

54th Annual Progress Report



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**ALL INDIA COORDINATED RESEARCH PROJECT
DIRECTORATE OF MAIZE RESEARCH
PUSA CAMPUS, NEW DELHI -110012**

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Introduction

Maize (*Zea mays* L.) is the most widely distributed crop of the world being grown in tropics, sub-tropics and temperate regions up to 50° N and S from the equator to more than 3000m above sea level under irrigated to semi-arid conditions. It accounts 15 to 56% of the total daily calories of people in many of the developing countries. In India it is an important crop that holds a unique position in world agriculture, for food (23%), cattle feed (12%), and poultry, pig and fish meal feed (51%), starch (12%), brewery (1%) and seed 1%.

In India as per the latest report, maize area, production and productivity is 8.26mha, 16.72mt and 2.02t/ha, respectively (2009-10). The maize production has increased >10 times from a mere 1.73mt (1950-51) to 16.72mt (2009-10). Due to widespread flood during 2009-10 in major maize growing states like Karnataka and Andhra Pradesh and drought in eastern and central part of India the maize production was dipped by 3mt to 16.72 mt in 2009-10. However, the demand for maize is expected to touch 42mt by 2025 of which 20-21% will be used for human consumption, >60% as poultry and livestock feed and the remaining 12-13% for industrial raw material.

Tamil Nadu is one of the non-traditional area for maize cultivation, with the changing food habit and fast growing poultry industry in the state due to increased number of non-vegetarians' in the state demand for maize grain in the form of poultry feed in continuously increasing due to its cheap cost. Presently in Tamil Nadu maize is grown in an area of 287000ha (2008-09) with productivity of 4.4 t/ha which is higher than the national average as well as the previous year productivity of the same state (2007-08). However, this figure of maize productivity is still less than that of nearby state like Andhra Pradesh (4.9t/ha).

Seeing the importance and potential of the crop in this state, ICAR has decided to organize 54th Annual Maize Workshop at TNAU, Coimbatore (TN). The maize scientist across the country, ICAR authorities, planners and administrators of Universities and the states' representatives from seed and allied industries will be meeting here for the first time. All the participants will interact and develop strategy to increase the productivity and profitability of farmers not only of this state but of the whole nation.

Breeding:

Release of new cultivars: During 2010, 16 hybrids *viz.*, HQPM 4, HSC 1, DHM119, PMH 4, PMH 5, Vivek Hybrid Maize 39, Vivek Hybrid Maize 43, MCH 36, CP 828, CP 838, Bisco 855, Bisco 555, Bisco 111, KMH 25, K 60 and Kaveri 50 were released in different maturity groups by central sub Committee on Crop Standard and Notification of varieties for different agro-climatic conditions of the country.

Protection under PPV&FRA

Forty-three (extant varieties/hybrids) have been identified for grant of certificate under PPV&FRA. Among them, 18 varieties have been granted protection and 25 are under the process for registration. Applications for new hybrids {Vivek QPM 9, HM 11, EH 434042, DHM-111, DHM-113, DHM-117, Vivek Maize Hybrid 39, Vivek Maize Hybrid 43, PMH 4 (JH31153), PMH 5 (JH3110), DHM 119} are submitted for DUS testing and protection as per the PPV&FRA norms.

Evaluation of hybrids and composites in AICRP on maize trials:

In *Kharif* 2010, total of 249 hybrids/composites of normal, QPM, sweet corn, popcorn and baby corn of different maturity groups (Late, Medium, Early and Extra-Early) were evaluated against 21 checks in 41 trials across different locations of the country. The entries in IET and AET I in different maturity group across/zone have been promoted to next stage of testing based on superior performance over best check. The list of superior entries is given separately in the report. The superior entries in AET II will be identified for release based on three years data having superiority over the best check. The proposal will be discussed in the variety identification meeting.

Breeder Seed Production

Indent for maize breeder seed from various states and NSC was received and was also allocated to various centers for the current year 2010-11. The indent for all the varieties is honored. Breeder seed production is taken up by various allocated centers to meet the required demand of breeder seed in the country and the breeder seed production is surplus than indented in some of the case. A total of 177.74 quintal of seed was indented for the year 2010-11 and till date 174.16 quintals is produced. Some centers take up seed production during spring season; hence complete data will be available by May 2011 and report will be updated accordingly. The details of breeder seed produced for each variety and center is presented separately in the report.

Agronomy:

The genotypes of different maturity groups were evaluated under 3 fertility levels i.e. N: P₂O₅: K₂O 100:50:50, 150:65:65 and 200:80:80 in the four zones across the country. Across the zones, the extra early and early maturing genotypes responded to medium nutrient levels (150:65:65, N: P₂O₅: K₂O) at 8 out of the 9 locations whereas high nutrient levels (200:80:80, N: P₂O₅: K₂O), the response was recorded at 7 locations out of the 9 locations. The medium maturity genotypes responded to medium nutrient levels at 12 out of the 16 locations whereas the response to high nutrient levels was recorded at 14 out of the 17 locations. The response of late maturity genotypes to medium nutrient levels was recorded at 11 out of the 16 locations whereas at 13 out of the 17 locations the response was recorded with high nutrient levels. Across genotypes and maturity groups, the response to medium nutrient level was recorded at 31 out of the 41 locations whereas in high nutrient levels, it was recorded at more than 75 % locations (34 out of the 43

locations). Across genotypes the response to high nutrient levels varied greatly between the zones, the response in different zones was 80, 87.5, 75 and 75 % in zone II, III, IV and V, respectively. The maximum response was recorded in Zone-III.

Pathology:

A total of 245 maize genotypes and 20 QPM genotypes in 10 different trials comprising of various maturity groups were evaluated against different maize diseases *viz.* Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Post-flowering stalk rots(PFSR), Common rust (C. Rust), Polysora rust (P. Rust) and Erwinia stalk rot (ESR). The screenings of these genotypes were carried out under artificially inoculated conditions in the various hot spots located in different agro climatic zones of the country. In IET full season maturity a total of forty eight genotypes were resistant out of fifty two genotypes. In IET medium maturity a total of thirty seven genotypes showed resistant reaction out of sixty three genotypes. In IET early maturity a total of fourteen genotypes showed resistant reaction out of twenty six genotypes evaluated. In IET extra early maturity a total of six genotypes showed resistant reaction out of thirteen genotypes. In AET medium maturity a total of thirteen genotypes showed resistant reaction out of twenty four genotypes. In AET early maturity a total of seven genotypes showed resistant reaction out of twelve genotypes. In AET extra early maturity a total of four genotypes showed resistant reaction out of eight genotypes.

Nematology:

One hundred and fifty three maize entries belonging to different maturity groups were screened against cyst nematode, *Heterodera zae* maize entries *viz.* KDMH 755, NMH – 731, EH-2094, KH-101-Gold, NMH-3095, S 6304, CMH08-292 and CMH08-350 exhibited moderately resistant reaction to *H. zae*.

Entomology:

During *Kharif* 2010, 88 germplasm were evaluated by artificially infesting 10-15 DAG plants with 15-20 black headed stage of *Chilo partellus* eggs at seven locations. These germplasm were from all the four maturity groups' i.e. extra-early, early, medium and late maturity. Besides, five lines of Quality Protein Maize were also evaluated. After one month of infestation, plants were rated based on leaf injury on 1-9 scale. Out of 88 hybrids 34 hybrids of different maturity groups showed resistance to *chilo partellus* infestation. The resistant hybrids are as follows. In extra early maturity FH3483, DH-179 & Vivek QPM 9 (at Hyderabad), in early maturity BIO-605, FH 3506 and REH 2003 (at Udaipur, Hyderabad and Kolhapur respectively), in medium maturity X8B691, KMH-218Plus (at Udaipur) KMH-3426 & HKH-313 (at Udaipur & Kolhapur), NMH-803 (at Ludhiana), KDMH 017, KMH-218 Plus, JH 31285, NMH-803, Mukhya-108 & Sarpunch-171, BL2802, EH-1858, JH31242, KH-9452, VMH 4060 (at Hyderabad), in

late maturity group PRO 378, JH-12114 (at Udaipur, Hyderabad) Bisco-74, NMH-731, NMH-920, KH-404, CMH08-156, (at Udaipur) DMRNSCH 2 (at Ludhiana), DMRNSCH 2, BIO 9681 & KF-105 (at Hyderabad) KMH-548, Amar 6669 (at Hyderabad and Kolhapur). In QPM trail HQPM 1, HQPM 5, HQPM-14 were resistant at Udaipur and Hyderabad.

Biochemistry:

During the period of 2010–2011 a total of 1617 samples received from different sources were analyzed for various quality parameters *viz.* protein, tryptophan, lysine, oil, sugar, carotenoids, β -carotene etc. About 15 lines were found to be having 13 or more than 13 per cent of protein. A total of 6 lines were identified to be having more than 6% sugar on dry weight basis, whereas eleven lines *viz.* CUBA 378, CUBA 377, CUBA 380, DMSC 8, Dulce Amanillo (Su Su), HSSW(HS)C1f3(SH2SH2), NC 392, WSC 1 X MUA MADHU, DMRSC 1, SC Pool 1, and DDMSC-4-1 DR 10-2 were found to be promising with higher sugar content (more than 25%) in the milking stage (18-20 days after pollination). Similarly 61 lines were found to be having more than 70 per cent starch content. A total of 37 lines were identified having more than 5 per cent oil content. A lot many lines were evaluated for carotenoids and 25 lines were found to possess more than 25 $\mu\text{g/g}$ carotenoid content and only 3 lines were found to be having 4 or more than 4 $\mu\text{g/g}$ β -carotene content.

Area, Production, Productivity of maize from 2006-07 to 2008-09

State /UT	Season	Season Area (000 hectares)			Production (000 tonnes)			Productivity (Kg/Hectare)		
		2007-08	2008-9	2009-10*	2007-08	2008-9	2009-10*	2007-08	2008-9	2009-10*
Andhra Pradesh	Kharif	519.0	498.0	502.0	2141.0	1567.0	997.0	4125	3147	1986
	Rabi	267.0	354.0	281.0	1480.0	2585.0	1765.0	5543	7302	6281
	Total	786.0	852.0	783.0	3621.0	4152.0	2762.0	4607	4873	3527
Arunachal Pradesh	Kharif	38.8	36.4	37.5	51.9	49.7	51.1	1338	1365	1363
	Rabi	3.9	6.5		5.5	9.1		1410	1400	
	Total	42.7	42.9	37.5	57.4	58.8	51.1	1344	1371	1363
Assam		18.0	17.4	19.5	13.0	12.6	14.1	722	724	723
Bihar	Kharif	263.0	245.0	227.0	252.0	371.8	402.4	958	1518	1773
	Rabi	376.2	395.5	404.7	1203.0	1342.2	1076.3	3198	3394	2660
	Total	639.8	640.5	631.7	1455.0	1714.0	1478.7	2274	2676	2341
Chhatisgarh	Kharif	105.8	100.1	102.4	165.8	140.3	143.3	1567	1402	1399
Goa	Kharif	-	0.1	0.1	0.5	0.6	0.6		6000	6000
Gujrat	Kharif	424.0	419.0	411.0	583.0	603.0	396.0	1375	1439	964
	Rabi	-	80.0	86.0	-	136.0	137.0		1700	1593
	Total	424.0	499.0	497.0	583.0	739.0	533.0	1375	1481	1072
Haryana	Kharif	14.0	11.3	12.0	37.0	24.4	27.0	2643	2159	2250
Himachal Pradesh	Kharif	300.2	297.7	295.4	862.6	676.6	543.2	2873	2273	1839
J&K	Kharif	302.4	315.8	311.0	474.5	633.2	487.0	1569	2005	1566
Jharkhand	Kharif	227.7	198.9	148.4	341.5	267.7	163.2	1500	1346	1100
	Rabi	9.7	17.1	14.8	16.7	36.3	27.5	1722	2123	1858
	Total	237.4	216.0	163.2	358.2	304.0	190.7	1509	1407	1169
Karnataka	Kharif	1015.0	933.0	1108.0	2936.0	2632.0	2676.0	2893	2821	2415
	Rabi	98.0	136.0	132.0	318.0	397.0	337.0	3245	2919	2553
	Total	1113.0	1069.0	1240.0	3254.0	3029.0	3013.0	2924	2833	2430
Madhya Pradesh	Kharif	879.8	841.1	832.3	1133.1	1144.4	1045.2	1288	1361	1256
Maharashtra	Kharif	571.0	550.0	673.0	1545.0	1323.0	1531.0	2706	2405	2275
	Rabi	101.0	105.0	121.0	245.0	237.0	297.0	2426	2257	2455
	Total	672.0	655.0	794.0	1790.0	1560.0	1828.0	2664	2382	2302
Manipur	Kharif	3.0	4.3	4.8	8.4	11.5	11.7	2800	2674	2438
Meghalaya	Kharif	17.1	17.1	17.2	25.1	25.7	26.3	1468	1503	1529
Mizoram	Kharif	7.2	9.2	8.3	0.5	8.9	11.1	69	967	1337
	Rabi	0.2	0.4	0.2	0.2	0.4	0.4	1000	1000	2000
	Total	7.4	9.6	8.5	0.7	9.3	11.5	95	969	1353
Nagaland	Kharif	67.0	64.4	68.1	119.8	115.9	73.2	1788	1800	1075
Orissa	Kharif	71.2	64.8	78.9	140.7	128.7	170.0	1976	1986	2155
	Rabi	2.9	2.3	2.3	6.5	6.0	5.1	2241	2609	2217
	Total	74.1	67.1	81.2	147.2	134.7	175.1	1987	2007	2156
Punjab	Kharif	153.0	151.0	139.0	521.0	514.0	475.0	3405	3404	3417
Rajasthan	Kharif	1050.7	1052.2	1096.2	1954.4	1827.2	1144.7	1860	1737	1044
	Rabi	0.6	0.7	0.7	1.0	1.0	1.0	1667	1429	1429
	Total	1051.3	1052.9	1096.9	1955.4	1828.2	1145.7	1860	1736	1044
Sikkim	Kharif	39.1	37.7	39.5	62.6	58.2	66.0	1601	1544	1671
Tamilnadu	Kharif	153.0	188.0	161.2	451.7	689.6	693.4	2952	3668	4301
	Rabi	70.5	98.6	83.0	358.9	568.2	450.9	5091	5763	5433
	Total	223.5	286.6	244.2	810.6	1257.8	1144.3	3627	4389	4686
Tripura	Kharif	2.1	2.1	2.0	2.1	2.0	2.0	1000	952	1000
UP	Kharif	812.0	770.0	704.0	1167.0	1151.0	1025.0	1437	1495	1456
	Rabi	26.0	29.0	5.0	42.0	47.0	14.0	1615	1621	2800
	Total	838.0	799.0	709.0	1209.0	1198.0	1039.0	1443	1499	1465
Uttarakhand	Kharif	29.0	33.0	28.0	43.0	43.0	38.0	1483	1303	1357
WB	Kharif	34.6	36.8	36.3	72.5	97.8	79.3	2095	2658	2185
	Rabi	42.6	54.0	61.4	171.9	245.7	305.9	4035	4550	4982
	Total	77.2	90.8	97.7	244.4	343.5	385.2	3166	3783	3943
A&N Island	Kharif	0.2	0.2	0.2	0.9	0.6	0.4	4500	3000	2000
Delhi	Kharif	0.1	0.1		0.1	0.1		1000	1000	
Others		178.8	-		277.6	-	0.0	1553	-	
All India	Kharif	7118.7	6894.7	7063.4	15106.7	14120.5	12293.2	2122	2048	1740
	Rabi	998.6	1279.1	1198.2	3848.7	5610.9	4426.2	3854	4387	3694
	Total	8117.3	8173.8	8261.6	18955.4	19731.4	16719.5	2335	2414	2024

*Final estimate

**ALL INDIA AREA(million ha), PRODUCTION(million tonnes) AND YIELD(kg/ha) OF
MAIZE FROM 1950-51 TO 2009-10**

Year	Area	Production	Yield	Year	Area	Production	Yield
1950-51	3.16	1.73	547	1980-81	6.01	6.96	1159
1951-52	3.31	2.08	627	1981-82	5.94	6.90	1162
1952-53	3.61	2.87	796	1982-83	5.72	6.55	1145
1953-54	3.87	3.04	785	1983-84	5.86	7.92	1352
1954-55	3.75	2.98	794	1984-85	5.80	8.44	1456
1955-56	3.70	2.60	704	1985-86	5.80	6.64	1146
1956-57	3.76	3.08	819	1986-87	5.92	7.59	1282
1957-58	4.08	3.15	772	1987-88	5.56	5.72	1029
1958-59	4.27	3.46	812	1988-89	5.90	8.23	1395
1959-60	4.34	4.07	938	1989-90	5.92	9.65	1632
1960-61	4.41	4.08	926	1990-91	5.90	8.96	1518
1961-62	4.51	4.31	957	1991-92	5.86	8.06	1376
1962-63	4.64	4.61	992	1992-93	5.96	9.99	1676
1963-64	4.58	4.56	995	1993-94	6.00	9.60	1602
1964-65	4.62	4.66	1010	1994-95	6.14	8.88	1570
1965-66	4.80	4.82	1005	1995-96	5.98	9.53	1595
1966-67	5.07	4.89	964	1996-97	6.26	10.77	1720
1967-68	5.58	6.27	1123	1997-98	6.32	10.82	1711
1968-69	5.72	5.70	997	1998-99	6.20	11.15	1797
1969-70	5.86	5.67	968	19-2000	6.42	11.51	1792
1970-71	5.85	7.49	1279	2000-01	6.61	12.04	1822
1971-72	5.67	5.10	900	2001-02	6.58	13.16	2000
1972-73	5.84	6.39	1094	2002-03	6.64	11.15	1681
1973-74	6.02	5.80	965	2003-04	7.32	14.98	2039
1974-75	5.86	5.56	948	2004-05	7.43	14.14	1887
1975-76	6.03	7.26	1203	2005-06	7.59	14.17	1938
1976-77	6.00	6.36	1060	2006-07	7.89	15.09	1912
1977-78	5.68	5.97	1051	2007-08	8.12	18.96	2335
1978-79	5.76	6.20	1076	2008-09	8.17	19.73	2415
1979-80	5.72	5.60	979	2009-10*	8.26	16.72	2024

*Final estimate

Weather data

Mean maximum and minimum temperature during 2010 at various research centre of AICRP (Maize).

Name of the centre		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Almora	Max	20.7	20.9	27.6	32.1	32.0	32.0	28.2	28.1	26.9	28.0	24.5	20.4
	Min	-0.3	2.5	7.4	10.3	14.8	17.5	20.6	20.9	18.5	10.3	7.2	-0.3
Ambikapur	Max	23.3	27.6	35.0	39.8	39.5	37.7	31.0	30.7	30.4	30.2	28.1	23.6
	Min	05.0	10.5	16.1	21.5	24.2	24.6	22.0	21.6	20.3	16.7	13.5	07.2
Bajaura	Max	19.0	18.7	25.8	29.4	31.3	30.2	28.5	29.7	28.3	27.1	23.7	-
	Min	1.0	3.0	7.9	10.1	13.7	15.6	20.4	21.7	18.1	10.2	4.8	-
Barapani	Max	-	-	-	-	27.8	28.43	28.52	27.31	26.34	26.19	-	-
	Min	-	-	-	-	19.72	20.26	20.13	19.05	15.65	13.78	-	-
Coimbatore	Max	30.5	30.9	35.6	36.6	34.6	32.2	31.7	30.5	31.4	31.1	28.1	-
	Min	20.2	20.9	20.9	25.2	24.9	24.0	23.4	22.7	22.7	22.2	21.8	-
Godhra	Max	31.1	35.0	39.4	41.4	43.7	39.5	34.1	32.0	34.4	36.4	-	-
	Min	12.7	11	18.4	21.6	27	26.9	24	24.1	23.4	19.5	-	-
Jorhat	Max	23.5	26.5	27.0	27.0	29.3	31.0	32.1	32.6	31.8	-	-	-
	Min	9.8	10.3	16.6	20.2	22.8	25.5	25.8	25.4	25.0	-	-	-
Karnal	Max	-	22.9	30.8	39.5	39.4	38.2	33.1	32	-	-	-	-
	Min	-	8.8	14.6	20.2	24.3	25.3	26.2	25.9	-	-	-	-
Kangra	Max	19.7	20.9	29.1	35	34.7	35.4	30.5	29.5	29.7	29.1	25.1	18.3
	Min	5.2	7.5	13.3	15.4	20	20.4	23.2	20.8	19.3	15.2	12.9	6.2
Srinagar	Max	16	17	26	27	29.5	32.5	35	33	32.5	28.5	21.5	14.5
	Min	-5.2	-2.5	1.2	3	7.5	7.5	11.8	13	6.5	1.1	-2.2	-7
Udaipur	Max	-	-	-	-	-	-	33.3	30.8	32.8	34.5	-	-
	Min	-	-	-	-	-	-	23.5	23.4	18.4	14.8	-	-

Total Rainfall (mm)

Name of the centre	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Almora	16.5	67.0	0.0	13.0	68.5	85.0	368.0	240.0	463.5	5.5	50.3	37.5
Ambikapur	0.0	11.2	0.0	0.0	11.6	107.3	249.4	176.4	178.1	11.5	2.2	56.9
Bajaura	15.0	126.0	45.0	55.0	83.8	170.9	265.4	186	123.8	44.6	11.6	NA
Barapani	-	-	-	-	586.6	419.7	389.1	344.3	408.3	22.3	-	-
Coimbatore	0.2	-	-	15.0	99.9	40.8	8.3	69.9	25.6	156.4	311.1	-
Jorhat	2.8	16.7	90.1	283.1	305.3	430	403.6	367	227.5	-	-	-
Karnal	-	18	-	-	-	53	275	216	-	-	-	-

LOCATIONS AND SOIL CHARACTERISTICS OF RESEARCH CENTERS

S. No.	CENTRE	LATITUDE	LONGITUDE	ALTITUDE (M)	SOIL TYPE	PH
1	Srinagar	34.06 N	74.51'E	1652	Silty clay loam	-
2	Almora	29.36 N	79.40'E	1250	Clay loam	5.8
3	Auli	30.31 N	79.34' - 10 E	2680	Sandy loam	6.7-7.1
4	Bajaura	32.2 N	77.0'E	1090	Sandy loam	6.5
5	Salooni	-	-	1768	Silty loam	6.5
6	Dhaura Kuan	30.5 N	77.5'E	456	Sandy loam	6.7
7	Jorhat	26.46 N	94.16'E	91	Sandy loam	5.7
8	Kalimpong	27 N	88'E	1070	Sandy loam	-
9	Kalyani	23.5 N	89'E	9.75	Sandy loam	-
10	Delhi	28.38 N	77.12'E	228.1	Loam to sandy loam	7.5-8.5
11	Ludhiana	30.45 N	75.40'E	247	Sandy loam	7.8
12	Udaipur	24.55 N	73.41'E	572	Loam to sandy loam	8.2-8.4
13	Banswara	23.5 N	73.58'E	218	Pleustertt	-
14	Kanpur	26.28 N	80.40'E	125.9	Sandy loam	-
15	Karnal	29.43 N	76.58'E	245	Clay loam	-
16	Jaipur	26.51N	75.47'E	122	Clay loam	-
17	Pantnagar	29.0 N	79.3'E	243.8	Clay loam	7.4
18	Dholi	25.59 N	85.75'E	51.8	Sandy loam	
19	Hyderabad	17.2N	78.3'E	530	Black clay loam	8.3
			78.10'-79-			
20	Chhindwara	21.28'N	24'E	682	Medium clay	-
21	Arbhavi	16.12 N	74.54'E	640	Medium black	-
22	Godhra	22.45 N	77.40'E	119.4	Sandy loam	6.8-7.2
23	Kolhapur	16.43 N	74.14'E	574	Light to medium black	7.5-8.0 GTC
						5.5-6.5 Shenda Park
24	Coimbatore	11.0 N	77.0'E	411.5	Black	8.5
25	Nagenahalli	12.22 N	76.42'E	762	Sandy loam to gravel	5.4
26	Mandya	12 N	76'E	695	Light red sandy loam	-
27	Varanasi	25.20 N	83.0 E	128.93	Sandy loam -loam	6
28	Bahraich	27.34 N	81.36 E	130	Sandy loam	8.4
29	Sabour	25.15 N	87.02'E	37.04	Sandy loam	-
30	Jalna	19.51N	75.53'E	550	Medium black	7.5-8.0
31	Dharwad				Medium black Red laterite -Sandy loam	7.5 Acidic
32	Jashipur	21.57N	86.00 E	400	loam	Acidic
33	Ambikapur	23.18N	83.15 E	592.62	Sandy loam	5.7
34	Barapani	25.4N	91.63 E	1010	Sandy loam	4.5-5
35	Kangra	32.5N	76.18E	700	Clay loam	6.4
36	Karimnagar	18.28N	79.06E	264	Red sandy	6.8
37	Ranchi	23.23N	85.23E	625	Red acidic	5-6

Breeder Seed Production (BSP-IV) report for the year 2010-2011

Sr. No.	Variety Name	Name of Producing Centre/State	Actual allocation as per BSP-I target	Actual Production (BSP IV)	Production Suplus(+)/ Deficit(-)
1	Vivek MH 33 [F-3352] (A-Line) (V372)	Almora	0.80	0.80	
2	Vivek MH 33 [F-3352] (B-Line) (CM212)	Almora	0.40	0.40	
3	Vivek QPM 9 (FQH4567)	Almora	2.00	2.00	
4	Vivek Sankul Makka-31(VL-103)	Almora	0.50	5.00	4.50
5	Vivek MH-17 (FH-3186)-CM153	Almora	0.10	0.10	
6	Parvati (Compostie)	Bajaura	0.05	-	#
7	Early Composite 5	Bajaura	0.05	1.55	1.50
8	Pratap Kanchan-2 WC-236 (Y)	Banswara	8.00		*
9	Mahi Dahiwal	Banswara	0.07	0.12	0.05
10	Jawahar Makka-216	Chhindwara	38.05	22.00	-16.05*
11	Chandan Makka-3	Chhindwara	1.00		#
12	Jawahar composite Makka-12 (JM-12)	Chhindwara	1.00	1.20	0.20
13	PC-3 (Composite-85134)	Delhi	1.84	2.00	0.16
14	PC-4 (Composite-85151)	Delhi	0.20	3.00	2.80
15	Shakti -1	Delhi	0.07	-	#
16	Ganga Safed -2 CM-400x CM-300A	Delhi	0.08	-	#
17	Ganga Safed -2 CM-400x CM-300B	Delhi	0.04	-	#
18	Ganga Safed -2 CM -600R	Delhi	0.04	-	#
19	PEHM-2 (EH -203492)F	Delhi	26.00	27.00	1.00
20	PEHM-2 (EH -203492)M	Delhi	14.00	28.00	14.00
21	Dewaki Composite Makka	Dholi	2.07	6.00	3.93
22	Composite Suwan	Dholi	0.15	0.68	0.53
23	NLD White	DMR	5.20	-	#
24	Narmada Moti (IC-9001)	Godhra	0.40	11.00	10.60
25	Gujarat Makai-6	Godhra	0.50	16.30	15.80
26	Moti Composite Makka	Gujrat	5.00	11.00	6.00
27	Priya Sweet corn	Hyderabad	0.14	0.14	
28	Deccan -103 CM-119xCM208A	Hyderabad	0.10	0.00	**
29	Deccan -103 CM-120xCM118A	Hyderabad	0.05	0.00	**
30	Azad kamal (R-9803)	Kanpur	0.20	2.90	2.70
31	Azad Uttam (Composite R-2)	Kanpur	5.00	6.35	1.35
32	HM-10 (HKH-1200) [HK-1 1128 (M)]	Karnal	0.50	0.20	-0.30*
33	HM-10 (HKH-1200) [HK-1 193-2 (F)]	Karnal	1.00	0.40	-0.60*
34	HQPM-7 [HK-1 161 (M)]	Karnal	0.50	0.20	-0.30*

Continued...

