142364
65	SNL142367
66	VL108496
67	SNL142665
68	SNL142664
69	VL108725
70	SNL143278
71	VL108806
72	VL1050
73	CML474
74	VL02450
75	CML165

Centres: ICAR-IIMR, New Delhi				Centres: ICAR-IIMR, Ludhiana		
Trial Name: CAT158		Trial Name: CAT159		Trial Name: CAT1571		
Entry	Name	Entry	Name	Entry	Name	Pedigree
1	KL153505	1	KL142329	1	KL153350	KL153350
2	KL153506	2	KL142330	2	KL153351	KL153351
3	KL153507	3	KL142331	3	KL153353	KL153353
4	KL153508	4	KL142332	4	KL153354	KL153354
5	KL153509	5	KL142333	5	KL153355	KL153355
6	KL153510	6	KL142364	6	KL153356	KL153356
7	KL153511	7	KL142365	7	KL153359	KL153359
8	KL153512	8	KL142366	8	KL153360	KL153360
9	KL153513	9	KL142367	9	KL153361	KL153361
10	KL153514	10	KL142324	10	KL153362	KL153362
11	KL153522	11	KL142325	11	KL153363	KL153363
12	KL153515	12	KL142326	12	KL153364	KL153364
13	KL153516	13	KL142327	13	KL153365	KL153365
14	KL153517	14	KL142328	14	KL153366	KL153366
15	KL153523	15	KL142345	15	KL153368	KL153368
16	KL153518	16	KL142346	16	KL153369	KL153369
17	KL153519	17	KL142347	17	KL153370	KL153370
18	KL153489	18	KL142348	18	KL153371	KL153371
19	KL153490	19	KL142349	19	KL153372	KL153372
20	KL153491	20	KL142350	20	KL153374	KL153374
21	KL153492	21	KL142351	21	KL153375	KL153375
22	KL153493	22	KL142352	22	KL153376	KL153376
23	KL153494	23	KL142353	23	KL153378	KL153378
24	KL153495	24	KL142354	24	KL153379	KL153379
25	KL153496	25	KL142355	25	KL153380	KL153380
26	KL153497	26	KL142356	26	KL153381	KL153381
27	KL153498	27	KL142357	27	KL153383	KL153383
28	KL153499	28	KL142376	28	KL153384	KL153384
29	KL153500	29	KL142358	29	KL153385	KL153385
30	KL153501	30	KL142359	30	KL153387	KL153387
31	KL153502	31	KL142360	31	KL153388	KL153388
32	KL153503	32	KL142361	32	KL153389	KL153389
33	KL153504	33	KL142362	33	KL153390	KL153390
34	KL153520	34	KL142363	34	KL153392	KL153392
35	KL153521	35	KL142378	35	KL153393	KL153393
		36	KL142379			
		37	KL142334			
		38	KL142369			
		39	KL142371			
		40	KL142335			
		41	KL142336			
		42	KL142337			
		43	KL142338			
		44	KL142339			
		45	KL142373			
		46	KL142340			
		47	KL142341			
		48	KL142342			
		49	KL142343			
		50	KL142344			

Trial Name: CAT15101		
Centres: ICAR-IIMR, Ludhiana		
Entry	**Name**	**Pedigree**
1	VL154354	VL154354
2	VL154355	VL154355
3	VL154356	VL154356
4	VL154357	VL154357
5	VL154358	VL154358
6	VL154359	VL154359
7	VL154360	VL154360
8	VL154361	VL154361
9	VL154362	VL154362
10	VL154363	VL154363
11	VL154364	VL154364
12	VL154365	VL154365
13	VL154366	VL154366
14	VL154367	VL154367
15	VL154368	VL154368
16	VL154369	VL154369
17	VL154370	VL154370
18	VL154371	VL154371
19	VL154372	VL154372
20	VL154373	VL154373
21	VL154374	VL154374
22	VL154375	VL154375
23	VL154376	VL154376
24	VL154377	VL154377
25	VL154378	VL154378
26	VL154379	VL154379
27	VL154380	VL154380
28	VL154381	VL154381
29	VL154382	VL154382
30	VL154383	VL154383
31	VL154384	VL154384
32	VL154385	VL154385
33	VL154386	VL154386
34	VL154387	VL154387
35	VL154388	VL154388
36	VL154389	VL154389
37	VL154390	VL154390
38	VL154391	VL154391
39	VL154392	VL154392
40	VL 154393	VL 154393

Trial Name: CAT15111							
Centres: Delhi							
Entry	**Name**	**Entry**	**Name**	**Entry**	**Name**	**Entry**	**Name**
1	KL153683	57	KL153704	113	KL153693		
2	KL153685	58	KL153705	114	KL153699		
3	KL153677	59	KL153708	115	KL153697		
4	KL153674	60	KL153707	116	KL153696		
5	KL153687	61	KL153709	117	KL153694		
6	KL153686	62	KL153768	118	KL153695		
7	KL153675	63	KL153766	119	KL153703		
8	KL153676	64	KL153767	120	KL153751		
9	KL153678	65	KL153696	121	KL153752		
10	KL153682	66	KL153760	122	KL153657		
11	KL153681	67	KL153764	123	KL153659		
12	KL153679	68	KL153763	124	KL153650		
13	KL153680	69	KL153762	125	KL153660		
14	KL153747	70	KL153761	126	KL153651		
15	KL153748	71	KL153765	127	KL153652		
16	KL153746	72	VL154489	128	KL153653		
17	KL153745	73	KL153669	129	KL153658		
18	KL153744	74	KL153671	130	KL153656		
19	KL153749	75	KL153664	131	KL153654		
20	KL153754	76	KL153672	132	KL153655		
21	KL153758	77	KL153662	133	KL153661		
22	KL153753	78	KL153663	134	KL153742		
23	KL153757	79	KL153670	135	KL153743		
24	KL153756	80	KL153668	136	KL153738		
25	KL153755	81	KL153667	137	KL153737		
26	KL153759	82	KL153665	138	KL153739		
27	VL154453	83	KL153666	139	KL153740		
28	VL154452	84	KL153673	140	KL153735		
29	VL154454	85	KL153715	141	KL153734		
30	VL154456	86	KL153711	142	KL153763		
31	VL154455	87	KL153710	143	KL153770		
32	VL154457	88	KL153712	144	KL153771		
33	VL154458	89	KL153716	145	KL153772		
34	VL154459	90	KL153714	146			
35	VL154460	91	KL153713	147			
36	VL154462	92	KL153722	148			
37	VL154466	93	KL153723				
38	VL155465	94	KL153717				
39	VL154468	95	KL153718				
40	VL154469	96	KL153721				
41	VL154470	97	KL153720				
42	VL154472	98	KL153719				
43	VL154473	99	KL153728				
44	VL154474	100	KL153732				
45	VL154475	101	KL153731				
46	VL154476	102	KL153729				
47	VL154477	103	KL153730				
48	KL153726	104	KL153733				
49	KL153725	105	KL153698				
50	KL153724	106	KL153700				
51	VL154479	107	KL153692				
52	VL154484	108	KL153689				
53	VL154486	109	KL153702				
54	VL1544787	110	KL153701				
55	VL154488	111	KL153690				
56	KL153706	112	KL153691				

Table 1. CAT-1518

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	55	6	53	6	3	40	66	16	5746	16	33	4	154	18	90	2
2	57	1	55	1	5	15	49	44	6730	6	32	9	151	25	89	3
3	56	3	54	3	3	34	68	12	4335	36	31	13	160	13	82	31
4	53	14	51	14	3	42	81	1	4982	26	30	36	166	4	88	6
5	52	18	50	18	1	44	43	45	3719	41	32	10	143	39	85	15
6	52	19	50	19	5	16	61	26	7792	2	30	28	154	19	86	14
7	51	28	49	28	1	45	58	32	3482	42	31	14	148	34	78	41
8	52	20	50	20	3	35	56	34	4866	29	31	22	155	17	85	21
9	54	8	52	7	3	41	53	39	4453	33	30	29	140	43	83	30
10	51	29	49	29	1	43	66	13	3197	45	28	45	150	31	73	43
11	52	27	49	30	5	1	78	2	6331	11	34	1	166	5	83	29
12	53	15	51	15	3	36	55	35	5352	24	30	30	161	11	87	8
13	54	12	52	12	3	22	63	20	3378	43	30	31	162	10	88	5
14	52	21	50	21	3	37	58	30	6247	12	31	23	150	32	84	22
15	55	7	52	8	5	2	54	37	5543	20	33	5	148	35	86	12
16	53	13	51	13	3	38	65	17	4347	35	33	2	148	36	85	20
17	50	35	48	35	5	3	68	9	7140	4	30	37	149	33	89	4
18	49	42	47	42	3	23	58	31	4964	27	30	32	153	22	72	44
19	54	9	52	9	3	24	59	28	3880	39	29	40	153	23	79	37
20	52	22	50	22	3	39	66	14	4229	38	32	11	153	24	87	7
21	52	23	50	23	5	4	61	23	5380	23	29	41	150	29	78	39
22	50	36	48	36	5	5	50	40	5940	15	33	6	145	38	85	16
23	51	30	49	31	3	25	50	41	4245	37	29	42	151	26	85	18
24	52	24	50	24	3	26	49	42	4604	31	31	15	150	30	83	28
25	49	43	47	43	3	27	70	7	4518	32	31	24	164	7	86	13
26	50	37	48	37	4	20	68	10	5433	22	32	12	146	37	82	32
27	50	38	48	38	5	6	71	6	6390	10	30	33	160	14	86	11
28	49	44	47	44	3	28	61	24	4901	28	30	34	136	45	80	36
29	51	32	49	33	3	29	63	19	5591	19	29	43	154	20	86	10
30	52	25	50	25	4	21	55	36	3352	44	29	44	165	6	68	45
31	51	31	49	32	5	7	68	11	6470	8	31	16	161	12	86	9
32	53	16	51	16	5	8	69	8	6616	7	32	7	168	2	85	17
33	52	26	50	26	5	9	59	29	5700	17	31	17	163	8	83	26
34	50	39	48	39	3	30	49	43	5308	25	30	35	151	27	95	1
35	49	45	47	45	5	10	56	33	5942	14	31	18	139	44	85	19
36	51	33	49	34	5	11	61	25	6217	13	31	25	141	42	82	33
37	50	40	48	40	5	12	66	15	5598	18	31	19	151	28	83	25
38	50	41	48	41	5	13	63	21	5462	21	31	26	142	41	77	42
39	54	10	52	10	3	31	73	5	3779	40	32	8	163	9	84	24
40	53	17	51	17	5	14	74	4	8774	1	30	38	160	15	79	38
41	57	2	55	2	3	32	53	38	4387	34	33	3	159	16	81	34
42	56	4	54	4	3	33	60	27	4606	30	30	39	143	40	81	35
43	56	5	54	5	5	17	64	18	7126	5	31	20	168	3	83	27
44	54	11	52	11	5	18	63	22	7142	3	31	21	169	1	84	23
45	**50.5**	**34**	**49.5**	**27**	**5**	**19**	**77.5**	**3**	**6467.88**	**9**	**30**	**27**	**153.75**	**21**	**77.68**	**40**
General Mean	52.08	.	50.09	.	3.51	.	61.59	.	5348.07	.	30.64	.	153.57	.	83.19	.
p-Value	<.0001	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.	0.2902	.	0.0292	.	<.0001	.
CV(%)	0.94	.	0.9	.	10.73	.	8.95	.	5.33	.	5.5	.	5.93	.	0	.
SE(d)	0.488	.	0.452	.	0.377	.	5.514	.	285.167	.	1.684	.	9.107	.	0	.
Tukey HSD at 1%	2.3508	.	2.1775	.	1.8146	.	26.548	.	1373	.	NS	.	43.847	.	0	.

Table 2. CAT-1521

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	53	3	51	3	5	1	73	4	7866	1	31	5	180	1	88	2
2	52	5	50	5	5	2	63	25	5241	16	31	6	160	25	71	24
3	50	16	48	17	3	25	65	19	3892	29	30	11	170	9	73	21
4	49	26	47	27	5	3	70	8	5083	18	29	19	175	3	71	25
5	52	6	50	6	5	4	55	30	6273	8	31	7	163	21	71	22
6	55	1	53	1	3	23	60	28	4351	25	30	15	158	29	73	20
7	50	17	48	18	5	18	70	9	5132	17	30	16	175	4	62	30
8	49	27	47	28	5	5	73	5	5626	13	30	12	173	8	81	14
9	52	7	50	7	5	6	70	10	6879	5	29	20	175	5	81	12
10	52	8	50	8	3	26	65	20	4633	23	27	21	163	22	81	13
11	53	4	51	4	1	27	60	29	3860	30	27	22	155	30	83	9
12	52	9	50	9	1	29	68	14	4813	22	32	2	165	17	84	6
13	50	18	48	19	1	28	75	2	4266	26	25	24	170	10	68	27
14	50	19	48	20	1	30	73	6	5622	14	24	27	175	6	89	1
15	50	20	49	15	5	7	73	7	6484	7	25	25	170	11	82	11
16	50	21	48	21	4	20	68	15	6887	4	30	13	168	14	74	18
17	52	10	50	10	3	24	70	11	4925	19	23	28	170	12	83	7
18	50	22	48	22	5	8	68	16	7211	2	34	1	160	26	75	16
19	50	23	48	23	5	9	70	12	4205	27	23	29	168	15	81	15
20	49	28	48	24	5	10	70	13	4904	21	26	23	160	27	85	3
21	52	11	50	11	5	11	63	26	4537	24	31	9	165	18	64	28
22	48	30	46	30	5	12	85	1	7169	3	30	18	180	2	75	17
23	49	29	47	29	5	13	68	17	6262	9	32	4	165	19	83	8
24	50	24	48	25	5	14	65	21	6570	6	31	10	163	23	84	5
25	50	25	48	26	5	15	63	27	4910	20	25	26	160	28	73	19
26	55	2	53	2	3	21	65	22	3912	28	30	17	170	13	63	29
27	52	12	50	12	5	16	75	3	6064	10	30	14	175	7	82	10
28	52	13	50	13	5	17	65	23	5845	12	31	8	168	16	70	26
29	52	14	50	14	3	22	68	18	5990	11	32	3	165	20	84	4
30	50	15	48	16	5	19	63	24	5285	15	17	30	160	24	71	23
General Mean	**51**	**.**	**49**	**.**	**4**	**.**	**68**	**.**	**5490**	**.**	**28**	**.**	**167**	**.**	**77**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	1	.	<.0001	.	0	.	0	.	<.0001	.
CV(%)	0	.	0	.	8	.	14	.	6	.	14	.	6	.	0	.
SE(d)	0	.	0	.	0	.	10	.	344	.	4	.	9	.	0	.
Tukey HSD at 1%	0	.	0	.	2	.	NS	.	1657	.	NS	.	NS	.	0	.

Table 3. CAT-1522

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	52	8	50	8	3	13	70	3	2448	17	14	19	173	5	86	5
2	52	9	50	9	5	1	70	4	2997	9	18	10	160	13	77	16
3	52	10	50	10	3	14	55	16	3865	1	19	6	163	12	89	1
4	54	6	52	6	3	15	55	17	2805	12	21	1	155	16	72	20
5	55	2	53	2	4	7	63	11	2985	10	16	18	155	17	88	3
6	52	11	50	11	3	8	80	1	3296	4	17	13	178	1	85	7
7	52	12	50	12	3	16	63	12	2708	14	13	20	155	18	76	17
8	52	13	50	13	3	17	78	2	2741	13	18	9	178	2	89	2
9	51	16	49	16	3	18	55	18	3467	3	20	2	150	19	78	15
10	52	14	50	14	3	19	65	8	2612	16	20	3	165	7	72	19
11	50	18	48	18	5	2	68	6	3274	5	19	4	165	8	85	8
12	55	3	53	3	5	3	55	19	3223	6	18	11	148	20	85	9
13	50	19	48	19	5	4	60	13	3096	8	19	5	165	9	80	13
14	49	20	47	20	1	20	60	14	1997	19	16	17	158	15	74	18
15	53	7	51	7	3	10	65	9	2060	18	17	14	165	10	79	14
16	52	15	50	15	3	11	70	5	1887	20	17	15	175	3	83	11
17	51	17	49	17	5	5	65	10	3726	2	18	12	163	11	86	6
18	55	4	53	4	3	9	55	20	3167	7	19	7	168	6	82	12
19	55	5	53	5	3	12	68	7	2648	15	17	16	175	4	87	4
20	57	1	55	1	5	6	55	15	2893	11	18	8	160	14	83	10
General Mean	**53**	**.**	**51**	**.**	**3**	**.**	**64**	**.**	**2895**	**.**	**17**	**.**	**164**	**.**	**81.89**	**.**
p-Value	<.0001	.	<.0001	.	0	.	0	.	0	.	0	.	0	.	<.0001	.
CV(%)	0	.	0	.	23	.	12	.	11	.	11	.	4	.	0	.
SE(d)	0	.	0	.	1	.	7	.	323	.	2	.	7	.	0	.
Tukey HSD at 1%	0	.	0	.	4	.	NS	.	1574	.	NS	.	33	.	0	.