Sr. No.	Variety Name	Name of Producing Centre/State	Actual allocation as per BSP-1 target	Actual Production (BSP IV)	Production Suplus(+)/ Deficit(-)
35	HQPM-7 [HK-1 193-1 (M)]	Karnal	1.00	16.12	15.12
36	HQPM-1	Karnal	1.50	3.50	2.00
37	HQPM -5	Karnal	0.25	0.10	-0.15
38	African Tall Composite	Kohlapur	44.80	14.00	-30.80
39	J-1006 (Fodder)	Ludhiana	15.10	15.10	
40	Navjot	Ludhiana	0.50	1.50	1.00
41	Ageti	Ludhiana	0.07	0.10	0.03
42	Vijay Composite Makka	Ludhiana	0.32	4.00	3.68
43	NAC-6002	Mandya	0.14	0.50	0.36
44	NAC-6004	Mandya	2.64	1.00	-1.64
45	Amar (D-941)	Pantnagar	4.20	-	*
46	Gaurav (D-931)	Pantnagar	8.07	7.50	-0.57
47	Navin (D-741)	Pantnagar	0.05	-	*
48	JKMH-175	Pvt.	0.10	-	
49	Kohinoor	Pvt.	3.00	-	
50	Birsa Makkai-1	Ranchi	1.00		
51	Birsa vikas Makka 2	Ranchi	1.50	0.52	-0.98
52	C-8	Srinagar	0.90	1.60	0.70
53	C-6	Srinagar	1.50	1.90	0.40
54	Mansar	Srinagar	0.35	-	*
55	Pratap Makka-3 (EC-3108)	Udaipur	6.00	8.00	2.00
56	Pratap Makka Chari-6	Udaipur	3.00	10.00	7.00
57	Pratap Makka 5	Udaipur	4.00	4.00	0.00
58	Aravali Makka 1	Udaipur	5.00	5.00	0.00
59	Total		220.09	234.48	41.52

Note:

* Indicates the breeder seed will be produced during rabi or spring 2011

** Production of hybrid seed is not the mandate

Denotified / Obsolete

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YEAR

FULL SEASON MATURITY(IET)
2010 KHARIF

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	Ajeet 301	All	DMR-1233	Ajeet Seeds Ltd.	5621	5694	5716
2	MM1107	All	DMR-1234	Metahelix Life Science Pvt. Ltd.	5602	5659	5747
3	M9977	All	DMR-1235	Metahelix Life Science Pvt. Ltd.	5589	5679	5749
4	PFMH- 97 I 02	All	DMR-1236	ProFarm Seed India Pvt. Ltd.	5636	5662	5755
5	PFMH- 97 I 09	All	DMR-1237	ProFarm Seed India Pvt. Ltd.	5623	5673	5741
6	PFMH- 97 I 40	All	DMR-1238	ProFarm Seed India Pvt. Ltd.	5609	5644	5720
7	Bisco -New 704	All	DMR-1239	Bisco Bio Science Pvt. Ltd.	5619	5689	5717
8	Bisco -X9	All	DMR-1240	Bisco Bio Science Pvt. Ltd.	5635	5671	5740
9	Bisco -X 6525	All	DMR-1241	Bisco Bio Science Pvt. Ltd.	5592	5685	5728
10	Bisco -X-11	All	DMR-1242	Bisco Bio Science Pvt. Ltd.	5633	5655	5708
11	HTMH 5101 Sona	All	DMR-1243	Hytech Seed India Private Limited	5620	5670	5736
12	X8B674	All	DMR-1244	Pioneer Overseas Corporation	5593	5649	5718
13	X8B677	All	DMR-1245	Pioneer Overseas Corporation	5626	5643	5713
14	C6485	All	DMR-1246	Zuari Seeds Limited	5598	5669	5759
15	C1946	All	DMR-1247	Zuari Seeds Limited	5608	5656	5758
16	KMH-2700	All	DMR-1248	Kaveri seed company limited	5584	5675	5710
17	KMH-509	All	DMR-1249	Kaveri seed company limited	5613	5666	5733
18	KMH-2559	All	DMR-1250	Kaveri seed company limited	5588	5690	5703
19	X35A 175	All	DMR-1251	XyLem Seeds Private Limited	5594	5699	5750
20	X35A 176	All	DMR-1252	XyLem Seeds Private Limited	5599	5695	5742
21	JKMH 102	All	DMR-1253	JK Agrigenetics Ltd.	5596	5682	5721
22	JKMH 101	All	DMR-1254	JK Agrigenetics Ltd.	5611	5691	5705
23	PRO 379	All	DMR-1255	Bayer Bioscience Pvt. Ltd.	5585	5648	5753
24	PRO 380	All	DMR-1256	Bayer Bioscience Pvt. Ltd.	5624	5698	5746
25	S 6668/NH 6668	All	DMR-1257	Syngenta	5640	5700	5751
26	S 6718/NH 6718	All	DMR-1258	Syngenta	5614	5676	5757
27	JH 31291	All	DMR-1259	PAU Ludhiana	5622	5665	5726
28	JH 31294	All	DMR-1260	PAU Ludhiana	5625	5653	5712
29	JH 12157	All	DMR-1261	PAU Ludhiana	5612	5696	5723
30	GH- 1004	All	DMR-1262	AICMIP UAS Dharawad	5630	5681	5744
31	GH- 1009	All	DMR-1263	AICMIP UAS Dharawad	5617	5663	5709
32	GH- 1005	All	DMR-1264	AICMIP UAS Dharawad	5607	5697	5722
33	GH- 1008	All	DMR-1265	AICMIP UAS Dharawad	5582	5668	5739
34	A 7501	All	DMR-1266	Advanta India Limited	5583	5692	5706
35	NMH-777	All	DMR-1267	Nuziveedu Seeds Pvt Ltd	5629	5642	5714
36	NMH-713	All	DMR-1268	Nuziveedu Seeds Pvt Ltd	5587	5686	5743
37	NMH-4040 (White)	All	DMR-1269	Nuziveedu Seeds Pvt Ltd	5638	5661	5729
38	GK 3090	All	DMR-1270	Ganga Kaveri Seeds Pvt. Ltd.	5600	5678	5756
39	GK 3094	All	DMR-1271	Ganga Kaveri Seeds Pvt. Ltd.	5603	5683	5715

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S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
40	Sun - Kranthi	All	DMR-1272	Suncrop Science Pvt. Ltd.	5634	5693	5738
41	CMH08-239	All	DMR-1273	TNAU, Coimbatore	5615	5688	5760
42	CMH08-259	All	DMR-1274	TNAU, Coimbatore	5590	5667	5761
43	CMH08-287	All	DMR-1275	TNAU, Coimbatore	5606	5680	5724
44	CMH08-337	All	DMR-1276	TNAU, Coimbatore	5591	5645	5704
45	KNMH-401091	All	DMR-1277	ANGRAU, RRS, Karimnagar	5604	5657	5732
46	KNMH-4010131	All	DMR-1278	ANGRAU, RRS, Karimnagar	5639	5646	5702
47	CP 111	All	DMR-1279	Charon Pokphand Seeds (India) Pvt. Ltd	5616	5674	5752
48	CP 333	All	DMR-1280	Charon Pokphand Seeds (India) Pvt. Ltd	5627	5687	5734
49	HP-222	All	DMR-1281	Proline Seeds Company (India) Pvt. Ltd.	5605	5652	5711
50	DMR NSCH 6	All	DMR-1282	MWNC Hyd.	5628	5651	5748
51	DMR NSCH 7	All	DMR-1283	MWNC Hyd.	5632	5701	5719
52	BIO-562	All	DMR-1284	BIOSEED RESEARCH INDIA PVT. LTD.	5641	5658	5727
53	HKH - 413	All	DMR-1285	HAU, Uchani, Karnal	5618	5647	5737
54	MCH 44	All	DMR-1286	Monsanto	5595	5650	5754
55	Nidhi Pearl	All	DMR-1287	Siddivinayak Agro Tech	5637	5664	5731
56	PMH 1	All	DMR-1288	PAU Ludhiana	5601	5672	5735
57	PMH 3	All	DMR-1289	PAU Ludhiana	5631	5684	5725
58	Seedtec 2324	All	DMR-1290	Bisco Bio Science Pvt. Ltd.	5610	5660	5730
59	BIO 9681	All	DMR-1291	BIOSEED RESEARCH INDIA PVT. LTD.	5597	5677	5745
60	NA	All	DMR-1292		5586	5654	5707

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YEAR**

**MEDIUM MATURITY(IET)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	NMH-3095	All	DMR-1293	Nirmal seeds Pvt. Ltd.	5767	5876	5903
2	PFMH- 96 I 41	All	DMR-1294	ProFarm Seed India Pvt. Ltd.	5803	5852	5936
3	PFMH- 96 I 26	All	DMR-1295	ProFarm Seed India Pvt. Ltd.	5806	5871	5920
4	PFMH- 96 N 46 (W)	All	DMR-1296	ProFarm Seed India Pvt. Ltd.	5792	5867	5898
5	Bisco -2668	All	DMR-1297	Bisco Bio Science Pvt. Ltd.	5762	5837	5932
6	KDMH 176	All	DMR-1298	Krishidhan Seeds Limited	5764	5872	5912
7	Safal X-2	All	DMR-1299	Safal Seeds & Biotech Ltd.	5799	5864	5894
8	X8B684	All	DMR-1300	Pioneer Overseas Corporation	5775	5827	5897
9	X8B685	All	DMR-1301	Pioneer Overseas Corporation	5807	5881	5917
10	KMH-48	All	DMR-1302	Kaveri seed company limited	5783	5847	5888
11	P3540	All	DMR-1303	PHI Seeds Private Ltd.	5784	5862	5950
12	Hy. P3293	All	DMR-1304	PHI Seeds Private Ltd.	5819	5878	5941
13	Hy. P3396	All	DMR-1305	PHI Seeds Private Ltd.	5800	5882	5933
14	X35A173	All	DMR-1306	XyLem Seeds Private Limited	5796	5831	5945
15	X35A174	All	DMR-1307	XyLem Seeds Private Limited	5815	5838	5922
16	JKMH-7014	All	DMR-1308	JK Agrigenetics Ltd.	5797	5886	5939
17	JKMH-7004	All	DMR-1309	JK Agrigenetics Ltd.	5811	5833	5913
18	S 6217	All	DMR-1310	Syngenta	5763	5834	5905
19	S 6304	All	DMR-1311	Syngenta	5823	5854	5889
20	JH 31404	All	DMR-1312	PAU Ludhiana	5824	5843	5935

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S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
21	NMH-1242	All	DMR-1313	Nuziveedu Seeds Pvt Ltd	5809	5877	5910
22	NMH-589 (Suvarna)	All	DMR-1314	Nuziveedu Seeds Pvt Ltd	5801	5832	5928
23	VMH-4106	All	DMR-1315	Vibha Seeds/Vibha Agrotech Ltd.	5769	5880	5948
24	KH-B63	All	DMR-1316	Kanchan Ganga Seed Co.	5773	5875	5891
25	KH-B52	All	DMR-1317	Kanchan Ganga Seed Co.	5789	5848	5906
26	KH-B55	All	DMR-1318	Kanchan Ganga Seed Co.	5793	5869	5924
27	KNMH-401061	All	DMR-1319	ANGRAU, RRS, Karimnagar	5814	5850	5919
28	CMH08-284	All	DMR-1320	TNAU, Coimbatore	5818	5830	5901
29	CMH08-292	All	DMR-1321	TNAU, Coimbatore	5802	5883	5915
30	CMH08-350	All	DMR-1322	TNAU, Coimbatore	5808	5860	5914
31	CMH08-433	All	DMR-1323	TNAU, Coimbatore	5790	5826	5926
32	Yuvraj Gold	All	DMR-1324	Atash Seeds Private Limited	5812	5856	5893
33	Titan	All	DMR-1325	Atash Seeds Private Limited	5770	5849	5909
34	IMH-111	All	DMR-1326	Atash Seeds Private Limited	5805	5845	5899
35	IMH-666	All	DMR-1327	Atash Seeds Private Limited	5813	5874	5927
36	SMH-9	All	DMR-1328	Atash Seeds Private Limited	5778	5836	5911
37	AMH-2002	All	DMR-1329	Atash Seeds Private Limited	5788	5887	5938
38	EHL 161708	All	DMR-1330	CSK HPKV HAREC, Bajaura Kullu	5820	5844	5904
39	EHL 163909	All	DMR-1331	CSK HPKV HAREC, Bajaura Kullu	5766	5863	5890
40	EHL 164810	All	DMR-1332	CSK HPKV HAREC, Bajaura Kullu	5804	5868	5916
41	EHL 164910	All	DMR-1333	CSK HPKV HAREC, Bajaura Kullu	5791	5840	5902
42	L230	All	DMR-1334	CSK HPKV HAREC, Bajaura Kullu	5794	5829	5930
43	EH-2074	All	DMR-1335	AICRP, RCA, MPUAT, Udaipur	5782	5842	5892
44	EC-3161	All	DMR-1336	AICRP, RCA, MPUAT, Udaipur	5798	5839	5940
45	BH41001	All	DMR-1337	ANGRAU, MRC, ARI, Hyderabad	5774	5865	5946
46	BH41009	All	DMR-1338	ANGRAU, MRC, ARI, Hyderabad	5765	5855	5918
47	BIO-688	All	DMR-1339	BIOSEED RESEARCH INDIA PVT. LTD.	5795	5861	5929
48	BIO-151	All	DMR-1340	BIOSEED RESEARCH INDIA PVT. LTD.	5817	5846	5907
49	HKH - 411	All	DMR-1341	HAU, Uchani, Karnal	5777	5866	5934
50	HKH - 412	All	DMR-1342	HAU, Uchani, Karnal	5772	5853	5895
51	HKH - 414	All	DMR-1343	HAU, Uchani, Karnal	5822	5859	5908
52	HKH - 316	All	DMR-1344	HAU, Uchani, Karnal	5810	5825	5942
53	REH 2009-15	All	DMR-1345	Kanpur	5786	5858	5900
54	REH 2009-18	All	DMR-1346	Kanpur	5816	5870	5923
55	REH 2009-20	All	DMR-1347	Kanpur	5768	5885	5949
56	MMH-09-1	All	DMR-1348	AICMIP, TCA, Dholi	5776	5851	5947
57	MMH-09-2	All	DMR-1349	AICMIP, TCA, Dholi	5779	5835	5931
58	MMH-09-3	All	DMR-1350	AICMIP, TCA, Dholi	5787	5841	5921
59	MMH-09-4	All	DMR-1351	AICMIP, TCA, Dholi	5785	5873	5925
60	Navjot	All	DMR-1352	PAU Ludhiana	5780	5884	5944
61	BIO 9637	All	DMR-1353	BIOSEED RESEARCH INDIA PVT. LTD.	5771	5879	5937
62	HM 8	All	DMR-1354	HAU, Uchani, Karnal	5781	5857	5896
63	HM 9	All	DMR-1355	HAU, Uchani, Karnal	5821	5828	5943

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YEAR**

**EARLY MATURITY(IET)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KDMH 755	All	DMR-1173	Krishidhan Seeds Limited	5429	5448	5460
2	X7D610	All	DMR-1174	Pioneer Overseas Corporation	5424	5435	5471
3	X8F984	All	DMR-1175	Pioneer Overseas Corporation	5420	5450	5465
4	FH 3513	All	DMR-1176	VPKAS Almora	5432	5452	5462
5	KMH-128	All	DMR-1177	Kaveri seed company limited	5423	5454	5476
6	JKMH-7037	All	DMR-1178	JK Agrigenetics Ltd.	5417	5451	5463
7	Hy. P 1635	All	DMR-1179	XyLem Seeds Private Limited	5416	5440	5457
8	X8B561	All	DMR-1180	XyLem Seeds Private Limited	5419	5443	5477
9	Hy. 31Y45	All	DMR-1181	PHI Seeds Private Ltd.	5427	5453	5456
10	JH 31204	All	DMR-1182	PAU Ludhiana	5430	5437	5469
11	JH 31403	All	DMR-1183	PAU Ludhiana	5415	5445	5467
12	KH-101-Gold	All	DMR-1184	Kanchan Ganga Seed Co.	5428	5439	5459
13	Sun - Vaaman	All	DMR-1185	Suncrop Science Pvt. Ltd.	5414	5455	5468
14	Sun - 306	All	DMR-1186	Suncrop Science Pvt. Ltd.	5431	5438	5466
15	KNMH-4010141	All	DMR-1187	ANGRAU, RRS, Karimnagar	5425	5434	5473
16	L210	All	DMR-1188	CSK HPKV HAREC, Bajaura Kullu	5433	5449	5461
17	EH-2094	All	DMR-1189	AICRP, RCA, MPUAT, Udaipur	5413	5441	5464
18	VEH-10-1	All	DMR-1190	BHU, GPB, IAS, Varanasi	5418	5436	5475
19	WH-2051	All	DMR-1191	ARS, MPUA&T,Banswara	5422	5446	5458
20	WH-2058	All	DMR-1192	ARS, MPUA&T,Banswara	5421	5444	5470
21	JH-3459	All	DMR-1193	PAU Ludhiana	5426	5442	5474
22	Prakash	All	DMR-1194	PAU Ludhiana	5412	5447	5472
23	REH 2009-11	All	DMR-1195	Kanpur	5478	5481	5483
24	REH 2009-12	All	DMR-1196	Kanpur	5479	5480	5482
25	HKH - 317	All	DMR-1227	HAU, Uchani, Karnal	5564	5567	5569
26	HKH - 318	All	DMR-1228	HAU, Uchani, Karnal	5565	5566	5568

**TRIAL NO. 64
YEAR**

**EXTRA EARLY MATURITY(IET)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	FH 3510	All	DMR-1126	VPKAS Almora	5277	5283	5300
2	FH 3520	All	DMR-1127	VPKAS Almora	5274	5294	5305
3	FH 3521	All	DMR-1128	VPKAS Almora	5275	5287	5301
4	FH 3525	All	DMR-1129	VPKAS Almora	5273	5285	5302
5	33H25	All	DMR-1130	PHI Seeds Private Ltd.	5278	5292	5303
6	Hy. P 1453	All	DMR-1131	PHI Seeds Private Ltd.	5281	5289	5299
7	KH-9888	All	DMR-1132	Kanchan Ganga Seed Co.	5282	5291	5297
8	DH-192	All	DMR-1133	GBPU A&T, Pantnagar	5279	5290	5304
9	DH-193	All	DMR-1134	GBPU A&T, Pantnagar	5280	5286	5296
10	DH-194	All	DMR-1135	GBPU A&T, Pantnagar	5272	5284	5306
11	Vivek QPM 9	All	DMR-1136	VPKAS Almora	5276	5288	5298
12	Vivek Hybrid 9	All	DMR-1137	VPKAS Almora	5271	5293	5295
13	HM-7	All	DMR-1225	HAU, Uchani, Karnal	5558	5559	5560

**TRIAL NO. 65
YEAR**

**FULL SEASON MATURITY(AET-1)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	DMRNSCH2	All	DMR-1138	MWNC Hyd.	5336	5355	5408
2	Bisco -74	All	DMR-1139	Bisco Bio Science Pvt. Ltd.	5326	5343	5398
3	X8B562	All	DMR-1140	Pioneer Overseas Corporation	5319	5374	5402
4	KMH-3670	All	DMR-1141	Kaveri seed company limited	5340	5364	5392
5	KMH-548	All	DMR-1142	Kaveri seed company limited	5314	5367	5399
6	JKMH 7005	All	DMR-1143	JK Agrigenetics Ltd.	5317	5371	5384
7	JKMH 8033	All	DMR-1144	2010K	5313	5347	5377
8	PRO 378	All	DMR-1145	Bayer Bioscience Pvt. Ltd.	5316	5375	5389
9	NK 6246	All	DMR-1146	Syngenta	5308	5376	5394
10	NK 6267/NH 6267	All	DMR-1147	Syngenta	5329	5362	5409
11	NMH-731	All	DMR-1148	Nuziveedu Seeds Pvt Ltd	5310	5356	5405
12	NMH-958	All	DMR-1149	Nuziveedu Seeds Pvt Ltd	5323	5359	5378
13	NMH-920	All	DMR-1150	Nuziveedu Seeds Pvt Ltd	5307	5369	5387
14	IDX 2901	All	DMR-1151	Charon Pokphand Seeds (India) Pvt. Ltd	5328	5352	5401
15	C1945	All	DMR-1152	Zuari Seeds Limited	5321	5368	5407
16	KH-404	All	DMR-1153	Kanchan Ganga Seed Co.	5327	5353	5386
17	MAIZE POLO	All	DMR-1154	Kanchan Ganga Seed Co.	5334	5373	5396
18	BMH-107	All	DMR-1155	Biostadt MHseeds Limited	5324	5370	5404
19	BMH-109	All	DMR-1156	Biostadt MHseeds Limited	5335	5344	5381
20	CMH 08-156	All	DMR-1157	TNAU, Coimbatore	5312	5349	5395
21	CMH 08-154	All	DMR-1158	TNAU, Coimbatore	5337	5358	5411
22	CMH 08-282	All	DMR-1159	TNAU, Coimbatore	5332	5345	5400
23	Laxmi Gold	All	DMR-1160	Yaaganti Seeds Private Limited	5320	5346	5406
24	JH-11662(1R) 2009	All	DMR-1161	PAU, Ludhiana	5339	5348	5388
25	JH-12114 (2R)	All	DMR-1162	PAU, Ludhiana	5322	5360	5383
26	JH-11858 (2R) 2009	All	DMR-1163	PAU, Ludhiana	5333	5354	5393
27	BIO-265	All	DMR-1164	BIOSEED RESEARCH INDIA PVT. LTD.	5311	5350	5379
28	OM 7878	All	DMR-1165	AMAR BIO-TECH LIMITED	5309	5351	5397
29	Amar 6669	All	DMR-1166	AMAR AGRI-TECH LIMITED	5318	5357	5410
30	KF-105	All	DMR-1167	Bharatiya Beej Nigam Limited	5331	5366	5390
31	MCH 40	All	DMR-1168	Monsanto	5325	5361	5391
32	PMH 1	All	DMR-1169	PAU Ludhiana	5315	5342	5385
33	PMH 3	All	DMR-1170	PAU Ludhiana	5338	5372	5380
34	Seedtec 2324	All	DMR-1171	Bisco Bio Science Pvt. Ltd.	5341	5365	5403
35	BIO 9681	All	DMR-1172	BIOSEED RESEARCH INDIA PVT. LTD.	5330	5363	5382

**TRIAL NO. 66
YEAR**

**MEDIUM MATURITY(AET-1)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KDMH 017	All	DMR-1056	Krishidhan Seeds Limited	5182	5192	5210
2	X8B557	All	DMR-1057	Pioneer Overseas Corporation	5180	5202	5223
3	X8B691	All	DMR-1058	Pioneer Overseas Corporation	5183	5201	5215
4	KMH-218 Plus	All	DMR-1059	Kaveri seed company limited	5189	5196	5209
5	KMH-3426	All	DMR-1060	Kaveri seed company limited	5178	5205	5218
6	JH 31292	All	DMR-1061	PAU Ludhiana	5191	5206	5212
7	JH 31285 (1R)	All	DMR-1062	PAU Ludhiana	5186	5203	5216
8	NMH-803	All	DMR-1063	Nuziveedu Seeds Pvt Ltd	5179	5199	5220
9	Mukhya-108	All	DMR-1064	Srichakra Agrotech Pvt Ltd	5181	5208	5225
10	Sarpunch-171	All	DMR-1065	Srichakra Agrotech Pvt Ltd	5176	5198	5222
11	HKH-313	All	DMR-1066	HAU, Uchani, Karnal	5190	5204	5214
12	VEH-09-2	All	DMR-1067	BHU, GPB, IAS, Varanasi	5177	5197	5217
13	MCH 42	All	DMR-1068	Monsanto	5187	5207	5213
14	Navjot	All	DMR-1069	PAU Ludhiana	5184	5194	5219
15	BIO 9637	All	DMR-1070	BIOSEED RESEARCH INDIA PVT. LTD.	5185	5193	5221
16	HM 8	All	DMR-1071	HAU, Uchani, Karnal	5175	5195	5224
17	HM 9	All	DMR-1072	HAU, Uchani, Karnal	5188	5200	5211

**TRIAL NO. 67
YEAR**

**EARLY MATURITY(AET-1)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	FH 3506	All	DMR-1111	VPKAS Almora	5226	5239	5241
2	JH 31236 (2R)	All	DMR-1112	PAU Ludhiana	5230	5235	5240
3	85-08-11 (2009)	All	DMR-1113	Kanchan Ganga Seed Co.	5229	5236	5243
4	KH-9560	All	DMR-1114	Kanchan Ganga Seed Co.	5228	5238	5242
5	BIO-605	All	DMR-1115	BIOSEED RESEARCH INDIA PVT. LTD.	5227	5234	5245
6	JH-3459	All	DMR-1116	PAU Ludhiana	5231	5237	5246
7	Prakash	All	DMR-1117	PAU Ludhiana	5232	5233	5244
10	REH 2001	All	DMR-1207	Kanpur	5506	5509	5511
11	REH 2002	All	DMR-1208	Kanpur	5504	5508	5510
12	REH 2003	All	DMR-1209	Kanpur	5505	5507	5512

**TRIAL NO. 68
YEAR**

**EXTRA EARLY MATURITY(AET-1)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	FH 3478	All	DMR-1118	VPKAS Almora	5253	5255	5263
2	FH 3483	All	DMR-1119	VPKAS Almora	5248	5262	5267
3	FH 3487	All	DMR-1120	VPKAS Almora	5247	5259	5265
4	FH 3488	All	DMR-1121	VPKAS Almora	5251	5258	5268
5	DH-179	All	DMR-1122	GBPU A&T, Pantnagar	5254	5261	5270
6	DH-177	All	DMR-1123	GBPU A&T, Pantnagar	5252	5256	5266
7	Vivek QPM 9	All	DMR-1124	VPKAS Almora	5249	5260	5269
8	Vivek Hybrid 9	All	DMR-1125	VPKAS Almora	5250	5257	5264

**TRIAL NO. 69 Z-2
YEAR**

**FULL SEASON MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3	R4
1	PAC745		2 DMR-1001	Advanta India Limited	5003	5005	5012	5013
2	PMH 1		2 DMR-1002	PAU Ludhiana	5004	5007	5010	5015
3	Seedtec 2324		2 DMR-1003	Bisco Bio Science Pvt. Ltd.	5002	5008	5011	5014
4	BIO 9681		2 DMR-1004	BIOSEED RESEARCH INDIA PVT. LTD.	5001	5006	5009	5016

**TRIAL NO. 69 Z-3
YEAR**

**FULL SEASON MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3	R4
1	X7B401		3 DMR-1005	Pioneer Overseas Corporation	5017	5026	5027	5036
2	MCH 38		3 DMR-1006	Monsanto	5018	5022	5029	5034
3	PMH 1		3 DMR-1007	PAU Ludhiana	5020	5025	5031	5033
4	Seedtec 2324		3 DMR-1008	Bisco Bio Science Pvt. Ltd.	5021	5024	5028	5035
5	BIO 9681		3 DMR-1009	BIOSEED RESEARCH INDIA PVT. LTD.	5019	5023	5030	5032