Table 4. CAT-1523

Entry	Ds		Dt		Ea		R	GY	R	NoC	R	PH	R	SP	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	49	14	47	14	5	1	4	2997	9	18	10	160	13	77	16	60	14	6062	4	31	3	160	11	86	2
2	51	9	49	9	3	7	16	3865	1	19	6	163	12	89	1	65	11	3743	13	26	14	168	7	86	3
3	49	15	47	15	3	8	17	2805	12	21	1	155	16	72	20	55	15	4744	8	31	4	150	15	83	8
4	50	11	48	11	4	6	11	2985	10	16	18	155	17	88	3	73	3	4743	9	31	5	175	3	76	15
5	51	10	49	10	3	13	1	3296	4	17	13	178	1	85	7	65	12	4291	11	30	6	160	12	77	14
6	52	3	50	4	3	9	12	2708	14	13	20	155	18	76	17	68	10	4993	6	27	13	155	14	85	5
7	52	4	50	5	3	10	2	2741	13	18	9	178	2	89	2	73	4	4572	10	28	12	165	10	82	11
8	52	5	50	6	3	11	18	3467	3	20	2	150	19	78	15	65	13	4923	7	28	10	170	6	86	4
9	52	6	50	7	5	2	8	2612	16	20	3	165	7	72	19	73	5	10959	1	29	9	165	8	87	1
10	50	12	48	12	3	12	6	3274	5	19	4	165	8	85	8	70	8	3959	12	33	1	165	9	84	7
11	50	13	48	13	1	14	19	3223	6	18	11	148	20	85	9	70	9	3242	15	33	2	160	13	82	12
12	52	7	50	8	1	15	13	3096	8	19	5	165	9	80	13	78	2	3487	14	25	15	180	1	82	10
13	53	1	51	2	5	3	14	1997	19	16	17	158	15	74	18	80	1	6214	2	30	7	178	2	83	9
14	53	2	51	3	5	4	9	2060	18	17	14	165	10	79	14	73	6	5501	5	28	11	173	4	81	13
15	52	8	53	1	5	5	5	1887	20	17	15	175	3	83	11	73	7	6080	3	29	8	173	5	85	6
General Mean	**51**	**.**	**49**	**.**	**3**	**.**	**10**	**3726**	**2**	**18**	**12**	**163**	**11**	**86**	**6**	**69**	**.**	**5168**	**.**	**29**	**.**	**166**	**.**	**83**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	20	3167	7	19	7	168	6	82	12	0	.	<.0001	.	0	.	0	.	<.0001	.
CV(%)	0	.	1	.	14	.	7	2648	15	17	16	175	4	87	4	7	.	11	.	9	.	3	.	0	.
SE(d)	0	.	1	.	0	.	15	2893	11	18	8	160	14	83	10	5	.	550	.	3	.	5	.	0	.
Tukey HSD at 1	0	.	4	.	2	.	.	2895	.	17	.	164	.	82	.	25	.	2739	.	NS	.	25	.	0	.

Table 5. CAT-1524

Entry	DS	R	DT	R	EA	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	54	3	52	2	5	1	69	13	6873	12	33	2	171	7	82	12
2	51	12	49	12	5	2	79	5	8376	5	33	3	164	9	95	1
3	50	19	48	17	3	19	70	11	7330	9	34	1	158	14	93	2
4	50	20	48	18	3	17	68	15	7079	10	29	19	155	16	83	10
5	52	10	50	9	3	18	76	7	5154	19	29	20	163	10	80	16
6	53	7	52	3	5	3	76	8	7037	11	30	18	178	5	81	13
7	54	5	52	4	5	4	85	2	8724	3	32	4	171	8	86	5
8	51	13	49	13	3	15	68	16	6692	13	30	12	161	11	79	18
9	54	6	52	7	1	20	61	18	4103	20	30	13	140	20	79	17
10	53	8	52	8	5	5	69	14	6086	16	30	14	146	19	82	11
11	51	14	49	14	5	6	55	20	6271	15	30	17	151	17	84	7
12	51	15	49	15	4	14	56	19	5982	17	31	11	148	18	80	15
13	51	17	48	19	5	7	78	6	8448	4	32	5	161	12	76	20
14	51	18	48	20	5	8	84	4	8129	6	30	15	179	2	83	8
15	51	16	49	16	3	16	70	12	5809	18	31	10	180	1	78	19
16	52	11	50	11	5	9	65	17	9393	1	32	6	173	6	89	3
17	56	1	54	1	5	10	75	9	6679	14	32	7	156	15	86	4
18	54	4	52	5	5	11	86	1	9224	2	32	8	179	3	81	14
19	56	2	52	6	5	12	71	10	7876	8	32	9	159	13	83	9
20	52	9	50	10	5	13	85	3	8014.89	7	30	16	178.75	4	84.97	6
General Mean	**52.2**	**.**	**50.18**	**.**	**4.13**	**.**	**72.25**	**.**	**7164.01**	**.**	**30.88**	**.**	**163.5**	**.**	**83.1**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	0.1489	.	<.0001	.	0.119	.	0.1152	.	<.0001	.
CV(%)	0.75	.	0.52	.	9.67	.	13.95	.	2.96	.	4.36	.	7.96	.	0	.
SE(d)	0.391	.	0.259	.	0.399	.	10.082	.	211.872	.	1.347	.	13.008	.	0	.
Tukey HSD at 1%	1.9037	.	1.2623	.	1.9443	.	NS	.	1032.4	.	NS	.	NS	.	0	.

Table 6. CAT-15122

Entry	DS	R	DT	R	EH	R	GY	R	PH	R
1	66	7	65	8	83	26	2917	24	175	34
2	60	34	58	34	123	2	1250	39	226	5
3	67	1	65	3	89	23	1208	40	182	31
4	60	30	58	35	94	18	2667	30	206	16
5	67	2	66	2	78	34	2250	34	190	27
6	59	37	58	36	113	4	2333	33	226	4
7	66	8	65	9	66	39	2167	36	156	40
8	66	12	64	11	109	7	4208	5	224	6
9	64	17	63	17	98	16	3333	14	204	17
10	58	40	57	40	109	8	3542	12	223	7
11	67	4	65	4	93	19	2667	31	190	28
12	60	31	59	28	89	22	1667	38	202	19
13	63	19	61	21	79	33	2958	22	180	32
14	59	39	58	38	82	27	2250	35	186	29
15	64	18	62	18	97	17	5000	1	214	10
16	63	22	62	19	82	29	3417	13	198	20
17	64	16	63	15	99	15	4333	4	191	25
18	61	26	60	26	105	13	3333	15	222	8
19	66	9	65	10	72	37	2167	37	183	30
20	66	10	65	5	91	21	3333	16	194	23
21	60	32	59	31	87	25	2750	28	212	14
22	59	38	58	37	108	9	3125	20	214	11
23	61	27	59	29	105	12	4167	6	220	9
24	61	28	60	27	110	5	2917	25	204	18
25	62	23	61	24	109	6	3167	19	209	15
26	63	20	61	22	76	35	3000	21	171	37
27	60	35	58	39	107	11	2917	26	213	13
28	63	21	62	20	80	32	3750	10	191	24
29	67	5	65	6	82	28	2500	32	174	36
30	67	3	66	1	91	20	4167	7	194	22
31	62	25	60	25	108	10	4542	2	232	3
32	61	29	59	30	124	1	3542	11	237	1
33	60	33	59	32	122	3	3333	17	236	2
34	65	13	64	13	87	24	4375	3	197	21
35	62	24	61	23	72	36	4167	8	174	35
36	67	6	65	7	59	40	2917	27	162	38
37	65	14	64	14	80	30	2708	29	190	26
38	60	36	59	33	100	14	4167	9	213	12
39	66	11	64	12	80	31	3333	18	179	33
40	65	15	63	16	66	38	2917	23	158	39
General Mean	**63**	**.**	**61**	**.**	**93**	**.**	**3136**	**.**	**199**	**.**
p-Value	1	.	1	.	0	.	0	.	0	.
CV(%)	7	.	7	.	17	.	28	.	12	.
SE(d)	4	.	4	.	16	.	889	.	24	.
Tukey HSD at 1%	NS	.	NS	.	76	.	4275	.	NS	.

Table 7. CAT-15123

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R	SP	R
1	94	2	61	8	61	2	78	15	9721	3	165	7	86	5
2	95	1	63	1	63	1	85	8	7966	5	160	11	84	16
3	91	24	60	16	59	13	75	17	6039	27	155	17	82	25
4	92	13	59	23	58	22	70	23	6910	15	158	14	85	8
5	91	25	56	37	56	29	93	3	8752	4	175	3	82	21
6	92	14	56	33	57	28	88	5	6124	26	163	9	84	14
7	91	26	61	2	60	6	70	24	4397	37	148	21	80	31
8	91	27	59	24	58	23	95	2	7592	8	193	2	81	26
9	93	6	57	29	57	26	63	31	4072	39	145	26	80	30
10	93	7	59	25	57	27	60	35	4907	31	133	36	81	27
11	92	16	61	9	60	9	53	40	4763	33	135	35	78	39
12	93	8	61	3	60	7	78	16	6411	21	158	15	85	6
13	93	9	61	4	61	3	58	38	4028	40	133	37	84	13
14	91	28	60	13	58	20	58	37	4299	38	143	28	77	40
15	92	17	59	18	58	21	70	25	6738	17	140	32	85	9
16	91	29	57	30	56	30	70	26	7036	12	168	6	78	38
17	91	30	57	28	56	33	65	30	4554	35	143	29	82	22
18	92	18	61	5	60	8	68	28	7093	11	165	8	86	2
19	91	31	56	34	55	37	75	18	7880	6	153	19	83	17
20	93	10	60	14	59	14	80	12	4516	36	163	10	80	33
21	91	32	61	10	60	10	63	32	4628	34	138	33	79	35
22	91	33	53	40	53	40	75	19	6761	16	150	20	82	20
23	91	34	61	6	61	4	73	20	5644	28	170	5	80	32
24	91	35	59	19	59	17	88	6	6310	23	160	12	82	24
25	92	19	57	31	55	38	85	9	6335	22	158	16	85	7
26	93	11	59	20	59	18	58	39	4894	32	123	40	79	36
27	92	15	57	32	56	34	93	4	7737	7	173	4	81	28
28	92	20	58	27	56	31	88	7	6500	20	155	18	80	34
29	91	36	61	11	60	11	63	33	6190	24	148	22	81	29
30	91	37	55	39	55	36	80	13	5604	29	143	30	82	23
31	92	21	56	36	56	32	60	36	5096	30	125	39	82	19
32	94	3	59	26	58	24	85	10	7027	13	148	23	84	11
33	91	38	56	35	56	35	70	27	7170	10	148	24	86	3
34	91	39	55	38	54	39	68	29	6535	19	133	38	84	10
35	92	22	60	17	59	19	73	21	6718	18	135	34	79	37
36	94	4	59	21	59	15	63	34	7485	9	143	31	86	4
37	91	40	59	22	58	25	73	22	7027	14	148	25	87	1
38	94	5	61	7	61	5	80	14	6174	25	145	27	83	18
39	93	12	61	12	60	12	113	1	12844	1	203	1	84	12
40	92	23	60	15	59	16	83	11	10804	2	160	13	84	15
General Mean	**92**	**.**	**59**	**.**	**58**	**.**	**74**	**.**	**6532**	**.**	**152.25**	**.**	**82.36**	**.**
p-Value	0	.	<.0001	.	<.0001	.	0	.	<.0001	.	0.0003	.	0.0437	.
CV(%)	1	.	3	.	2	.	15	.	20	.	8.71	.	3.29	.
SE(d)	1	.	2	.	1	.	11	.	1278	.	13.258	.	2.71	.
Tukey HSD at 1%	4.5865	.	7.4228	.	6.609	.	54.679	.	6143.5	.	63.745	.	13.031	.

Table 8. CAT-15131

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R	SP	R
1	94	17	59	30	58	30	85	22	10102	9	185	6	84	9
2	94	21	59	32	59	18	78	32	8988	13	153	46	82	31
3	91	57	60	16	59	23	75	37	5203	50	165	23	84	11
4	93	24	58	35	58	39	88	16	8899	15	178	11	80	43
5	91	51	59	34	57	48	83	25	7517	28	158	34	83	26
6	92	45	55	60	57	49	70	44	10779	5	165	24	83	23
7	94	18	62	2	60	6	63	54	6485	39	158	35	81	36
8	95	11	58	36	58	31	88	17	8353	18	178	12	78	56
9	93	34	58	45	59	24	68	49	2792	60	158	36	81	35
10	95	7	60	17	58	32	93	11	8237	20	180	8	78	51
11	96	2	62	3	61	3	100	5	12053	3	180	9	85	4
12	94	22	60	18	59	25	100	6	8222	21	188	2	79	48
13	95	12	60	27	58	40	78	33	7603	27	143	56	78	54
14	91	58	58	46	56	52	70	45	8160	22	173	16	79	47
15	92	38	61	11	59	19	73	41	6436	41	158	37	84	10
16	93	25	60	19	59	20	65	53	4186	56	135	60	83	27
17	93	35	58	37	58	33	73	42	4714	54	148	53	79	50
18	91	52	55	57	55	58	68	50	5376	48	138	59	80	45
19	95	13	64	1	64	2	90	13	3595	59	155	41	75	59
20	92	46	59	31	58	41	75	38	6909	31	153	47	84	19
21	92	39	60	28	58	34	88	18	6748	32	160	32	81	40
22	91	53	57	47	55	59	63	55	6689	35	145	54	83	30
23	90	60	58	38	57	50	55	58	4637	55	165	25	78	55
24	94	19	61	5	60	14	55	59	5054	52	140	58	81	39
25	93	36	57	48	57	42	83	23	5254	49	163	26	83	20
26	91	59	57	49	58	26	78	30	5194	51	170	18	74	60
27	94	20	58	39	56	51	75	34	6582	36	153	42	84	12
28	91	54	60	20	58	27	50	60	4019	57	150	48	78	53
29	91	55	58	43	58	35	83	26	9463	10	148	52	86	1
30	93	26	61	12	60	9	100	3	8091	23	168	21	84	18
31	93	37	60	21	58	28	88	15	6567	37	163	27	83	21
32	93	27	57	51	58	36	100	4	4815	53	185	3	82	32
33	95	8	60	22	59	15	93	8	3796	58	175	15	80	46
34	92	40	55	58	57	43	73	39	5456	47	150	49	83	29
35	92	47	58	44	56	53	70	43	6440	40	150	50	81	37
36	95	14	60	23	60	10	68	46	8887	16	155	38	85	6
37	95	9	60	24	59	16	73	40	7067	30	153	43	79	49
38	96	4	62	4	61	4	80	28	6690	34	160	29	83	28
39	92	41	56	54	57	44	85	19	5466	46	155	39	80	42
40	94	23	60	29	57	45	65	51	6372	43	143	55	84	17
41	92	48	60	25	59	21	68	47	6392	42	153	44	81	41
42	96	5	58	40	57	46	88	14	7987	24	185	4	84	15
43	95	15	57	52	55	55	68	48	7909	26	155	40	77	57
44	97	1	61	6	60	11	93	9	10574	6	175	13	84	16
45	95	16	61	13	60	7	90	12	9450	11	170	19	84	8
46	96	6	61	7	59	17	78	31	9297	12	163	28	83	22
47	92	42	55	59	55	60	98	7	8516	17	183	7	80	44
48	92	49	56	55	55	56	105	1	7944	25	180	10	77	58
49	93	28	61	8	60	12	65	52	5676	44	153	45	78	52
50	92	50	56	53	57	47	83	24	10500	7	175	14	83	25

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R	SP	R
51	93	29	57	50	55	57	75	35	8950	14	150	51	85	5
52	92	43	59	33	59	22	85	20	8256	19	168	22	86	2
53	93	30	60	26	58	29	60	56	6723	33	140	57	84	14
54	92	44	58	41	58	37	75	36	7073	29	185	5	81	38
55	91	56	56	56	56	54	58	57	6557	38	158	33	81	34
56	96	3	61	14	60	13	85	21	10418	8	170	20	86	3
57	93	31	58	42	58	38	83	27	29926	1	173	17	85	7
58	95	10	61	9	61	5	80	29	5483	45	160	30	83	24
59	93	32	61	15	60	8	93	10	12592	2	160	31	82	33
60	93	33	61	10	65	1	105	2	11666	4	198	1	84	13
General Mean	**92.98**	**.**	**58.78**	**.**	**58.03**	**.**	**78.79**	**.**	**7663.02**	**.**	**162.33**	**.**	**81.65**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	<.0001	.	0.0336	.	0.0013	.	0.029	.
CV(%)	1.33	.	2.79	.	2.53	.	11.26	.	52.91	.	8.37	.	3.74	.
SE(d)	1.238	.	1.638	.	1.469	.	8.874	.	4054.93	.	13.592	.	3.054	.
Tukey HSD at 1%	6.0003	.	7.9359	.	7.1167	.	42.992	.	19646	.	65.851	.	14.796	.