**TRIAL NO. 69 Z-4
YEAR**

**FULL SEASON MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	PFMH- 9737		4 DMR-1010	ProFarm Seed India Pvt. Ltd.	5037	5046	5049
2	PAC745		4 DMR-1011	Advanta India Limited	5041	5048	5050
3	MCH 38		4 DMR-1012	Monsanto	5039	5047	5052
4	PMH 1		4 DMR-1013	PAU Ludhiana	5040	5045	5051
5	Seedtec 2324		4 DMR-1014	Bisco Bio Science Pvt. Ltd.	5042	5044	5054
6	BIO 9681		4 DMR-1015	BIOSEED RESEARCH INDIA PVT. LTD.	5038	5043	5053

**TRIAL NO. 69 Z-5
YEAR**

**FULL SEASON MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	X7B401		5 DMR-1016	Pioneer Overseas Corporation	5056	5066	5070
2	PAC745		5 DMR-1017	Advanta India Limited	5059	5063	5069
3	PHS-520247		5 DMR-1018	PHS Agritech Private Limited	5055	5062	5071
4	PMH 1		5 DMR-1019	PAU Ludhiana	5057	5061	5072
5	Seedtec 2324		5 DMR-1020	Bisco Bio Science Pvt. Ltd.	5060	5064	5067
6	BIO 9681		5 DMR-1021	BIOSEED RESEARCH INDIA PVT. LTD.	5058	5065	5068

**TRIAL NO. 70 Z-2
YEAR**

**MEDIUM MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KMH-3712		2 DMR-1022	Kaveri seed company limited	5077	5085	5089
2	JH 31242		2 DMR-1023	PAU Ludhiana	5079	5084	5091
3	KH-9452		2 DMR-1024	Kanchan Ganga Seed Co.	5075	5081	5087
4	Navjot		2 DMR-1025	PAU Ludhiana	5078	5080	5092
5	BIO 9637		2 DMR-1026	BIOSEED RESEARCH INDIA PVT. LTD.	5073	5083	5088
6	HM 8		2 DMR-1027	HAU, Uchani, Karnal	5076	5082	5093
7	HM 9		2 DMR-1028	HAU, Uchani, Karnal	5074	5086	5090

**TRIAL NO. 70 Z-3
YEAR**

**MEDIUM MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KMH-3712		3 DMR-1029	Kaveri seed company limited	5095	5109	5119
2	JH 31242		3 DMR-1030	PAU Ludhiana	5094	5110	5116
3	BL 2802		3 DMR-1031	Charon Pokphand Seeds (India) Pvt. Ltd.	5096	5106	5114
4	KH-9452		3 DMR-1032	Kanchan Ganga Seed Co.	5098	5104	5117
5	KH-717		3 DMR-1033	Kanchan Ganga Seed Co.	5097	5105	5115
6	MCH 37		3 DMR-1034	Monsanto	5100	5113	5120
7	Navjot		3 DMR-1035	PAU Ludhiana	5103	5107	5123
8	VMH 4060		3 DMR-1036	Vibha Seeds/Vibha Agrotech Ltd.	5101	5111	5118
9	HM 8		3 DMR-1037	HAU, Uchani, Karnal	5099	5112	5121
10	HM 9		3 DMR-1038	HAU, Uchani, Karnal	5102	5108	5122

TRIAL NO. 70 Z-4(Medium)

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KMH-3712		4 DMR-1039	Kaveri seed company limited	5128	5145	5151
2	VMH 4060		4 DMR-1040	Vibha Seeds/Vibha Agrotech Ltd.	5134	5143	5147
3	BL 2802		4 DMR-1041	Charon Pokphand Seeds (India) Pvt. Ltd	5125	5138	5148
4	KH-9452		4 DMR-1042	Kanchan Ganga Seed Co.	5133	5137	5155
5	KH-717		4 DMR-1043	Kanchan Ganga Seed Co.	5127	5142	5153
6	EC-3160		4 DMR-1044	AICRP, RCA, MPUAT, Udaipur	5129	5135	5152
7	MCH 37		4 DMR-1045	Monsanto	5124	5141	5150
8	Navjot		4 DMR-1046	PAU Ludhiana	5126	5140	5154
9	JH 31242		4 DMR-1047	PAU Ludhiana	5131	5139	5149
10	HM 8		4 DMR-1048	HAU, Uchani, Karnal	5132	5144	5146
11	HM 9		4 DMR-1049	HAU, Uchani, Karnal	5130	5136	5156

Trial. 70 - Z-5 (Medium)

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	KMH-3712		5 DMR-1050	Kaveri seed company limited	5160	5163	5172
2	EH-1858		5 DMR-1051	AICRP, RCA, MPUAT, Udaipur	5158	5165	5170
3	Navjot		5 DMR-1052	PAU Ludhiana	5162	5168	5169
4	BIO 9637		5 DMR-1053	BIOSEED RESEARCH INDIA PVT. LTD.	5161	5164	5174
5	HM 8		5 DMR-1054	HAU, Uchani, Karnal	5159	5166	5171
6	HM 9		5 DMR-1055	HAU, Uchani, Karnal	5157	5167	5173

**TRIAL NO. 71 Z-2,4
YEAR**

**EARLY MATURITY(AET-2)
2010 KHARIF**

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3	R4
1	R 2006-1	2,4	DMR-1197	Kanpur	5485	5490	5495	5500
2	R 2007-1	2,4	DMR-1198	Kanpur	5487	5491	5497	5501
3	JH-3459	2,4	DMR-1199	PAU Ludhiana	5488	5492	5498	5499
4	Prakash	2,4	DMR-1200	PAU Ludhiana	5486	5489	5496	5503
5	Navjot	2,4	DMR-1201	PAU Ludhiana	5484	5493	5494	5502

TRIAL QPM1-2

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	EHQ-03	All	DMR-1210	AICRP, RCA, MPUAT, Udaipur	5526	5530	5547
2	EHQ-10	All	DMR-1211	AICRP, RCA, MPUAT, Udaipur	5522	5531	5551
3	EHQ-16	All	DMR-1212	AICRP, RCA, MPUAT, Udaipur	5521	5534	5545
4	ECQ-02	All	DMR-1213	AICRP, RCA, MPUAT, Udaipur	5519	5532	5552
5	ECQ-03	All	DMR-1214	AICRP, RCA, MPUAT, Udaipur	5520	5529	5553
6	BQPMH-227	All	DMR-1215	ANGRAU, MRC, ARI, Hyderabad	5515	5539	5556
7	HQPM-2	All	DMR-1216	HAU, Uchani, Karnal	5518	5541	5549
8	HQPM-24	All	DMR-1217	HAU, Uchani, Karnal	5516	5540	5554
9	HQPM-22	All	DMR-1218	HAU, Uchani, Karnal	5513	5538	5544
10	VEHQ-3028	All	DMR-1219	BHU, GPB, IAS, Varanasi	5517	5536	5555
11	JHQPM-304 (1R)	All	DMR-1220	PAU Ludhiana	5527	5537	5550
12	JHQPM-250 (1R)2009	All	DMR-1221	PAU Ludhiana	5524	5528	5557
13	HQPM 1	All	DMR-1222	HAU, Uchani, Karnal	5523	5542	5543
14	HQPM 5	All	DMR-1223	HAU, Uchani, Karnal	5525	5533	5546
15	HQPM 7	All	DMR-1224	HAU, Uchani, Karnal	5514	5535	5548
16	HQPM-14	All	DMR-1226	HAU, Uchani, Karnal	5561	5562	5563
17	MHQPM-09-5	All	DMR-1229	AICMIP, TCA, Dholi	5573	5576	5580
18	MHQPM-09-6	All	DMR-1230	AICMIP, TCA, Dholi	5571	5574	5579
19	MHQPM-09-7	All	DMR-1231	AICMIP, TCA, Dholi	5570	5575	5581
20	MHQPM-09-8	All	DMR-1232	AICMIP, TCA, Dholi	5572	5577	5578

TRIAL SC -1

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3	R4
1	Sanjivani Gold	All	SC-1356	Basanth Agro Tech (I) Ltd.	5951	5956	5960	5966
2	NSCH-12 (Misthi)	All	SC-1357	Nuziveedu Seeds Pvt Ltd	5952	5958	5962	5963
3	Priya	All	SC-1358	MWNC Hyd.	5954	5955	5961	5965
4	Win Orange SC	All	SC-1359	MWNC Hyd.	5953	5957	5959	5964
5	HSC1	All	SC-1454	MWNC Hyd.	6166	6167	6168	6169

TRIAL PC1-2

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	VL Popcorn 1	All	PC-1360	VPKAS Almora	5970	5973	5979
2	BPCH-27	All	PC-1361	ANGRAU, MRC, ARI, Hyderabad	5969	5977	5982
3	DMRPCH-1	All	PC-1362	MWNC Hyd.	5968	5975	5980
4	DMRPCH-2	All	PC-1363	MWNC Hyd.	5972	5978	5984
5	BPCH-6	All	PC-1364	ANGRAU, MRC, ARI, Hyderabad	5971	5974	5981
6	VL Amber	All	PC-1365	VPKAS Almora	5967	5976	5983

TRIAL BC-1

S. No.	Hybrid Name	Zone	Code	Institute	R1	R2	R3
1	MH BABY CORN-09-9	All	BC-1366	AICMIP, TCA, Dholi	5985	5994	5996
2	HM-4	All	BC-1367	HAU, Uchani, Karnal	5988	5993	5999
3	HQPM-1	All	BC-1368	HAU, Uchani, Karnal	5989	5990	5998
4	HM 8	All	BC-1369	HAU, Uchani, Karnal	5987	5992	5995
5	HM 9	All	BC-1370	HAU, Uchani, Karnal	5986	5991	5997

ZONAL TRIAL NO. 102_(Medium maturity)**Locations : Bajaura, Kangra, Barapani, Almora**

Ent. No.	Entry contributed by centre	Pedigree	Code	Plot No.		
				RI	RII	RIII
1	Bajaura	EHL 1649 10	ZR-201	2001	2022	2046
2	Bajaura	EHL 1650 10	ZR-202	2002	2027	2052
3	Barapani	RCM 76	ZR-203	2003	2037	2055
4	Kangra	P 51	ZR-204	2004	2040	2058
5	Bajaura	EHL 162609	ZR-205	2005	2033	2049
6	Bajaura	EHL 1651 10	ZR-206	2006	2028	2045
7	Bajaura	EHL 1652 10	ZR-207	2007	2023	2047
8	Kangra	P 54	ZR-208	2008	2038	2053
9	Check	Bio 9637	ZR-209	2009	2034	2056
10	Bajaura	EHL 1653 10	ZR-210	2010	2032	2044
11	Bajaura	EHL 1654 10	ZR-211	2011	2025	2048
12	Kangra	P 52	ZR-212	2012	2029	2057
13	Bajaura	EHL 1655 10	ZR-213	2013	2035	2043
14	Bajaura	EHL 1656 10	ZR-214	2014	2039	2059
15	Bajaura	EHL 165710	ZR-215	2015	2031	2050
16	Kangra	P 53	ZR-216	2016	2021	2042
17	Check	Navjot	ZR-217	2017	2030	2060
18	Bajaura	EHL 1658 10	ZR-218	2018	2026	2054
19	Bajaura	EHL 1659 10	ZR-219	2019	2036	2041
20	Local check	Local check*	ZR-220*	2020	2024	2051

***(Use local check of appropriate maturity)**

ZONAL TRIAL NO. 103**Location: Almora, Bajaura, Kangra, Udhampur, Srinagar, Poonch, Barapani, Jorhat.**

Entry No.	Code	Pedigree	Origin	Replication		
				I	II	III
1	ZR-101	PS 83	Anantnag	1005	1034	1079
2	ZR-102	PS 98	Anantnag	1029	1053	1068
3	ZR-103	KDM 322	Srinagar	1030	1054	1084
4	ZR-104	KHM 343A X KDM3401	Srinagar	1024	1058	1087
5	ZR-105	FH 3535	Almora	1003	1063	1080
6	ZR-106	FH 3536	Almora	1011	1039	1070
7	ZR-107	FH 3539	Almora	1025	1043	1081
8	ZR-108	FH 3543	Almora	1017	1042	1069
9	ZR-109	FH 3545	Almora	1019	1035	1093
10	ZR-110	FH 3548	Almora	1009	1051	1088
11	ZR-111	FH 3549	Almora	1004	1046	1066
12	ZR-112	FH 3550	Almora	1026	1061	1078
13	ZR-113	EHL 164010	Bajaura	1032	1059	1092
14	ZR-114	EHL 164110	Bajaura	1002	1055	1095
15	ZR-115	Vivek Hybrid 9(C)	Almora	1027	1052	1090
16	ZR-116	Vivek Hybrid 33 (C)	Almora	1013	1036	1077
17	ZR-117	Vivek Sankul 35 (C)	Almora	1012	1040	1094
18	ZR-118	FH 3552	Almora	1007	1041	1071
19	ZR-119	FH 3554	Almora	1006	1037	1067
20	ZR-120	FH 3555	Almora	1016	1049	1065
21	ZR-121	FH 3556	Almora	1014	1050	1076
22	ZR-122	FH 3557	Almora	1015	1056	1086
23	ZR-123	FH 3558	Almora	1021	1038	1073
24	ZR-124	FH 3563	Almora	1031	1044	1091
25	ZR-125	EHL 164410	Bajaura	1023	1064	1072
26	ZR-126	EHL 164510	Bajaura	1028	1045	1096
27	ZR-127	EHL 164610	Bajaura	1018	1048	1075
28	ZR-128	EHL 164710	Bajaura	1010	1062	1082
29	ZR-129	FH 3566	Almora	1001	1060	1074
30	ZR-130	FH 3570	Almora	1008	1047	1085
31	ZR-131	EHL 164310	Bajaura	1020	1057	1083
32	ZR-132	EHL 164210	Bajaura	1022	1033	1089

Trial 201									
S.No.	Hybrid Name	Seed Source	Institute	Trial	Code	R1	R2	R3	
1	JH31388	WNC HYD.	PAU Ludhiana	201	Z2001	101	116	122	
2	JH31427	WNC HYD.	PAU Ludhiana	201	Z2002	104	114	117	
3	AH 2101	IARI New Delhi	IARI New Delhi	201	Z2003	108	111	124	
4	AH 2102	IARI New Delhi	IARI New Delhi	201	Z2004	103	115	119	
5	PMH 1	PAU Ludhiana	PAU Ludhiana	201	Z2005	107	113	121	
6	PMH 3	PAU Ludhiana	PAU Ludhiana	201	Z2006	102	109	123	
7	Seedtec 2324	Bisco Bio Science Pvt. Ltd.	Bisco Bio Science Pvt. Ltd.	201	Z2007	105	110	120	
8	BIO 9681	BIOSEED RESEARCH INDIA PVT. LTD.	BIOSEED RESEARCH INDIA PVT. LTD.	201	Z2008	106	112	118	

Trial 202									
S.No.	Hybrid Name	Seed Source	Institute	Trial	Code	R1	R2	R3	
1	JH31290	WNC HYD.	PAU Ludhiana	202	Z2011	203	226	243	
2	JH31313	WNC HYD.	PAU Ludhiana	202	Z2012	201	218	244	
3	JH31406	WNC HYD.	PAU Ludhiana	202	Z2013	216	220	234	
4	JH31354	WNC HYD.	PAU Ludhiana	202	Z2014	204	228	241	
5	JH31370	WNC HYD.	PAU Ludhiana	202	Z2015	209	230	248	
6	JH31391	WNC HYD.	PAU Ludhiana	202	Z2016	202	229	242	
7	AH 2103	IARI New Delhi	IARI New Delhi	202	Z2017	212	221	245	
8	AH 2104	IARI New Delhi	IARI New Delhi	202	Z2018	210	227	236	
9	AH 2105	IARI New Delhi	IARI New Delhi	202	Z2019	206	219	238	
10	AH 2106	IARI New Delhi	IARI New Delhi	202	Z2020	211	224	233	
11	AH 2107	IARI New Delhi	IARI New Delhi	202	Z2021	214	217	237	
12	AH 2108	IARI New Delhi	IARI New Delhi	202	Z2022	215	225	240	
13	Navjot	PAU Ludhiana	PAU Ludhiana	202	Z2023	205	231	235	
14	BIO 9637	BIOSEED RESEARCH INDIA PVT. LTD.	BIOSEED RESEARCH INDIA PVT. LTD.	202	Z2024	208	223	247	
15	HM 8	HAU, Uchani, Karnal	HAU, Uchani, Karnal	202	Z2025	207	222	246	
16	HM 9	HAU, Uchani, Karnal	HAU, Uchani, Karnal	202	Z2026	213	232	239	

Trial 203									
S.No.	Hybrid Name	Seed Source	Institute	Trial	Code	R1	R2	R3	
1	JH31329	WNC HYD.	PAU Ludhiana	203	Z2031	311	313	328	
2	JH31433	WNC HYD.	PAU Ludhiana	203	Z2032	309	315	331	
3	JH31360	WNC HYD.	PAU Ludhiana	203	Z2033	302	320	323	
4	AH 2109	IARI New Delhi	IARI New Delhi	203	Z2034	301	312	325	
5	AH 2110	IARI New Delhi	IARI New Delhi	203	Z2035	307	321	327	
6	AH 2111	IARI New Delhi	IARI New Delhi	203	Z2036	308	314	332	
7	AH 2112	IARI New Delhi	IARI New Delhi	203	Z2037	306	322	333	
8	AH 2113	IARI New Delhi	IARI New Delhi	203	Z2038	305	317	329	
9	AH 2114	IARI New Delhi	IARI New Delhi	203	Z2039	310	318	330	
10	JH-3459	PAU Ludhiana	PAU Ludhiana	203	Z2040	303	316	326	
11	Prakash	PAU Ludhiana	PAU Ludhiana	203	Z2041	304	319	324	

Trial 204									
S.No.	Hybrid Name	Seed Source	Institute	Trial	Code	R1	R2	R3	
1	AH 2115	IARI New Delhi	IARI New Delhi	204	Z2051	402	409	414	
2	AH 2116	IARI New Delhi	IARI New Delhi	204	Z2052	405	407	418	
3	AH 2117	IARI New Delhi	IARI New Delhi	204	Z2053	406	411	417	
4	AH 2118	IARI New Delhi	IARI New Delhi	204	Z2054	404	410	413	
5	Vivek QPM 9	VPKAS Almora	VPKAS Almora	204	Z2055	401	412	416	
6	Vivek Hybrid 9	VPKAS Almora	VPKAS Almora	204	Z2056	403	408	415	

Zonal Trial-502 (Medium maturity)

Location: Udaipur, Banswara, Godhra, Bhiloda and Chhindwara

S.No.	Code	Pedigree	Origin	R ₁	R ₂	R ₃
1.	ZT-502-1	EH-2170	Udaipur	5205	5227	5247
2.	ZT-502-2	EH-2171	Udaipur	5203	5224	5243
3.	ZT-502-3	EH-2172	Udaipur	5211	5234	5255
4.	ZT-502-4	EH-2173	Udaipur	5217	5237	5248
5.	ZT-502-5	EH-2174	Udaipur	5219	5231	5260
6.	ZT-502-6	EH-2175	Udaipur	5209	5239	5253
7.	ZT-502-7	EH-2176	Udaipur	5204	5223	5257
8.	ZT-502-8	EH-2183	Udaipur	5202	5241	5249
9.	ZT-502-9	WH-2059	Banswara	5213	5238	5261
10.	ZT-502-10	WH-2060	Banswara	5212	5228	5244
11.	ZT-502-11	WH-2061	Banswara	5207	5240	5263
12.	ZT-502-12	WH-2062	Banswara	5216	5226	5256
13.	ZT-502-13	WH-2063	Banswara	5206	5235	5259
14.	ZT-502-14	GWH-0512	Godhara	5214	5232	5250
15.	ZT-502-15	GWH-0704	Godhara	5221	5236	5262
16.	ZT-502-16	GYH-9842	Godhara	5218	5229	5245
17.	ZT-502-17	GYH-0461	Godhara	5220	5242	5252
18.	ZT-502-18	GYH-0652	Godhara	5201	5222	5258
19.	ZT-502-19	Seed Tech-2324	Check	5208	5233	5251
20.	ZT-502-20	Malviya Hybrid-2	Check	5210	5225	5254
21.	ZT-502-21	H.M.-9	Check	5215	5230	5246

Zonal Trial-503 (Early maturity)

Location: Udaipur, Banswara, Godhara, Bhiloda and Chhindwara

S.No.	Code	Pedigree	Centre	R ₁	R ₂	R ₃
1.	ZT-503-1	EH-2177	Udaipur	5301	5311	5322
2.	ZT-503-2	EH-2178	Udaipur	5302	5312	5330
3.	ZT-503-3	EH-2179	Udaipur	5303	5318	5325
4.	ZT-503-4	EH-2180	Udaipur	5304	5316	5327
5.	ZT-503-5	EH-2181	Udaipur	5305	5319	5323
6.	ZT-503-6	EH-2182	Udaipur	5306	5317	5329
7.	ZT-503-7	EH-2184	Udaipur	5307	5320	5328
8.	ZT-503-8	EH-2185	Udaipur	5308	5313	5324
9.	ZT-503-9	Prakash	Check	5309	5314	5326
10.	ZT-503-10	HM-9	Check	5310	5315	5321

Trial ZTQ-01

Location: Udaipur, Banswara, Godhara, Bhiloda and Chhindwara

S.No.	Code	Pedigree	Origin	R ₁	R ₂	R ₃
1.	ZTQ-01	EHQ-51	Udaipur	06	16	30
2.	ZTQ-02	EHQ-52	Udaipur	03	22	35
3.	ZTQ-03	EHQ-53	Udaipur	12	19	25
4.	ZTQ-04	EHQ-54	Udaipur	01	14	33
5.	ZTQ-05	EHQ-55	Udaipur	08	23	29
6.	ZTQ-06	EHQ-56	Udaipur	05	17	36
7.	ZTQ-07	EHQ-57	Udaipur	10	13	31
8.	ZTQ-08	EHQ-58	Udaipur	04	24	26
9.	ZTQ-09	ECQ-02	Udaipur	07	21	34
10.	ZTQ-10	ECQ-03	Udaipur	02	18	28
11.	ZTQ-11	HQPM-1	Check	09	20	32
12.	ZTQ-12	HQPM-5	Check	11	15	27

Station Trial-511

Location: Udaipur and Banswara

S.No.	Code	Pedigree	Centre	R ₁	R ₂	R ₃
1.	ST511-1	EH-2205	Udaipur	04	18	33
2.	ST511-2	EH-2206	Udaipur	09	26	38
3.	ST511-3	EH-2207	Udaipur	05	19	35
4.	ST511-4	EH-2208	Udaipur	03	22	27
5.	ST511-5	EH-2209	Udaipur	12	14	37
6.	ST511-6	EH-2210	Udaipur	01	25	32
7.	ST511-7	EH-2211	Udaipur	07	20	36
8.	ST511-8	EHQ-63	Udaipur	11	23	31
9.	ST511-9	EHQ-64	Udaipur	02	15	28
		Check		-	-	-
10.	ST511-10	HQPM-1	Udaipur	08	17	30
11.	ST511-11	Bio-9681	Udaipur	10	24	39
12.	ST511-12	JH-3459	Udaipur	06	21	34
13.	ST511-12	Navjot	Udaipur	13	16	29

Station Trial-512

Location: Udaipur, Banswara and Godhara

S.No.	Entry Code	Pedigree	Centre	R ₁	R ₂	R ₃
1.	ST-512-1	EH-2186	Udaipur	5122	5133	5160
2.	ST-512-2	EH-2187	Udaipur	5120	5142	5183
3.	ST-512-3	EH-2188	Udaipur	5108	5147	5185
4.	ST-512-4	EH-2189	Udaipur	5101	5131	5174
5.	ST-512-5	EH-2190	Udaipur	5110	5148	5182
6.	ST-512-6	EH-2191	Udaipur	5118	5145	5175
7.	ST-512-7	EH-2192	Udaipur	5128	5144	5172
8.	ST-512-8	EH-2193	Udaipur	5123	5138	5162
9.	ST-512-9	EH-2194	Udaipur	5121	5156	5173
10.	ST-512-10	EH-2195	Udaipur	5115	5150	5186
11.	ST-512-11	EH-2196	Udaipur	5114	5149	5176
12.	ST-512-12	EH-2197	Udaipur	5116	5137	5165
13.	ST-512-13	EH-2198	Udaipur	5106	5141	5167
14.	ST-512-14	EH-2199	Udaipur	5107	5140	5171
15.	ST-512-15	EH-2200	Udaipur	5112	5136	5177
16.	ST-512-16	EH-2201	Udaipur	5113	5152	5161
17.	ST-512-17	EH-2202	Udaipur	5127	5155	5163
18.	ST-512-18	EH-2203	Udaipur	5102	5130	5178
19.	ST-512-19	EH-2204	Udaipur	5126	5132	5166
20.	ST-512-20	EHQ-61	Udaipur	5104	5146	5159
21.	ST-512-21	EHQ-60	Udaipur	5109	5151	5164
22.	ST-512-22	EHQ-62	Udaipur	5119	5135	5169
23.	ST-512-23	EHQ-59	Udaipur	5117	5157	5181
24.	ST-512-24	HQPM-1	Check	5125	5143	5170
25.	ST-512-25	Vivek Hybrid-9	Check	5111	5139	5180
26.	ST-512-26	Bio-9681	Check	5103	5158	5187
27.	ST-512-27	JH-3459	Check	5124	5154	5184
28.	ST-512-28	Prakash	Check	5129	5153	5168
29.	ST-512-29	HM-9	Check	5105	5134	5179

AGRONOMY TRIALS**Trial. 69 - Z-2 (Full Season)**

S. No.	Hybrid Name	Zone Code	Institute
1	PAC745	2 DMR-1001	Advanta India Limited
2	PMH 1	2 DMR-1002	PAU Ludhiana
3	Seedtec 2324	2 DMR-1003	Bisco Bio Science Pvt. Ltd.
4	BIO 9681	2 DMR-1004	BIOSEED RESEARCH INDIA PVT. LTD.

Trial. 69 - Z-3 (Full Season)

S. No.	Hybrid Name	Zone Code	Institute
1	X7B401	3 DMR-1005	Pioneer Overseas Corporation
2	MCH 38	3 DMR-1006	Monsanto
3	PMH 1	3 DMR-1007	PAU Ludhiana
4	Seedtec 2324	3 DMR-1008	Bisco Bio Science Pvt. Ltd.
5	BIO 9681	3 DMR-1009	BIOSEED RESEARCH INDIA PVT. LTD.

Trial. 69 - Z-4 (Full Season)

S. No.	Hybrid Name	Zone Code	Institute
1	PFMH- 9737	4 DMR-1010	ProFarm Seed India Pvt. Ltd.
2	PAC745	4 DMR-1011	Advanta India Limited
3	MCH 38	4 DMR-1012	Monsanto
4	PMH 1	4 DMR-1013	PAU Ludhiana
5	Seedtec 2324	4 DMR-1014	Bisco Bio Science Pvt. Ltd.
6	BIO 9681	4 DMR-1015	BIOSEED RESEARCH INDIA PVT. LTD.

Trial. 69 - Z-5 (Full Season)

S. No.	Hybrid Name	Zone Code	Institute
1	X7B401	5 DMR-1016	Pioneer Overseas Corporation
2	PAC745	5 DMR-1017	Advanta India Limited
3	PHS-520247	5 DMR-1018	PHS Agritech Private Limited
4	PMH 1	5 DMR-1019	PAU Ludhiana
5	Seedtec 2324	5 DMR-1020	Bisco Bio Science Pvt. Ltd.
6	BIO 9681	5 DMR-1021	BIOSEED RESEARCH INDIA PVT. LTD.