Table 9. CAT-1527

Entry	BR	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	RL	R	SL	R	SR	R
1	2	24	54	20	47	22	65	26	900	19	11	16	129	25	0	18	6	11	5	15
2	2	22	52	22	48	17	109	2	1004	17	7	20	184	6	1	7	3	24	5	12
3	2	14	51	26	46	24	91	11	2438	4	19	4	184	5	0	19	6	9	7	8
4	3	11	57	5	48	18	93	10	2167	5	18	6	175	11	0	11	4	18	7	9
5	2	17	57	6	49	11	79	20	678	22	7	19	123	26	0	20	3	21	4	17
6	3	6	55	13	50	6	87	14	2583	2	24	2	162	16	1	8	9	3	12	2
7	3	8	57	7	50	9	79	19	2108	6	25	1	154	18	0	21	7	6	2	27
8	3	3	56	11	48	19	78	21	1825	8	14	10	142	23	4	1	2	25	7	10
9	2	15	55	16	49	12	100	3	1150	16	11	13	176	10	0	30	6	12	7	7
10	2	20	52	23	46	25	93	9	975	18	6	21	177	8	1	9	5	16	4	18
11	2	18	57	8	50	8	95	7	1367	14	11	14	177	9	0	24	7	5	10	3
12	2	21	52	24	46	26	113	1	833	21	6	24	199	1	0	22	3	22	5	13
13	2	19	54	17	51	2	72	25	492	26	6	22	145	22	2	6	6	13	4	16
14	2	26	54	18	47	23	80	17	533	24	6	23	151	19	3	2	4	19	4	20
15	2	23	55	14	49	10	76	22	50	30	1	30	145	21	3	3	12	2	2	26
16	3	4	57	1	53	1	90	12	1500	11	9	17	174	12	0	13	9	4	9	5
17	3	9	49	27	45	27	94	8	1417	12	12	12	194	4	0	14	3	23	17	1
18	3	5	53	21	48	20	86	15	1392	13	11	15	168	15	2	5	5	17	4	19
19	3	10	57	2	50	5	96	6	1667	9	16	9	169	13	0	25	13	1	4	21
20	3	7	47	28	43	28	96	5	1250	15	20	3	194	3	0	23	0	30	10	4
21	3	2	54	19	48	15	100	4	1875	7	18	7	195	2	0	26	5	14	8	6
22	2	27	55	15	48	16	82	16	2500	3	19	5	181	7	0	27	7	7	5	14
23	2	16	56	12	49	13	88	13	2667	1	14	11	168	14	0	28	3	20	6	11
24	3	1	57	3	49	14	80	18	1500	10	17	8	159	17	0	29	7	8	2	24
25	1	30	29	29	25	29	46	29	525	25	5	26	88	29	3	4	1	28	2	28
26	1	28	52	25	48	21	62	28	263	29	2	29	122	27	0	15	1	26	2	23
27	2	12	57	4	51	3	75	24	850	20	9	18	146	20	0	16	6	10	3	22
28	2	25	56	9	51	4	65	27	379	28	3	27	116	28	0	17	0	29	2	29
29	1	29	27	30	25	30	46	30	433	27	3	28	84	30	0	12	1	27	1	30
30	2	13	56	10	50	7	75	23	650	23	5	25	135	24	0	10	5	15	2	25
General Mean	**2.22**	**.**	**52.47**	**.**	**46.68**	**.**	**83.07**	**.**	**1265.67**	**.**	**11.02**	**.**	**157.13**	**.**	**0.58**	**.**	**4.72**	**.**	**5.22**	**.**
p-Value	0.6776	.	0.6243	.	0.5919	.	0.5344	.	0.1838	.	0.0573	.	0.5061	.	0.5	.	0.6373	.	0.6451	.
CV(%)	40.73	.	20.53	.	20.2	.	27.53	.	70.41	.	63.23	.	27.22	.	274	.	100.27	.	105.54	.
SE(d)	0.904	.	10.773	.	9.432	.	22.869	.	891.163	.	6.966	.	42.766	.	1.598	.	4.729	.	5.506	.
Tukey HSD at 1%	NS	.	NS	.	NS	.	NS	.	NS	.	NS	.	NS	.	NS	.	NS	.	NS	.

Table 10. CAT-1528

Entry	BR	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	RL	R	SL	R	SR	R
1	3	1	59	4	49	8	98	3	242	16	5	16	167	9	0	7	7	3	11	3
2	3	2	61	2	50	6	85	8	225	17	16	7	159	10	0	8	8	2	10	5
3	2	13	58	6	49	9	40	18	183	19	3	19	52	20	0	9	5	8	1	20
4	3	3	57	7	53	2	26	20	888	11	9	13	59	19	0	10	3	13	3	14
5	3	5	62	1	52	3	32	19	0	20	0	20	69	18	0	11	4	10	3	15
6	2	17	53	12	48	12	88	7	833	12	10	11	158	12	0	12	13	1	9	6
7	3	6	57	8	51	5	74	14	925	10	10	12	145	14	0	13	6	7	9	7
8	3	8	53	16	46	19	75	12	1275	7	16	8	175	2	0	14	4	11	11	4
9	3	7	53	17	47	14	89	6	818	13	8	14	168	8	1	3	7	4	3	16
10	3	4	53	13	49	10	90	5	3417	1	25	2	176	1	0	15	2	17	6	11
11	3	10	51	18	47	16	75	13	1146	9	18	5	143	15	1	1	2	15	8	8
12	2	12	55	10	49	11	101	1	2750	2	29	1	174	3	0	16	7	5	12	2
13	2	14	53	14	48	13	73	16	1717	4	17	6	150	13	1	4	2	18	13	1
14	2	20	53	15	47	15	75	11	1900	3	22	3	158	11	0	6	3	14	7	9
15	2	11	50	19	47	17	84	9	1182	8	12	10	170	6	0	17	1	19	5	12
16	2	15	54	11	47	18	80	10	1667	5	20	4	171	5	0	18	7	6	7	10
17	3	9	50	20	46	20	100	2	1521	6	16	9	168	7	0	19	5	9	4	13
18	2	18	56	9	50	7	91	4	408	15	3	18	173	4	0	20	0	20	2	18
19	2	19	58	5	51	4	49	17	201	18	4	17	107	17	1	2	3	12	1	19
20	2	16	60	3	54	1	73	15	658	14	6	15	142	16	0	5	2	16	2	17
General Mean	**2**	**.**	**55**	**.**	**49**	**.**	**75**	**.**	**1098**	**.**	**12**	**.**	**144**	**.**	**0**	**.**	**4**	**.**	**6**	**.**
p-Value	1	.	0	.	0	.	0	.	0	.	0	.	0	.	1	.	0	.	0	.
CV(%)	28	.	6	.	4	.	33	.	66	.	63	.	29	.	310	.	76	.	51	.
SE(d)	1	.	3	.	2	.	25	.	720	.	8	.	43	.	0	.	3	.	3	.
Tukey HSD at 1%	NS	.	15	.	9	.	NS	.	3507	.	NS	.	NS	.	NS	.	NS	.	16	.

Table 11. CAT-1529

Entry	BR	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	RL	R	SL	R	SR	R
1	3	8	49	14	46	13	65	14	938	7	14	5	147	11	1	7	7	4	2	9
2	3	6	54	6	47	7	91	6	508	9	6	9	179	2	0	13	3	8	6	2
3	3	5	50	12	46	14	96	3	929	8	7	8	174	4	1	8	3	11	4	4
4	3	7	50	10	47	8	92	5	1700	3	19	4	165	6	3	1	12	1	3	8
5	3	2	54	7	48	6	87	8	992	6	10	7	162	7	0	14	5	6	2	10
6	3	1	50	9	47	9	104	2	1253	5	13	6	177	3	1	4	5	7	5	3
7	2	12	57	2	49	3	83	9	467	11	4	12	134	12	1	5	2	13	1	14
8	3	11	55	4	47	10	65	13	175	14	3	14	119	14	1	9	7	5	1	13
9	3	3	50	13	47	11	111	1	2042	2	20	3	197	1	0	12	1	14	3	6
10	3	10	49	15	46	15	94	4	3333	1	29	1	172	5	2	3	10	2	7	1
11	3	9	50	11	47	12	83	10	1583	4	22	2	150	10	1	10	9	3	4	5
12	1	15	52	8	49	4	79	11	368	12	5	11	120	13	1	6	3	9	0	15
13	2	14	60	1	52	1	73	12	150	15	4	13	152	9	0	15	2	12	2	11
14	3	4	54	5	50	2	56	15	204	13	2	15	84	15	2	2	3	10	3	7
15	2	13	56	3	48	5	87	7	498	10	5	10	161	8	0	11	1	15	1	12
General Mean	**3**	**.**	**52**	**.**	**47**	**.**	**84**	**.**	**1009**	**.**	**11**	**.**	**153**	**.**	**1**	**.**	**5**	**.**	**2.83**	**.**
p-Value	0	.	0	.	0	.	0	.	0	.	0	.	.0001	.	0	.	0	.	0.14	.
CV(%)	21	.	7	.	3	.	10	.	56	.	39	.	8	.	121	.	61	.	71.5	.
SE(d)	1	.	3	.	1	.	9	.	565	.	4	.	13	.	1	.	3	.	2.03	.
Tukey HSD at 1%	NS	.	NS	.	6	.	42	.	2814	.	21	.	63	.	NS	.	14	.	NS	.

Table 12. CAT-1530

Entry	BR	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	RL	R	SL	R	SR	R
1	2	19	60	10	55	5	78	2	218	15	3	15	145	2	3	3	7	13	0	20
2	3	1	61	7	52	9	37	19	673	3	2	19	73	19	1	7	5	16	1	8
3	3	2	54	18	48	19	75	3	2583	1	28	1	143	3	2	5	16	2	4	2
4	3	3	57	14	50	14	70	4	446	9	10	3	135	6	0	16	6	14	4	3
5	2	20	32	20	26	20	29	20	34	20	2	20	54	20	2	6	7	11	1	12
6	3	16	61	5	51	11	68	6	292	12	7	8	133	8	3	4	10	7	1	9
7	3	4	60	9	60	1	69	5	90	18	2	17	122	12	1	12	3	20	1	13
8	3	18	60	11	51	12	56	17	170	17	3	16	121	13	0	17	8	9	2	6
9	3	5	57	15	50	15	65	10	209	16	5	11	115	15	0	18	13	4	2	7
10	3	15	62	4	53	7	63	12	285	13	5	10	141	4	0	19	7	10	0	15
11	3	6	57	16	49	17	65	9	933	2	15	2	133	7	1	13	11	5	1	10
12	3	7	50	19	48	18	63	11	366	11	4	13	126	11	0	20	4	19	1	14
13	3	8	56	17	49	16	57	16	550	6	10	5	85	18	6	1	14	3	3	4
14	3	9	60	12	51	10	62	13	608	5	10	4	127	10	6	2	10	6	5	1
15	3	10	61	6	56	2	61	14	483	7	8	7	114	17	1	8	48	1	0	19
16	3	11	64	1	51	13	66	8	467	8	10	6	115	16	0	14	5	15	1	11
17	3	12	61	8	55	4	80	1	408	10	3	14	155	1	1	9	8	8	0	16
18	3	13	64	2	54	6	57	15	60	19	2	18	131	9	1	11	5	17	0	17
19	3	14	63	3	56	3	56	18	267	14	4	12	118	14	0	15	4	18	0	18
20	2.81	17	58	13	51.5	8	67.33	7	628.33	4	6	9	140.33	5	1	10	7	12	1.5	5
General Mean	**2.85**	**.**	**57.7**	**.**	**50.5**	**.**	**62.2**	**.**	**488.58**	**.**	**6.68**	**.**	**121.23**	**.**	**1.35**	**.**	**9.84**	**.**	**1.2**	**.**
p-Value	0.261	.	0.6321	.	0.3378	.	0.3453	.	0.0003	.	0.002	.	0.0723	.	0.0182	.	0.6959	.	0.0467	.
CV(%)	16.74	.	18.66	.	16.92	.	25.15	.	67.18	.	66.05	.	20.77	.	117.61	.	155.37	.	105.76	.
SE(d)	0.477	.	10.766	.	8.544	.	15.64	.	328.213	.	4.409	.	25.175	.	1.588	.	.	.	1.269	.
Tukey HSD at 1%	NS	.	NS	.	NS	.	NS	.	1599.3	.	21.482	.	NS	.	7.7369	.	.	.	6.1838	.

Table 13. MSRIT-1

Entry	DS	R	DT	R	EH	R	PFSR	R	PH	R
1	52	74	50	74	73	10	6	51	154	12
2	63	21	60	22	44	62	7	14	107	65
3	57	51	55	50	45	60	7	5	114	55
4	65	13	63	13	48	52	5	53	121	47
5	58	47	56	44	61	26	5	57	123	44
6	72	1	69	1	54	35	5	72	128	39
7	59	34	57	31	62	25	5	62	150	15
8	61	26	59	26	58	31	6	18	135	30
9	56	54	54	51	66	20	5	63	133	33
10	56	55	54	52	47	57	6	42	130	36
11	58	48	56	45	53	40	6	37	132	35
12	58	41	56	38	72	11	6	39	155	11
13	58	42	56	46	40	69	7	3	114	56
14	60	32	57	32	53	39	6	27	116	52
15	56	56	54	53	73	8	5	66	153	13
16	56	59	54	59	51	46	7	4	128	37
17	70	2	68	2	48	49	6	28	113	59
18	53	71	51	71	81	4	6	32	168	4
19	59	36	56	39	65	21	6	21	123	46
20	58	49	56	47	51	45	7	8	87	73
21	65	14	63	15	58	32	6	40	158	8
22	60	29	58	29	48	53	7	2	92	72
23	68	7	66	7	43	65	5	52	111	62
24	64	18	62	18	54	34	6	47	137	24
25	62	22	61	21	58	27	6	50	133	34
26	61	28	54	60	63	24	6	41	148	16
27	59	37	57	35	43	66	7	11	98	69
28	59	38	57	36	38	71	8	1	83	74
29	55	63	53	63	48	50	6	20	112	61
30	57	52	54	54	72	13	6	48	138	23
31	53	72	51	72	71	14	6	34	144	19
32	58	43	56	40	43	64	7	16	102	66
33	62	23	60	23	54	36	6	24	113	60
34	69	5	67	4	40	68	7	10	114	57
35	59	35	57	33	72	12	5	60	138	22
36	53	73	51	73	78	6	5	61	167	5
37	67	9	65	9	46	58	7	9	118	50
38	70	3	67	5	51	47	6	22	137	25
39	54	70	52	70	82	3	5	58	157	9
40	56	60	54	61	67	17	5	65	136	27
41	62	24	60	24	65	22	6	44	143	20
42	58	44	56	41	44	63	7	7	109	63
43	62	25	60	25	38	72	7	15	102	67
44	55	64	53	64	48	54	6	35	108	64
45	57	53	54	55	73	9	6	25	146	17
46	60	30	58	30	55	33	6	38	134	31
47	56	57	54	56	101	1	4	75	191	1
48	55	68	53	68	64	23	5	70	160	6
49	66	12	64	12	53	41	5	71	121	48
50	56	58	54	62	69	15	4	73	168	3
51	65	15	63	14	39	70	5	69	115	54
52	64	20	62	19	67	19	5	55	145	18
51	65	15	63	14	39	70	5	69	115	54
52	64	20	62	19	67	19	5	55	145	18
53	67	10	65	10	45	59	6	19	115	53
54	69	6	67	6	34	74	6	43	101	68
55	58	50	56	48	47	56	6	45	128	38
56	69	4	67	3	25	75	6	26	70	75
57	60	31	58	28	48	55	5	68	98	70
58	52	75	50	75	54	37	5	59	137	26
59	59	39	57	37	54	38	6	30	143	21
60	58	45	56	42	67	16	6	33	135	29
61	56	61	54	57	58	28	6	17	136	28
62	58	46	56	49	52	44	6	29	123	45
63	55	65	53	65	76	7	5	64	153	14
64	65	16	63	16	58	30	5	54	134	32
65	68	8	66	8	44	61	7	13	124	43
66	55	66	53	66	67	18	6	46	160	7
67	55	69	53	69	79	5	5	56	157	10
68	55	67	53	67	97	2	4	74	184	2
69	67	11	65	11	50	48	6	49	113	58
70	59	40	56	43	43	67	7	6	97	71
71	65	17	63	17	52	43	5	67	125	41
72	56	62	54	58	58	29	7	12	125	42
73	61	27	59	27	53	42	6	36	121	49
74	64	19	62	20	38	73	6	31	127	40
75	60	33	57	34	48	51	6	23	117	51
General Mean	**59.79**	**.**	**57.64**	**.**	**56.4**	**.**	**5.83**	**.**	**129.02**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.
CV(%)	5.18	.	4.86	.	21.52	.	11.65	.	15.9	.
SE(d)	.	.	.	.	12.134	.	.	.	20.517	.
Tukey HSD at 1%	.	.	.	.	59.209	.	.	.	100.11	.

Table 14. MSRIT-2

Entry	MSR	R
1	7	6
2	5	23
3	5	21
4	5	30
5	7	3
6	4	44
7	4	45
8	6	10
9	6	13
10	4	60
11	5	31
12	5	40
13	5	28
14	5	32
15	6	12
16	5	19
17	5	36
18	4	53
19	5	20
20	8	2
21	6	14
22	4	65
23	4	69
24	6	9
25	4	54
26	5	35
27	7	4
28	2	74
29	6	15
30	4	43
31	5	22
32	4	67
33	5	38
34	5	37
35	6	16
36	4	50
37	4	51
38	5	41
39	4	55
40	5	17
41	6	11
42	5	26
43	5	24
44	4	56
45	5	29
46	4	57
47	5	39
48	4	62
49	4	47
50	4	64

Entry	MSR	R
51	4	48
52	4	70
53	5	33
54	0	75
55	4	68
56	4	61
57	5	27
58	8	1
59	4.3	49
60	3.6	66
61	6.9	5
62	3	73
63	4.35	46
64	4.5	42
65	6.6	7
66	5.3	18
67	4.9	25
68	4.7	34
69	3.9	58
70	3.9	59
71	3.4	71
72	3.8	63
73	6.25	8
74	3.2	72
75	4.15	52
General Mean	**4.67**	**.**
p-Value	<.0001	.
CV(%)	17.12	.
SE(d)	0.799	.
Tukey HSD at 1%	3.8977	.

Table 15. TLBIT-11

Entry	DS	R	DT	R	GY	R	NoC	R	TLB-I	R	TLB-II	R
1	147	5	142	5	131	55	1	36	1.0	58	2.0	23
2	137	15	132	10	190	33	1	26	1.0	35	2.0	24
3	137	16	127	14	242	12	1	37	2.0	8	2.0	25
4	136	17	126	16	193	30	2	3	1.0	36	2.0	26
5	107	65	101	66	108	63	1	38	1.0	37	2.0	27
6	132	20	121	25	108	64	1	39	1.0	38	3.0	2
7	148	4	142	4	91	69	1	40	1.0	39	1.0	67
8	125	35	122	24	74	74	1	24	1.0	40	2.0	28
9	122	39	118	29	204	28	1	27	1.0	41	1.0	68
10	148	2	146	2	89	71	1	41	2.0	9	2.0	29
11	152	1	147	1	88	72	1	42	1.0	42	2.0	30
12	111	59	107	59	165	40	1	43	1.0	43	1.0	69
13	106	67	104	64	213	22	1	44	2.0	10	3.0	3
14	110	61	108	56	301	5	2	4	1.0	59	2.0	31
15	131	22	129	13	187	34	1	45	2.0	3	3.0	1
16	148	3	145	3	163	41	1	46	1.0	60	1.0	73
17	132	19	117	34	191	32	1	47	1.0	61	2.0	32
18	117	44	110	47	237	15	1	29	1.0	62	2.0	33
19	132	21	124	18	206	26	1	48	1.0	63	2.0	34
20	110	62	107	60	113	61	2	10	2.0	4	2.0	35
21	111	60	106	61	176	36	1	15	2.0	11	2.0	36
22	130	25	124	19	211	24	1	49	2.0	12	3.0	4
23	138	13	117	33	151	45	1	50	2.0	5	2.0	37
24	103	70	97	74	251	11	1	51	1.0	64	3.0	5
25	140	10	127	15	86	73	1	52	1.0	65	2.0	38
26	118	43	115	36	324	4	1	30	1.0	66	1.0	74
27	130	23	125	17	96	68	1	53	1.0	67	1.0	75
28	118	41	113	41	207	25	1	31	1.0	68	1.0	71
29	97	75	93	75	135	54	2	1	1.0	69	1.0	72
30	113	55	110	48	341	2	2	11	1.0	70	2.0	39
31	138	14	132	11	143	51	2	2	1.0	71	2.0	40
32	133	18	111	46	193	29	1	20	2.0	6	2.0	41
33	145	6	136	6	153	44	1	54	1.0	72	3.0	6
34	120	40	116	35	175	37	1	55	1.0	73	2.0	42
35	144	7	136	7	139	52	1	56	1.0	74	2.0	43
36	127	31	120	27	232	18	1	57	2.0	7	2.5	18
37	113	56	105	62	184	35	1	21	1.0	75	2.5	19
38	113	53	107	58	72	75	1	58	1.0	44	2.0	44
39	142	9	118	30	107	65	1	59	1.0	45	2.0	45
40	130	24	122	22	225	20	1	60	1.0	46	2.0	46
41	140	11	131	12	129	56	1	28	1.0	47	2.0	47
42	139	12	135	8	205	27	1	75	1.0	48	1.0	70
43	127	30	118	31	260	10	2	5	1.0	49	2.0	48
44	129	27	122	23	239	14	1	61	3.0	1	3.0	7
45	126	33	115	37	128	57	1	62	3.0	2	3.0	9
46	113	52	109	54	144	47	1	63	1.0	50	2.0	49
47	143	8	133	9	211	23	1	64	1.0	51	1.0	65
48	101	71	99	73	144	48	2	12	2.0	17	2.5	20
49	101	74	99	70	407	1	2	7	1.0	52	2.0	50
50	124	36	112	43	122	59	1	65	2.0	18	3.0	10

Entry	DS	R	DT	R	GY	R	NoC	R	TLB-I	R	TLB-II	R
51	111	58	108	57	144	49	1	32	1.0	53	2.0	51
52	101	72	99	71	283	7	1	66	1.0	54	2.0	52
53	105	69	101	67	224	21	1	67	2.0	19	3.0	11
54	101	73	99	72	154	43	2	6	1.0	55	2.0	53
55	107	66	101	68	326	3	1	22	2.0	13	2.0	54
56	124	37	118	32	235	17	1	25	1.0	28	2.0	55
57	114	51	109	55	127	58	1	16	2.0	14	2.5	21
58	115	50	110	52	267	9	2	13	1.0	29	3.0	12
59	127	28	114	38	173	38	1	68	1.0	30	2.0	56
60	124	38	110	49	138	53	1	69	1.0	31	2.0	57
61	113	54	110	53	235	16	1	23	1.0	32	1.0	66
62	106	68	102	65	114	60	1	33	2.0	15	3.0	13
63	129	26	119	28	242	13	1	70	1.0	33	2.0	58
64	118	42	114	39	157	42	2	14	1.0	34	2.0	59
65	116	46	114	40	283	6	1	17	2.0	16	2.0	60
66	116	47	112	44	270	8	1	71	2.0	20	2.0	62
67	116	45	110	50	104	66	1	72	1.0	56	2.0	63
68	108	63	105	63	111	62	2	8	1.0	57	2.0	64
69	126	34	120	26	146	46	1	34	2.0	21	3.0	8
70	116	48	111	45	226	19	1	74	2.0	22	3.0	14
71	108	64	101	69	168	39	2	9	2.0	23	3.0	15
72	115	49	112	42	97	67	1	18	2.0	24	3.0	16
73	127	29	123	21	90	70	1	73	2.0	25	2.0	61
74	112	57	110	51	193	31	1	19	2.0	26	3.0	17
75	127	32	123	20	143	50	1	35	1.0	27	2.0	22
General Mean	**122.62**	**.**	**116.18**	**.**	**180.45**	**.**	**1.18**	**.**	**1.37**	**.**	**2.11**	**.**
p-Value	<.0001	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.
CV(%)	2.15	.	1.82	.	19.84	.	20.13	.	0	.	7.59	.
SE(d)	2.642	.	2.11	.	35.802	.	0.238	.	0	.	0.16	.
Tukey HSD at 1%	12.893	.	10.296	.	174.69	.	1.161	.	0	.	0.7805	.

Table 16. TLBIT-21

Entry	TLB	R
1	1.5	61
2	2.5	14
3	2.5	15
4	3.0	6
5	3.5	1
6	2.0	34
7	1.5	62
8	2.5	16
9	3.5	2
10	2.5	17
11	1.5	63
12	2.5	18
13	0.9	74
14	2.0	35
15	2.0	36
16	3.0	7
17	2.5	19
18	2.0	37
19	2.0	38
20	3.5	4
21	2.5	20
22	2.0	39
23	2.0	40
24	2.0	41
25	1.0	72
26	2.5	21
27	2.0	42
28	3.0	10
29	2.0	43
30	1.5	64
31	2.0	44
32	2.5	22
33	2.0	45
34	0.9	75
35	2.5	23
36	2.0	46
37	3.0	11
38	2.5	24
39	2.0	47
40	1.5	65
41	2.5	25
42	2.0	48
43	2.0	49
44	2.5	26
45	3.0	12
46	1.0	73
47	3.0	13
48	1.5	66
49	1.5	67
50	2.0	50
51	2.0	51
52	2.0	52
53	2.5	27
54	3.5	5
55	2.0	53
56	1.5	68
57	2.5	28
58	1.5	69
59	2.5	29
60	1.9	60
61	2.0	54
62	2.0	55
63	2.0	56
64	2.0	57
65	3.0	8
66	1.5	70
67	3.5	3
68	2.0	58
69	1.5	71
70	2.5	30
71	2.5	31
72	2.0	59
73	2.5	32
74	3.0	9
75	2.0	33
General Mean	**2.22**	**.**
p-Value	0.0577	.
CV(%)	31.41	.
SE(d)	.	.
Tukey HSD at 1%	.	.

Table 17. TLBIT-23

Entry	C.Rust	R	TLB	R
1	1.0	63	2.0	36
2	1.5	25	2.0	37
3	3.5	6	2.0	38
4	1.0	47	2.0	39
5	3.8	5	2.0	40
6	3.5	7	3.0	17
7	1.0	48	4.0	3
8	1.5	26	2.0	41
9	1.0	49	2.0	42
10	1.0	50	2.0	43
11	1.0	51	2.0	44
12	1.5	38	1.0	72
13	1.5	39	2.0	66
14	1.0	64	2.0	45
15	1.5	27	2.0	46
16	1.0	65	2.0	47
17	1.0	52	2.0	67
18	1.0	66	2.0	48
19	4.5	1	3.0	18
20	1.5	40	4.0	4
21	1.0	53	3.0	19
22	1.0	67	3.0	20
23	1.5	28	2.0	49
24	1.0	68	2.0	50
25	1.0	69	2.0	51
26	1.0	70	2.0	52
27	1.0	71	1.0	74
28	1.5	29	3.3	14
29	1.5	41	2.0	68
30	1.0	72	2.8	31
31	1.0	73	3.0	21
32	3.0	11	4.0	5
33	2.3	15	2.0	53
34	1.0	74	3.3	15
35	1.5	30	4.0	6
36	1.5	31	2.0	54
37	2.0	17	2.0	55
38	2.0	18	2.5	33
39	1.0	54	2.0	56
40	1.5	32	2.0	57
41	2.0	19	2.0	58
42	1.0	44	4.5	2
43	2.0	20	4.0	7
44	2.0	21	2.0	59
45	2.5	14	2.0	60
46	3.3	9	2.0	35
47	2.8	12	1.0	73
48	2.8	13	3.0	22
49	1.5	33	2.8	32
50	1.0	55	1.5	69
51	3.5	8	3.0	23
52	4.5	2	4.0	8
53	1.0	56	4.0	9
54	3.3	10	1.0	70
55	2.3	16	3.0	24
56	2.0	22	4.0	10
57	1.5	34	3.0	25
58	1.5	35	4.0	11
59	1.5	36	4.8	1
60	1.0	57	1.0	71
61	1.0	58	4.0	12
62	1.0	45	2.0	61
63	1.5	37	3.0	27
64	1.0	46	3.0	26
65	1.5	42	3.0	28
66	2.0	23	3.0	29
67	2.0	24	2.0	62
68	1.0	59	2.0	63
69	4.0	3	2.0	64
70	1.0	60	2.0	65
71	4.0	4	3.3	16
72	1.0	61	4.0	13
73	1.0	62	3.0	30
74	1.0	43	2.0	34
General Mean	**1.73**	**.**	**2.56**	**.**
p-Value	<.0001	.	<.0001	.
CV(%)	23.38	.	6.81	.
SE(d)	.	.	.	.
Tukey HSD at '	.	.	.	.

Table 18. BLSBIT-1

Entry	BLSB	R
1	2.15	71
2	0	75
3	2.2	68
4	2.6	39
5	3.2	2
6	2.4	55
7	2.5	46
8	2.2	69
9	0	74
10	2.5	47
11	2.35	56
12	2.85	14
13	2.85	15
14	2.95	8
15	2.8	18
16	2.25	64
17	3	6
18	2.7	27
19	2.9	12
20	2.95	9
21	2.2	70
22	2.5	48
23	2.75	21
24	2.25	65
25	1.4	72
26	2.3	62
27	1.4	73
28	2.7	28
29	2.7	29
30	2.85	16
31	2.95	10
32	2.65	34
33	2.5	49
34	2.85	17
35	2.75	22
36	2.25	66
37	2.35	57
38	2.7	30
39	2.25	67
40	2.3	61
41	2.5	50
42	2.65	35
43	2.75	23
44	2.7	31
45	2.9	13
46	2.45	53
47	2.65	36
48	2.65	37
49	3.05	5
50	2.55	42
51	2.65	38
52	3.1	3
53	2.7	26
54	2.5	51
55	2.75	24
56	3.25	1
57	2.7	32
58	2.3	63
59	2.45	52
60	2.6	41
61	2.8	19
62	2.95	11
63	2.35	58
64	2.6	40
65	2.55	43
66	2.35	59
67	3	7
68	2.45	54
69	3.1	4
70	2.7	33
71	2.55	44
72	2.35	60
73	2.75	25
74	2.8	20
75	2.55	45
General Mean	2.53	.
p-Value	<.0001	.
CV(%)	16.93	.
SE(d)	0.428	.
Tukey HSD at 1%	2.089	.

Table 19. CAT-158

Entry	DT	DS	PH	EH	NoC	SP	GY
1	46	47	145	82	43	66	283
2	54	56	162	90	89	72	575
3	46	48	170	110	94	67	860
4	54	56	170	105	84	77	601
5	45	46	190	95	69	69	616
6	46	47	180	90	108	67	484
7	54	57	150	80	60	71	229
8	46	49	145	75	74	69	525
9	54	55	135	88	120	19	118
10	45	47	145	70	70	73	312
11	54	56	130	72	50	34	123
12	46	46	150	75	72	65	259
13	46	48	152	88	61	51	193
14	47	49	152	80	66	68	283
15	46	49	132	82	95	0	0
16	46	48	110	70	31	56	370
17	54	57	130	65	50	8	14
18	45	45	165	95	62	79	418
19	46	48	150	70	60	70	331
20	47	49	150	80	55	39	767
21	50	52	110	57	47	10	43
22	49	51	165	88	120	38	630
23	50	50	135	75	123	25	359
24	49	51	125	78	62	30	107
25	48	50	150	80	70	22	330
26	49	52	135	78	94	29	510
27	59	59	110	50	11	61	135
28	50	52	150	77	87	61	648
29	48	51	145	92	80	40	631
30	50	52	138	68	85	57	677
31	49	52	153	90	90	29	390
32	50	51	147	90	95	64	1069
33	51	51	145	88	95	50	864
34	52	53	108	45	15	29	46
35	48	50	115	70	54	66	569

Table 20. CAT-159

Entry	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	52	28	49	31	58	43	469	16	9	4	133	2	80	1
2	51	31	47	40	73	8	830	5	9	5	123	15	80	2
3	53	13	51	15	63	30	608	9	10	3	98	40	80	3
4	48	44	46	45	63	31	469	15	6	18	133	3	80	4
5	52	21	49	32	55	45	51	47	1	48	110	27	80	5
6	53	16	52	9	70	11	356	21	5	31	118	17	80	6
7	51	32	50	23	70	12	533	13	7	11	115	19	80	7
8	51	29	49	30	60	42	237	29	1	49	95	46	80	8
9	52	23	53	8	31	50	0	50	2	46	70	50	80	9
10	50	38	47	41	40	49	98	46	6	24	85	48	80	10
11	50	35	47	42	63	32	265	26	5	27	103	33	80	11
12	50	39	48	37	65	19	766	6	7	14	133	4	80	12
13	49	42	47	44	73	9	1267	2	4	35	125	12	80	13
14	53	17	50	24	63	33	166	39	8	8	113	22	80	14
15	53	14	50	27	83	3	309	24	9	6	143	1	80	15
16	52	24	50	28	93	1	388	20	6	19	130	7	80	16
17	52	22	50	29	70	13	1058	3	5	28	113	23	80	17
18	50	36	51	16	65	20	250	28	4	38	113	24	80	18
19	56	3	50	25	63	34	198	33	9	7	128	10	80	19
20	54	10	51	17	73	10	230	30	3	45	130	8	80	20
21	53	15	51	18	70	14	181	36	5	32	113	25	80	21
22	51	30	52	12	60	37	625	7	6	26	103	34	80	22
23	53	18	51	19	65	21	326	22	4	39	105	32	80	23
24	55	5	54	5	70	15	602	10	6	21	129	9	80	24
25	51	33	48	35	80	4	265	27	4	37	125	13	80	25
26	58	1	56	3	55	46	166	40	7	15	97	45	80	26
27	57	2	56	1	60	38	230	31	7	10	133	5	80	27
28	54	11	52	13	70	16	595	11	6	22	110	28	80	28
29	49	41	50	26	65	22	311	23	4	34	103	35	80	29
30	55	6	53	6	50	47	109	44	7	16	80	49	80	30
31	50	37	49	33	60	39	284	25	5	29	103	36	80	31
32	56	4	54	4	75	7	196	35	6	25	115	20	80	32
33	52	20	51	14	80	5	439	17	3	42	133	6	80	33
34	50	40	47	43	85	2	130	42	12	1	123	16	80	34
35	47	45	48	38	68	17	1297	1	11	2	115	21	80	35
36	54	12	51	20	65	23	535	12	7	12	128	11	80	36
37	52	25	52	10	60	40	198	34	7	13	98	41	80	37
38	55	7	53	7	80	6	612	8	6	17	118	18	80	38
39	52	26	49	34	65	24	418	18	3	41	125	14	80	39
40	54	8	56	2	65	25	201	32	3	43	113	26	80	40
41	52	27	51	21	65	26	143	41	2	47	98	42	80	41
42	54	9	52	11	63	35	0	49	7	9	108	30	80	42
43	53	19	51	22	65	27	531	14	6	23	110	29	80	43
44	51	34	48	36	65	28	115	43	5	33	108	31	80	44
45	48	43	47	39	65	29	181	37	3	44	98	43	80	45
General Mean	**51.86**	**.**	**50.08**	**.**	**65.39**	**.**	**376.02**	**.**	**5.53**	**.**	**112.24**	**.**	**80**	**.**
p-Value	0.144	.	0.0034	.	0.0181	.	0.0014	.	0.1543	.	0.0101	.	.	.
CV(%)	5.14	.	4.28	.	15.93	.	73.03	.	49.99	.	13.09	.	0	.
SE(d)	.	.	.	.	.	.	274.625	.	.	.	.	.	0	.
Tukey HSD at 1%	.	.	.	.	.	.	1324.7	.	.	.	.	.	NS	.