Trial. 71 - Z-2,4 (Early)

S. No.	Hybrid Name	Zone Code	Institute
1	R 2006-1	2,4 DMR-1202	Kanpur
2	R 2007-1	2,4 DMR-1203	Kanpur
3	JH-3459	2,4 DMR-1204	PAU Ludhiana
4	Prakash	2,4 DMR-1205	PAU Ludhiana
5	Navjot	2,4 DMR-1206	PAU Ludhiana

Trial. 70 - Z-2 (Medium)

S. No.	Hybrid Name	Zone Code	Institute
1	KMH-3712	2 DMR-1077	Kaveri seed company limited
2	JH 31242	2 DMR-1078	PAU Ludhiana
3	KH-9452	2 DMR-1079	Kanchan Ganga Seed Co.
4	Navjot	2 DMR-1080	PAU Ludhiana
5	BIO 9637	2 DMR-1081	BIOSEED RESEARCH INDIA PVT. LTD.
6	HM 8	2 DMR-1082	HAU, Uchani, Karnal
7	HM 9	2 DMR-1083	HAU, Uchani, Karnal

Trial. 70 - Z-3 (Medium)

S. No.	Hybrid Name	Zone Code	Institute
1	KMH-3712	3 DMR-1084	Kaveri seed company limited
2	JH 31242	3 DMR-1085	PAU Ludhiana
3	BL 2802	3 DMR-1086	Charon Pokphand Seeds (India) Pvt. Ltd.
4	KH-9452	3 DMR-1087	Kanchan Ganga Seed Co.
5	KH-717	3 DMR-1088	Kanchan Ganga Seed Co.
6	MCH 37	3 DMR-1089	Monsanto
7	Navjot	3 DMR-1090	PAU Ludhiana
8	VMH 4060	3 DMR-1091	Vibha Seeds/Vibha Agrotech Ltd.
9	HM 8	3 DMR-1092	HAU, Uchani, Karnal
10	HM 9	3 DMR-1093	HAU, Uchani, Karnal

Trial. 70 - Z-4 (Medium)

S. No.	Hybrid Name	Zone Code	Institute
1	KMH-3712	4 DMR-1094	Kaveri seed company limited
2	VMH 4060	4 DMR-1095	Vibha Seeds/Vibha Agrotech Ltd.
3	BL 2802	4 DMR-1096	Charon Pokphand Seeds (India) Pvt. Ltd.
4	KH-9452	4 DMR-1097	Kanchan Ganga Seed Co.
5	KH-717	4 DMR-1098	Kanchan Ganga Seed Co.
6	EC-3160	4 DMR-1099	AICRP, RCA, MPUAT, Udaipur
7	MCH 37	4 DMR-1100	Monsanto
8	Navjot	4 DMR-1101	PAU Ludhiana
9	JH 31242	4 DMR-1102	PAU Ludhiana
10	HM 8	4 DMR-1103	HAU, Uchani, Karnal
11	HM 9	4 DMR-1104	HAU, Uchani, Karnal

Trial. 70 - Z-5 (Medium)

S. No.	Hybrid Name	Zone Code	Institute
1	KMH-3712	5 DMR-1105	Kaveri seed company limited
2	EH-1858	5 DMR-1106	AICRP, RCA, MPUAT, Udaipur
3	Navjot	5 DMR-1107	PAU Ludhiana
4	BIO 9637	5 DMR-1108	BIOSEED RESEARCH INDIA PVT. LTD.
5	HM 8	5 DMR-1109	HAU, Uchani, Karnal
6	HM 9	5 DMR-1110	HAU, Uchani, Karnal

Trial. 75 (FULL SEASON)						
S. No.	Hybrid Name	Zone	Code	Institute	R1	R2
AET 1st Year						
1	DMRNSCH2	All	DMR-1371	MWNC Hyd.	6032	6073
2	Bisco -74	All	DMR-1372	Bisco Bio Science Pvt. Ltd.	6008	6062
3	X8B562	All	DMR-1373	Pioneer Overseas Corporation	6033	6049
4	KMH-3670	All	DMR-1374	Kaveri seed company limited	6027	6046
5	KMH-548	All	DMR-1375	Kaveri seed company limited	6019	6040
6	JKMH 7005	All	DMR-1376	JK Agrigenetics Ltd.	6026	6053
7	JKMH 8033	All	DMR-1377	2010K	6017	6052
8	PRO 378	All	DMR-1378	Bayer Bioscience Pvt. Ltd.	6035	6055
9	NK 6246	All	DMR-1379	Syngenta	6003	6051
10	NK 6267/NH 6267	All	DMR-1380	Syngenta	6004	6043
11	NMH-731	All	DMR-1381	Nuziveedu Seeds Pvt Ltd	6000	6045
12	NMH-958	All	DMR-1382	Nuziveedu Seeds Pvt Ltd	6037	6075
13	NMH-920	All	DMR-1383	Nuziveedu Seeds Pvt Ltd	6022	6070
14	IDX 2901	All	DMR-1384	Charon Pokphand Seeds (India) Pvt. Ltd.	6029	6066
15	C1945	All	DMR-1385	Zuari Seeds Limited	6018	6057
16	KH-404	All	DMR-1386	Kanchan Ganga Seed Co.	6009	6069
17	MAIZE POLO	All	DMR-1387	Kanchan Ganga Seed Co.	6013	6058
18	BMH-107	All	DMR-1388	Biostadt MHseeds Limited	6014	6042
19	BMH-109	All	DMR-1389	Biostadt MHseeds Limited	6002	6044
20	CMH 08-156	All	DMR-1390	TNAU, Coimbatore	6010	6076
21	CMH 08-154	All	DMR-1391	TNAU, Coimbatore	6011	6063
22	CMH 08-282	All	DMR-1392	TNAU, Coimbatore	6021	6048
23	Laxmi Gold	All	DMR-1393	Yaaganti Seeds Private Limited	6028	6072
24	JH-11662(1R) 2009	All	DMR-1394	PAU, Ludhiana	6020	6061
25	JH-12114 (2R)	All	DMR-1395	PAU, Ludhiana	6025	6050
26	JH-11858 (2R) 2009	All	DMR-1396	PAU, Ludhiana	6007	6056
27	BIO-265	All	DMR-1397	BIOSEED RESEARCH INDIA PVT. LTD.	6001	6074
28	OM 7878	All	DMR-1398	AMAR BIO-TECH LIMITED	6005	6067
29	Amar 6669	All	DMR-1399	AMAR AGRI-TECH LIMITED	6034	6060
30	KF-105	All	DMR-1400	Bharatiya Beej Nigam Limited	6024	6047
31	MCH 40	All	DMR-1401	Monsanto	6031	6059
AET 2nd Year						
32	MCH 38	III, IV	DMR-1402	Monsanto	6036	6064
33	PAC745	II, IV, V	DMR-1403	Advanta India Limited	6023	6054
34	PFMH- 9737	IV	DMR-1404	ProFarm Seed India Pvt. Ltd.	6016	6071
35	PHS-520247	V	DMR-1405	PHS Agritech Private Limited	6006	6068
36	X7B401	III, V	DMR-1406	Pioneer Overseas Corporation	6038	6039
37	Seedtec 2324		DMR-1407	Bisco Bio Science Pvt. Ltd.	6012	6077
38	BIO 9681		DMR-1408	BIOSEED RESEARCH INDIA PVT. LTD.	6030	6065
39	Prakash		DMR-1409	PAU, Ludhiana	6015	6041

Trial. 76 (Medium)						
S. No.	Hybrid Name	Zone	Code	Institute	R1	R2
AET 1st Year						
1	KDMH 017	All	DMR-1410	Krishidhan Seeds Limited	6093	6115
2	X8B557	All	DMR-1411	Pioneer Overseas Corporation	6091	6104
3	X8B691	All	DMR-1412	Pioneer Overseas Corporation	6090	6109
4	KMH-218 Plus	All	DMR-1413	Kaveri seed company limited	6095	6123
5	KMH-3426	All	DMR-1414	Kaveri seed company limited	6099	6121
6	JH 31292	All	DMR-1415	PAU Ludhiana	6089	6113
7	JH 31285 (1R)	All	DMR-1416	PAU Ludhiana	6098	6112
8	NMH-803	All	DMR-1417	Nuziveedu Seeds Pvt Ltd	6101	6107
9	Mukhya-108	All	DMR-1418	Srichakra Agrotech Pvt Ltd	6084	6114
10	Sarpunch-171	All	DMR-1419	Srichakra Agrotech Pvt Ltd	6087	6110
11	HKH-313	All	DMR-1420	HAU, Uchani, Karnal	6081	6103
12	VEH-09-2	All	DMR-1421	BHU, GPB, IAS, Varanasi	6088	6119
13	MCH 42	All	DMR-1422	Monsanto	6083	6106
AET 2nd Year						
14	BL 2802	3,4	DMR-1423	Charon Pokphand Seeds (India) Pvt. Ltd.	6080	6122
15	EC-3160	4	DMR-1424	AICRP, RCA, MPUAT, Udaipur	6100	6117
16	EH-1858	5	DMR-1425	AICRP, RCA, MPUAT, Udaipur	6094	6102
17	JH 31242	2,3,4	DMR-1426	PAU Ludhiana	6085	6125
18	KH-717	3,4	DMR-1427	Kanchan Ganga Seed Co.	6079	6118
19	KH-9452	2,3,4	DMR-1428	Kanchan Ganga Seed Co.	6086	6116
20	KMH-3712	2,3,4,5	DMR-1429	Kaveri seed company limited	6097	6111
21	MCH 37	3,4	DMR-1430	Monsanto	6092	6120
22	VMH 4060	3,4	DMR-1431	Vibha Seeds/Vibha Agrotech Ltd.	6096	6105
23	HM 8		DMR-1432	HAU, Uchani, Karnal	6082	6108
24	HM 9		DMR-1433	HAU, Uchani, Karnal	6078	6124

Trial. 77 (Early)						
S. No.	Hybrid Name	Zone	Code	Institute	R1	R2
AET 1st Year						
1	FH 3506	All	DMR-1434	VPKAS Almora	6130	6142
2	JH 31236 (2R)	All	DMR-1435	PAU Ludhiana	6135	6148
3	85-08-11 (2009)	All	DMR-1436	Kanchan Ganga Seed Co.	6132	6144
4	KH-9560	All	DMR-1437	Kanchan Ganga Seed Co.	6133	6147
5	BIO-605	All	DMR-1438	BIOSEED RESEARCH INDIA PVT. LTD.	6126	6149
6	REH 2001	All	DMR-1439	Kanpur	6136	6138
7	REH 2002	All	DMR-1440	Kanpur	6127	6143
8	REH 2003	All	DMR-1441	Kanpur	6129	6145
AET 2nd Year						
9	R 2006-1	4	DMR-1442	Kanpur	6137	6146
10	R 2007-1	2,4	DMR-1442	Kanpur	6131	6141
11	Prakash		DMR-1443	PAU Ludhiana	6128	6140
12	JH-3459		DMR-1444	PAU Ludhiana	6134	6139

Trial. 78 (Extra Early)						
S. No.	Hybrid Name	Zone	Code	Institute	R1	R2
AET 1st Year						
1	FH 3478	All	DMR-1445	VPKAS Almora	6157	6160
2	FH 3483	All	DMR-1446	VPKAS Almora	6150	6165
3	FH 3487	All	DMR-1447	VPKAS Almora	6153	6163
4	FH 3488	All	DMR-1448	VPKAS Almora	6151	6164
5	DH-179	All	DMR-1449	GBPU A&T, Pantnagar	6156	6162
6	DH-177	All	DMR-1450	GBPU A&T, Pantnagar	6154	6159
7	Vivek QPM 9	All	DMR-1451	VPKAS Almora	6152	6158
8	Vivek Hybrid 9	All	DMR-1452	VPKAS Almora	6155	6161

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PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, DELHI, KARNAL, KANPUR, PANTNAGAR, BAHRAICH, DHOLI, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN IET, TRIAL No. TR61 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		BAJA R						ZN 1				ZN 2			
		BARA R	KANG R	MEAN R	DELH R	KARN R	PANT R	KANP R	MEAN R	BAHR R					
1	Ajeet 301	9936 41	3698 49	7476 36	7036 49	4296 58	4335 21	5283 51	7784 13	5471 39	8893 19				
2	MM1107	11552 20	3625 52	8686 9	7954 28	6608 25	4214 28	7249 30	6891 32	5904 25	8521 22				
3	M9977	12955 6	3876 47	8510 16	8447 17	7716 9	4048 41	8308 11	9909 2	7224 2	10343 1				
4	PFMH- 97 I 02	10404 36	3904 45	6211 53	6840 51	5627 45	4082 38	7384 25	5474 45	5061 48	8692 20				
5	PFMH- 97 I 09	11243 26	3385 54	8918 7	7848 32	5790 40	4229 27	3056 58	3323 55	4447 54	8043 32				
6	PFMH- 97 I 40	11266 25	3907 44	8578 13	7917 29	4822 54	3673 56	7124 33	7728 14	5408 41	7824 36				
7	Bisco -New 704	14334 2	6269 11	7606 33	9403 3	6732 22	3881 46	8680 7	2626 56	4413 56	8146 28				
8	Bisco -X9	14637 1	3108 57	8900 8	8882 6	7100 16	4296 24	8248 12	7589 16	6328 15	7961 33				
9	Bisco -X 6525	9333 48	3374 55	8477 18	7062 47	5061 52	4672 8	6943 35	10141 1	6625 10	8137 29				
10	Bisco -X-11	10494 35	3226 56	8504 17	7408 39	6153 29	4447 15	9154 4	5418 46	5339 43	8074 31				
11	HTMH 5101 Sona	12428 11	6607 8	6671 47	8568 14	5921 36	3896 45	5227 52	8648 8	6155 18	7308 46				
12	X8B674	12864 7	5168 30	7966 27	8666 11	9075 2	4572 12	8330 10	7249 24	6965 3	7462 43				
13	X8B677	11773 16	3932 43	8632 11	8112 26	7064 18	4496 14	7290 28	8365 9	6642 8	10282 2				
14	C6485	10251 37	5472 23	6415 50	7379 40	5809 38	4655 9	7376 26	6823 34	5762 31	7129 50				
15	C1946	10226 39	4748 37	6742 45	7238 46	5858 37	3898 44	5901 46	7591 15	5782 29	7220 47				
16	KMH-2700	11931 14	5106 32	8350 19	8462 16	7289 12	3660 57	7647 17	6071 40	5673 36	9500 8				
17	KMH-509	12765 9	5829 18	7031 42	8542 15	5805 39	4708 7	4901 55	7472 21	5995 24	7597 41				
18	KMH-2559	13196 5	7109 4	6376 51	8894 5	5710 41	4588 11	9650 1	7144 26	5814 27	8974 17				
19	X35A 175	9698 44	7505 1	7620 32	8274 23	9212 1	4429 16	7351 27	6791 35	6811 6	6903 53				
20	X35A 176	11604 18	7115 3	5857 54	8192 24	6732 21	4337 20	7845 14	6934 31	6001 23	9310 10				
21	JKMH 102	8584 54	2077 58	7208 39	5956 58	7125 14	4028 42	7430 21	7039 29	6064 21	6939 51				
22	JKMH 101	8926 52	3812 48	8146 23	6961 50	6719 23	3852 49	7428 22	7500 20	6024 22	7794 38				
23	PRO 379	10127 40	5277 26	6510 49	7305 43	8398 4	3942 43	7421 24	7922 12	6754 7	9014 15				
24	PRO 380	10587 34	7172 2	5602 56	7787 33	6825 20	4243 26	6592 42	6339 38	5802 28	7624 40				
25	S 6668/NH 6668	11354 23	5930 17	7562 34	8282 22	8624 3	3829 50	6782 40	5012 51	5822 26	9337 9				
26	S 6718/NH 6718	12497 10	6066 15	9770 2	9444 2	6101 31	3724 53	6912 36	7423 23	5749 32	8122 30				
27	JH 31291	9344 47	6244 12	6211 52	7266 45	6427 27	3873 48	7127 32	9401 5	6567 11	8146 27				
28	JH 31294	11076 28	4238 41	8628 12	7981 27	6035 33	4168 30	5500 49	5110 49	5104 46	7198 48				
29	JH 12157	11001 29	5342 25	8515 15	8286 21	8087 6	4499 13	6814 38	9488 4	7358 1	9992 3				
30	GH- 1004	8777 53	5592 21	6808 43	7059 48	5371 47	3797 51	5143 54	5322 47	4830 51	5628 57				
31	GH- 1009	10712 31	5171 28	7826 28	7903 30	4805 55	4316 22	7151 31	4206 52	4442 55	5522 58				
32	GH- 1005	9161 50	5145 31	7519 35	7275 44	5631 44	3470 58	5371 50	7470 22	5524 38	7409 44				
33	GH- 1008	8184 55	4575 39	5656 55	6138 57	4509 56	4094 36	6997 34	5567 44	4723 52	6416 55				

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		BAJA R		BARA R		KANG R		MEAN R		DELH R		KARN R		PANT R		KANP R		MEAN R		BAHR R	
34	A 7501	10601	33	5818	19	6759	44	7726	36	5961	34	4162	33	9014	5	5675	43	5266	44	9526	6
35	NMH-777	11210	27	5953	16	9355	4	8839	7	5684	42	4426	17	7514	18	6951	30	5687	35	9504	7
36	NMH-713	12008	12	6574	9	10579	1	9720	1	5401	46	4055	40	5728	47	6655	36	5370	42	8980	16
37	NMH-4040 (White)	11485	21	6628	5	8123	24	8746	9	5266	49	5040	1	7828	16	3428	54	4578	53	9054	14
38	GK 3090	9900	43	6627	6	6742	46	7756	35	6037	32	3790	52	7454	20	7511	19	5779	30	8959	18
39	GK 3094	9018	51	6232	13	6669	48	7306	42	7767	8	4380	19	6823	37	7172	25	6440	13	7179	49
40	Sun - Kranthi	7503	57	6496	10	5096	57	6365	56	4854	53	4165	32	5195	53	6275	39	5098	47	7847	35
41	CMH08-239	11000	30	4708	38	7977	26	7895	31	5317	48	4186	29	8740	6	5111	48	4871	50	9540	5
42	CMH08-259	9909	42	3994	42	8670	10	7524	38	7109	15	3697	54	8052	13	7539	17	6115	20	9305	11
43	CMH08-287	13571	3	6181	14	8151	22	9301	4	7694	10	3878	47	8392	8	6840	33	6138	19	8381	24
44	CMH08-337	9608	46	3885	46	8544	14	7346	41	6560	26	4070	39	9183	2	6547	37	5726	34	7888	34
45	KNMH-401091	11322	24	3442	53	4398	58	6388	55	6713	24	4277	25	6101	44	8927	6	6639	9	8519	23
46	KNMH-4010131	9286	49	4748	36	9319	5	7784	34	7489	11	4604	10	8385	9	5089	50	5727	33	7815	37
47	CP 111	13251	4	5032	33	8050	25	8778	8	5958	35	4082	37	4758	56	2417	57	4152	57	8184	26
48	CP 333	11800	15	5352	24	7807	30	8320	19	6109	30	4745	3	6068	45	3860	53	4904	49	6072	56
49	HP-222	11478	22	6614	7	7817	29	8637	12	6931	19	3693	55	6700	41	5744	42	5456	40	7766	39
50	DMR NSCH 6	7452	58	5695	20	7070	41	6739	53	5236	51	4414	18	3797	57	5988	41	5213	45	6929	52
51	DMR NSCH 7	8147	56	3645	50	7455	37	6416	54	4480	57	4743	4	6460	43	9688	3	6304	16	6665	54
52	BIO-562	11979	13	4328	40	8215	21	8174	25	5659	43	4115	34	9163	3	7101	27	5625	37	9554	4
53	MCH 44	10241	38	5188	27	7292	38	7574	37	7152	13	4297	23	7829	15	7053	28	6167	17	8539	21
54	Nidhi Pearl	9672	45	3627	51	7162	40	6820	52	5265	50	4167	31	6783	39	2206	58	3880	58	9175	13
CHECKS																					
55	PMH 1	11580	19	4827	35	9378	3	8595	13	8134	5	4711	6	5663	48	7976	10	6940	4	7377	45
56	PMH 3	10692	32	5170	29	9042	6	8301	20	8002	7	4786	2	7251	29	7941	11	6910	5	8338	25
57	Seedtec 2324	12796	8	5507	22	7748	31	8684	10	7092	17	4716	5	7425	23	7527	18	6445	12	9202	12
58	BIO 9681	11758	17	5008	34	8252	20	8339	18	6196	28	4109	35	7461	19	8843	7	6383	14	7480	42
	Location Mean	10870		5084		7675		7877		6398		4211		7024		6687		5766		8159	
	Mean Stand	28		25		31		28		35		36		35		35		35		31	
	C.D. (5%)	1362		468		1623		1151		1789		474		3125		1038		1100		1078	
	C.V. (%)	7.74		5.69		13.08		-		17.29		6.95		27.51		9.59		-		8.17	
	F (Prob)	0		0		0		0		0		0		0.019		0		0		0	
	Plot Size	4.2		4.8		4.8		-		6		5.6		6		4.8		-		4.8	
AGRONOMY DATA																					
	Sowing Date	16-06		28-07		29-06		-		7-12		26-06		26-06		30-07		-		26-07	
	Harvest Date	27-10		30-11		6-10		-		30-10		27-09		4-10		15-11		-		9-11	
	Irrigation Nos	3		-		-		-		-		4		-		-		-		-	
	Fertilizer Applied N	120		80		120		-		150		150		120		120		-		120	
	Fertilizer Applied P	60		60		60		-		75		60		60		60		-		60	
	Fertilizer Applied K	40		40		40		-		75		60		40		40		-		60	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 27.5 %

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																					
		DHOL				VARA				RANC				AMBI				ZN3				ARBH				HYDE				KARI				KOLH				MAND	
1	Ajeet 301	7081	27	6013	44	10217	14	6164	9	7673	22	8057	52	6210	57	8233	51	9924	26	8811	31																		
2	MM1107	7864	14	6727	33	9888	20	5116	38	7623	23	8902	47	7176	48	11041	2	9777	29	7714	47																		
3	M9977	8602	7	5471	52	10972	9	6195	8	8316	2	10782	18	9469	3	10282	10	9442	36	9720	18																		
4	PFMH- 97 I 02	5534	50	5456	53	8895	40	5618	22	6839	50	8589	49	7657	37	9602	33	7437	54	8240	39																		
5	PFMH- 97 I 09	6350	39	5986	45	9285	32	4573	53	6847	49	10457	22	7146	49	8262	50	10798	10	9958	14																		
6	PFMH- 97 I 40	5322	52	7687	17	7532	56	5036	40	6680	51	9184	44	7369	41	9455	35	8871	44	8912	26																		
7	Bisco -New 704	6893	31	7611	19	10553	12	6929	2	8026	12	12633	5	9000	12	9383	37	11390	5	9305	19																		
8	Bisco -X9	6325	40	5678	49	11737	2	4598	52	7260	36	11431	11	8745	16	8274	49	10410	15	8900	27																		
9	Bisco -X 6525	5580	49	5185	55	8748	43	6705	5	6871	48	10326	24	7341	43	10322	8	10234	19	9219	22																		
10	Bisco -X-11	6106	45	7584	21	10033	18	4827	49	7325	31	9954	32	9692	2	10850	3	11010	8	8628	35																		
11	HTMH 5101 Sona	6132	44	8384	10	9443	28	5227	32	7299	33	12471	6	8912	13	9308	42	10284	18	6882	52																		
12	X8B674	9370	1	8831	6	9792	24	5593	23	8210	4	10081	27	7769	36	9785	25	11126	7	9755	17																		
13	X8B677	7212	25	7048	29	10706	10	4993	42	8048	11	13784	1	8473	20	9740	30	9809	28	10623	7																		
14	C6485	5912	48	8790	7	8453	46	5339	31	7124	43	8203	51	8904	14	10287	9	9348	38	7718	46																		
15	C1946	5520	51	8138	12	9598	27	5691	20	7233	37	10888	15	8077	27	9918	19	9949	25	8638	33																		
16	KMH-2700	7048	28	7013	30	10618	11	6495	7	8135	8	10095	26	6624	54	8107	52	11916	2	10461	10																		
17	KMH-509	6380	37	7597	20	8772	42	4815	50	7032	44	9291	43	8343	23	9637	32	10302	17	9148	24																		
18	KMH-2559	6462	36	7847	16	11081	7	4855	47	7844	15	12437	7	5013	58	7626	54	9986	24	7842	44																		
19	X35A 175	7558	21	5714	48	8617	44	5993	12	6957	46	10736	19	7860	34	10714	5	9201	39	7441	50																		
20	X35A 176	8805	5	7147	28	10019	19	5638	21	8184	7	12316	8	9096	9	9916	20	10499	14	11755	3																		
21	JKMH 102	7733	15	5250	54	10117	17	5716	18	7151	38	9665	35	7364	42	6452	57	10045	22	9296	20																		
22	JKMH 101	6573	34	7374	23	9876	22	5509	26	7425	28	10078	28	6213	56	9915	21	9766	30	7909	42																		
23	PRO 379	8685	6	6671	36	10164	15	4840	48	7875	14	11829	10	10467	1	9216	43	9061	41	5960	57																		
24	PRO 380	8354	9	5596	50	10229	13	5573	24	7475	27	12857	4	7998	30	9336	40	10545	13	8404	37																		
25	S 6668/NH 6668	6213	42	5142	56	9206	33	6826	3	7345	30	10072	29	8028	29	9979	17	9617	32	8609	36																		
26	S 6718/NH 6718	7479	23	7368	24	11047	8	5865	14	7976	13	9515	41	7433	39	9394	36	10943	9	11922	2																		
27	JH 31291	7926	13	9143	3	8039	52	5188	35	7688	21	8767	48	9042	11	9598	34	9518	35	6069	56																		
28	JH 31294	8224	10	8090	13	11144	4	5832	15	8097	9	9918	34	9295	6	9741	29	10222	20	7185	51																		
29	JH 12157	7595	20	6016	42	9062	36	5142	36	7561	25	10015	31	6679	53	10281	11	10695	12	8780	32																		
30	GH- 1004	6288	41	6771	32	7656	54	4283	56	6125	56	7298	56	8069	28	9331	41	7495	53	8892	28																		
31	GH- 1009	6085	46	6715	34	7858	53	4954	44	6227	55	6421	58	8367	21	9757	27	9878	27	7683	48																		
32	GH- 1005	5162	55	8228	11	7141	57	3939	58	6376	54	8462	50	7953	33	9941	18	8020	50	5401	58																		
33	GH- 1008	3709	58	8751	8	5677	58	4452	54	5801	58	7401	55	6772	51	5680	58	6933	57	6233	55																		