Table 21. CAT-1571

Entry	DT	DS	PH	EH	NoC	SP	GY
1	0	0	136	56	0	0	0
2	51	54	188	76	56	74	2893
3	50	53	165	69	89	74	5120
4	53	55	176	73	127	79	8802
5	52	53	187	84	167	77	9549
6	51	53	203	89	174	74	10361
7	49	51	207	90	115	78	6743
8	49	53	202	91	119	79	8639
9	48	51	201	99	184	80	12382
10	51	53	209	106	211	74	12586
11	50	51	191	83	127	74	6300
12	52	53	178	87	173	77	9924
13	49	52	193	93	136	77	8127
14	59	60	203	102	168	73	10464
15	52	53	171	63	93	74	5074
16	51	53	162	81	72	74	3489
17	57	58	134	64	16	76	885
18	58	59	151	60	62	71	2033
19	50	52	168	85	138	78	7699
20	55	56	223	110	129	78	8537
21	24	24	152	63	0	0	0
22	56	57	200	104	124	76	8708
23	52	55	210	109	188	77	12741
24	58	59	195	90	119	73	6705
25	52	54	174	90	49	61	2496
26	60	63	174	90	6	77	376
27	56	57	165	85	69	75	4066
28	57	59	165	83	122	77	8905
29	56	60	184	87	26	68	1774
30	55	57	170	78	85	73	4277
31	53	54	188	100	119	78	8851
32	54	56	196	86	103	77	8108
33	53	55	216	110	231	79	19205
34	55	57	208	104	164	81	12448
35	54	55	198	91	127	76	7797

Table 22. CAT-1592

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	PH	R
1	92	47	61	42	60	43	58	20	4611	2	130	12
2	93	38	60	43	60	41	70	10	2882	14	133	10
3	95	10	64	28	66	26	38	48	2199	28	88	49
4	95	2	64	29	64	31	43	44	3550	7	125	17
5	92	48	60	44	59	45	45	43	2522	20	113	26
6	96	1	65	23	67	22	55	25	1710	38	123	20
7	95	11	66	19	67	23	83	2	638	48	128	15
8	95	3	67	11	68	14	40	46	1691	40	95	41
9	95	12	67	12	69	10	65	12	2845	15	123	21
10	94	32	61	41	60	40	50	35	1814	35	93	43
11	94	25	60	46	61	34	60	16	2290	24	110	27
12	91	49	59	49	58	47	48	38	2276	26	90	45
13	92	45	60	47	58	50	78	5	5375	1	125	18
14	94	33	60	45	59	46	30	50	3002	13	95	42
15	93	39	65	24	65	29	73	8	3536	8	153	2
16	94	26	64	30	65	30	88	1	2358	22	155	1
17	95	4	61	37	59	44	53	34	4521	3	118	22
18	93	44	64	31	65	27	55	26	3168	12	115	24
19	94	27	66	20	68	15	55	27	1700	39	128	16
20	94	34	67	9	70	4	53	32	1557	43	110	28
21	94	28	68	7	69	5	58	21	1802	36	98	38
22	95	13	70	2	69	11	60	17	1182	46	108	32
23	93	40	68	8	68	16	43	45	167	50	98	39
24	95	5	66	17	68	17	83	3	2438	21	143	3
25	95	6	69	4	67	19	63	13	462	49	133	11
26	94	29	65	25	65	28	53	33	2835	16	130	13
27	94	35	67	13	69	12	55	28	2072	30	130	14
28	93	41	65	26	67	24	63	14	1884	34	115	25
29	95	14	69	5	71	2	40	47	710	47	90	46
30	95	15	76	1	77	1	48	39	1667	42	90	47
31	95	16	67	14	69	6	58	22	2257	27	110	29
32	92	46	61	38	61	35	73	9	3347	11	138	5
33	95	17	65	27	67	25	70	11	1885	33	138	6
34	95	18	62	35	64	32	80	4	2277	25	140	4
35	95	19	61	39	60	42	55	29	3437	9	125	19
36	95	20	66	21	67	20	60	18	3348	10	118	23
37	94	30	67	15	69	7	60	19	1672	41	110	30
38	95	7	69	3	71	3	75	6	1944	32	135	9
39	94	36	60	48	58	48	63	15	4138	4	138	7
40	95	21	61	40	61	38	50	36	2672	18	90	48
41	95	8	66	18	68	18	35	49	2005	31	65	50
42	95	9	69	6	69	8	48	40	1785	37	98	40
43	95	22	63	32	61	36	75	7	3627	6	138	8
44	95	23	62	33	61	37	50	37	2615	19	100	37
45	93	42	66	22	67	21	45	42	1544	44	108	33
46	94	31	67	10	69	9	58	23	1422	45	90	44
47	93	43	62	36	62	33	48	41	2320	23	105	35
48	94	37	62	34	61	39	55	30	2672	17	108	34
49	91	50	59	50	58	49	58	24	3987	5	110	31
50	95	24	66	16	69	13	53	31	2091	29	103	36
General Mean	**93.83**	**.**	**64.22**	**.**	**64.72**	**.**	**57.25**	**.**	**2410.16**	**.**	**114.8**	**.**
p-Value	0.0104	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.	<.0001	.
CV(%)	1.2	.	1.98	.	2.77	.	15.09	.	30.12	.	11.47	.
SE(d)	1.127	.	1.27	.	1.792	.	8.638	.	726.046	.	13.172	.
Tukey HSD at 1%	5.4369	.	6.1248	.	8.6442	.	41.667	.	3502.2	.	63.535	.

Table 23. CAT-15111

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
1	101	48	62	23	60	18	139	1	1803	35	9	69	152	48	69	55
2	99	101	59	70	57	90	69	134	52	145	3	147	125	139	17	145
3	103	14	60	60	59	48	83	84	1068	98	7	108	131	126	50	116
4	105	4	59	71	58	64	91	41	1324	80	8	81	151	55	71	47
5	98	110	57	124	56	114	68	135	2175	8	10	37	134	123	73	34
6	99	96	57	130	56	125	69	131	1012	103	9	70	139	107	71	48
7	101	49	59	72	58	77	75	113	1736	39	7	109	144	87	76	18
8	100	75	60	53	58	65	85	75	1494	52	10	47	152	49	38	136
9	102	23	58	110	57	101	76	108	1278	86	6	128	139	110	35	140
10	100	76	60	61	58	60	70	128	1824	33	10	38	133	124	54	103
11	51	145	60	62	59	49	90	46	955	109	8	98	154	38	55	101
12	102	24	60	63	59	50	72	124	866	115	8	99	127	135	40	133
13	102	25	59	89	58	70	97	17	2052	14	11	13	153	41	60	85
14	100	77	58	102	57	91	87	64	1682	42	8	82	153	42	71	46
15	100	78	58	111	57	102	92	35	1864	30	10	39	167	8	76	20
16	97	135	57	128	56	121	88	56	2438	3	13	2	137	115	61	84
17	102	26	60	64	59	51	86	72	1106	95	12	6	166	10	57	92
18	97	138	58	112	57	103	93	29	1584	47	10	24	145	83	65	72
19	100	68	56	137	55	136	82	89	1377	74	8	83	150	58	38	137
20	102	27	63	18	61	5	73	122	1420	65	11	18	131	127	57	91
21	99	97	41	144	56	126	86	73	1950	25	10	40	128	134	76	16
22	102	28	61	36	60	19	72	125	1390	72	9	56	137	118	73	39
23	100	79	58	113	57	104	89	53	886	114	9	57	136	119	65	74
24	100	80	58	103	57	105	75	111	1854	31	11	14	142	96	75	25
25	100	69	63	13	61	6	91	42	763	126	8	84	151	51	78	7
26	100	70	59	73	58	71	76	109	1018	102	8	85	140	104	57	90
27	102	29	58	104	57	92	94	23	1308	82	11	15	153	43	72	42
28	102	42	60	58	59	43	91	45	832	122	6	136	151	53	55	99
29	97	123	57	131	55	132	73	119	1430	62	10	25	144	91	80	3
30	97	124	56	138	71	1	81	93	1458	58	8	86	145	84	75	22
31	97	139	62	24	60	20	73	123	463	137	5	139	137	116	66	69
32	97	125	58	114	57	106	74	117	1246	89	10	48	137	114	56	97
33	101	50	62	30	59	52	83	82	1171	92	10	49	141	101	45	124
34	99	102	55	142	54	140	81	94	2518	2	10	26	129	130	88	1
35	102	37	59	74	58	72	91	43	1182	91	9	71	154	36	71	44
36	103	15	62	31	60	21	87	62	847	117	8	87	148	70	58	89
37	97	126	59	75	57	93	62	143	1717	40	12	7	124	141	74	26
38	103	16	57	132	55	133	75	114	827	124	6	132	132	125	31	144
39	97	127	57	133	55	134	73	120	1422	64	10	27	147	80	63	78
40	99	86	61	37	60	27	79	104	1461	57	6	133	142	98	66	67
41	100	71	60	65	58	61	78	106	1277	87	9	58	147	79	66	64
42	102	30	73	2	56	115	82	90	1820	34	10	50	147	81	75	23
43	103	17	59	76	58	66	75	112	2076	11	9	59	141	100	76	19
44	97	128	58	115	56	116	65	138	1739	38	10	51	128	132	65	71
45	100	81	57	134	55	135	65	139	2048	15	8	100	129	131	73	36
46	99	103	61	43	59	38	68	136	1568	48	6	124	140	103	79	5
47	104	9	58	116	57	107	70	129	2247	5	10	28	146	82	74	29
48	99	87	59	77	58	73	84	79	1947	26	10	41	149	66	81	2
49	97	129	58	117	57	108	88	58	1924	27	10	29	143	93	74	28
50	52	142	59	78	58	78	70	130	1487	54	8	88	125	138	59	88

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
51	103	18	61	38	60	28	92	38	684	129	7	110	141	102	43	127
52	101	58	59	79	58	74	83	80	1524	50	8	89	144	89	78	12
53	102	31	60	54	59	39	83	81	857	116	7	120	148	69	56	96
54	104	6	58	105	56	117	69	133	420	141	5	140	151	54	44	125
55	101	59	62	32	61	11	87	65	964	106	7	111	147	76	53	106
56	102	32	58	106	57	109	71	127	1066	99	9	60	122	144	50	115
57	99	98	59	90	57	94	86	70	1954	24	10	30	144	90	71	49
58	101	60	59	91	58	79	97	19	911	111	11	19	157	29	43	128
59	102	33	62	33	59	40	92	34	667	130	8	90	144	88	49	118
60	100	72	59	92	58	80	74	116	828	123	10	42	138	112	47	120
61	99	99	59	93	58	75	94	24	1660	43	12	9	161	17	67	62
62	100	73	57	125	56	118	84	78	922	110	7	116	151	56	73	40
63	99	104	58	118	57	110	87	63	758	127	6	134	159	21	36	139
64	99	105	56	139	55	137	86	68	1418	67	8	101	145	85	73	33
65	97	130	60	55	56	119	68	137	1026	101	6	125	131	128	70	52
66	101	51	59	80	58	62	94	25	1419	66	9	72	163	14	71	45
67	102	38	58	107	57	95	82	88	1337	79	8	102	163	15	75	24
68	103	19	58	119	56	120	75	115	488	136	5	145	136	120	64	76
69	100	82	59	81	58	81	100	7	1394	71	9	61	173	2	77	13
70	102	39	61	44	58	76	81	96	813	125	6	135	138	113	48	119
71	97	131	55	143	53	141	89	54	2054	13	13	3	162	16	69	58
72	100	83	59	82	58	67	69	132	846	118	8	103	126	137	55	98
73	101	52	60	66	44	143	98	12	1357	77	9	62	160	19	63	79
74	99	88	60	56	59	53	85	77	2006	22	11	16	142	97	73	32
75	101	53	63	19	60	29	83	83	1292	85	9	63	148	71	46	122
76	101	61	59	94	57	96	97	15	1744	37	9	73	170	5	75	21
77	98	111	63	20	60	22	94	26	975	105	40	1	139	108	60	86
78	99	106	59	83	58	63	86	71	1373	75	9	74	152	47	67	63
79	101	62	64	7	61	12	91	44	370	144	7	121	158	25	41	130
80	104	7	64	6	62	4	85	76	1554	49	9	75	140	105	56	94
81	103	20	64	8	61	7	97	18	1031	100	6	126	153	44	53	108
82	105	5	61	45	59	54	87	66	1619	44	10	31	155	35	62	81
83	101	63	61	46	59	36	89	51	2257	4	12	10	159	20	73	38
84	102	34	64	9	60	23	88	59	549	134	5	142	153	40	43	129
85	98	112	59	95	57	97	99	10	1447	60	8	91	155	33	74	30
86	102	40	61	47	60	30	85	74	1300	83	8	104	137	117	49	117
87	99	89	59	96	58	82	97	20	1878	29	11	20	172	4	70	51
88	101	56	61	40	59	46	89	49	1337	78	7	112	155	32	77	14
89	99	91	61	41	59	47	81	91	1452	59	7	113	147	75	37	138
90	104	8	62	21	60	25	92	33	842	120	5	137	141	99	53	109
91	51	143	59	67	58	55	92	36	2062	12	11	11	147	73	54	104
92	101	44	58	98	57	85	100	9	1403	70	10	32	163	12	69	57
93	99	92	58	99	57	86	89	50	1369	76	9	76	156	30	68	61
94	105	3	65	5	46	142	99	11	1405	69	6	129	158	24	40	132
95	103	11	59	85	58	68	83	85	1108	94	8	93	155	31	53	107
96	101	54	62	27	60	14	93	27	1968	23	12	5	158	26	59	87
97	105	1	34	145	32	144	98	14	462	138	10	23	157	28	54	102
98	100	74	63	14	60	15	105	4	1610	45	8	80	177	1	66	66
99	105	2	60	52	59	33	104	5	905	112	9	53	164	11	65	73
100	103	12	58	108	57	99	92	32	1483	55	8	94	145	86	71	43
101	103	10	63	15	61	9	87	60	2047	16	11	21	148	68	57	93

Entry	DM	R	DS	R	DT	R	EH	R	GY	R	NoC	R	PH	R	SP	R
102	101	45	58	100	57	87	100	8	2029	20	11	17	158	27	79	6
103	103	13	63	12	61	10	93	30	1447	61	9	54	149	64	52	111
104	99	107	57	126	56	127	90	47	2128	9	9	77	161	18	74	27
105	97	136	57	129	56	122	92	39	1843	32	11	12	148	72	73	35
106	99	93	57	120	55	130	77	107	2032	19	10	33	147	78	68	60
107	97	140	56	140	54	138	72	126	1884	28	8	105	130	129	79	4
108	83	141	57	135	56	128	81	95	3380	1	10	52	125	140	70	50
109	98	113	56	141	54	139	87	61	2040	17	9	64	150	57	78	10
110	97	115	61	34	59	34	81	92	1200	90	8	95	149	61	72	41
111	97	116	58	101	56	111	93	28	1382	73	6	123	158	23	73	37
112	99	108	57	127	56	129	98	13	2110	10	9	65	172	3	78	11
113	101	64	62	25	60	24	63	141	1320	81	7	114	126	136	64	75
114	98	114	61	48	59	41	88	55	845	119	8	92	151	52	50	114
115	97	117	56	136	55	131	86	69	1520	51	10	43	149	63	74	31
116	97	137	59	86	58	69	79	105	1708	41	10	44	135	121	78	8
117	97	132	61	39	60	26	80	100	2039	18	9	66	152	50	70	54
118	97	133	61	49	60	31	81	98	1771	36	9	67	135	122	76	15
119	99	94	58	109	57	100	79	102	1607	46	10	34	163	13	66	68
120	99	95	73	1	56	112	88	57	1476	56	10	45	149	62	69	59
121	101	65	62	26	61	13	97	21	645	131	7	115	153	39	31	143
122	99	90	61	50	59	42	76	110	958	107	8	106	144	92	52	110
123	102	41	64	10	61	8	80	99	891	113	9	68	124	142	45	123
124	100	66	60	59	58	57	79	103	1297	84	10	46	150	59	63	77
125	98	109	57	121	56	123	81	97	1408	68	10	35	143	95	55	100
126	101	57	63	16	60	16	63	142	601	133	5	144	139	109	41	131
127	99	84	61	42	59	35	92	40	958	108	8	96	152	46	61	83
128	101	46	71	3	68	2	62	144	416	142	7	107	128	133	52	112
129	97	134	59	97	58	83	92	31	836	121	9	78	147	77	56	95
130	103	21	64	11	60	32	62	145	457	139	5	143	116	145	66	65
131	101	47	59	68	58	56	80	101	741	128	7	117	147	74	44	126
132	102	35	60	57	57	98	73	121	1072	96	6	127	143	94	40	134
133	101	43	61	51	59	44	86	67	538	135	6	122	148	67	54	105
134	99	100	59	84	58	84	63	140	1275	88	11	22	124	143	76	17
135	97	118	59	87	57	88	73	118	2206	7	13	4	140	106	70	53
136	99	85	62	28	60	17	97	16	2010	21	10	36	149	65	62	82
137	101	55	61	35	59	45	83	87	639	132	5	138	138	111	46	121
138	102	36	63	17	-1	148	107	3	420	140	7	119	166	9	51	113
139	97	119	62	22	59	37	92	37	2236	6	9	79	155	34	69	56
140	97	120	57	123	56	113	83	86	1111	93	8	97	167	7	66	70
141	97	122	59	88	57	89	103	6	399	143	4	146	154	37	33	142
142	102	22	67	4	62	3	109	2	1005	104	5	141	168	6	40	135
143	100	67	59	69	58	58	89	48	1424	63	12	8	152	45	63	80
144	97	121	57	122	56	124	96	22	1493	53	9	55	158	22	78	9
145	51	144	62	29	58	59	89	52	1072	97	7	118	149	60	34	141
146	0	146	0	146	0	145	0	146	0	146	6	130	0	146	0	146
147	0	147	0	147	0	146	0	147	0	147	6	131	0	147	0	147
148	0	148	0	148	0	147	0	148	0	148	0	148	0	148	0	148
nrl Mn	**96.46**	**.**	**58.11**	**.**	**55.92**	**.**	**82.72**	**.**	**1337**	**.**	**8.51**	**.**	**143.58**	**.**	**60.3**	**.**
p-Vlu	<.0001	.	<.0001	.	<.0001	.	<.0001	.	0.0043	.	0.5222	.	<.0001	.	0.0019	.
V(%)	12.64	.	9.14	.	15.66	.	15.26	.	48.52	.	55.75	.	10.08	.	29.58	.

Table 24. CAT-15101

Entry	DT	DS	PH	EH	NoC	GY
1	55	60	222	137	14	3246
2	54	56	215	107	15	7402
3	61	62	185	80	12	1365
4	59	59	144	84	13	883
5	58	59	150	91	5	1517
6	58	58	139	69	14	848
7	58	58	153	73	18	2289
8	59	58	181	87	17	625
9	59	58	182	92	17	1695
10	59	57	174	87	11	692
11	55	57	176	91	6	475
12	61	62	147	78	11	223
13	62	63	138	77	3	987
14	59	59	200	116	13	2444
15	62	60	196	97	8	458
16	61	59	173	97	3	1847
17	62	64	144	65	12	1832
18	60	59	188	119	10	1474
19	58	59	170	108	12	1576
20	62	63	188	113	12	483
21	63	60	188	100	13	1365
22	64	62	183	120	10	993
23	63	60	186	105	10	1840
24	53	54	242	130	15	5406
25	61	60	175	95	3	1214
26	59	58	183	104	11	1204
27	61	59	153	83	11	1603
28	66	65	218	132	1	0
29	68	67	221	145	6	879
30	58	59	212	100	10	454
31	58	59	206	93	5	1843
32	58	60	213	107	12	783
33	54	54	187	100	15	2623
34	55	54	161	85	17	1449
35	56	57	191	91	7	503
36	58	56	166	79	3	1880
37	54	55	139	73	8	820
38	58	56	174	94	15	1323
39	67	66	213	126	11	1918
40	58	58	192	98	10	1730

Annexures

Annexure I

Maize area, production and yield statistics in Indian states from 2012-13 to 2014-15

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
Andhra Pradesh	Kharif	565.0	565.0	622.0	2342.0	1970.2	1738.0	4145	3487	2794
	Rabi	407.0	441.0	373.0	2513.0	2892.0	2498.0	6174	6558	6697
	Total	972.0	1006.0	995.0	4855.0	4862.2	4236.0	4995	4833	4257
Arunachal Pradesh	Kharif	39.0	39.0	*	55.5	55.5	*	1423	1423	-
	Rabi	8.5	8.0	*	12.7	13.5	*	1496	1681	-
	Total	47.5	47.0	*	68.2	69.0	*	1436	1467	-
Assam	Kharif	23.7	24.1	23.0	21.3	21.6	38.0	897	898	1652
Bihar	Autumn	261.0	276.6	250.2	646.2	581.6	619.5	2476	2103	2476
	Rabi	424.6	455.8	464.0	1829.6	1530.4	1558.1	4309	3358	3358
	Total	685.6	732.3	714.2	2475.9	2112.1	2177.6	3611	2884	3049
Chattisgarh	Kharif	107.2	111.1	122.1	207.5	229.1	230.3	1936	2062	1886
Gujarat	Kharif	373.0	333.0	318.0	625.0	422.0	463.0	1676	1267	1456
	Rabi	85.0	128.0	105.0	166.0	259.0	209.0	1953	2023	1990
	Total	458.0	461.0	423.0	791.0	681.0	672.0	1727	1477	1589
Haryana	Kharif	9.0	9.0	8.0	23.0	27.0	18.0	2556	3000	2250
Himachal Pradesh	Kharif	294.3	292.7	300.0	657.2	652.1	752.7	2233	2228	2509
Jammu & Kashmir	Kharif	310.9	298.7	308.6	512.3	530.5	461.3	1648	1776	1495
Jharkhand	Autumn	243.4	250.8	263.6	435.8	506.0	466.1	1790	2017	1768
	Rabi	5.9	6.1	6.2	15.9	11.0	9.5	2689	1807	1532
	Total	249.3	256.9	269.8	451.7	517.0	475.7	1812	2012	1763
Karnataka	Kharif	1162.0	1246.0	1210.0	2978.0	3578.5	3484.8	2563	2872	2880
	Rabi	160.0	131.0	130.0	497.0	406.0	430.0	3106	3099	3308
	Total	1322.0	1377.0	1340.0	3475.0	3984.5	3914.8	2629	2894	2921
Kerala	Kharif	0.2	0.1	0.1	0.0	0.1	0.1	61	2000	1000
Madhya Pradesh	Kharif	845.4	868.0	1132.0	1513.6	1534.0	2026.3	1790	1767	1790
Maharashtra	Kharif	689.0	747.0	797.0	1582.0	2133.4	1597.0	2296	2856	2004
	Rabi	133.0	254.0	262.0	242.0	596.0	606.0	1820	2346	2313
	Total	822.0	1001.0	1059.0	1824.0	2729.4	2203.0	2219	2727	2080
Manipur	Total	19.4	26.1	*	44.7	58.6	*	2301	2246	-
Meghalaya	Kharif	17.3	18.0	*	26.9	39.7	*	1554	2200	-
Mizoram	Kharif	5.9	5.6	*	7.7	8.0	*	1305	1424	-
	Rabi	0.2	0.2	*	0.3	0.2	*	1611	1294	-

State/ UT	Season	Area ('000 ha)			Production ('000 tonnes)			Yield (kg/ha)		
		2012-13	2013-14	2014-15	2012-13	2013-14	2014-15	2012-13	2013-14	2014-15
	Total	6.1	5.8	*	8.0	8.2	*	1314	1420	-
Nagaland	Kharif	68.7	63.6	*	134.7	125.2	*	1961	1969	-
	Rabi	0.0	5.2	*	*	10.3	*	*	1973	-
	Total	68.7	68.8	89.4	134.7	135.4	182.3	1961	1969	2039
Odisha	Kharif	90.9	91.5	2.3	217.5	253.2	6.3	2393	2766	2739
	Rabi	3.6	3.6	*	10.0	10.4	*	2793	2905	-
	Total	94.5	95.1	91.7	227.5	263.6	188.5	2408	2771	2056
Punjab	Kharif	129.0	130.0	126.0	475.0	507.0	460.0	3682	3900	3651
Rajasthan	Kharif	978.4	916.4	891.5	1725.2	1463.8	1551.2	1763	1597	1740
	Rabi	7.8	10.3	12.8	29.9	38.4	50.0	3844	3729	3906
	Total	986.2	926.7	904.3	1755.1	1502.2	1601.3	1780	1621	1771
Sikkim	Kharif	40.0	39.9	*	68.0	68.8	*	1700	1724	-
Tamil Nadu	Kharif	171.3	188.0	116.4	609.0	1068.2	598.2	3554	5682	5139
	Rabi	119.6	157.3	225.8	337.2	786.9	1235.7	2819	5002	5473
	Total	291.0	345.3	342.2	946.2	1855.1	1833.9	3252	5372	5359
Tripura	Total	3.6	4.6	*	4.7	5.9	*	1295	1277	-
Uttar Pradesh	Kharif	698.0	696.0	643.0	1154.5	1151.2	1143.0	1654	1654	1778
	Rabi	38.0	71.0	69.0	80.0	155.0	132.0	2105	2183	1913
	Total	736.0	767.0	712.0	1234.5	1306.2	1275.0	1677	1703	1791
Uttarakhand	Total	28.0	25.0	25.0	40.2	35.5	53.0	1437	1419	2120
West Bengal	Kharif	40.6	43.7	45.4	96.8	117.4	122.1	2384	2687	2689
	Rabi	65.0	85.0	105.0	320.0	405.0	530.0	4923	4765	5048
	Total	105.6	128.7	150.4	416.8	522.4	652.1	3947	4059	4336
A & N Islands	Kharif	0.1	0.1	*	0.2	0.3	*	2000	2254	-
D & N Haveli	Kharif	0.1	0.1	*	0.1	0.1	*	1000	1000	-
Others	Kharif	-	-	200.4	-	-	382.0	-	-	1906
	Rabi	-	-	11.1	-	-	21.5	-	-	1937
	Total	-	-	211.5	-	-	403.5	-	-	1908
All India	Kharif	7214	7310	7492	16204	17145	16387	2246	2346	2187
	Rabi	1458	1757	1766	6054	7115	7286	4152	4050	4125
	Total	8673	9066	9233	22258	24259	23673	2566	2676	2564

***Included in other states**

Annexure II

Meteorological Observations

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H(%)		Sunshine Hrs.
			Min	Max		Min	Max	
1.	Pantnagar	June	24.9	37.0	332.6	47	69	
		July	25.8	32.5	380.6	70	86	
		August	25.4	31.9	335.7	71	90	
		September	23.8	33.4	112.0	61	88	
		October	18.1	31.5	5.0	50	85	
		November	12.2	28.1	2.0	42	91	
2.	Udhampur	January	2.5	19.2	20.4	076	100	
		February	6.6	21.3	201.2	045	100	
		March	9.3	23.3	506.4	040	096	
		April	13.9	27.9	196.5	040	095	
		May	16.9	35.1	54.2	056	065	
		June	19.8	34.8	102.2	050	066	
		July	23.2	32.4	276.4	058	095	
		August	23.1	32.4	304.8	075	090	
		September	18.8	32.2	171.8	065	100	
		October	14.0	29.0	32.2	060	100	
		November	8.9	25.4	16.8	045	100	
		December	4.8	20.7	66.0	040	100	
3.	Dholi	January	10.0	19.1	3.2	87.1	99.3	
		February	12.0	25.1	-	76.8	99.4	
		March	16.1	29.1	6.65	62.9	94.0	
		April	20.2	32.8	18.6	66.0	91.5	
		May	23.8	35.6	9.65	63.9	91.2	
		June	26.4	36.3	18.6	61.9	91.7	
		July	26.4	32.8	13.17	75.6	95.6	
		August	25.9	32.6	64.85	78.9	93.8	
		September	25.6	33.0	2.22	73.3	96.5	
		October	21.3	32.7	-	74.4	97.9	
		November	13.9	29.4	-	82.1	94.4	
		December	9.9	23.1	-	80.9	98.8	
4.	Chhindwara	June	26.75	34.31	126		78.07	
		July	24.79	29.61	201		85.16	
		August	23.66	29.29	363		93.13	
		September	23.16	31.02	134		82.27	
		October	20.81	32.47	45		63.52	
		November	17.87	29.79	0		64.47	
		December	12.07	27.39	0		56.10	
5.	Bhubneshwer	June	26.1	36.2	94.8 (13)	61.5	88.2	
		July	25	33.3	223.5 (19)	72.3	90.7	
		August	25.1	32.9	297.8 (15)	76.6	92.4	
		September	25	33	151.5 (12)	74.5	91.3	
		October	23.5	33.2	75.5 (7)	67.2	93	
		November	--	--	--	--	--	
		December	--	--	--	--	--	
6.	Gossaingaon	January	11.1	22.4	20.6	63.2	94.9	
		February	12.4	24.5	1.6	60.7	93.3	
		March	18.6	29.3	24.3	49.7	84.8	
		April	20	29.7	107.4	53.1	87.1	

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H(%)		Sunshine Hrs.
			Min	Max		Min	Max	
		May	22.4	30.6	544.9	62.5	89.8	
		June	23.7	30.5	1061.2	78.8	92.6	
		July	25.5	33.1	650.6	72.2	85.1	
		August	24.8	31.9	1267.1	80.9	91.5	
		September	24.1	32	316.9	73.2	92	
		October	20.3	32.4	23.9	59.5	89.4	
		November	9.8	28.9	0.0	54.4	92.3	
		December	9.9	25.7	0.0	55.5	99.5	
7.	Hyderabaad	June	24.9	33.5	160	53.6	78.5	4.9
		July	23.8	33.6	25.2	50.2	78.4	7.1
		August	22.8	31.2	126.8	64.1	87.5	4.7
		September	22.4	31.0	168.2	65.4	89.9	5.2
		October	19.7	32.3	36.4	45.7	90.6	7.7
		November	17.7	30.5	17.3	55.3	88.0	7.4
		December	14.8	30.9	1.4	34.8	86.5	7.9
8.	Dharwad	January	13.3	28.6	000.2	40.7	63.6	
		February	14.6	31.8	-	24.2	52.6	
		March	19.3	33.2	105.2	34.8	73.1	
		April	20.3	35.1	13.2	35.6	68.3	
		May	21.9	34.7	129.4	53.2	78.8	
		June	21.2	28.8	160.2	74.3	85.0	
		July	21.0	28.7	42.8	72.5	87.1	
		August	20.6	28.7	34.4	75.5	87.9	
		September	20.6	29.9	22.2	80.0	91.6	
		October	19.6	31.2	179.8	60.2	77.3	
		November	18.0	30.0	28.6	63.5	81.4	
		December	15.7	30.6	0.00	42.9	73.4	
9.	Ambikapur	January	8.5	23.0	10.8	43.9	93.9	
		February	11.6	27.8	7.8	36.4	84.3	
		March	15.5	29.3	27.6	40.0	79.1	
		April	20.1	33.5	87.9	41.5	72.4	
		May	24.6	39.2	0.0	35.3	62.5	
		June	24.3	34.3	147.8	54.2	73.0	
		July	22.6	28.7	515.9	77.3	93.1	
		August	22.6	29.4	218.3	76.3	92.8	
		September	21.1	30.3	134.2	67.3	91.4	
		October	17.3	31.4	66.0	46.0	83.9	
		November	14.1	28.4	0.0	41.6	89.3	
		December	8.9	24.8	0.0	43.6	86.2	
10.	Kangra	May	18.9	35.1	38.2			
		June	21.8	33.3	273.9			
		July	21.6	31.5	624.3			
		August	22.5	32	269.3			
		September	21.3	31.4	150			

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H(%)		Sunshine Hrs.
			Min	Max		Min	Max	
		October	19	28.4	39.8			
11	Karnal	May	22.2	39.8	2.26	23	58	
		June	24.4	37.4	6.3	40	68	
		July	25.6	33.1	27.21	68	85	
		August	25.1	32.7	4.68	73	93	
		September	22.8	33.5	15.6	59	92	
		October	17.6	32	3.2	46	92	
12.	Bahraich	January	10	16	0	70	82	
		February	13	20	0	54	79	
		March	18	31	0	48	72	
		April	27	36	0	32	58	
		May	28	42	0	32	52	
		June	30	44	0	28	54	
		July	28	38	240	80	87	
		August	27	37	220	75	88	
		September	25	32	0	79	88	
		October	22	30	0	62	75	
		November	17	29	0	56	68	
		December	14	25	0	52	64	
13.	Vagarai	June	25.80	35.61	6.50	56.95	74.47	
		July	27.73	37.34	1.50	56.16	73.83	
		August	27.80	37.08	5.50	56.30	73.61	
		September	25.31	36.14	77.00	47.89	83.43	
		October	22.20	33.79	199.00	64.56	92.94	
		November	22.76	30.35	107.50	69.22	95.74	
		December	27.36	34.51	124.00	78.63	82.72	
14.	Banswara	June	26.17	37.05	29.77	46	68	5.92
		July	26.2	32.27	197.75	65.25	78.25	3.75
		Aug	25.0	30.9	48.8	68.6	86.8	4.04
		Sep	23.7	32.97	13.5	54.5	80.5	7.72
		Oct	19.4	36.9		28.5	68.5	9.55
15.	Coimbatore	June	23.7	32.3	46.9	55.0	56.0	5.8
		July	22.9	32.2	5.1	50.0	55.0	6.9
		August	23.2	32.3	28.1	51.0	62.0	7.5
		September	23.8	33	66.2	47.0	63.0	7.2
		October	23.3	31.6	65.2	52.0	72.0	7.4
		November	22	28.6	191.3	71.0	73.0	4.7
16.	Bajaura	April	9.7	25.2	88.9	91	48	7.1
		May	11.8	30.5	42.7	89	42	8.1
		June	16.1	30.3	93.8	86	49	7.2
		July	20.9	30.3	189.7	92	60	5.6
		August	20.6	30.3	91.3	92	60	5.5
		September	15.5	29.5	45.2	90	46	7.7
		October	9.0	27.9	9.5	91	35	7.8
		November	4.7	23.1	14.7	93	40	5.7
17.	Barapani	July	19.2	29.0	230	71.2	85.0	-
		August	19.0	27.2	692	79.8	89.1	-
		September	17.9	27.8	491	78.1	87.2	-
		October	14.7	27.4	230	72.7	86.7	-