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		ZN3																			
		DHOL	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R	MAND	R
34	A 7501	7686	18	6185	40	9178	35	5398	28	7595	24	11004	14	7439	38	9984	16	11578	3	11978	1
35	NMH-777	8086	12	7152	27	9293	31	6967	1	8201	5	9926	33	8367	22	9788	24	9532	34	8285	38
36	NMH-713	7658	19	8841	5	12361	1	5368	30	8641	1	9654	36	9214	7	9658	31	11512	4	11717	4
37	NMH-4040 (White)	6363	38	6710	35	8098	51	5485	27	7142	39	10053	30	6449	55	8838	48	8480	46	10506	8
38	GK 3090	7691	17	9376	2	9194	34	5032	41	8050	10	9018	45	9075	10	7678	53	7279	56	8882	29
39	GK 3094	7530	22	10034	1	9425	29	4708	51	7775	19	9638	37	7975	32	9341	39	8967	43	8634	34
40	Sun - Kranthi	6499	35	6884	31	8379	48	6018	11	7125	42	7564	54	7979	31	9745	28	8435	47	7895	43
41	CMH08-239	6685	32	5769	47	8958	38	5567	25	7304	32	9623	39	9310	5	10184	12	9668	31	9077	25
42	CMH08-259	7710	16	6319	39	8353	49	5369	29	7411	29	10496	21	8636	17	7545	55	9039	42	8871	30
43	CMH08-287	8133	11	7478	22	10137	16	4965	43	7819	17	11115	13	8230	26	10556	6	11303	6	7732	45
44	CMH08-337	8462	8	5923	46	11166	3	5696	19	7827	16	10841	16	8258	25	11115	1	10401	16	11273	6
45	KNMH-401091	6161	43	4695	58	8409	47	4325	55	6422	53	9408	42	7370	40	9209	44	7281	55	7496	49
46	KNMH-4010131	5915	47	4960	57	9738	26	4907	46	6667	52	10395	23	9121	8	9824	22	7939	51	9257	21
47	CP 111	7120	26	5496	51	11082	6	5752	17	7527	26	11339	12	6749	52	9345	38	10015	23	9160	23
48	CP 333	8952	4	6624	37	11103	5	5933	13	7737	20	12135	9	7324	44	9823	23	12382	1	11552	5
49	HP-222	6980	30	6015	43	9819	23	5766	16	7269	35	10711	20	9453	4	10778	4	8576	45	8037	41
50	DMR NSCH 6	5231	53	8865	4	8590	45	5212	33	6965	45	9018	46	6814	50	9987	15	6435	58	8225	40
51	DMR NSCH 7	3750	57	8406	9	7567	55	4202	57	6118	57	7058	57	7247	47	9048	46	7812	52	6510	54
52	BIO-562	7299	24	7855	15	8122	50	6060	10	7778	18	12938	2	8565	19	8939	47	10742	11	10483	9
53	MCH 44	9241	3	6537	38	9881	21	6774	4	8194	6	12894	3	7318	45	9774	26	8185	49	6540	53
54	Nidhi Pearl	4698	56	7667	18	9026	37	5123	37	7138	40	10826	17	8286	24	10394	7	10082	21	10352	11
	CHECKS																				
55	PMH 1	6636	33	7350	25	9355	30	4943	45	7132	41	9614	40	7823	35	10153	13	9097	40	9951	15
56	PMH 3	9302	2	7292	26	9756	25	6699	6	8277	3	10215	25	8596	18	9120	45	9408	37	10291	12
57	Seedtec 2324	5174	54	8051	14	8867	41	5076	39	7274	34	9627	38	7295	46	10032	14	8259	48	9924	16
58	BIO 9681	7039	29	6079	41	8933	39	5192	34	6944	47	7834	53	8807	15	6858	56	9581	33	10166	13
	Location Mean	6932		7027		9430		5432		7396		10101		8004		9432		9594		8876	
	Mean Stand	33		36		33		25		32		34		38		35		38		33	
	C.D. (5%)	2039		671		1865		1559		1442		2889		2069		580		1657		856	
	C.V. (%)	18.18		4.77		12.22		17.74		-		17.68		15.98		3.8		10.68		5.96	
	F (Prob)	0		0		0		0		0		0		0.001		0		0		0	
	Plot Size	6		4.8		5.6		6		-		6		6		6		6		5.6	
	AGRONOMY DATA																				
	Sowing Date	6-07		5-07		7-07		8-07		-		14-07		19-06		16-07		7-07		21-07	
	Harvest Date	-		19-10		18-10		-		-		12-11		25-10		-		29-11		12-10	
	Irrigation Nos	-		2		-		-		-		3		-		-		-		6	
	Fertilizer Applied N	150		120		120		120		-		150		180		200		120		150	
	Fertilizer Applied P	70		60		60		60		-		75		60		80		60		75	
	Fertilizer Applied K	50		40		40		40		-		37.5		50		60		40		40	

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		COIM		MEAN		UDAI		BANS		GODH		CHHI		JHAB		ZN 5		OV'L	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
1	Ajeet 301	9219	45	8409	50	4136	51	3230	58	2456	57	7977	48	5034	12	4567	57	6781	51
2	MM1107	9900	34	9085	38	4834	17	5110	7	5184	30	12198	6	5659	2	6597	5	7599	24
3	M9977	9934	32	9938	14	5373	4	6108	1	6186	16	14065	1	5521	4	7451	1	8431	1
4	PFMH- 97 I 02	8942	47	8411	49	5052	11	3791	50	6949	5	9481	35	4427	39	5940	28	6821	50
5	PFMH- 97 I 09	10275	20	9483	27	4497	38	4417	27	6500	10	7347	51	4345	44	5421	40	7051	45
6	PFMH- 97 I 40	10161	25	8992	41	4619	27	3663	54	5902	20	7318	53	4266	50	5154	46	6959	47
7	Bisco -New 704	11280	10	10499	6	4043	55	4400	28	5750	24	8701	40	4689	25	5517	36	7825	11
8	Bisco -X9	9444	41	9534	22	5298	5	4267	33	4710	34	11821	10	4840	17	6187	17	7730	18
9	Bisco -X 6525	9600	38	9507	23	4588	29	3998	43	4187	43	8371	42	4437	38	5116	49	7183	39
10	Bisco -X-11	10037	31	10029	12	4586	30	4498	26	3778	52	6523	57	4566	30	4790	53	7227	37
11	HTMH 5101 Sona	9490	40	9558	21	5133	9	4358	30	6282	14	11984	8	4786	21	6509	6	7752	16
12	X8B674	11487	8	10001	13	5144	8	4197	36	6409	12	11636	12	4048	55	6287	15	8154	3
13	X8B677	10612	18	10507	5	4815	19	4855	15	7917	1	13437	2	4563	31	7117	2	8324	2
14	C6485	8664	49	8854	43	4606	28	3427	57	6638	8	8344	43	4209	54	5445	38	7063	43
15	C1946	10638	16	9685	19	4081	53	4089	39	4416	40	5554	58	3896	57	4407	58	7062	44
16	KMH-2700	11998	4	9867	15	4141	50	4326	32	6030	18	7480	50	5219	7	5439	39	7703	21
17	KMH-509	11855	6	9763	18	3928	57	4240	35	6621	9	9120	37	4599	28	5702	31	7539	28
18	KMH-2559	11789	7	9116	37	4428	45	4680	19	4653	35	8299	45	4752	24	5362	42	7493	29
19	X35A 175	10287	19	9373	31	5226	7	4591	22	6237	15	9541	34	4457	35	6010	26	7560	26
20	X35A 176	10633	17	10703	3	5005	12	5006	9	4631	36	11863	9	4405	41	6182	18	8119	6
21	JKMH 102	9831	36	8776	45	4518	35	4246	34	3801	51	8879	39	4281	46	5145	47	6827	49
22	JKMH 101	8605	50	8748	46	4369	46	4903	14	4191	42	9992	28	5047	11	5700	32	7140	41
23	PRO 379	10197	23	9455	29	5104	10	4788	16	5589	26	11987	7	4215	53	6336	13	7726	19
24	PRO 380	9926	33	9844	16	4510	36	4925	13	6295	13	9875	32	4848	16	6091	22	7621	23
25	S 6668/NH 6668	10688	15	9499	24	6495	1	3706	53	4132	45	12887	3	4588	29	6362	10	7629	22
26	S 6718/NH 6718	11485	9	10115	10	6279	3	3906	48	6442	11	11093	17	4627	27	6469	7	8114	7
27	JH 31291	10091	29	8847	44	4485	40	4575	23	6803	6	9973	29	5864	1	6340	12	7488	31
28	JH 31294	10151	27	9419	30	4842	16	4512	25	4989	32	11075	18	4458	34	5975	27	7551	27
29	JH 12157	8758	48	9201	35	4193	49	4360	29	5240	29	10945	21	5594	3	6066	24	7740	17
30	GH- 1004	8056	53	8190	54	4281	47	3493	56	3802	50	6977	54	4822	19	4675	55	6309	56
31	GH- 1009	8308	52	8402	51	4806	20	4111	38	3610	53	8506	41	5437	5	5294	44	6593	53
32	GH- 1005	7593	55	7895	56	4030	56	4602	21	2737	56	8172	46	5216	8	4951	50	6473	55
33	GH- 1008	7062	58	6680	58	4554	32	3832	49	3419	55	6816	56	5209	9	4766	54	5705	58

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		COIM		ZN 4		UDAI		BANS		GODH		CHHI		JHAB		ZN 5		OV'L	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
34	A 7501	12454	3	10740	2	4738	22	4933	12	4155	44	11289	14	5149	10	6053	25	7802	12
35	NMH-777	10071	30	9328	32	4457	42	4985	11	5096	31	11480	13	4456	37	6095	21	7774	14
36	NMH-713	9437	42	10199	9	4526	34	5247	5	4850	33	9949	30	4961	13	5906	29	8146	5
37	NMH-4040 (White)	9843	35	9028	40	3465	58	4532	24	4253	41	10101	27	4330	45	5336	43	7115	42
38	GK 3090	10159	26	8682	47	4459	41	4354	31	3979	49	6862	55	4778	22	4887	51	7154	40
39	GK 3094	7080	57	8606	48	4965	13	4042	41	4095	47	10423	25	4272	47	5559	33	7252	36
40	Sun - Kranthi	7533	56	8192	53	4780	21	4007	42	3603	54	7319	52	4409	40	4824	52	6513	54
41	CMH08-239	10846	13	9785	17	4925	15	4999	10	5492	27	9171	36	4269	48	5771	30	7381	33
42	CMH08-259	10190	24	9129	36	4537	33	4782	17	5807	21	11028	20	4237	52	6078	23	7416	32
43	CMH08-287	12559	2	10249	8	5262	6	5667	2	7086	4	10444	24	3842	58	6460	8	8146	4
44	CMH08-337	11985	5	10645	4	4493	39	5586	3	5689	25	11793	11	4376	43	6387	9	7916	10
45	KNMH-401091	9554	39	8386	52	4585	31	5223	6	5902	19	10744	22	4865	15	6264	16	6947	48
46	KNMH-4010131	9213	46	9292	33	6494	2	5393	4	4564	38	10617	23	4381	42	6290	14	7321	34
47	CP 111	10227	21	9473	28	4207	48	3723	52	4038	48	10207	26	4794	20	5394	41	7283	35
48	CP 333	12632	1	10974	1	4674	25	3759	51	7255	3	12612	4	4834	18	6627	3	8061	8
49	HP-222	9372	43	9488	26	4453	44	4699	18	5801	22	11214	15	4679	26	6169	19	7563	25
50	DMR NSCH 6	8478	51	8160	55	4507	37	4045	40	4584	37	9918	31	4457	36	5502	37	6689	52
51	DMR NSCH 7	7847	54	7587	57	4820	18	3934	47	1917	58	8125	47	4527	32	4665	56	6254	57
52	BIO-562	11131	11	10466	7	4645	26	3956	45	4542	39	9757	33	4884	14	5557	34	7767	15
53	MCH 44	9631	37	9057	39	4726	23	5039	8	6739	7	12496	5	4047	56	6609	4	7708	20
54	Nidhi Pearl	10743	14	10114	11	4060	54	4180	37	4125	46	9003	38	4255	51	5125	48	7004	46
CHECKS																			
55	PMH 1	10871	12	9585	20	4455	43	4664	20	7302	2	11030	19	4268	49	6344	11	7795	13
56	PMH 3	9354	44	9497	25	4957	14	3955	46	5773	23	11207	16	4759	23	6130	20	7939	9
57	Seedtec 2324	10118	28	9209	34	4716	24	3981	44	5401	28	8331	44	5320	6	5550	35	7489	30
58	BIO 9681	10206	22	8908	42	4109	52	3603	55	6133	17	7596	49	4484	33	5185	45	7194	38
Location Mean		9975		9330		4690		4422		5184		9844		4665		5761		7395	
Mean Stand		31		35		37		29		35		39		31		34		33	
C.D. (5%)		882		1489		440		761		1049		929		676		771		1216	
C.V. (%)		5.46		-		5.8		10.64		12.51		5.84		8.96		-		-	
F (Prob)		0		-		0		0		0		0		0		-		-	
Plot Size		4.8		-		4.8		4.8		4.8		6		4.8		-		-	
AGRONOMY DATA																			
Sowing Date		13-07		-		3-07		9-07		8-07		28-06		7-07		-		-	
Harvest Date		15-11		-		12-10		22-10		13-10		20-10		19-10		-		-	
Irrigation Nos		9		-		-		1		-		-		-		-		-	
Fertilizer Applied N		150		-		90		120		150		120		120		-		-	
Fertilizer Applied P		75		-		60		40		50		60		60		-		-	
Fertilizer Applied K		75		-		-		-		50		40		40		-		-	

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	Ajeet 301	-	-	-	-	-	-	-	-	-	20.6	6.7	-	9.2	24.7	7.6
2	MM1107	-	-	-	-	-	-	28	-	-	15.5	18.5	-	5.7	3.5	6.9
3	M9977	11.9	-	-	-	-	-	46.7	24.2	4.1	40.2	29.6	-	17.3	25.3	16.6
4	PFMH- 97 I 02	-	-	-	-	-	-	30.4	-	-	17.8	-	-	-	13.7	-
5	PFMH- 97 I 09	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-
6	PFMH- 97 I 40	-	-	-	-	-	-	25.8	-	-	6.1	-	4.6	-	1.9	-
7	Bisco -New 704	23.8	29.9	-	9.4	-	-	53.3	-	-	10.4	3.9	3.5	12.8	40.2	12.5
8	Bisco -X9	26.4	-	-	3.3	-	-	45.6	-	-	7.9	-	-	25.5	-	1.8
9	Bisco -X 6525	-	-	-	-	-	-	22.6	27.1	-	10.3	-	-	-	35.7	-
10	Bisco -X-11	-	-	-	-	-	-	61.6	-	-	9.5	-	3.2	7.2	-	2.7
11	HTMH 5101 Sona	7.3	36.9	-	-	-	-	-	8.4	-	-	-	14.1	0.9	5.7	2.3
12	X8B674	11.1	7.1	-	0.8	11.6	-	47.1	-	0.4	1.2	41.2	20.1	4.7	13.2	15.1
13	X8B677	1.7	-	-	-	-	-	28.7	4.9	-	39.4	8.7	-	14.4	1	12.8
14	C6485	-	13.4	-	-	-	-	30.2	-	-	-	-	19.6	-	8	-
15	C1946	-	-	-	-	-	-	4.2	-	-	-	-	10.7	2.6	15.1	1.4
16	KMH-2700	3	5.8	-	-	-	-	35	-	-	28.8	6.2	-	13.5	31.4	14.1
17	KMH-509	10.2	20.8	-	-	-	-	-	-	-	3	-	3.4	-	-	-
18	KMH-2559	13.9	47.3	-	3.5	-	-	70.4	-	-	21.6	-	6.8	18.4	-	10
19	X35A 175	-	55.5	-	-	13.3	-	29.8	-	-	-	13.9	-	-	21.2	-
20	X35A 176	0.2	47.4	-	-	-	-	38.5	-	-	26.2	32.7	-	7.1	14.1	14.7
21	JKMH 102	-	-	-	-	-	-	31.2	-	-	-	16.5	-	8.1	15.7	0.3
22	JKMH 101	-	-	-	-	-	-	31.2	-	-	5.7	-	0.3	5.6	11.5	4.1
23	PRO 379	-	9.3	-	-	3.3	-	31	-	-	22.2	30.9	-	8.7	-	10.4
24	PRO 380	-	48.6	-	-	-	-	16.4	-	-	3.4	25.9	-	9.3	12.7	4.8
25	S 6668/NH 6668	-	22.9	-	-	6	-	19.7	-	-	26.6	-	-	-	38.1	3
26	S 6718/NH 6718	7.9	25.7	4.2	9.9	-	-	22	-	-	10.1	12.7	0.2	18.1	18.7	11.8

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
27	JH 31291	-	29.4	-	-	-	-	25.8	17.9	-	10.4	19.4	24.4	-	5	7.8
28	JH 31294	-	-	-	-	-	-	-	-	-	-	23.9	10.1	19.1	18	13.5
29	JH 12157	-	10.7	-	-	-	-	20.3	19	6	35.5	14.5	-	-	4	6
30	GH- 1004	-	15.9	-	-	-	-	-	-	-	-	-	-	-	-	-
31	GH- 1009	-	7.1	-	-	-	-	26.3	-	-	-	-	-	-	0.2	-
32	GH- 1005	-	6.6	-	-	-	-	-	-	-	0.4	-	11.9	-	-	-
33	GH- 1008	-	-	-	-	-	-	23.6	-	-	-	-	19.1	-	-	-
34	A 7501	-	20.5	-	-	-	-	59.2	-	-	29.1	15.8	-	-	9.2	6.5
35	NMH-777	-	23.3	-	2.8	-	-	32.7	-	-	28.8	21.9	-	-	41	15
36	NMH-713	3.7	36.2	12.8	13.1	-	-	1.1	-	-	21.7	15.4	20.3	32.1	8.6	21.2
37	NMH-4040 (White	-	37.3	-	1.8	-	7	38.2	-	-	22.7	-	-	-	11	0.1
38	GK 3090	-	37.3	-	-	-	-	31.6	-	-	21.5	15.9	27.6	-	1.8	12.9
39	GK 3094	-	29.1	-	-	-	-	20.5	-	-	-	13.5	36.5	0.8	-	9
40	Sun - Kranthi	-	34.6	-	-	-	-	-	-	-	6.4	-	-	-	21.8	-
41	CMH08-239	-	-	-	-	-	-	54.3	-	-	29.3	0.7	-	-	12.6	2.4
42	CMH08-259	-	-	-	-	-	-	42.2	-	-	26.1	16.2	-	-	8.6	3.9
43	CMH08-287	17.2	28.1	-	8.2	-	-	48.2	-	-	13.6	22.6	1.7	8.4	0.5	9.6
44	CMH08-337	-	-	-	-	-	-	62.2	-	-	6.9	27.5	-	19.4	15.2	9.7
45	KNMH-401091	-	-	-	-	-	-	7.7	11.9	-	15.5	-	-	-	-	-
46	KNMH-4010131	-	-	-	-	-	-	48.1	-	-	5.9	-	-	4.1	-	-
47	CP 111	14.4	4.2	-	2.1	-	-	-	-	-	10.9	7.3	-	18.5	16.4	5.5
48	CP 333	1.9	10.9	-	-	-	0.7	7.1	-	-	-	34.9	-	18.7	20	8.5
49	HP-222	-	37	-	0.5	-	-	18.3	-	-	5.3	5.2	-	5	16.7	1.9
50	DMR NSCH 6	-	18	-	-	-	-	-	-	-	-	-	20.6	-	5.5	-
51	DMR NSCH 7	-	-	-	-	-	0.7	14.1	21.5	-	-	-	14.4	-	-	-
52	BIO-562	3.4	-	-	-	-	-	61.8	-	-	29.5	10	6.9	-	22.6	9.1
53	MCH 44	-	7.5	-	-	-	-	38.2	-	-	15.8	39.3	-	5.6	37	14.9
54	Nidhi Pearl	-	-	-	-	-	-	19.8	-	-	24.4	-	4.3	-	3.7	0.1
CHECKS																
55	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	PMH 3	-	7.1	-	-	-	1.6	28	-	-	13	40.2	-	4.3	35.5	16.1
57	Seedtec 2324	10.5	14.1	-	1	-	0.1	31.1	-	-	24.7	-	9.5	-	2.7	2
58	BIO 9681	1.5	3.8	-	-	-	-	31.7	10.9	-	1.4	6.1	-	-	5	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1												OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
1	Ajeet 301	-	-	-	9.1	-	-	-	-	-	-	-	18	-	-
2	MM1107	-	-	8.7	7.5	-	-	-	8.5	9.6	-	10.6	32.6	4	-
3	M9977	12.2	21	1.3	3.8	-	-	3.7	20.6	31	-	27.5	29.4	17.5	8.2
4	PFMH- 97 I 02	-	-	-	-	-	-	-	13.4	-	-	-	3.7	-	-
5	PFMH- 97 I 09	8.8	-	-	18.7	0.1	-	-	0.9	-	-	-	1.8	-	-
6	PFMH- 97 I 40	-	-	-	-	-	-	-	3.7	-	-	-	-	-	-
7	Bisco -New 704	31.4	15	-	25.2	-	3.8	9.5	-	-	-	-	9.9	-	0.4
8	Bisco -X9	18.9	11.8	-	14.4	-	-	-	18.9	-	-	7.2	13.4	-	-
9	Bisco -X 6525	7.4	-	1.7	12.5	-	-	-	3	-	-	-	4	-	-
10	Bisco -X-11	3.5	23.9	6.9	21	-	-	4.6	2.9	-	-	-	7	-	-
11	HTMH 5101 Sona	29.7	13.9	-	13	-	-	-	15.2	-	-	8.7	12.1	2.6	-
12	X8B674	4.9	-	-	22.3	-	5.7	4.3	15.5	-	-	5.5	-	-	4.6
13	X8B677	43.4	8.3	-	7.8	6.8	-	9.6	8.1	4.1	8.4	21.8	6.9	12.2	6.8
14	C6485	-	13.8	1.3	2.8	-	-	-	3.4	-	-	-	-	-	-
15	C1946	13.3	3.3	-	9.4	-	-	1	-	-	-	-	-	-	-
16	KMH-2700	5	-	-	31	5.1	10.4	2.9	-	-	-	-	22.3	-	-
17	KMH-509	-	6.7	-	13.2	-	9.1	1.9	-	-	-	-	7.8	-	-
18	KMH-2559	29.4	-	-	9.8	-	8.5	-	-	0.4	-	-	11.4	-	-
19	X35A 175	11.7	0.5	5.5	1.1	-	-	-	17.3	-	-	-	4.4	-	-
20	X35A 176	28.1	16.3	-	15.4	18.1	-	11.7	12.3	7.3	-	7.6	3.2	-	4.2
21	JKMH 102	0.5	-	-	10.4	-	-	-	1.4	-	-	-	0.3	-	-
22	JKMH 101	4.8	-	-	7.4	-	-	-	-	5.1	-	-	18.3	-	-
23	PRO 379	23	33.8	-	-	-	-	-	14.6	2.7	-	8.7	-	-	-
24	PRO 380	33.7	2.2	-	15.9	-	-	2.7	1.2	5.6	-	-	13.6	-	-
25	S 6668/NH 6668	4.8	2.6	-	5.7	-	-	-	45.8	-	-	16.8	7.5	0.3	-
26	S 6718/NH 6718	-	-	-	20.3	19.8	5.7	5.5	41	-	-	0.6	8.4	2	4.1