S. No.	Station Name	Month	Temperature		Rainfall of month(mm)	R.H(%)		Sunshine Hrs.
			Min	Max		Min	Max	
		November	9.7	24.5	94	59.4	86.2	-
18.	Mandya	April	19.6	33.8	23.2	33.5	79.7	6.4
		May	19.6	32.8	135.3	33.7	87.1	2.2
		June	19.8	30.1	60.0	56.5	86.8	4.7
		July	19.2	30.7	1.2	54.5	83.1	4.6
		August	19.2	30.4	67.8	59.7	83.7	4.8
		September	18.5	29.6	82.6	54.8	91.2	5.1
		October	19.4	29.5	47.0	59.1	90.5	5.1
		November	15.3	29.4	168.6	59.3	90.6	1.4
		December	15.0	29.0	7.2	65.6	88.5	4.6
19.	Godhra	July	25.5	32.7	69.8	79.9	1.4	
		August	24.9	32.0	11.7	82.3	3.0	
		September	23.8	32.9	7.8	78.0	6.1	
		October	20.7	36.1	-	64.6	8.4	
		November	18.0	34.0	-	59.8	7.3	

Annexure III

Guidelines for Uniform Method of Disease Assessment in Maize Under Artificially/ Sick Plot Created Epiphytotics

The screening techniques and rating of the disease intensities for uniform assessment of maize diseases are given below:

1. Turcicum leaf blight (TLB) and maydis leaf blight (MLB)

Sorghum grains soaked in water in a conical flask, autoclaved twice, seeded with fungus under aseptic condition are kept for incubation at 25-27^{0}C. The flasks are shaken once in 2-3 days to facilitate uniform growth on grains. After 10 days the material is ready for inoculation. Prepare a fine powder of impregnated sorghum grains after shade drying. Put a pinch of this powder in the leaf whorl of 30-35 days old plant. Maintain adequate moisture for longer period to permit spore germination with the help of sprayer. Disease can also be created by spraying the spore suspension prepared from the pure culture of fungi or placing a pinch of leaf meal (prepared by grinding dried diseased leaves collected from the previous season) into whorl of each plant at 30-35 centimeter plant height with spray of 10-12 ml of water in whorl in case of dry weather. Second inoculation can be followed if the symptoms do not appear even after a week of first inoculation. Data can be recorded on 30-35 days after inoculation following rating scale of Payak and Sharma[#] (1983) mentioned below:

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Very slight to slight infection, one or two to few scattered lesions on lower leaves	20.0	Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0)
2.0	Light infection, moderate number of lesions on lower leaves only	40.0	
3.0	Moderate infection, abundant lesions on lower leaves, few on middle leaves	60.0	Moderately resistant (Score: 2.1 – 3.0) (PDI: 40.1 – 60.0)
4.0	Heavy infections abundant on lower and middle leaves, extending to upper leaves	80.0	Moderately susceptible (Score: 3.1 – 4.0) (PDI: 60.1 – 80.0)
5.0	Very heavy infection, lesions abundant on almost all leaves plants prematurely dry or killed by the disease.	100.0	Susceptible (Score: ≥4.1) (PDI: ≥ 80.0)

*Percent disease index (PDI)

2. Banded leaf and sheath blight (BLSB)

Soak barley grains in water for 24 hours and dispense 40g in 250 ml Erlenmeyer flask after removing excess water; autoclave at a pressure of 1.05 kg/sq. cm for 30 minutes. Homogenize 2-3 days old growth of pathogen taken from potato dextrose agar in sterile water and seed 5 ml in each flask. Incubate at 27°C for 10 days. Inoculations should be made during the rainy season on 30-45 days old plants with grain culture (2-4 grains) inserted between stalk and sheath at second or third level from soil. Grains placed at junction of sheath and leaf can also create optimum disease level and do not fall away with strong wind or heavy rain. Disease is

recoded after 30-35 days of inoculations on basis of following rating scale of Payak and Sharma[#] (1983).

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Disease on one leaf sheath only; few small, non-coalescent lesions present	20.0	Resistant (Score: ≤ 2.0) (PDI ≤ 40.0)
1.5	Disease on two sheaths: lesions large and coalescent	30.0	
2.0	Disease up to four sheaths; lesions many and always coalescent	40.0	
2.5	As in disease rating symptoms of 2.0 + rind discolored with small lesions	50.0	Moderately resistant (Score: 2.1 - 3.0) (PDI 40.1 - 60.0)
3.0	Disease on all sheaths except two internodes below the ear	60.0	
3.5	Disease up to one internode below ear shoot; rind discoloration on many internodes with large depressed lesions	70.0	Moderately susceptible (Score: 3.1 - 4.0) (PDI 60.1 - 80.0)
4.0	Disease up to the internode bearing the ear shoot but shank not affected	80.0	
4.5	Disease on the ear; husk leaves show bleaching, bands and caking among themselves as also silk fibres; abundant fungal growth between and on kernels; kernel formation normal except being lusterless; ear size less than normal; some plants prematurely dead	90.0	Susceptible (Score: ≥ 4.0) (≥ 80.0)
5.0	In addition to disease rating symptoms of 4.5, shrinkage of stalk; reduced ear dimensions, wet rot and disorganization of ear; kernel formation absent or rudimentary; prematurely dead plants common; abundant sclerotial production on husk leaves, kernels, ear tips and stalk fibres	100.0	

***Percent disease index (PDI)**

3. Brown stripe downy mildew (BSDM)

Artificial epiphytotic conditions can be created by placing the powdered infected maize leaves containing spores collected during the last season containing oospores in furrows just before planting. This inoculum could also be prepared by collecting infected leaves supposed to be full of oospores from early plantings of maize of the same season, drying leaves and making powder out of the debris. Inoculum should be placed in furrows in such a manner that seeds were in proximity of inoculum.

Artificial epiphytotic condition could also be created by putting 2-3 cm pieces of freshly infected leaves containing sporangia of the fungus in the whorls of seedlings. This should be done during cloudy weather in the evening between 5 and 7 P.M. at 17, 24 and 30 days after planting. In experimental plots, where disease occurs year after year, only this method is adequate for creating epidemics. In areas of low disease incidence, both the methods of inoculation can be combined to obtain better results. Disease rating of individual maize varieties can be done by evaluation all plants of the row (s) using 1-5 rating scale of Payak and Sharma[#] (1983) as described below:

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	No infection	20.0	Resistant (Score: ≤ 2.0) (PDI: ≤ 40.0)
2.0	Light infection, a few scattered to moderate number of stripes on lower leaves	40.0	
3.0	Moderate infection, abundant stripes on lower leaves and few on middle leaves	60.0	Moderately resistant (Score: 2.1 - 3.0) (PDI: 40.1 - 60 .0)
4.0	Heavy infection, stripes abundant on lower and middle leaves extending to upper leaves	80.0	Moderately susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80 .0)
5.0	Very heavy infection, stripes abundant on all leaves. No cob formation. Plants may be killed prematurely.	100.0	Susceptible (Score: ≥ 4.0) (PDI: ≥ 80 .0)

***Percent disease index (PDI)**

4. Curvularia leaf spot (CLS)

Mass multiplication of culture is done on half cooked sorghum grains and after evaporating excess moisture from surface, the grains are filled in 500 ml conical flasks and plugged properly. These are autoclaved for two hours at 15 lbs pressure and inoculated when cooled down at room temperature with pure culture of *Curvularialunata*. After completion of mycelial growth which may take 15-20 days at temperature around 25-27 degree C, these grains are washed in RO water to get conidial suspension of $5X10^4$ conidia per ml. A bucket full of suspension is enough for spray inoculation of two 480 meter strip. The washed grains are spread in a tray to get again mass of conidia. After two days gap, one more spray inoculation is done as per previous method, but this time conidial suspension should be half of the previous one.

At least three observations are made and third observation at 80-85 DAS would be final based on leaf area covered by spots caused by pathogen. Observations are recorded using 1-5 rating scale as described below:

Rating scale	Disease severity (%)	Disease reaction
1.0	1-20 % area of leaf infected	Resistant (Score: ≤ 2.0) (Severity: ≤ 40.0)
2.0	21-40 % area of leaf infected	
3.0	41-60 % area of leaf infected	Moderately resistant (Score: 2.1 - 3.0) (Severity: 40.1 - 60 .0)
4.0	61-80 % area of leaf infected	Moderately susceptible (Score: 3.1 - 4.0) (Severity: 60.1 - 80 .0)
5.0	81-100 % area of leaf infected	Susceptible (Score: ≥ 4.0) (Severity: ≥ 80 .0)

5. Common rust (C. rust) and Polysora rust (P. rust)

The rust is an obligate parasite and thus, it is very difficult to grow it on artificial media under laboratory condition. Though, for some specific purposes small amount of

inoculum can be grown under laboratory condition on detached leaf culture. But, this meager amount of culture obtained by such method is not sufficient to be utilized for large scale screening trials under field conditions. Therefore, naturally infected leaves showing large number of uredopustules may be collected from different places so that all the prevalent races in the areas may be utilized for screening the materials against the prevalent rust fungus.

The infected leaves thus collected should be macerated thoroughly in between two palms of the hands dipped under a bucket of water until the water gets sufficiently coloured. The uredospores can also be collected on a butter paper by tapping the severely infected leaves with fingers and then stored in glass vial or glass tube which can be sealed easily under a flame. The uredospores, thus obtained may be kept for longer period in the freezer at lower temperature i.e. 5-7°C and can also be easily carried to some distant places for inoculation purposes.

For inoculating the plants in a field use of a knapsack sprayer is very useful. The spore suspension should be sprayed over the plants during the second half of the day when the sun becomes mild. While spraying inoculum, the nozzle of the sprayer should be kept over whorl of the plant and all the leaves may be sprayed thoroughly. The spore suspension must be stirred continuously during spraying as the light spores aggregate together on the upper surface of the water.

Repeating the inoculation two to three times give a good result. In addition 2-4 lines of susceptible varieties grown as border rows around the screening plots also help to spread the disease. Disease rating is done as per scale devised by Payak and Sharma[#] (1983).

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Very slight to slight infection, one or two to few scattered pustules on lower leaves only.	20.0	Resistant (Score: ≤ 1.0) (PDI: ≤ 20.0)
2.0	Moderate number of pustules on lower leaves only (light infection)	40.0	Moderately resistant (Score: 1.1 - 2.0) (PDI: 20.1 - 40.0)
3.0	Abundant pustules on lower leaves; few on middle leaves (moderate infection)	60.0	Moderately susceptible (Score: 2.1 - 3.0) (PDI: 40.1 - 60.0)
4.0	Abundant pustules on lower and middle leaves; extending to upper leaves (heavy infection)	80.0	Susceptible (Score: 3.1 - 4.0) (PDI: 60.1 - 80.0)
5.0	Abundant pustules on all leaves, plant may dry prematurely or killed by the disease (very heavy infection)	100.0	Highly susceptible (Score: ≥ 4.0) (PDI: ≥ 80.0)

***Percent disease index (PDI)**

6. Sorghum downy mildew (SDM)

A. Screening through direct inoculation with conidia:

i. *Collection and maintenance of inoculum*: Sorghum plants showing systemic infection of downy mildew from the farmer's fields in and are collected during morning hours, preserved in polythene bags and brought to the laboratory. Conidiophores and conidia from the white bloom found on the lower surface of the leaves are washed with a fine jet of distilled water and conidial suspension

is collected from the sorghum leaves. The seedlings of susceptible cultivar are spray inoculated at 2 leaf stage (6-7 days old) with the conidial suspension collected from the sorghum leaves. The inoculation of the seedlings is continued till the plants reached 15 days and systemic symptoms are seen. The inoculum from these plants is multiplied by spray inoculating to the fortnightly sowings of maize. The infected plants are maintained in the plot throughout the experimental period. Artificial inoculation technique developed by Lal and Singh (1984) is followed to induce the disease incidence by spraying conidial suspension between 2.30 a.m. and 4.00 a.m.

ii. *Evaluation of maize genotypes under artificial inoculation:* Maize genotypes are evaluated against sorghum downy mildew by artificial inoculation. Artificial inoculation is done when the plants are at two leaves stage as described by Lal and Singh (1984). Diseased plants from which inoculum required to be drawn is sprayed with water at 6.00 PM so that leaves would have a thin film of water for good sporulation. By 2.00 AM, the inoculation crew assembles in the field with cleaned sprayers, torches and buckets. By 2.30 AM the diseased leaves with good sporulation are searched and washed in the water at the rate of 15 leaves per litre of water collected in the buckets. This operation is completed by 3.00 AM. Then the collected spore suspension in different buckets is thoroughly mixed and made upto 25 litres. The 25 litres of conidial inoculum is collected from 375 diseased leaves. The inoculation is completed by 4.00 AM with hand compression sprayer. Between 6.00 AM and at 6.00 PM water spray is given to the inoculated plot to create the required humidity artificially. With this method 100 percent disease incidence was created.

B. Spreader row technique: Spreader rows are sown 15-20 days prior to the sowing of the entries in 2.5 meter bands with a row spacing of 60 cm and plant to plant spacing of 30 cm. each band consisting of four rows surrounding on all the four directions. For this, highly susceptible variety will be used. Inoculation of these spreader rows is done by following the above artificial inoculation procedure. Test entries were sown as mentioned above.

Per cent disease incidence is recorded 35 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984).

Disease incidence (%)	**Disease reaction**
≤ 10	Resistant
10.1 – 25.0	Moderately resistant
25.1 – 50.0	Moderately susceptible
≥ 50.0	Susceptible

7. Rajasthan Downy Mildew (RDM)

Downy mildew nursery is required for artificial inoculation purposes. Susceptible maize cultivar is grown in cage house and the plants are inoculated at seedling stage by placing bits of downy mildew infected grasses *Heteropogon contortus* and *H. melanocarpus.* Humidity around 90% is maintained in the cage house. Chlorotic symptoms along with light green color extends up to upper green portion are typical symptoms. During midnight hours a layer of conidia can be seen. These plants serve as source of inoculum for artificial inoculation.

Since the pathogen is of nocturnal nature and produces conidia during 12:00 to 6 AM, hence the freshly harvested conidia are collected in distilled water or RO water. Before collecting conidia the leaves can be washed before an hour so as to get fresh

viable conidia. For screening the test entries, susceptible entries should be planted before 15 days and should be inoculated first. Since this pathogen does not form oospores on maize, hence sick plot technique does not work. The conidial suspension of harvested conidia is filled in dropping bottle to put drops of inoculum at seedling stage (6-7 days old) in the whorl (a cup like structure of upper leaf) during 3-5 AM. This should be done for 4-5 days regularly to avoid any escape. After 15-20 days symptoms become visible.

The observation is recorded as percent infected plants in a row out of total plants. At least three observations are taken at 30, 50 and 80 DAS. The last observation is considered as final, but number of plants is considered as of first observation. This is because some plants die and disappear due to infection. The entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

8. Pre-flowering stalk rot (Bacterial stalk rot)

A virulent isolate of *Erwina chrysanthemi* corn pathotype should be selected for inoculation. To maintain the virulence of the bacterium, it should be inoculated on healthy plants and then reisolated every year before mass inoculation. In order to isolate a virulent strain, the inoculated plants showing characteristic symptoms of the disease are selected. A small piece of rotten internode is immediately dipped into mercuric chloride solution (1:1000) for 5 seconds and passed through three changes of sterile water. The piece is then cut into two halves with sterilized blade, put into little sterile water and then teased apart with sterile needle. The small quantities of resulting suspension are then removed with a flamed wireloop and streaked out on well dried nutrient agar plates, the aim being to separate the cells so that they produce individual colonies. The characteristic colonies are identified after 2 days of incubation at 30°C and used for subculturing. The culture is used for testing the pathogenicity. The cultures which induce the typical symptoms of the disease within 48 hours of inoculation are used for mass inoculation. The inoculum is increased for mass inoculation on nutrient broth for 48 hours at 30°C. The inoculum was diluted 10 times with sterile water to maintain a concentration of approximate $1X10^{7-9}$ bacteria/ml.

The inoculation may be carried out when the crop is at the pre-silking stage or until flowering has reached 75%. To inoculate the plants a diagonal hole is made in the middle of second internode from the ground to the pith. One milliliter of bacterial suspension is injected into the plant through the hole by a hypodermic syringe. If necessary, a second inoculation may be done one week later in the third internode from the ground**.** Percent disease incidence is recorded 15 days after sowing and the entries are classified according to their disease reaction as described by Lal and Singh (1984) for SDM.

9. Post flowering stalk rots (Charcoal rot, Fusarium stalk rot and Late wilt)

Screening for resistance against these diseases can is easily be done in sick plots. However, artificial inoculation is necessary where such plots are not available. For this purpose the fungal material should be isolated from the infected stalks, cultured and multiplied in the laboratory as described below.

Small bits cut from the infected stalks should be surface sterilized with 0.1 per cent mercuric chloride solution for one minute followed by washing in sterile distilled water. Finally a single bit is to be aseptically transferred to sterilized potato dextrose

agar days at 26±2°C for getting the fungal hyphae to come out from the infected bits. Finally, the fungal hyphae is to be aseptically transferred to culture tubes containing the sterile PDA medium and to be incubated for about 10 days to get the stock culture of the pathogen to be used for increase of the inoculum in the laboratory for field inoculation.

Among various methods of field inoculation, the toothpick inoculation is followed for these diseases under the co-ordinated programmes. Round bamboo toothpicks about 6.5 cm long are boiled three times (about 1 hour each time) in tap water to remove toxic substances. After each boiling these are thoroughly washed in fresh water and dried in the sun. When these are thoroughly dry, they are loosely packed in bundles and put into the glass jars/ bottles and enough potato dextrose broth (one-third length of toothpicks) is added to thoroughly moisten the toothpicks plus some quantity in the bottom of the jars. The jars with the toothpicks are autoclaved immediately after the broth is added. Later the sterilized toothpicks are inoculated with the culture of the pathogen aseptically. The growth of the fungus covers the toothpicks and inoculum is ready for use in about 10 days.

Inoculations should be made just after flowering stage of plants. For inoculating plants, the lower internode (second/third) above soil level is opened with a jabber and the toothpick is inserted into the hole. The jabber is made by driving a nail of the diameter of the toothpick into a wooden handle. The head of the nail is ground off to a point and to the desired length (2cm). The round toothpicks effectively seal the hole in the stalk and prevent drying. The measurement is based on the proportion of disease present in the inoculated internodes and its subsequent spread. For scoring disease severity of PFSR, 1-9 rating scale of Payak and Sharma[#] (1983) is followed:

Rating scale	Disease severity (%)	PDI*	Disease reaction
1.0	Healthy or trace/slight discolouration at the site of inoculation.	11.11	Resistant (Score: ≤ 3.0) (PDI: ≤33.33)
2.0	Up to 50% of the inoculated internode is discoloured	22.22	
3.0	51-75% of the inoculated internode is discoloured	33.33	
4.0	76-100% of the inoculated internode is discoloured	44.44	Moderately resistant (Score: 3.1- 5.0) (PDI: 33.34 - 55.55)
5.0	Less than 50% discolouration of the adjacent internode	55.55	
6.0	More than 50% discolouration of the adjacent internode	66.66	Moderately susceptible (Score: 5.1 - 7.0) (PDI: 55.56 - 77.77)
7.0	Discolouration of three internodes	77.77	
8.0	Discolouration of four internodes	88.88	Susceptible (Score: ≥ 7.0) (PDI: ≥ 77.77)
9.0	Discolouration of five or more internodes and premature death of plant	99.99	

***Percent disease index (PDI)**

10. Maize cyst nematode (*Heterodera zeae)*

Plant parasitic nematodes are responsible to causes 10.2% losses o maize. Though, large number of plant parasitic nematodes attacks on maize but maize cyst nematode (*Heterodera zeae*) is considered as most important and therefore, screening trials are carried out under artificially inoculated conditions in permanent plots to find out source of resistance against maize cyst nematode (*Heterodera zeae*). The observations on nematode infestation are recorded after 45 days of germination. The varieties/hybrids/ lines are categorized on the basis of cyst/plant as mentioned below:

S. No.	Number of cyst/plant	Category
1	0 - 4 cyst/plant	Resistant
2	Above 4 - 9 cyst/plant	Moderately Resistant
3	Above 9 cyst/plant	Susceptible

*** Calculation of Percent Disease Index (PDI) of Foliar Diseases of Maize**

Percent disease index (PDI) is calculated using the following formula of Mckinney (1923).

$$\text{Percent disease index (PDI)} = \frac{Sum\ of\ individual\ rating}{No.\ of\ leaves\ examined} \times \frac{100}{Maximum\ disease\ rating}$$

On the basis of PDI, the inbred lines/ varieties/ hybrids can be classified as resistant (R), moderately resistant (MR), moderately susceptible (MS) and susceptible (S). The test inbred lines/ varieties/ hybrids with resistant reaction are considered acceptable for a breeding programme whereas test inbred lines/ varieties/ hybrids with moderately resistant are acceptable when lines with resistant reaction are not available.

#M.M. Payak and R.C. Sharma. Disease rating scales in maize in India. *In: Techniques of Scoring for Resistance to Important Diseases of Maize*. All India Coordinated Maize Improvement Project, Indian Agriculture Research Institute, New Delhi, 1983, pp. 1-4.

Annexure IV

Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by Workshops

Indian Council of Agricultural Research

Index

Summary of Proposal (in bullets only)

Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by Workshops

1	Name of the crop and species	:	
2	a) Name of the variety under which tested in AICRP trials	:	
	b) Proposed name of the variety	:	
3	Sponsored by (institute)	:	
4	a) Institution or agency responsible for developing variety (with full address)	:	
	b) Name of the person who helped in the development of the variety Developers Collaborators	:	
5	a) Parentage (with details of its pedigree including source from which variety/Inbred/ A, B and R lines of hybrid has been developed)	:	
	b) Source of material in case of introduction	:	
	c) DNA profile of variety/hybrid/inbred/A, B, R line of hybrid vis-à-vis check variety/ line		
	d) Breeding method used	:	
	e) Breeding objective	:	
6	State the varieties which are most closely resemble the proposed variety in general characters	:	
7	Recommended productions ecology (Rainfed/Irrigated; high/low fertility; season)	:	
8	Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology	:	
9	Description of hybrid/variety	:	
	a) Plant height	:	

	b) Distinguishing morphological characters	:			
	c) Maturity (range in number of days) (from seedling/ transplanting to flowering, seed to seed)	:			
	d) Maturity group (early, medium and late wherever such classification exists)	:			
	e) Reaction to major diseases under field and controlled conditions (reaction to physiological strains/ races/pathotypes/ bio-types to be indicated wherever possible)	:			
	f) Reaction to major pests (under field and controlled condition including store pests)	:			
	g) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)	:			
	h) Quality of produce	:			
	Grain quality	:			
	Fodder quality	:			
	i) Reaction to stresses	:			
10	Description of the parents of the hybrid	:	A line/Inbred 1	B line/Inbred 2	R line
	a) Plant height (cm)	:			
	b) Distinguishing morphological characters	:			
	c) Days to flowering	:			
	d) Days to maturity (range in number of days – from seed to seed)	:			
	e) Is there any problem of synchronization? If yes, method to overcome it	:			
	f) Reaction to major diseases (under field and controlled conditions, reaction to	:			

	physiological strains/ races/bio-types/ pathotypes to be indicated wherever possible)				
	g) Reaction to major pests (under field and controlled conditions including store pests)	:			
	h) Agronomic features (e.g. resistance to lodging, shattering, fertilizer responsiveness, suitability to early or late sown conditions, seed rate etc.)	:			
	i) Reaction to stresses	:			
11	a) Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district trials year wise (levels of fertilizer application, density of plant population and superiority over local control/standard variety to be indicated (to be attached)	:			
	b) Yield data from national, demonstration/large scale demonstrations (to be attached)	:			
12	a) Agency responsible for maintaining breeder seed	:			
	b) Quantity of breeder seed in stock (kg) Variety A line B line R line Hybrid	:			
13	Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production)	:			
14	Vivid presentation (field view, close-up of single plant and				

	seed/economic parts)		
15	Package of practices along with attainable yield levels		
16	Any other pertinent information	:	

Signature of all contributors

Signature of Head of institution

Checklist for proforma for submission of proposal for Identification of Crop Varieties/ Hybrids by Workshops

Details/document	Attached	
Parentage with details of its pedigree including source from which variety/Inbred/A, B and R lines of hybrid has been developed	Yes	No
Source of material in case of introduction (IC/EC numbers provided by NBPGR)	Yes	No
Flow chart of details of development of variety/ parental lines of hybrids	Yes	No
Molecular/ DNA profile of variety/hybrid/A, B, R line of hybrid vis-à-vis check variety/ line (details of unique amplicons that distinguishing markers along with photographs	Yes	No
Detailed description of hybrid/variety	Yes	No
Detailed description of the parental lines of hybrid	Yes	No
Yield data and other data on diseases, insect-pest, quality etc. from coordinated trials	Yes	No
Yield data from national, demonstration/large scale demonstrations	Yes	No
Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production etc.)	Yes	No
Vivid presentation (field view, close-up of single plant and seed) with the help of photographs of the variety)	Yes	No
Package of practices	Yes	No
Proforma signed by all co-authors and Head of Organization	Yes	No
Any other pertinent information	Yes	No

Signature of Head of Institution

Table 1. Summary yield data of Coordinated Varietal Trials

Name of proposed variety/Hybrid:----------						Adaptability Zone ----------						
						Production conditions----------						
	Year of testing	No. of trials/locations	Proposed variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3	**Mean yield of hybrids released over the last five years**	**Percentage increase or decrease over the released hybrids**
Mean yield (Q/ha) a) Zonal b) across Zones (If applicable)	1st year											
	2nd year											
	3rd year											
	Weighted Mean											
Percentage increase or decrease over the checks & qualifying varieties	1st year											
	2nd year											
	3rd year											
	Weighted mean											
Frequency in the top three group (pooled for three years)												

Note:

1. Qualifying variety is one which has completed three years of testing in coordinated trials
2. Centre- wise and year -wise data must be appended, otherwise proposal will not be considered
3. Give percentage increase or decrease of the proposed hybrid over the hybrids released for the target zone over 5 years' period otherwise the proposal will not be considered

Table 2. Adaptability to Agronomic Variables

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------				
					Production condition----------				
Nature of Expt.	Item	Proposed variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Sowing date experiments	Yield (Q/ha) under recommended sowing date								
	Percentage gain or loss when sown	i)Early ii)Normal iii) Late							
Fertilizer experiments	Yield (Q/ha) under recommended dose								
	Percentage gain or loss under other doses	i) F_0 ii)F_1 iii) F_2							
Irrigation experiments (wherever applicable)	Yield (Q/ha) with adequate irrigation								
	Percentage gain or loss with irrigation level	i) Level 1 ii) Level 2 iii) Level 3							

Note: specify each date of sowing, fertilizer level and number of irrigations at i, ii, iii

Table 3. Reaction to major diseases

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------					
					Production condition----------					
Disease name		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Disease 1	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 2	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 3	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Disease 4	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								

Table 4. Reaction to Insect Pests

Name of proposed variety/Hybrid:----------					Adaptability Zone ----------					
					Production condition----------					
Insect name		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Pest 1	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Pest 2	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								
Pest 3	Natural	1st year								
		2nd year								
		3rd year								
	Artificial	1st year								
		2nd year								
		3rd year								

Table 5. Data on Quality Characteristics

Quality Characterist.	Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
Parameter -1									
Parameter -2									
Parameter -3									
Parameter -4									

Note : Specify the parameters at 1 to 4 under first column

Table 6. Data on other important characters

Name of proposed variety/Hybrid:----------						Adaptability Zone ----------				
		Item	Proposed Variety	National Check 1	Zonal Check 2	Local check 3	Latest release Check 4	Qual. Var. 1	Qual. Var. 2	Qual. Var. 3
1.	Plant height	1st year								
		2nd year								
		3rd year								
2.	Days to flowering	1st year								
		2nd year								
		3rd year								
3.	Days to maturity	1st year								
		2nd year								
		3rd year								
4.	1000 grain weight	1st year								
		2nd year								
		3rd year								
5.	Lodging	1st year								
		2nd year								
		3rd year								
6.	Others	1st year								
		2nd year								
		3rd year								

Guidelines for Filling-up Proforma for Submission of Proposals for Identification of Crop Varieties/ Hybrids by the Workshops

1. Name of the crop and species

The name given to the variety may be indicative of crop name, institute name/code, and number, if any.

2. Name of the variety under which tested

This should include the name under which the variety was tested in coordinated trials.

3. Proposed name of the variety

This should include the name of the variety that is being proposed for its commercial use as per existing guidelines.

4. Sponsored by (institute)

This should include the name of the institute/organization that is sponsoring the variety

5. Institution or agency responsible for developing variety (with full address)

Institute or organization where the variety was developed along with full address

6. Name of the person who helped in the development of the variety

Only those workers should be included who have contributed in the development of variety/hybrid. The co-workers can be grouped in 2 categories as 'Developer' and 'Collaborator'**.** The co-worker should be associated with the project (from which cultivar has been developed) for a period of minimum of 2 years. The proposal should be signed by each of co-worker and validated by Head of Organization.

7. Parentage (with details of its pedigree including source from which variety/Inbred/ A, B and R lines of hybrid has been developed)

This should essentially include the details of base population/ source of material used for developing the variety/parental lines of hybrid. Pedigree and parentage have to be furnished in detail as to how the parents have been developed with flow charts instead of just giving the code numbers. Flow chart should clearly depict the development of the proposed culture with year-wise details of attempting the initial cross followed by handling of segregating generation.

The details of indigenous collection (IC) or exotic collection (EC) number of accessions (provided by NBPGR), if used, in the development of variety or parental lines of hybrids must be provided. Please note that this IC number is different from the one that is provided by NBPGR upon submission of seed sample of line/hybrid/variety once variety/ hybrid is recommended by the Variety Identification Committee (VIC).

8. Source of material in case of introduction

Details of EC (Exotic collection) number provided by NBPGR for the imported material used in variety development.

9. DNA profile of variety/hybrid/inbred/A, B, R line of hybrid vis-à-vis check variety/ line

Detailed information on the molecular discrimination should be provided. Such information can be developed at crop based institutes/NBPGR/Other labs. The information should include details of amplicons (name, sequence number, primer sequence) with reference to polymorphic markers. The relevant photographs should also be attached.

10. Breeding method used

The method used in developing the variety/parental line

11. Breeding objective

The breeding objective in the development of variety

12. State the varieties which are most closely resemble the proposed variety in general characters

The information should include the name of the varieties that resemble most closely with proposed variety with reference to different phenotypic traits.

13. Specific area of its adaptation (zones and states for which variety is proposed) and recommended productions ecology

The information on zones (name of the states), season and production conditions whether rainfed or irrigated should be mentioned.

14. Description of hybrid/variety

The average and expected normal range with respect to various characters may be mentioned.

15. Description of the parents of the hybrid

The average and expected normal range with respect to characters may be mentioned with reference to inbred/A line/ B line/ R line.

16. Yield data in coordinated trials (breeding, agronomy, pathology, entomology, quality etc) regional/inter regional district trials year wise (levels of fertilizer application, density of plant population and superiority over local control/standard variety to be indicated (to be attached)

The yield data and other data of coordinated trials and other details as per the format of tables should be appended. Please note that mean is 'weighted mean' and not 'arithmetic mean'.

17. Yield data from national, demonstration/large scale demonstrations (to be attached)

The yield and other details as per the format of tables should be appended.

18. Agency responsible for maintaining breeder seed

Name of the institute/organization/agency that is responsible to maintain the breeder seed of variety/parental line of hybrid.

19. Quantity of breeder seed in stock (kg)

Quantity (kg) of available seed with reference to variety, hybrid, inbred/ A/B/R lines of hybrid to be clearly indicated.

20. Information on acceptability of the variety by farmers/ consumers/ industry

Any information on such aspects can be given

21. Specific recommendations, if any, for seed production (e.g. staggered sowing, plating ratio of parental lines of hybrids in foundation and certified seed production, probable area of seed production)

The seed production technology and specific requirements should clearly be mentioned along with proposal. With respect to seed production of hybrid, the staggered sowing of parental lines, if required, should be clearly indicated. The planting ratio of male and female parents in the seed production plots should also be indicated. In addition, if there are some other precautions to be taken they are to be clearly mentioned. The probable area of seed production needs to be given.

22. Vivid presentation (field view, close-up of single plant and seed/economic parts)

The proposal should invariably have coloured pictures with a clear field view of variety, a close-up of single plant and seed/economic part. Photograph of other plant parts which can be helpful in identification of varieties can also be given. The cover page of proposal should also have a coloured photograph of variety and should be well-designed.

23. Package of practices along with attainable yield levels

A note on the package of practices of crop with respect to the variety needs to be provided particularly highlighting specific requirement of variety to realize its attainable yield levels.

24. Any other pertinent information

Any other relevant information which is important with reference to variety, hybrid or parental lines of hybrids.

25. Others

- One-page 'executive summary' of proposal may be provided in the beginning highlighting the specific features of the variety/hybrid. Excessive presentation in executive summary needs to be avoided.
- Page numbers should be provided at each page of proposal.

- Check-list needs to be part of the proposal.
- The CVRC proposal should be scrutinized at the level of Project Coordinator/Project Director before submission to CVRC. PCs/PDs will provide their comments on the proposal to member secretary (CVRC).

First Foundation Day & QPM Workshop

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