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1											ZN 5 MEAN	OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI			JHAB
27	JH 31291	-	15.6	-	4.6	-	-	-	0.7	-	-	-	37.4	-	-
28	JH 31294	3.2	18.8	-	12.4	-	-	-	8.7	-	-	0.4	4.5	-	-
29	JH 12157	4.2	-	1.3	17.6	-	-	-	-	-	-	-	31.1	-	-
30	GH- 1004	-	3.1	-	-	-	-	-	-	-	-	-	13	-	-
31	GH- 1009	-	7	-	8.6	-	-	-	7.9	-	-	-	27.4	-	-
32	GH- 1005	-	1.7	-	-	-	-	-	-	-	-	-	22.2	-	-
33	GH- 1008	-	-	-	-	-	-	-	2.2	-	-	-	22	-	-
34	A 7501	14.5	-	-	27.3	20.4	14.6	12.1	6.4	5.8	-	2.3	20.6	-	0.1
35	NMH-777	3.3	7	-	4.8	-	-	-	0.1	6.9	-	4.1	4.4	-	-
36	NMH-713	0.4	17.8	-	26.5	17.8	-	6.4	1.6	12.5	-	-	16.2	-	4.5
37	NMH-4040 (White)	4.6	-	-	-	5.6	-	-	-	-	-	-	1.5	-	-
38	GK 3090	-	16	-	-	-	-	-	0.1	-	-	-	12	-	-
39	GK 3094	0.3	1.9	-	-	-	-	-	11.5	-	-	-	0.1	-	-
40	Sun - Kranthi	-	2	-	-	-	-	-	7.3	-	-	-	3.3	-	-
41	CMH08-239	0.1	19	0.3	6.3	-	-	2.1	10.6	7.2	-	-	0	-	-
42	CMH08-259	9.2	10.4	-	-	-	-	-	1.9	2.5	-	-	-	-	-
43	CMH08-287	15.6	5.2	4	24.2	-	15.5	6.9	18.1	21.5	-	-	-	1.8	4.5
44	CMH08-337	12.8	5.6	9.5	14.3	13.3	10.2	11.1	0.8	19.8	-	6.9	2.6	0.7	1.6
45	KNMH-401091	-	-	-	-	-	-	-	2.9	12	-	-	14	-	-
46	KNMH-4010131	8.1	16.6	-	-	-	-	-	45.8	15.6	-	-	2.7	-	-
47	CP 111	18	-	-	10.1	-	-	-	-	-	-	-	12.3	-	-
48	CP 333	26.2	-	-	36.1	16.1	16.2	14.5	4.9	-	-	14.3	13.3	4.5	3.4
49	HP-222	11.4	20.8	6.2	-	-	-	-	-	0.8	-	1.7	9.6	-	-
50	DMR NSCH 6	-	-	-	-	-	-	-	1.2	-	-	-	4.4	-	-
51	DMR NSCH 7	-	-	-	-	-	-	-	8.2	-	-	-	6.1	-	-
52	BIO-562	34.6	9.5	-	18.1	5.4	2.4	9.2	4.3	-	-	-	14.4	-	-
53	MCH 44	34.1	-	-	-	-	-	-	6.1	8	-	13.3	-	4.2	-
54	Nidhi Pearl	12.6	5.9	2.4	10.8	4	-	5.5	-	-	-	-	-	-	-
CHECKS															
55	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	PMH 3	6.3	9.9	-	3.4	3.4	-	-	11.3	-	-	1.6	11.5	-	1.8
57	Seedtec 2324	0.1	-	-	-	-	-	-	5.9	-	-	-	24.7	-	-
58	BIO 9681	-	12.6	-	5.3	2.2	-	-	-	-	-	-	5.1	-	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	Ajeet 301	-	-	-	-	-	-	-	-	-	6.6	-	-	4.7	-	-
2	MM1107	8	-	-	-	-	-	-	-	-	2.2	-	-	1.4	-	-
3	M9977	21.2	-	-	1.8	-	-	14.6	24.8	4.6	24	-	-	12.5	-	0.5
4	PFMH- 97 I 02	-	-	-	-	-	-	1.8	-	-	4.2	-	-	-	-	-
5	PFMH- 97 I 09	5.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	PFMH- 97 I 40	5.4	-	-	-	-	-	-	-	-	-	-	5.4	-	-	-
7	Bisco -New 704	34.1	21.2	-	13.3	-	-	19.7	-	-	-	-	4.4	8.2	3.4	-
8	Bisco -X9	36.9	-	-	7	-	-	13.8	-	-	-	-	-	20.3	-	-
9	Bisco -X 6525	-	-	-	-	-	-	-	27.7	-	-	-	-	-	0.1	-
10	Bisco -X-11	-	-	-	-	-	-	26.2	-	-	-	-	4	2.8	-	-
11	HTMH 5101 Sona	16.2	27.8	-	3.2	-	-	-	8.9	-	-	-	15	-	-	-
12	X8B674	20.3	-	-	4.4	13.4	-	14.9	-	0.8	-	0.7	21.1	0.4	-	-
13	X8B677	10.1	-	-	-	-	-	0.5	5.3	-	23.3	-	-	9.7	-	-
14	C6485	-	5.8	-	-	-	-	1.7	-	-	-	-	20.5	-	-	-
15	C1946	-	-	-	-	-	-	-	-	-	-	-	11.6	-	-	-
16	KMH-2700	11.6	-	-	1.9	-	-	5.5	-	-	13.9	-	-	8.8	-	-
17	KMH-509	19.4	12.7	-	2.9	-	-	-	-	-	-	-	4.2	-	-	-
18	KMH-2559	23.4	37.5	-	7.1	-	-	33.1	-	-	7.6	-	7.6	13.6	-	-
19	X35A 175	-	45.1	-	-	15.1	-	1.4	-	-	-	-	-	-	-	-
20	X35A 176	8.5	37.6	-	-	-	-	8.2	-	-	11.7	-	-	2.7	-	-
21	JKMH 102	-	-	-	-	-	-	2.5	-	-	-	-	-	3.7	-	-
22	JKMH 101	-	-	-	-	-	-	2.4	-	-	-	-	1.1	1.2	-	-
23	PRO 379	-	2.1	-	-	4.9	-	2.3	-	-	8.1	-	-	4.2	-	-
24	PRO 380	-	38.7	-	-	-	-	-	-	-	-	-	-	4.9	-	-
25	S 6668/NH 6668	6.2	14.7	-	-	7.8	-	-	-	-	12	-	-	-	1.9	-
26	S 6718/NH 6718	16.9	17.3	8.1	13.8	-	-	-	-	-	-	-	1	13.2	-	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3														
		ZN 1					ZN 2					ZN 3				
		BAJA	BARA	KANG	MEAN	DELH	KARN	PANT	KANP	MEAN	BAHR	DHOL	VARA	RANC	AMBI	MEAN
27	JH 31291	-	20.8	-	-	-	-	-	18.4	-	-	-	25.4	-	-	-
28	JH 31294	3.6	-	-	-	-	-	-	-	-	-	-	10.9	14.2	-	-
29	JH 12157	2.9	3.3	-	-	1.1	-	-	19.5	6.5	19.8	-	-	-	-	-
30	GH- 1004	-	8.2	-	-	-	-	-	-	-	-	-	-	-	-	-
31	GH- 1009	0.2	0	-	-	-	-	-	-	-	-	-	-	-	-	-
32	GH- 1005	-	-	-	-	-	-	-	-	-	-	-	12.8	-	-	-
33	GH- 1008	-	-	-	-	-	-	-	-	-	-	-	20	-	-	-
34	A 7501	-	12.5	-	-	-	-	24.3	-	-	14.2	-	-	-	-	-
35	NMH-777	4.8	15.1	3.5	6.5	-	-	3.6	-	-	14	-	-	-	4	-
36	NMH-713	12.3	27.2	17	17.1	-	-	-	-	-	7.7	-	21.2	26.7	-	4.4
37	NMH-4040 (White	7.4	28.2	-	5.4	-	5.3	8	-	-	8.6	-	-	-	-	-
38	GK 3090	-	28.2	-	-	-	-	2.8	-	-	7.4	-	28.6	-	-	-
39	GK 3094	-	20.5	-	-	-	-	-	-	-	-	-	37.6	-	-	-
40	Sun - Kranthi	-	25.6	-	-	-	-	-	-	-	-	-	-	-	-	-
41	CMH08-239	2.9	-	-	-	-	-	20.5	-	-	14.4	-	-	-	-	-
42	CMH08-259	-	-	-	-	-	-	11.1	-	-	11.6	-	-	-	-	-
43	CMH08-287	26.9	19.5	-	12	-	-	15.7	-	-	0.5	-	2.5	3.9	-	-
44	CMH08-337	-	-	-	-	-	-	26.6	-	-	-	-	-	14.5	-	-
45	KNMH-401091	5.9	-	-	-	-	-	-	12.4	-	2.2	-	-	-	-	-
46	KNMH-4010131	-	-	3.1	-	-	-	15.6	-	-	-	-	-	-	-	-
47	CP 111	23.9	-	-	5.7	-	-	-	-	-	-	-	-	13.6	-	-
48	CP 333	10.4	3.5	-	0.2	-	-	-	-	-	-	-	-	13.8	-	-
49	HP-222	7.4	27.9	-	4	-	-	-	-	-	-	-	-	0.6	-	-
50	DMR NSCH 6	-	10.1	-	-	-	-	-	-	-	-	-	21.6	-	-	-
51	DMR NSCH 7	-	-	-	-	-	-	-	22	-	-	-	15.3	-	-	-
52	BIO-562	12	-	-	-	-	-	26.4	-	-	14.6	-	7.7	-	-	-
53	MCH 44	-	0.3	-	-	-	-	8	-	-	2.4	-	-	1.3	1.1	-
54	Nidhi Pearl	-	-	-	-	-	-	-	-	-	10	-	5.1	-	-	-
	CHECKS															
55	PMH 1	8.3	-	3.7	3.5	1.6	-	-	0.4	0.4	-	-	0.8	-	-	-
56	PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
57	Seedtec 2324	19.7	6.5	-	4.6	-	-	2.4	-	-	10.4	-	10.4	-	-	-
58	BIO 9681	10	-	-	0.5	-	-	2.9	11.4	-	-	-	-	-	-	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3											ZN5 MEAN	OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN4 MEAN	UDAI	BANS	GODH	CHHI			JHAB
1	Ajeet 301	-	-	-	5.5	-	-	-	-	-	-	-	5.8	-	-
2	MM1107	-	-	21.1	3.9	-	5.8	-	-	29.2	-	8.8	18.9	7.6	-
3	M9977	5.5	10.2	12.7	0.4	-	6.2	4.6	8.4	54.4	7.2	25.5	16	21.5	6.2
4	PFMH- 97 I 02	-	-	5.3	-	-	-	-	1.9	-	20.4	-	-	-	-
5	PFMH- 97 I 09	2.4	-	-	14.8	-	9.8	-	-	11.7	12.6	-	-	-	-
6	PFMH- 97 I 40	-	-	3.7	-	-	8.6	-	-	-	2.2	-	-	-	-
7	Bisco -New 704	23.7	4.7	2.9	21.1	-	20.6	10.5	-	11.2	-	-	-	-	-
8	Bisco -X9	11.9	1.7	-	10.6	-	1	0.4	6.9	7.9	-	5.5	1.7	0.9	-
9	Bisco -X 6525	1.1	-	13.2	8.8	-	2.6	0.1	-	1.1	-	-	-	-	-
10	Bisco -X-11	-	12.8	19	17	-	7.3	5.6	-	13.7	-	-	-	-	-
11	HTMH 5101 Sona	22.1	3.7	2.1	9.3	-	1.5	0.6	3.6	10.2	8.8	6.9	0.6	6.2	-
12	X8B674	-	-	7.3	18.3	-	22.8	5.3	3.8	6.1	11	3.8	-	2.6	2.7
13	X8B677	34.9	-	6.8	4.3	3.2	13.5	10.6	-	22.7	37.1	19.9	-	16.1	4.9
14	C6485	-	3.6	12.8	-	-	-	-	-	-	15	-	-	-	-
15	C1946	6.6	-	8.8	5.7	-	13.7	2	-	3.4	-	-	-	-	-
16	KMH-2700	-	-	-	26.7	1.7	28.3	3.9	-	9.4	4.4	-	9.7	-	-
17	KMH-509	-	-	5.7	9.5	-	26.7	2.8	-	7.2	14.7	-	-	-	-
18	KMH-2559	21.7	-	-	6.1	-	26	-	-	18.3	-	-	-	-	-
19	X35A 175	5.1	-	17.5	-	-	10	-	5.4	16.1	8	-	-	-	-
20	X35A 176	20.6	5.8	8.7	11.6	14.2	13.7	12.7	1	26.6	-	5.9	-	0.8	2.3
21	JKMH 102	-	-	-	6.8	-	5.1	-	-	7.4	-	-	-	-	-
22	JKMH 101	-	-	8.7	3.8	-	-	-	-	24	-	-	6.1	-	-
23	PRO 379	15.8	21.8	1	-	-	9	-	3	21.1	-	7	-	3.4	-
24	PRO 380	25.9	-	2.4	12.1	-	6.1	3.7	-	24.5	9	-	1.9	-	-
25	S 6668/NH 6668	-	-	9.4	2.2	-	14.3	0	31	-	-	15	-	3.8	-
26	S 6718/NH 6718	-	-	3	16.3	15.8	22.8	6.5	26.7	-	11.6	-	-	5.5	2.2

TABLE No. 1 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE PMH 3														
S1														
No	PEDIGREE	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN
27	JH 31291	-	5.2	5.2	1.2	-	7.9	-	-	15.7	17.8	-	23.2	3.4
28	JH 31294	-	8.1	6.8	8.6	-	8.5	-	-	14.1	-	-	-	-
29	JH 12157	-	-	12.7	13.7	-	-	-	-	10.2	-	-	17.6	-
30	GH- 1004	-	-	2.3	-	-	-	-	-	-	-	-	1.3	-
31	GH- 1009	-	-	7	5	-	-	-	-	3.9	-	-	14.3	-
32	GH- 1005	-	-	9	-	-	-	-	-	16.4	-	-	9.6	-
33	GH- 1008	-	-	-	-	-	-	-	-	-	-	-	9.5	-
34	A 7501	7.7	-	9.5	23.1	16.4	33.1	13.1	-	24.7	-	0.7	8.2	-
35	NMH-777	-	-	7.3	1.3	-	7.7	-	-	26	-	2.4	-	-
36	NMH-713	-	7.2	5.9	22.4	13.9	0.9	7.4	-	32.6	-	-	4.3	2.6
37	NMH-4040 (White)	-	-	-	-	2.1	5.2	-	-	14.6	-	-	-	-
38	GK 3090	-	5.6	-	-	-	8.6	-	-	10.1	-	-	0.4	-
39	GK 3094	-	-	2.4	-	-	-	-	0.2	2.2	-	-	-	-
40	Sun - Kranthi	-	-	6.9	-	-	-	-	-	1.3	-	-	-	-
41	CMH08-239	-	8.3	11.7	2.8	-	16	3	-	26.4	-	-	-	-
42	CMH08-259	2.7	0.5	-	-	-	8.9	-	-	20.9	0.6	-	-	-
43	CMH08-287	8.8	-	15.7	20.1	-	34.3	7.9	6.1	43.3	22.7	-	-	5.4
44	CMH08-337	6.1	-	21.9	10.5	9.5	28.1	12.1	-	41.2	-	5.2	-	4.2
45	KNMH-401091	-	-	1	-	-	2.1	-	-	32.1	2.2	-	2.2	2.2
46	KNMH-4010131	1.8	6.1	7.7	-	-	-	-	31	36.3	-	-	-	2.6
47	CP 111	11	-	2.5	6.5	-	9.3	-	-	-	-	-	0.7	-
48	CP 333	18.8	-	7.7	31.6	12.3	35.1	15.6	-	-	25.7	12.5	1.6	8.1
49	HP-222	4.9	10	18.2	-	-	0.2	-	-	18.8	0.5	0.1	-	0.6
50	DMR NSCH 6	-	-	9.5	-	-	-	-	-	2.3	-	-	-	-
51	DMR NSCH 7	-	-	-	-	-	-	-	-	-	-	-	-	-
52	BIO-562	26.6	-	-	14.2	1.9	19	10.2	-	0	-	-	2.6	-
53	MCH 44	26.2	-	7.2	-	-	3	-	-	27.4	16.7	11.5	-	7.8
54	Nidhi Pearl	6	-	14	7.2	0.6	14.9	6.5	-	5.7	-	-	-	-
	CHECKS													
55	PMH 1	-	-	11.3	-	-	16.2	0.9	-	17.9	26.5	-	-	3.5
56	PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-
57	Seedtec 2324	-	-	10	-	-	8.2	-	-	0.7	-	-	11.8	-
58	BIO 9681	-	2.4	-	1.8	-	9.1	-	-	-	6.2	-	-	-

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	Ajeet 301	-	-	-	-	-	-	-	3.4	-	-	36.9	-	15.2	21.4	5.5
2	MM1107	-	-	12.1	-	-	-	-	-	-	-	52	-	11.5	0.8	4.8
3	M9977	1.2	-	9.8	-	8.8	-	11.9	31.7	12.1	12.4	66.2	-	23.7	22.1	14.3
4	PFMH- 97 I 02	-	-	-	-	-	-	-	-	-	-	7	-	0.3	10.7	-
5	PFMH- 97 I 09	-	-	15.1	-	-	-	-	-	-	-	22.7	-	4.7	-	-
6	PFMH- 97 I 40	-	-	10.7	-	-	-	-	2.7	-	-	2.8	-	-	-	-
7	Bisco -New 704	12	13.8	-	8.3	-	-	16.9	-	-	-	33.2	-	19	36.5	10.3
8	Bisco -X9	14.4	-	14.9	2.3	0.1	-	11.1	0.8	-	-	22.2	-	32.4	-	-
9	Bisco -X 6525	-	-	9.4	-	-	-	-	34.7	2.8	-	7.8	-	-	32.1	-
10	Bisco -X-11	-	-	9.7	-	-	-	23.3	-	-	-	18	-	13.1	-	0.7
11	HTMH 5101 Sona	-	20	-	-	-	-	-	14.9	-	-	18.5	4.1	6.5	3	0.3
12	X8B674	0.5	-	2.8	-	28	-	12.2	-	8.1	-	81.1	9.7	10.4	10.2	12.9
13	X8B677	-	-	11.4	-	-	-	-	11.1	3.1	11.7	39.4	-	20.7	-	10.6
14	C6485	-	-	-	-	-	-	-	-	-	-	14.3	9.2	-	5.2	-
15	C1946	-	-	-	-	-	-	-	0.9	-	-	6.7	1.1	8.2	12.1	-
16	KMH-2700	-	-	7.8	-	2.8	-	3	-	-	3.2	36.2	-	19.7	28	11.8
17	KMH-509	-	5.9	-	-	-	-	-	-	-	-	23.3	-	-	-	-
18	KMH-2559	3.1	29.1	-	2.4	-	-	30	-	-	-	24.9	-	25	-	7.8
19	X35A 175	-	36.3	-	-	29.9	-	-	-	5.7	-	46.1	-	-	18.1	-
20	X35A 176	-	29.2	-	-	-	-	5.7	-	-	1.2	70.2	-	13	11.1	12.5
21	JKMH 102	-	-	-	-	0.5	-	0.1	-	-	-	49.4	-	14.1	12.6	-
22	JKMH 101	-	-	5.1	-	-	-	0	-	-	-	27	-	11.4	8.5	2.1
23	PRO 379	-	-	-	-	18.4	-	-	5.2	4.8	-	67.8	-	14.6	-	8.3
24	PRO 380	-	30.2	-	-	-	-	-	-	-	-	61.5	-	15.4	9.8	2.8
25	S 6668/NH 6668	-	7.7	-	-	21.6	-	-	-	-	1.5	20.1	-	3.8	34.5	1
26	S 6718/NH 6718	-	10.2	26.1	8.8	-	-	-	-	-	-	44.5	-	24.6	15.6	9.7

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
27	JH 31291	-	13.4	-	-	-	-	-	24.9	1.9	-	53.2	13.6	-	2.2	5.7
28	JH 31294	-	-	11.4	-	-	-	-	-	-	-	58.9	0.5	25.7	14.9	11.3
29	JH 12157	-	-	9.9	-	14	-	-	26.1	14.2	8.6	46.8	-	2.2	1.3	4
30	GH- 1004	-	1.5	-	-	-	-	-	-	-	-	21.5	-	-	-	-
31	GH- 1009	-	-	1	-	-	-	-	-	-	-	17.6	-	-	-	-
32	GH- 1005	-	-	-	-	-	-	-	-	-	-	-	2.2	-	-	-
33	GH- 1008	-	-	-	-	-	-	-	-	-	-	-	8.7	-	-	-
34	A 7501	-	5.6	-	-	-	-	21.4	-	-	3.5	48.5	-	3.5	6.4	4.4
35	NMH-777	-	8.1	20.7	1.8	-	-	1.2	-	-	3.3	56.3	-	4.8	37.3	12.7
36	NMH-713	-	19.4	36.5	11.9	-	-	-	-	-	-	48	9.8	39.4	5.8	18.8
37	NMH-4040 (White)	-	20.4	4.8	0.7	-	6.9	5.4	-	-	-	23	-	-	8.1	-
38	GK 3090	-	20.3	-	-	-	-	0.4	-	-	-	48.6	16.5	3.7	-	10.7
39	GK 3094	-	13.2	-	-	9.5	-	-	-	-	-	45.5	24.6	6.3	-	6.9
40	Sun - Kranthi	-	18	-	-	-	-	-	-	-	-	25.6	-	-	18.6	-
41	CMH08-239	-	-	3	-	-	-	17.7	-	-	3.7	29.2	-	1	9.7	0.4
42	CMH08-259	-	-	11.9	-	0.2	-	8.5	0.2	-	1.1	49	-	-	5.8	1.9
43	CMH08-287	6.1	12.2	5.2	7.1	8.5	-	13	-	-	-	57.2	-	14.3	-	7.5
44	CMH08-337	-	-	10.3	-	-	-	23.7	-	-	-	63.5	-	25.9	12.2	7.6
45	KNMH-401091	-	-	-	-	-	-	-	18.6	3	-	19.1	-	-	-	-
46	KNMH-4010131	-	-	20.3	-	5.6	-	12.9	-	-	-	14.3	-	9.8	-	-
47	CP 111	3.6	-	3.9	1.1	-	-	-	-	-	-	37.6	-	25	13.3	3.5
48	CP 333	-	-	0.8	-	-	0.6	-	-	-	-	73	-	25.2	16.9	6.4
49	HP-222	-	20.1	0.9	-	-	-	-	-	-	-	34.9	-	10.7	13.6	-
50	DMR NSCH 6	-	3.4	-	-	-	-	-	-	-	-	1.1	10.1	-	2.7	-
51	DMR NSCH 7	-	-	-	-	-	0.6	-	28.7	-	-	-	4.4	-	-	-
52	BIO-562	-	-	6	-	-	-	23.4	-	-	3.8	41.1	-	-	19.4	6.9
53	MCH 44	-	-	-	-	0.8	-	5.4	-	-	-	78.6	-	11.4	33.5	12.7
54	Nidhi Pearl	-	-	-	-	-	-	-	-	-	-	-	-	1.8	0.9	-
CHECKS																
55	PMH 1	-	-	21	-	14.7	-	-	6	7.7	-	28.3	-	5.5	-	-
56	PMH 3	-	-	16.7	-	12.8	1.5	-	5.5	7.2	-	79.8	-	10	32	13.8
57	Seedtec 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	BIO 9681	-	-	6.5	-	-	-	0.5	17.5	-	-	36	-	0.7	2.3	-

TABLE No. 1 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324															
Sl No	PEDIGREE	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN
1	Ajeet 301	-	-	-	20.2	-	-	-	-	-	-	-	-	-	-
2	MM1107	-	-	10	18.4	-	-	-	2.5	28.4	-	46.4	6.4	18.9	1.5
3	M9977	12	29.8	2.5	14.3	-	-	7.9	13.9	53.4	14.5	68.8	3.8	34.2	12.6
4	PFMH- 97 I 02	-	5	-	-	-	-	-	7.1	-	28.7	13.8	-	7	-
5	PFMH- 97 I 09	8.6	-	-	30.8	0.3	1.5	3	-	10.9	20.3	-	-	-	-
6	PFMH- 97 I 40	-	1	-	7.4	-	0.4	-	-	-	9.3	-	-	-	-
7	Bisco -New 704	31.2	23.4	-	37.9	-	11.5	14	-	10.5	6.4	4.4	-	-	4.5
8	Bisco -X9	18.7	19.9	-	26	-	-	3.5	12.4	7.2	-	41.9	-	11.5	3.2
9	Bisco -X 6525	7.3	0.6	2.9	23.9	-	-	3.2	-	0.4	-	0.5	-	-	-
10	Bisco -X-11	3.4	32.9	8.2	33.3	-	-	8.9	-	13	-	-	-	-	-
11	HTMH 5101 Sona	29.5	22.2	-	24.5	-	-	3.8	8.8	9.5	16.3	43.8	-	17.3	3.5
12	X8B674	4.7	6.5	-	34.7	-	13.5	8.6	9.1	5.4	18.6	39.7	-	13.3	8.9
13	X8B677	43.2	16.2	-	18.8	7	4.9	14.1	2.1	21.9	46.6	61.3	-	28.2	11.1
14	C6485	-	22.1	2.5	13.2	-	-	-	-	-	22.9	0.2	-	-	-
15	C1946	13.1	10.7	-	20.5	-	5.1	5.2	-	2.7	-	-	-	-	-
16	KMH-2700	4.9	-	-	44.3	5.4	18.6	7.1	-	8.6	11.6	-	-	-	2.9
17	KMH-509	-	14.4	-	24.7	-	17.2	6	-	6.5	22.6	9.5	-	2.7	0.7
18	KMH-2559	29.2	-	-	20.9	-	16.5	-	-	17.6	-	-	-	-	0.1
19	X35A 175	11.5	7.7	6.8	11.4	-	1.7	1.8	10.8	15.3	15.5	14.5	-	8.3	1
20	X35A 176	27.9	24.7	-	27.1	18.5	5.1	16.2	6.1	25.7	-	42.4	-	11.4	8.4
21	JKMH 102	0.4	1	-	21.6	-	-	-	-	6.6	-	6.6	-	-	-
22	JKMH 101	4.7	-	-	18.3	-	-	-	-	23.2	-	19.9	-	2.7	-
23	PRO 379	22.9	43.5	-	9.7	-	0.8	2.7	8.2	20.3	3.5	43.9	-	14.2	3.2
24	PRO 380	33.6	9.6	-	27.7	-	-	6.9	-	23.7	16.6	18.5	-	9.7	1.8
25	S 6668/NH 6668	4.6	10.1	-	16.4	-	5.6	3.1	37.7	-	-	54.7	-	14.6	1.9
26	S 6718/NH 6718	-	1.9	-	32.5	20.1	13.5	9.8	33.2	-	19.3	33.2	-	16.6	8.3

TABLE No. 1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324												OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
27	JH 31291	-	24	-	15.3	-	-	-	-	14.9	26	19.7	10.2	14.2	-
28	JH 31294	3	27.4	-	23.8	-	0.3	2.3	2.7	13.3	-	32.9	-	7.7	0.8
29	JH 12157	4	-	2.5	29.5	-	-	-	-	9.5	-	31.4	5.2	9.3	3.3
30	GH- 1004	-	10.6	-	-	-	-	-	-	-	-	-	-	-	-
31	GH- 1009	-	14.7	-	19.6	-	-	-	1.9	3.3	-	2.1	2.2	-	-
32	GH- 1005	-	9	-	-	-	-	-	-	15.6	-	-	-	-	-
33	GH- 1008	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	A 7501	14.3	2	-	40.2	20.7	23.1	16.6	0.5	23.9	-	35.5	-	9.1	4.2
35	NMH-777	3.1	14.7	-	15.4	-	-	1.3	-	25.2	-	37.8	-	9.8	3.8
36	NMH-713	0.3	26.3	-	39.4	18.1	-	10.7	-	31.8	-	19.4	-	6.4	8.8
37	NMH-4040 (White)	4.4	-	-	2.7	5.9	-	-	-	13.8	-	21.2	-	-	-
38	GK 3090	-	24.4	-	-	-	0.4	-	-	9.4	-	-	-	-	-
39	GK 3094	0.1	9.3	-	8.6	-	-	-	5.3	1.5	-	25.1	-	0.2	-
40	Sun - Kranthi	-	9.4	-	2.1	-	-	-	1.4	0.6	-	-	-	-	-
41	CMH08-239	-	27.6	1.5	17.1	-	7.2	6.3	4.4	25.6	1.7	10.1	-	4	-
42	CMH08-259	9	18.4	-	9.5	-	0.7	-	-	20.1	7.5	32.4	-	9.5	-
43	CMH08-287	15.5	12.8	5.2	36.9	-	24.1	11.3	11.6	42.3	31.2	25.4	-	16.4	8.8
44	CMH08-337	12.6	13.2	10.8	25.9	13.6	18.4	15.6	-	40.3	5.3	41.6	-	15.1	5.7
45	KNMH-401091	-	1	-	-	-	-	-	-	31.2	9.3	29	-	12.9	-
46	KNMH-4010131	8	25	-	-	-	-	0.9	37.7	35.4	-	27.4	-	13.3	-
47	CP 111	17.8	-	-	21.3	-	1.1	2.9	-	-	-	22.5	-	-	-
48	CP 333	26	0.4	-	49.9	16.4	24.8	19.2	-	-	34.3	51.4	-	19.4	7.6
49	HP-222	11.3	29.6	7.4	3.8	-	-	3	-	18	7.4	34.6	-	11.2	1
50	DMR NSCH 6	-	-	-	-	-	-	-	-	1.6	-	19	-	-	-
51	DMR NSCH 7	-	-	-	-	-	-	-	2.2	-	-	-	-	-	-
52	BIO-562	34.4	17.4	-	30.1	5.6	10	13.6	-	-	-	17.1	-	0.1	3.7
53	MCH 44	33.9	0.3	-	-	-	-	-	0.2	26.6	24.8	50	-	19.1	2.9
54	Nidhi Pearl	12.5	13.6	3.6	22.1	4.3	6.2	9.8	-	5	-	8.1	-	-	-
CHECKS															
55	PMH 1	-	7.2	1.2	10.2	0.3	7.4	4.1	-	17.1	35.2	32.4	-	14.3	4.1
56	PMH 3	6.1	17.8	-	13.9	3.7	-	3.1	5.1	-	6.9	34.5	-	10.5	6
57	Seedtec 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
58	BIO 9681	-	20.7	-	16	2.4	0.9	-	-	-	13.5	-	-	-	-

TABLE No.1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	Ajeet 301	-	-	-	-	-	5.5	-	-	-	18.9	0.6	-	14.4	18.7	10.5
2	MM1107	-	-	5.3	-	6.7	2.5	-	-	-	13.9	11.7	10.7	10.7	-	9.8
3	M9977	10.2	-	3.1	1.3	24.5	-	11.4	12.1	13.2	38.3	22.2	-	22.8	19.3	19.8
4	PFMH- 97 I 02	-	-	-	-	-	-	-	-	-	16.2	-	-	-	8.2	-
5	PFMH- 97 I 09	-	-	8.1	-	-	2.9	-	-	-	7.5	-	-	3.9	-	-
6	PFMH- 97 I 40	-	-	4	-	-	-	-	-	-	4.6	-	26.4	-	-	-
7	Bisco -New 704	21.9	25.2	-	12.8	8.7	-	16.3	-	-	8.9	-	25.2	18.1	33.5	15.6
8	Bisco -X9	24.5	-	7.9	6.5	14.6	4.5	10.6	-	-	6.4	-	-	31.4	-	4.5
9	Bisco -X 6525	-	-	2.7	-	-	13.7	-	14.7	3.8	8.8	-	-	-	29.2	-
10	Bisco -X-11	-	-	3.1	-	-	8.2	22.7	-	-	8	-	24.8	12.3	-	5.5
11	HTMH 5101 Sona	5.7	31.9	-	2.7	-	-	-	-	-	-	-	37.9	5.7	0.7	5.1
12	X8B674	9.4	3.2	-	3.9	46.5	11.3	11.7	-	9.1	-	33.1	45.3	9.6	7.7	18.2
13	X8B677	0.1	-	4.6	-	14	9.4	-	-	4.1	37.5	2.5	15.9	19.8	-	15.9
14	C6485	-	9.3	-	-	-	13.3	-	-	-	-	-	44.6	-	2.8	2.6
15	C1946	-	-	-	-	-	-	-	-	-	-	-	33.9	7.4	9.6	4.2
16	KMH-2700	1.5	2	1.2	1.5	17.6	-	2.5	-	-	27	0.1	15.4	18.9	25.1	17.1
17	KMH-509	8.6	16.4	-	2.4	-	14.6	-	-	-	1.6	-	25	-	-	1.3
18	KMH-2559	12.2	42	-	6.6	-	11.7	29.3	-	-	20	-	29.1	24	-	13
19	X35A 175	-	49.8	-	-	48.7	7.8	-	-	6.7	-	7.4	-	-	15.4	0.2
20	X35A 176	-	42.1	-	-	8.7	5.5	5.1	-	-	24.5	25.1	17.6	12.2	8.6	17.8
21	JKMH 102	-	-	-	-	15	-	-	-	-	-	9.9	-	13.3	10.1	3
22	JKMH 101	-	-	-	-	8.4	-	-	-	-	4.2	-	21.3	10.6	6.1	6.9
23	PRO 379	-	5.4	-	-	35.5	-	-	-	5.8	20.5	23.4	9.7	13.8	-	13.4
24	PRO 380	-	43.2	-	-	10.2	3.3	-	-	-	1.9	18.7	-	14.5	7.3	7.6
25	S 6668/NH 6668	-	18.4	-	-	39.2	-	-	-	-	24.8	-	-	3.1	31.5	5.8
26	S 6718/NH 6718	6.3	21.1	18.4	13.3	-	-	-	-	-	8.6	6.3	21.2	23.7	13	14.9

TABLE No.1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681														
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
27	JH 31291	-	24.7	-	-	3.7	-	-	6.3	2.9	8.9	12.6	50.4	-	-	10.7
28	JH 31294	-	-	4.6	-	-	1.4	-	-	-	-	16.8	33.1	24.7	12.3	16.6
29	JH 12157	-	6.7	3.2	-	30.5	9.5	-	7.3	15.3	33.6	7.9	-	1.4	-	8.9
30	GH- 1004	-	11.7	-	-	-	-	-	-	-	-	-	11.4	-	-	-
31	GH- 1009	-	3.2	-	-	-	5	-	-	-	-	-	10.5	-	-	-
32	GH- 1005	-	2.7	-	-	-	-	-	-	-	-	-	35.3	-	-	-
33	GH- 1008	-	-	-	-	-	-	-	-	-	-	-	44	-	-	-
34	A 7501	-	16.2	-	-	-	1.3	20.8	-	-	27.4	9.2	1.8	2.7	4	9.4
35	NMH-777	-	18.9	13.4	6	-	7.7	0.7	-	-	27.1	14.9	17.7	4	34.2	18.1
36	NMH-713	2.1	31.3	28.2	16.6	-	-	-	-	-	20.1	8.8	45.4	38.4	3.4	24.4
37	NMH-4040 (White)	-	32.3	-	4.9	-	22.6	4.9	-	-	21	-	10.4	-	5.7	2.8
38	GK 3090	-	32.3	-	-	-	-	-	-	-	19.8	9.3	54.2	2.9	-	15.9
39	GK 3094	-	24.4	-	-	25.4	6.6	-	-	0.9	-	7	65.1	5.5	-	12
40	Sun - Kranthi	-	29.7	-	-	-	1.4	-	-	-	4.9	-	13.2	-	15.9	2.6
41	CMH08-239	-	-	-	-	-	1.9	17.2	-	-	27.5	-	-	0.3	7.2	5.2
42	CMH08-259	-	-	5.1	-	14.7	-	7.9	-	-	24.4	9.5	4	-	3.4	6.7
43	CMH08-287	15.4	23.4	-	11.5	24.2	-	12.5	-	-	12.1	15.6	23	13.5	-	12.6
44	CMH08-337	-	-	3.5	-	5.9	-	23.1	-	-	5.5	20.2	-	25	9.7	12.7
45	KNMH-401091	-	-	-	-	8.3	4.1	-	1	4	13.9	-	-	-	-	-
46	KNMH-4010131	-	-	12.9	-	20.9	12	12.4	-	-	4.5	-	-	9	-	-
47	CP 111	12.7	0.5	-	5.3	-	-	-	-	-	9.4	1.2	-	24.1	10.8	8.4
48	CP 333	0.4	6.9	-	-	-	15.5	-	-	-	-	27.2	9	24.3	14.3	11.4
49	HP-222	-	32.1	-	3.6	11.9	-	-	-	-	3.8	-	-	9.9	11.1	4.7
50	DMR NSCH 6	-	13.7	-	-	-	7.4	-	-	-	-	-	45.8	-	0.4	0.3
51	DMR NSCH 7	-	-	-	-	-	15.4	-	9.6	-	-	-	38.3	-	-	-
52	BIO-562	1.9	-	-	-	-	0.1	22.8	-	-	27.7	3.7	29.2	-	16.7	12
53	MCH 44	-	3.6	-	-	15.4	4.6	4.9	-	-	14.2	31.3	7.5	10.6	30.5	18
54	Nidhi Pearl	-	-	-	-	-	1.4	-	-	-	22.7	-	26.1	1	-	2.8
CHECKS																
55	PMH 1	-	-	13.6	3.1	31.3	14.6	-	-	8.7	-	-	20.9	4.7	-	2.7
56	PMH 3	-	3.2	9.6	-	29.2	16.5	-	-	8.3	11.5	32.2	20	9.2	29	19.2
57	Seedtec 2324	8.8	10	-	4.1	14.5	14.8	-	-	1	23	-	32.4	-	-	4.7
58	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No.1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681											ZN 5 MEAN	OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI			JHAB
1	Ajeet 301	2.9	-	20.1	3.6	-	-	-	0.7	-	-	5	12.3	-	-
2	MM1107	13.6	-	61	2	-	-	2	17.7	41.8	-	60.6	26.2	27.2	5.6
3	M9977	37.6	7.5	49.9	-	-	-	11.6	30.8	69.5	0.9	85.2	23.1	43.7	17.2
4	PFMH- 97 I 02	9.6	-	40	-	-	-	-	23	5.2	13.3	24.8	-	14.6	-
5	PFMH- 97 I 09	33.5	-	20.5	12.7	-	0.7	6.4	9.4	22.6	6	-	-	4.6	-
6	PFMH- 97 I 40	17.2	-	37.9	-	-	-	0.9	12.4	1.7	-	-	-	-	-
7	Bisco -New 704	61.3	2.2	36.8	18.9	-	10.5	17.9	-	22.1	-	14.6	4.6	6.4	8.8
8	Bisco -X9	45.9	-	20.7	8.6	-	-	7	29	18.4	-	55.6	7.9	19.3	7.5
9	Bisco -X 6525	31.8	-	50.5	6.8	-	-	6.7	11.7	11	-	10.2	-	-	-
10	Bisco -X-11	27.1	10.1	58.2	14.9	-	-	12.6	11.6	24.8	-	-	1.8	-	0.5
11	HTMH 5101 Sona	59.2	1.2	35.7	7.3	-	-	7.3	24.9	20.9	2.4	57.8	6.7	25.5	7.8
12	X8B674	28.7	-	42.7	16.1	-	12.6	12.3	25.2	16.5	4.5	53.2	-	21.3	13.3
13	X8B677	76	-	42	2.4	4.5	4	17.9	17.2	34.7	29.1	76.9	1.8	37.3	15.7
14	C6485	4.7	1.1	50	-	-	-	-	12.1	-	8.2	9.9	-	5	-
15	C1946	39	-	44.6	3.8	-	4.2	8.7	-	13.5	-	-	-	-	-
16	KMH-2700	28.9	-	18.2	24.4	2.9	17.6	10.8	0.8	20.1	-	-	16.4	4.9	7.1
17	KMH-509	18.6	-	40.5	7.5	-	16.2	9.6	-	17.7	8	20.1	2.6	10	4.8
18	KMH-2559	58.8	-	11.2	4.2	-	15.5	2.3	7.8	29.9	-	9.3	6	3.4	4.2
19	X35A 175	37	-	56.2	-	-	0.8	5.2	27.2	27.4	1.7	25.6	-	15.9	5.1
20	X35A 176	57.2	3.3	44.6	9.6	15.6	4.2	20.1	21.8	38.9	-	56.2	-	19.2	12.9
21	JKMH 102	23.4	-	-	4.8	-	-	-	10	17.9	-	16.9	-	-	-
22	JKMH 101	28.7	-	44.6	1.9	-	-	-	6.3	36.1	-	31.5	12.6	9.9	-
23	PRO 379	51	18.9	34.4	-	-	-	6.1	24.2	32.9	-	57.8	-	22.2	7.4
24	PRO 380	64.1	-	36.1	10.1	-	-	10.5	9.8	36.7	2.7	30	8.1	17.5	5.9
25	S 6668/NH 6668	28.6	-	45.5	0.4	-	4.7	6.6	58.1	2.9	-	69.7	2.3	22.7	6.1
26	S 6718/NH 6718	21.5	-	37	14.2	17.3	12.5	13.5	52.8	8.4	5	46	3.2	24.8	12.8

TABLE No.1 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681												OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
27	JH 31291	11.9	2.7	40	-	-	-	-	9.2	27	10.9	31.3	30.8	22.3	4.1
28	JH 31294	26.6	5.5	42.1	6.7	-	-	5.7	17.9	25.2	-	45.8	-	15.2	5
29	JH 12157	27.9	-	49.9	11.6	-	-	3.3	2.1	21	-	44.1	24.8	17	7.6
30	GH- 1004	-	-	36.1	-	-	-	-	4.2	-	-	-	7.5	-	-
31	GH- 1009	-	-	42.3	3.1	-	-	-	17	14.1	-	12	21.3	2.1	-
32	GH- 1005	8	-	45	-	-	-	-	-	27.7	-	7.6	16.3	-	-
33	GH- 1008	-	-	-	-	-	-	-	10.8	6.4	-	-	16.2	-	-
34	A 7501	40.5	-	45.6	20.8	17.8	22	20.6	15.3	36.9	-	48.6	14.8	16.7	8.5
35	NMH-777	26.7	-	42.7	-	-	-	4.7	8.5	38.3	-	51.1	-	17.6	8.1
36	NMH-713	23.2	4.6	40.8	20.2	15.3	-	14.5	10.2	45.6	-	31	10.6	13.9	13.2
37	NMH-4040 (White)	28.3	-	28.9	-	3.3	-	1.3	-	25.8	-	33	-	2.9	-
38	GK 3090	15.1	3	12	-	-	-	-	8.5	20.8	-	-	6.6	-	-
39	GK 3094	23	-	36.2	-	-	-	-	20.8	12.2	-	37.2	-	7.2	0.8
40	Sun - Kranthi	-	-	42.1	-	-	-	-	16.3	11.2	-	-	-	-	-
41	CMH08-239	22.8	5.7	48.5	0.9	-	6.3	9.8	19.9	38.7	-	20.7	-	11.3	2.6
42	CMH08-259	34	-	10	-	-	-	2.5	10.4	32.7	-	45.2	-	17.2	3.1
43	CMH08-287	41.9	-	53.9	18	-	23.1	15.1	28.1	57.3	15.5	37.5	-	24.6	13.2
44	CMH08-337	38.4	-	62.1	8.6	10.9	17.4	19.5	9.3	55	-	55.3	-	23.2	10
45	KNMH-401091	20.1	-	34.3	-	-	-	-	11.6	45	-	41.5	8.5	20.8	-
46	KNMH-4010131	32.7	3.6	43.3	-	-	-	4.3	58.1	49.7	-	39.8	-	21.3	1.8
47	CP 111	44.8	-	36.3	4.5	-	0.2	6.3	2.4	3.3	-	34.4	6.9	4	1.2
48	CP 333	54.9	-	43.2	29.2	13.6	23.8	23.2	13.8	4.3	18.3	66	7.8	27.8	12.1
49	HP-222	36.7	7.3	57.2	-	-	-	6.5	8.4	30.4	-	47.6	4.3	19	5.1
50	DMR NSCH 6	15.1	-	45.6	-	-	-	-	9.7	12.3	-	30.6	-	6.1	-
51	DMR NSCH 7	-	-	31.9	-	-	-	-	17.3	9.2	-	7	1	-	-
52	BIO-562	65.2	-	30.3	12.1	3.1	9.1	17.5	13.1	9.8	-	28.4	8.9	7.2	8
53	MCH 44	64.6	-	42.5	-	-	-	1.7	15	39.9	9.9	64.5	-	27.5	7.2
54	Nidhi Pearl	38.2	-	51.6	5.2	1.8	5.3	13.5	-	16	-	18.5	-	-	-
CHECKS															
55	PMH 1	22.7	-	48	-	-	6.5	7.6	8.4	29.4	19.1	45.2	-	22.4	8.4
56	PMH 3	30.4	-	33	-	1.2	-	6.6	20.6	9.8	-	47.5	6.1	18.2	10.4
57	Seedtec 2324	22.9	-	46.3	-	-	-	3.4	14.8	10.5	-	9.7	18.6	7	4.1
58	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No.1 (Cont..)

SI No.	PEDIGREE	DAYS TO 50% SILKING														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1	Ajeet 301	65.3	56.0	62.7	61.3	60.3	54.3	61.0	52.0	56.9	54.7	55.0	61.0	56.0	55.3	56.4
2	MM1107	67.3	57.0	57.0	60.4	56.0	52.3	58.0	50.0	54.1	54.3	53.7	60.5	56.0	56.0	56.1
3	M9977	69.0	55.0	65.0	63.0	56.0	53.3	59.0	50.3	54.7	55.3	57.0	58.5	58.3	58.0	57.4
4	PFMH- 97 I 02	63.7	56.0	54.7	58.1	57.0	53.3	57.0	48.0	53.8	54.7	56.0	63.5	55.0	53.7	56.6
5	PFMH- 97 I 09	63.3	52.0	57.0	57.4	56.3	53.0	60.7	50.0	55.0	55.7	56.7	64.0	57.3	55.7	57.9
6	PFMH- 97 I 40	64.3	54.0	57.0	58.4	57.0	53.7	56.3	52.0	54.8	54.3	55.7	57.0	56.7	53.7	55.5
7	Bisco -New 704	66.3	53.0	68.0	62.4	60.7	54.0	60.0	50.0	56.2	55.7	56.0	61.5	57.3	56.3	57.4
8	Bisco -X9	64.3	53.0	59.0	58.8	58.0	52.7	56.7	49.0	54.1	55.0	55.7	65.0	56.0	56.0	57.5
9	Bisco -X 6525	64.0	57.0	62.7	61.2	55.7	53.3	57.3	53.3	54.9	57.0	55.7	66.0	56.3	54.0	57.8
10	Bisco -X-11	64.3	52.0	57.7	58.0	56.7	52.7	56.7	52.0	54.5	53.7	53.3	60.0	56.3	55.0	55.7
11	HTMH 5101 Sona	64.3	53.0	68.0	61.8	59.7	53.3	62.3	51.0	56.6	57.7	60.0	61.0	59.0	58.3	59.2
12	X8B674	64.0	53.0	67.0	61.3	57.7	53.3	59.0	54.3	56.1	58.7	55.0	58.5	57.0	55.7	57.0
13	X8B677	64.7	53.0	68.0	61.9	57.0	54.7	58.3	50.0	55.0	54.7	55.7	57.5	56.0	54.3	55.6
14	C6485	65.0	53.0	65.0	61.0	58.3	52.3	56.3	49.0	54.0	56.0	56.0	59.0	57.0	54.7	56.5
15	C1946	71.0	52.0	67.7	63.6	60.3	53.0	59.7	52.0	56.3	58.0	56.7	59.5	59.0	55.7	57.8
16	KMH-2700	63.0	52.0	59.0	58.0	55.7	52.7	56.3	55.0	54.9	54.7	54.3	64.0	56.0	53.0	56.4
17	KMH-509	65.0	57.0	59.0	60.3	59.3	53.0	62.3	55.0	57.4	55.7	58.0	65.0	58.0	58.7	59.1
18	KMH-2559	66.0	54.0	65.0	61.7	60.7	53.0	55.7	49.0	54.6	54.7	54.7	66.0	57.3	57.3	58.0
19	X35A 175	65.0	57.0	57.0	59.7	57.3	54.0	57.3	54.0	55.7	55.7	54.3	62.5	56.0	54.7	56.6
20	X35A 176	73.3	54.0	64.7	64.0	60.7	53.7	59.7	49.0	55.8	55.3	57.0	63.5	56.7	57.7	58.0
21	JKMH 102	64.3	56.0	68.0	62.8	57.0	53.7	57.7	51.0	54.8	55.7	54.7	65.0	56.0	56.3	57.5
22	JKMH 101	64.7	54.0	59.0	59.2	58.0	54.0	55.3	50.0	54.3	57.3	55.7	63.0	56.0	54.3	57.3
23	PRO 379	66.3	56.0	53.0	58.4	57.3	53.0	56.3	49.0	53.9	56.3	55.0	63.0	56.7	56.0	57.4
24	PRO 380	66.3	52.0	64.0	60.8	57.7	52.7	61.3	51.0	55.7	57.3	56.0	61.0	57.0	56.7	57.6
25	S 6668/NH 6668	68.0	52.0	62.7	60.9	60.7	52.7	59.7	53.0	56.5	54.7	58.0	62.5	58.3	58.3	58.4
26	S 6718/NH 6718	67.7	58.0	62.0	62.6	59.7	53.7	60.3	50.0	55.9	57.3	55.7	62.0	57.7	57.3	58.0
27	JH 31291	63.3	56.0	60.0	59.8	59.0	52.0	60.0	52.0	55.8	55.7	58.7	58.5	57.3	55.3	57.1
28	JH 31294	67.0	54.0	61.0	60.7	59.7	53.7	61.7	52.3	56.8	57.7	56.3	59.0	57.7	56.3	57.4
29	JH 12157	65.3	56.0	59.0	60.1	59.0	54.0	58.7	55.0	56.7	56.7	56.3	62.5	56.7	56.3	57.7
30	GH- 1004	64.7	54.0	57.0	58.6	54.0	52.7	55.7	53.0	53.8	52.3	52.3	62.5	54.0	52.3	54.7

TABLE No.1 (Cont..)

SI No.	PEDIGREE	DAYS TO 50% SILKING														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
31	GH- 1009	62.0	54.0	57.0	57.7	55.7	53.0	59.0	49.3	54.3	51.7	53.0	61.5	54.0	51.7	54.4
32	GH- 1005	63.0	56.0	55.0	58.0	54.3	52.7	54.0	50.0	52.8	52.7	52.7	61.0	53.7	53.0	54.6
33	GH- 1008	62.7	56.0	51.0	56.6	53.3	51.0	51.3	53.3	52.3	51.7	53.0	61.0	52.0	51.0	53.7
34	A 7501	65.0	56.0	65.0	62.0	60.0	53.7	56.0	52.0	55.4	58.0	56.0	63.5	56.0	55.7	57.8
35	NMH-777	66.3	55.0	56.7	59.3	57.3	53.7	57.0	53.0	55.3	55.3	53.3	61.5	57.0	57.0	56.8
36	NMH-713	64.0	52.0	57.0	57.7	55.3	52.7	63.3	53.0	56.1	55.3	56.0	61.5	57.3	55.3	57.1
37	NMH-4040 (White)	67.7	52.0	67.7	62.4	57.3	52.3	59.7	53.0	55.6	54.7	56.3	65.0	57.3	55.0	57.7
38	GK 3090	65.3	54.0	65.0	61.4	57.7	53.0	57.7	51.0	54.8	55.3	54.7	63.5	56.7	56.3	57.3
39	GK 3094	66.0	56.0	68.0	63.3	57.7	54.7	61.3	48.0	55.4	55.3	57.0	62.0	56.3	57.0	57.5
40	Sun - Kranthi	63.7	56.0	61.7	60.4	59.0	54.7	56.0	52.0	55.4	55.3	57.7	61.5	58.0	55.7	57.6
41	CMH08-239	64.0	58.0	57.0	59.7	55.3	53.3	56.7	52.0	54.3	55.3	53.7	64.0	56.0	52.3	56.3
42	CMH08-259	65.0	55.0	66.7	62.2	60.0	53.7	58.0	51.0	55.7	58.0	57.3	64.0	58.7	56.0	58.8
43	CMH08-287	63.7	55.0	67.7	62.1	56.7	53.0	59.3	50.0	54.8	54.3	55.7	62.0	57.7	55.7	57.1
44	CMH08-337	65.0	54.0	66.7	61.9	60.7	53.0	54.3	50.0	54.5	57.0	54.3	61.5	55.0	57.0	57.0
45	KNMH-401091	64.0	57.0	67.7	62.9	54.7	52.7	59.0	49.0	53.8	54.3	52.3	57.5	56.0	55.3	55.1
46	KNMH-4010131	65.7	58.0	63.0	62.2	60.3	53.3	56.7	48.7	54.8	55.3	56.3	57.5	56.3	58.7	56.8
47	CP 111	65.3	54.0	62.7	60.7	59.7	52.7	61.3	53.0	56.7	58.0	59.7	62.0	59.7	56.7	59.2
48	CP 333	64.3	57.0	67.0	62.8	58.7	54.0	63.0	51.0	56.7	57.3	59.0	62.5	59.0	58.3	59.2
49	HP-222	64.7	60.0	57.0	60.6	58.0	53.7	58.3	49.0	54.8	55.7	54.3	56.5	56.7	57.0	56.0
50	DMR NSCH 6	68.7	55.0	67.0	63.6	60.0	54.0	60.0	54.0	57.0	56.7	59.0	58.5	58.3	57.0	57.9
51	DMR NSCH 7	65.0	55.0	58.7	59.6	55.7	53.0	57.3	56.0	55.5	52.0	55.3	65.5	55.3	52.0	56.0
52	BIO-562	69.3	54.0	68.0	63.8	60.7	52.0	58.7	52.0	55.8	57.3	56.3	63.0	59.7	58.3	58.9
53	MCH 44	64.7	52.0	63.0	59.9	57.3	52.7	57.7	53.0	55.2	57.3	55.7	61.5	57.7	54.3	57.3
54	Nidhi Pearl CHECKS	64.3	61.0	54.7	60.0	56.0	51.3	56.0	49.0	53.1	53.3	56.0	59.0	56.0	53.3	55.5
55	PMH 1	63.3	62.0	57.0	60.8	57.3	52.7	58.3	50.0	54.6	54.3	55.0	64.0	55.3	55.3	56.8
56	PMH 3	67.0	52.0	67.0	62.0	58.7	53.3	59.3	55.0	56.6	56.3	56.0	62.5	58.3	56.3	57.9
57	Seedtec 2324	66.0	61.0	67.7	64.9	60.0	52.3	58.7	50.0	55.3	56.0	56.0	61.0	58.3	55.3	57.3
58	BIO 9681	65.3	54.0	64.7	61.3	57.7	53.0	57.3	49.0	54.3	55.3	56.0	59.0	56.0	56.3	56.5
	Loc. Mean	65.4	55.0	62.0	60.8	57.9	53.1	58.3	51.3	55.2	55.5	55.7	61.7	56.8	55.6	57.1
	C.D. (5%)	2.45	-	1.55	5.35	3.44	2.65	4.00	0.32	2.43	0.94	2.19	4.82	1.82	2.57	1.93
	C.V. (%)	2.31	-	1.55	5.44	3.67	3.09	4.24	0.39	3.16	1.05	2.43	3.90	1.98	2.86	2.71
	F (Prob.)	0.00	-	0.00	0.48	0.00	0.98	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00

TABLE No.1 (Cont..)

SI No.	PEDIGREE	DAYS TO 50% SILKING											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
1	Ajeet 301	58.3	56.3	56.0	59.3	56.3	58.7	57.5	58.0	56.3	56.0	54.7	55.7	56.1	57.4
2	MM1107	60.3	58.0	56.0	61.0	56.7	59.3	58.6	56.7	56.7	54.3	54.7	56.7	55.8	56.9
3	M9977	60.0	57.7	60.7	62.3	57.7	60.3	59.8	58.3	56.3	55.7	55.3	54.0	55.9	58.0
4	PFMH- 97 I 02	60.3	58.3	60.3	59.0	56.7	57.7	58.7	55.3	54.0	52.0	53.0	56.0	54.1	56.3
5	PFMH- 97 I 09	59.7	57.7	60.0	60.7	55.7	59.3	58.8	56.7	55.7	54.0	54.3	54.7	55.1	57.0
6	PFMH- 97 I 40	60.7	56.3	56.7	59.7	57.3	59.0	58.3	57.7	57.0	53.0	55.0	55.7	55.7	56.5
7	Bisco -New 704	59.0	54.7	57.3	60.0	56.0	59.3	57.7	56.3	55.3	55.3	56.3	53.0	55.3	57.5
8	Bisco -X9	59.7	58.0	61.0	60.0	55.3	57.7	58.6	56.3	54.3	54.0	54.3	53.3	54.5	56.7
9	Bisco -X 6525	60.0	58.0	56.7	61.7	56.3	59.0	58.6	54.3	55.7	56.3	54.3	56.0	55.3	57.4
10	Bisco -X-11	58.7	57.3	57.3	59.0	55.7	57.3	57.6	57.0	54.3	52.3	53.7	55.0	54.5	56.0
11	HTMH 5101 Sona	59.7	58.7	59.3	63.7	59.0	59.7	60.0	58.7	55.0	57.3	57.0	53.3	56.3	58.7
12	X8B674	60.0	56.3	58.0	60.0	56.3	58.0	58.1	54.7	56.3	55.0	55.3	50.3	54.3	57.1
13	X8B677	59.0	58.3	58.3	58.3	55.7	55.0	57.4	54.7	55.7	52.7	52.3	52.7	53.6	56.4
14	C6485	59.7	57.7	60.0	59.3	57.0	59.7	58.9	56.3	55.7	52.7	55.0	52.7	54.5	56.8
15	C1946	59.7	57.3	56.0	61.3	57.3	60.0	58.6	61.0	55.3	55.0	55.3	53.3	56.0	58.1
16	KMH-2700	60.7	57.3	55.3	58.3	55.7	55.0	57.1	65.7	54.7	54.0	54.3	56.3	57.0	56.7
17	KMH-509	59.7	59.0	57.3	61.3	57.0	58.0	58.7	57.7	54.3	56.0	55.0	54.0	55.4	58.1
18	KMH-2559	60.0	57.3	58.0	60.0	57.3	58.7	58.6	54.7	56.7	54.3	55.7	52.7	54.8	57.3
19	X35A 175	60.3	57.0	58.0	58.7	56.3	56.7	57.8	55.7	56.0	55.3	54.3	56.0	55.5	56.9
20	X35A 176	60.0	58.3	59.0	60.3	57.3	60.3	59.2	57.0	54.7	55.3	56.7	54.7	55.7	58.2
21	JKMH 102	60.0	57.7	58.3	60.3	54.3	57.3	58.0	54.7	57.0	55.3	54.7	57.0	55.7	57.5
22	JKMH 101	58.7	58.0	57.7	59.7	55.0	55.0	57.3	55.3	55.7	55.3	54.3	56.0	55.3	56.6
23	PRO 379	59.3	57.3	56.7	59.0	56.0	55.0	57.2	58.7	54.0	53.7	52.3	53.0	54.3	56.2
24	PRO 380	59.7	58.7	58.7	57.0	56.7	58.3	58.2	57.7	55.0	54.3	54.7	55.7	55.5	57.4
25	S 6668/NH 6668	59.3	56.0	60.0	61.3	59.0	58.0	58.9	56.3	54.7	57.0	55.7	57.0	56.1	58.0
26	S 6718/NH 6718	59.7	55.3	57.7	61.0	57.3	59.7	58.4	55.7	54.0	54.7	54.3	57.7	55.3	57.8
27	JH 31291	59.0	58.3	57.0	60.3	55.0	57.0	57.8	56.7	57.3	54.7	54.7	56.0	55.9	57.1
28	JH 31294	60.0	57.0	54.3	59.7	57.7	60.0	58.1	58.3	55.3	54.3	55.0	57.0	56.0	57.6
29	JH 12157	60.0	56.3	57.0	61.7	57.7	60.0	58.8	58.7	55.7	55.3	55.0	57.7	56.5	57.8
30	GH- 1004	58.3	56.3	56.0	57.7	52.3	51.0	55.3	53.3	55.0	51.3	50.7	53.3	52.7	54.8

TABLE No.1 (Cont..)

SI No.	PEDIGREE	DAYS TO 50% SILKING											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
31	GH- 1009	57.0	56.7	58.7	56.0	52.7	52.3	55.6	53.7	54.3	53.0	51.0	56.0	53.6	54.9
32	GH- 1005	58.0	56.0	57.7	56.3	53.7	53.0	55.8	54.0	55.7	51.7	51.0	57.7	54.0	54.9
33	GH- 1008	57.0	55.0	56.7	55.0	49.7	49.0	53.7	54.3	56.7	51.7	51.0	55.0	53.7	53.8
34	A 7501	60.0	56.7	53.7	59.3	57.3	59.3	57.7	55.0	55.7	55.7	54.7	55.3	55.3	57.4
35	NMH-777	58.7	57.7	58.0	59.7	55.3	55.3	57.4	55.3	56.3	52.3	51.0	52.7	53.5	56.3
36	NMH-713	60.3	56.3	57.3	61.0	56.3	58.7	58.3	54.7	55.7	53.3	54.0	56.0	54.7	56.8
37	NMH-4040 (White)	60.3	54.7	57.7	62.0	58.3	59.0	58.7	56.7	57.0	54.3	55.3	53.3	55.3	57.7
38	GK 3090	59.3	54.0	56.7	60.7	56.3	58.0	57.5	55.3	54.3	55.0	55.7	54.3	54.9	56.9
39	GK 3094	60.3	57.7	56.7	61.3	57.7	60.0	58.9	56.3	56.0	57.3	55.0	54.0	55.7	57.9
40	Sun - Kranthi	60.0	55.0	56.7	61.0	57.0	57.3	57.8	56.7	56.3	54.0	56.0	53.7	55.3	57.2
41	CMH08-239	59.3	55.7	57.7	58.0	53.0	54.3	56.3	54.3	56.0	50.7	51.3	53.7	53.2	55.7
42	CMH08-259	60.3	57.0	59.0	64.3	57.3	60.3	59.7	57.7	55.3	55.0	55.0	51.0	54.8	58.1
43	CMH08-287	60.3	57.0	61.0	63.7	56.3	59.3	59.6	57.7	55.3	55.3	55.0	52.3	55.1	57.6
44	CMH08-337	60.3	56.3	56.3	60.7	56.7	57.7	58.0	55.7	54.3	53.3	54.7	54.0	54.4	56.9
45	KNMH-401091	60.3	57.7	57.0	58.0	54.3	55.0	57.1	54.3	55.0	53.0	52.3	53.0	53.5	56.1
46	KNMH-4010131	59.3	58.3	58.0	63.0	57.7	56.3	58.8	55.0	55.3	55.0	55.3	51.7	54.5	57.2
47	CP 111	59.0	57.0	59.7	61.3	59.3	60.7	59.5	59.0	56.3	55.3	57.0	53.7	56.3	58.4
48	CP 333	60.7	55.3	57.3	63.3	58.7	60.3	59.3	58.3	56.7	57.0	56.3	55.7	56.8	58.7
49	HP-222	60.3	57.0	56.0	59.0	54.7	55.3	57.1	55.3	55.0	54.0	51.0	52.7	53.6	56.1
50	DMR NSCH 6	59.3	57.7	57.7	64.3	57.7	59.3	59.3	59.7	55.3	55.3	55.3	53.3	55.8	58.4
51	DMR NSCH 7	59.3	57.3	56.3	58.3	54.0	55.3	56.8	54.7	54.3	55.3	51.7	55.0	54.2	56.2
52	BIO-562	59.7	56.7	56.3	63.3	59.3	60.7	59.3	58.7	54.7	55.7	56.7	53.0	55.7	58.4
53	MCH 44	60.3	59.0	58.0	60.7	57.0	60.3	59.2	58.7	56.7	54.7	54.0	52.3	55.3	57.3
54	Nidhi Pearl CHECKS	61.0	54.0	58.0	60.0	57.7	57.3	58.0	57.3	55.7	53.0	54.0	54.7	54.9	56.2
55	PMH 1	59.3	58.0	57.0	59.3	55.0	57.7	57.7	54.7	56.7	54.3	52.7	54.3	54.5	56.7
56	PMH 3	60.7	57.0	57.3	62.7	59.0	60.0	59.4	58.3	57.3	55.7	55.3	54.7	56.3	58.3
57	Seedtec 2324	58.3	59.0	56.3	60.0	55.7	55.0	57.4	57.0	56.3	54.0	55.0	58.0	56.1	57.7
58	BIO 9681	59.7	59.0	58.3	57.7	56.0	58.3	58.2	55.7	56.7	54.0	55.0	52.3	54.7	56.8
	Loc. Mean	59.6	57.1	57.6	60.2	56.3	57.7	58.1	56.6	55.6	54.4	54.3	54.5	55.1	57.1
	C.D. (5%)	1.90	2.05	1.35	2.66	1.72	0.87	1.60	3.92	1.65	3.22	1.28	2.83	1.85	1.05
	C.V. (%)	1.97	2.22	1.45	2.73	1.89	0.94	2.42	4.28	1.83	3.66	1.46	3.21	2.69	3.18
	F (Prob.)	0.03	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

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1	Ajeet 301	63.0	55.0	58.7	58.9	57.3	52.0	57.0	48.0	53.6	52.7	52.7	56.0	52.0	52.3	53.1
2	MM1107	65.3	56.0	53.0	58.1	53.7	50.3	54.0	45.0	50.8	52.3	52.7	56.5	52.0	53.3	53.4
3	M9977	66.3	54.0	61.0	60.4	54.7	51.3	55.0	46.0	51.8	53.3	55.7	54.0	54.3	55.7	54.6
4	PFMH- 97 I 02	61.0	55.0	50.7	55.6	54.7	51.3	53.0	43.0	50.5	52.7	54.7	57.0	52.7	51.0	53.6
5	PFMH- 97 I 09	60.7	51.0	53.0	54.9	54.7	51.0	56.7	46.0	52.1	53.7	55.3	58.0	53.3	52.7	54.6
6	PFMH- 97 I 40	62.0	53.0	53.0	56.0	55.0	52.0	52.3	48.0	51.8	52.3	53.7	53.0	52.7	51.3	52.6
7	Bisco -New 704	64.0	52.0	64.0	60.0	57.7	52.0	56.3	45.0	52.8	53.7	55.0	55.0	52.7	53.7	54.0
8	Bisco -X9	62.0	52.0	55.0	56.3	55.3	50.7	52.7	45.0	50.9	53.0	54.7	58.5	52.0	53.0	54.2
9	Bisco -X 6525	62.0	56.0	58.7	58.9	53.7	51.3	53.7	49.0	51.9	55.3	53.7	58.5	52.3	51.3	54.2
10	Bisco -X-11	62.0	51.0	53.7	55.6	55.0	50.7	53.0	48.0	51.7	51.7	51.7	55.5	52.3	52.7	52.8
11	HTMH 5101 Sona	62.0	52.0	64.0	59.3	57.0	51.0	58.7	46.0	53.2	55.7	58.3	57.0	55.0	55.3	56.3
12	X8B674	62.0	52.0	63.0	59.0	56.3	51.0	55.3	50.0	53.2	56.7	55.3	55.0	53.0	53.3	54.7
13	X8B677	62.3	51.0	64.0	59.1	55.3	52.7	54.3	46.0	52.1	52.7	54.0	53.0	52.0	51.7	52.7
14	C6485	62.3	52.0	61.0	58.4	55.3	50.3	52.3	45.0	50.8	54.0	54.3	54.5	53.0	51.7	53.5
15	C1946	68.3	51.0	63.7	61.0	57.7	51.0	55.7	47.0	52.8	56.0	55.0	56.5	55.0	53.0	55.1
16	KMH-2700	59.7	51.0	55.0	55.2	53.3	50.7	53.3	50.0	51.8	52.7	51.7	57.5	51.3	51.0	52.8
17	KMH-509	63.0	55.0	55.0	57.7	56.7	50.7	58.7	50.0	54.0	53.7	56.7	58.5	54.0	56.0	55.8
18	KMH-2559	63.7	53.0	61.0	59.2	57.0	51.0	51.7	44.0	50.9	52.7	53.7	61.0	53.3	54.3	55.0
19	X35A 175	62.3	56.0	53.0	57.1	56.3	52.0	53.3	50.0	52.9	53.7	53.7	56.0	52.0	51.3	53.3
20	X35A 176	70.7	53.0	60.7	61.4	58.0	51.7	55.7	45.0	52.6	53.3	56.0	56.0	52.7	54.0	54.4
21	JKMH 102	62.0	55.0	64.0	60.3	55.7	51.7	54.0	46.0	51.8	53.7	54.3	58.5	52.0	53.3	54.4
22	JKMH 101	62.3	53.0	55.0	56.8	55.7	52.0	52.0	46.0	51.4	55.3	54.7	58.0	52.0	52.0	54.4
23	PRO 379	64.0	55.0	49.7	56.2	55.0	50.7	52.7	45.0	50.8	54.3	52.7	58.0	52.7	53.3	54.2
24	PRO 380	64.0	51.0	60.0	58.3	55.3	50.3	57.3	46.0	52.3	55.3	54.3	56.0	52.7	53.7	54.4
25	S 6668/NH 6668	65.7	51.0	58.7	58.4	57.7	50.7	55.7	48.0	53.0	52.7	56.7	56.5	54.3	56.0	55.2
26	S 6718/NH 6718	65.3	57.0	58.0	60.1	58.0	51.7	56.7	46.0	53.1	55.3	54.3	57.0	53.0	55.3	55.0
27	JH 31291	61.3	55.0	56.0	57.4	55.7	49.7	56.0	48.0	52.3	53.7	57.0	55.0	53.3	52.7	54.3
28	JH 31294	64.3	53.0	59.0	58.8	56.3	51.7	58.0	47.0	53.3	55.7	54.7	54.5	53.3	53.7	54.4
29	JH 12157	63.3	55.0	55.0	57.8	56.7	52.0	55.0	50.0	53.4	55.0	55.0	57.0	52.7	54.0	54.7
30	GH- 1004	63.0	53.0	53.0	56.3	51.3	50.7	51.7	49.0	50.7	50.3	49.3	57.0	35.7	49.3	48.3

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
31	GH- 1009	59.7	53.0	53.0	55.2	52.7	51.0	55.0	45.0	50.9	49.7	50.3	56.5	50.0	49.0	51.1
32	GH- 1005	60.7	55.0	51.0	55.6	53.0	50.7	50.0	46.0	49.9	50.7	51.0	56.0	49.7	50.0	51.5
33	GH- 1008	58.7	54.0	47.0	53.2	51.7	49.0	46.7	49.0	49.1	49.7	50.3	56.5	48.0	48.0	50.5
34	A 7501	62.7	54.0	61.0	59.2	56.7	51.7	52.3	48.0	52.2	55.7	54.7	58.0	52.0	53.3	54.7
35	NMH-777	63.7	53.0	52.7	56.4	55.3	51.7	54.7	48.0	52.4	53.3	51.7	55.5	53.0	53.3	53.4
36	NMH-713	61.7	51.0	53.0	55.2	53.0	50.7	59.7	49.0	53.1	53.0	53.7	56.5	53.3	52.0	53.7
37	NMH-4040 (White)	65.0	52.0	63.7	60.2	55.7	50.3	55.7	48.0	52.4	52.7	54.0	59.0	53.3	52.0	54.2
38	GK 3090	63.3	54.0	61.0	59.4	55.0	50.7	53.7	47.0	51.6	53.3	53.0	57.0	52.7	53.7	53.9
39	GK 3094	64.0	54.0	64.0	60.7	56.0	52.0	57.7	43.0	52.2	53.3	56.0	56.0	52.3	54.7	54.5
40	Sun - Kranthi	61.3	56.0	57.7	58.3	56.0	52.7	53.3	48.0	52.5	53.3	56.0	54.5	54.0	53.3	54.2
41	CMH08-239	61.3	58.0	53.0	57.4	54.0	51.3	52.7	49.0	51.8	53.3	52.3	57.0	52.0	49.7	52.9
42	CMH08-259	63.0	54.0	62.7	59.9	58.0	51.7	54.0	46.0	52.4	56.0	56.3	55.5	54.7	53.7	55.2
43	CMH08-287	61.7	54.0	63.7	59.8	55.3	51.0	55.3	45.0	51.7	52.3	54.7	55.0	53.7	53.0	53.7
44	CMH08-337	62.7	53.0	62.7	59.4	57.0	51.0	50.3	45.0	50.8	55.0	52.3	55.0	51.0	53.7	53.4
45	KNMH-401091	61.7	57.0	63.7	60.8	53.0	50.7	55.0	43.0	50.4	52.3	51.0	53.0	52.0	51.7	52.0
46	KNMH-4010131	63.3	57.0	59.0	59.8	57.3	51.3	53.0	44.0	51.4	53.3	55.3	52.5	52.3	56.0	53.9
47	CP 111	62.7	53.0	58.7	58.1	57.3	50.0	57.7	46.0	52.8	56.0	58.0	55.0	55.7	54.3	55.8
48	CP 333	62.0	56.0	63.0	60.3	56.0	52.0	59.7	46.0	53.4	55.7	57.7	55.0	55.0	55.7	55.8
49	HP-222	62.0	59.0	53.0	58.0	55.3	51.7	54.7	45.0	51.7	53.7	53.0	51.0	52.3	54.3	52.9
50	DMR NSCH 6	66.3	54.0	63.0	61.1	57.0	51.7	56.0	50.0	53.7	54.7	56.7	53.5	54.3	54.3	54.7
51	DMR NSCH 7	62.7	54.0	54.0	56.9	53.7	50.7	53.7	52.0	52.5	50.0	53.0	58.5	51.3	49.3	52.4
52	BIO-562	67.0	53.0	64.0	61.3	58.3	50.0	54.7	47.0	52.5	55.3	55.3	59.0	55.7	55.7	56.2
53	MCH 44	62.7	51.0	59.0	57.6	55.0	50.7	53.7	49.0	52.1	55.3	54.3	56.0	53.7	51.7	54.2
54	Nidhi Pearl CHECKS	61.7	60.0	50.7	57.4	54.7	49.3	52.7	45.0	50.4	51.3	54.3	52.5	52.0	51.0	52.2
55	PMH 1	61.0	61.0	53.0	58.3	55.0	50.0	54.3	45.0	51.1	52.3	53.3	58.0	51.3	53.0	53.6
56	PMH 3	64.7	51.0	63.0	59.6	55.7	51.3	55.7	50.0	53.2	54.3	54.3	57.0	54.3	53.3	54.7
57	Seedtec 2324	63.3	61.0	63.0	62.4	58.0	50.3	54.7	46.0	52.3	54.0	54.3	55.5	53.0	53.0	54.0
58	BIO 9681	63.3	53.0	61.0	59.1	55.3	50.3	53.3	44.0	50.8	53.7	54.7	56.0	52.0	53.7	54.0
	Loc. Mean	63.0	54.0	58.0	58.3	55.6	51.1	54.5	46.8	52.0	53.6	54.2	56.1	52.5	52.9	53.9
	C.D. (5%)	2.46	-	1.49	5.31	2.84	2.63	3.99	0.00	2.43	0.92	2.46	4.33	5.87	2.40	2.04
	C.V. (%)	2.41	-	1.59	5.63	3.16	3.19	4.52	0.00	3.35	1.07	2.81	3.86	6.91	2.81	3.04
	F (Prob.)	0.00	0.00	0.00	0.36	0.00	0.95	0.00	0.00	0.04	0.00	0.00	0.05	0.02	0.00	0.00

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	Ajeet 301	57.3	54.3	54.0	58.3	54.7	56.0	55.8	54.3	52.7	53.7	52.7	53.3	54.8
2	MM1107	60.0	56.0	57.0	60.0	55.3	56.7	57.5	54.7	53.3	51.0	54.7	53.4	54.7
3	M9977	59.7	55.7	58.0	61.3	56.3	57.3	58.1	55.7	53.0	54.0	55.0	54.4	55.8
4	PFMH- 97 I 02	60.3	56.0	58.0	58.0	55.0	55.0	57.1	52.7	50.3	51.0	52.0	51.5	53.9
5	PFMH- 97 I 09	58.3	55.3	56.7	59.7	54.3	56.3	56.8	53.7	52.3	52.7	53.0	52.9	54.5
6	PFMH- 97 I 40	59.7	54.7	54.3	58.7	55.7	56.7	56.6	54.3	54.0	51.3	53.0	53.2	54.1
7	Bisco -New 704	58.0	52.0	55.7	59.0	55.3	57.0	56.2	53.3	52.0	54.3	55.0	53.7	55.1
8	Bisco -X9	58.3	56.0	58.0	59.0	54.3	55.3	56.8	54.0	51.0	53.3	52.7	52.8	54.4
9	Bisco -X 6525	59.0	55.3	54.3	60.7	55.0	57.0	56.9	52.3	52.3	55.3	52.3	53.1	55.0
10	Bisco -X-11	58.7	55.0	55.3	58.0	54.3	55.3	56.1	53.3	51.0	50.7	52.3	51.8	53.7
11	HTMH 5101 Sona	58.7	56.0	57.3	62.7	56.7	57.3	58.1	55.7	51.7	56.0	55.0	54.6	56.3
12	X8B674	58.7	53.7	55.7	59.0	55.3	56.0	56.4	52.3	53.7	54.3	55.0	53.8	55.3
13	X8B677	58.0	55.7	56.0	57.3	54.0	52.7	55.6	52.3	52.3	52.0	51.7	52.1	54.1
14	C6485	58.7	55.0	57.7	58.3	54.7	57.0	56.9	53.7	52.3	50.7	54.0	52.7	54.4
15	C1946	59.0	55.0	54.3	60.3	55.7	57.7	57.0	57.7	52.0	54.3	55.0	54.8	55.9
16	KMH-2700	59.7	54.3	53.0	57.3	53.3	53.0	55.1	52.7	51.0	49.7	53.0	51.6	53.4
17	KMH-509	59.0	56.7	54.7	60.3	55.0	55.7	56.9	54.3	50.7	55.0	55.0	53.8	55.6
18	KMH-2559	59.0	54.3	55.7	59.0	56.0	56.7	56.8	52.7	53.0	52.0	55.0	53.2	55.0
19	X35A 175	59.3	55.0	56.0	57.7	54.7	54.3	56.2	53.0	52.7	54.0	53.7	53.3	54.5
20	X35A 176	59.0	56.7	57.0	59.3	56.3	58.0	57.7	54.0	51.3	53.0	54.7	53.3	55.7
21	JKMH 102	59.0	56.0	56.3	59.3	53.3	55.0	56.5	52.3	52.7	54.3	54.7	53.5	55.1
22	JKMH 101	59.0	55.3	56.3	58.7	54.0	53.0	56.1	53.3	52.3	55.3	53.7	53.7	54.5
23	PRO 379	57.7	55.7	54.7	58.0	54.0	53.0	55.5	56.3	50.7	52.3	51.7	52.8	54.0
24	PRO 380	58.3	55.7	57.0	56.0	54.0	55.3	56.1	54.3	51.7	52.0	53.0	52.8	54.7
25	S 6668/NH 6668	58.0	51.0	58.0	60.3	57.7	54.7	56.6	53.7	51.0	55.0	55.0	53.7	55.4
26	S 6718/NH 6718	59.0	53.0	55.0	60.0	56.7	57.0	56.8	53.7	51.3	54.3	54.3	53.4	55.5
27	JH 31291	58.0	53.7	54.3	59.3	54.3	54.7	55.7	54.0	54.0	53.0	54.3	53.8	54.7
28	JH 31294	58.7	55.0	51.7	58.7	54.7	57.7	56.1	55.7	52.0	52.3	53.7	53.4	55.1
29	JH 12157	59.0	52.3	54.7	60.7	56.3	58.0	56.8	55.7	52.7	53.7	54.7	54.2	55.4
30	GH- 1004	57.7	52.3	54.0	56.7	51.3	49.0	53.5	50.3	51.3	50.7	50.3	50.7	51.7

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
31	GH- 1009	55.7	53.7	57.0	55.0	51.0	50.3	53.8	50.7	51.3	49.7	50.3	50.5	52.3
32	GH- 1005	57.0	54.7	55.3	55.3	50.0	50.3	53.8	51.3	52.7	50.0	50.3	51.1	52.3
33	GH- 1008	55.3	52.3	54.3	54.0	48.7	46.3	51.8	52.3	53.0	49.0	50.0	51.1	51.1
34	A 7501	59.3	54.0	51.7	58.0	55.0	56.7	55.8	53.0	52.7	52.3	52.7	52.7	54.8
35	NMH-777	57.7	54.7	55.3	59.7	54.3	53.3	55.8	53.0	52.3	50.7	51.0	51.8	54.0
36	NMH-713	59.7	54.7	54.7	59.7	55.3	55.3	56.6	52.0	52.3	51.0	52.0	51.8	54.2
37	NMH-4040 (White)	59.3	52.0	55.3	61.0	56.0	56.3	56.7	54.3	53.0	53.0	53.7	53.5	55.2
38	GK 3090	58.3	51.3	54.3	59.7	54.3	55.7	55.6	53.3	51.3	53.7	54.3	53.2	54.6
39	GK 3094	60.0	55.7	54.0	60.3	56.3	57.3	57.3	54.0	52.3	56.7	54.7	54.4	55.7
40	Sun - Kranthi	59.7	52.3	54.3	60.0	56.0	55.3	56.3	54.3	52.3	52.0	55.3	53.5	54.9
41	CMH08-239	57.7	53.3	56.0	57.0	52.0	52.0	54.7	52.0	53.0	49.0	51.0	51.3	53.5
42	CMH08-259	59.3	54.3	57.0	63.3	56.0	58.0	58.0	54.3	52.0	54.3	54.7	53.8	55.9
43	CMH08-287	59.3	54.0	59.0	62.7	55.3	57.3	57.9	54.7	52.3	55.3	55.0	54.3	55.4
44	CMH08-337	59.3	54.0	54.3	59.7	56.0	55.7	56.5	53.3	51.0	52.3	54.3	52.8	54.5
45	KNMH-401091	58.7	55.3	54.3	57.0	53.0	52.7	55.2	52.3	51.7	52.3	51.7	52.0	53.8
46	KNMH-4010131	58.7	53.7	55.7	62.0	57.0	54.3	56.9	52.7	52.0	52.7	55.3	53.2	54.9
47	CP 111	58.0	54.7	57.7	60.3	56.3	57.0	57.3	56.3	53.3	54.0	55.7	54.8	55.8
48	CP 333	59.7	53.0	55.0	62.3	57.3	58.0	57.6	55.3	53.3	55.3	55.0	54.8	56.3
49	HP-222	59.3	54.3	54.0	58.0	53.0	53.3	55.3	52.3	51.7	53.0	51.0	52.0	53.9
50	DMR NSCH 6	57.7	55.3	55.0	63.3	56.0	56.7	57.3	56.7	52.0	53.3	55.0	54.3	56.0
51	DMR NSCH 7	58.3	54.0	54.0	57.3	53.0	53.3	55.0	51.3	50.3	51.0	51.3	51.0	53.5
52	BIO-562	58.7	53.3	54.0	62.3	57.7	57.7	57.3	56.0	51.0	55.0	55.7	54.4	56.2
53	MCH 44	59.3	56.0	56.0	59.7	57.0	57.3	57.6	56.3	53.7	53.7	54.0	54.4	55.2
54	Nidhi Pearl CHECKS	60.0	51.0	55.3	59.0	55.7	55.3	56.1	54.3	52.0	51.3	52.0	52.4	53.7
55	PMH 1	58.7	56.0	54.0	58.3	53.7	55.3	56.0	52.3	53.3	53.7	52.7	53.0	54.3
56	PMH 3	60.0	55.3	54.7	60.7	56.3	57.7	57.4	55.0	53.3	54.7	55.0	54.5	55.8
57	Seedtec 2324	56.7	57.0	54.3	59.0	54.3	53.0	55.7	55.0	53.3	50.7	53.7	53.2	55.1
58	BIO 9681	58.7	55.3	56.3	56.7	55.3	56.0	56.4	53.7	53.3	52.7	54.3	53.5	54.7
	Loc. Mean	58.7	54.4	55.4	59.2	54.8	55.3	56.3	53.8	52.2	52.8	53.5	53.1	54.7
	C.D. (5%)	2.06	1.87	1.41	2.77	1.53	0.99	1.60	1.05	1.49	3.50	1.19	1.65	1.07
	C.V. (%)	2.17	2.12	1.57	2.89	1.73	1.10	2.51	1.21	1.76	4.10	1.38	2.23	3.30
	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

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK											ZN 3 Mean		
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA		RANC	AMBI
1	Ajeet 301	101.7	101.0	110.0	104.2	109.7	83.0	82.0	91.6	85.0	88.0	94.5	99.3	91.0	91.6
2	MM1107	101.0	103.0	109.7	104.6	105.3	83.0	82.0	90.1	83.7	88.0	96.0	99.7	94.0	92.3
3	M9977	105.7	101.0	110.7	105.8	105.3	84.0	80.0	89.8	84.7	91.3	94.0	98.3	98.0	93.3
4	PFMH- 97 I 02	101.7	101.0	110.0	104.2	106.0	83.3	81.3	90.2	87.0	91.3	96.0	99.0	96.7	94.0
5	PFMH- 97 I 09	104.0	96.0	110.0	103.3	104.3	87.3	80.0	90.6	88.0	92.7	92.5	99.7	97.3	94.0
6	PFMH- 97 I 40	102.7	100.0	109.7	104.1	104.3	86.0	84.0	91.4	88.3	91.0	88.5	98.0	92.0	91.6
7	Bisco -New 704	106.7	100.0	109.0	105.2	110.0	84.0	80.0	91.3	86.7	91.7	97.0	99.7	95.7	94.1
8	Bisco -X9	103.0	100.0	109.7	104.2	106.3	83.3	79.7	89.8	88.3	89.3	98.5	98.7	98.0	94.6
9	Bisco -X 6525	102.7	104.0	110.7	105.8	104.3	83.3	82.0	89.9	89.7	92.3	98.0	99.0	96.0	95.0
10	Bisco -X-11	100.7	98.0	110.0	102.9	105.3	85.7	80.0	90.3	86.3	84.7	93.0	98.3	91.3	90.7
11	HTMH 5101 Sona	106.7	98.0	110.0	104.9	108.0	88.7	81.3	92.7	91.3	95.7	95.0	100.0	96.0	95.6
12	X8B674	101.3	100.0	109.0	103.4	105.3	84.0	83.0	90.8	87.3	92.0	95.0	99.0	91.0	92.9
13	X8B677	101.7	99.0	108.0	102.9	105.7	86.3	80.0	90.7	87.7	91.7	91.0	99.0	96.3	93.1
14	C6485	104.0	99.0	109.0	104.0	107.3	84.0	82.0	91.1	87.3	89.7	92.0	100.0	92.0	92.2
15	C1946	111.3	99.0	110.0	106.8	109.0	85.0	81.7	91.9	88.7	88.7	90.5	99.3	96.3	92.7
16	KMH-2700	102.3	98.0	109.0	103.1	104.3	87.0	83.0	91.4	88.3	89.0	97.0	99.7	92.0	93.2
17	KMH-509	105.7	103.0	108.7	105.8	108.0	85.0	80.0	91.0	88.0	91.7	95.0	100.0	93.7	93.7
18	KMH-2559	106.7	100.0	110.7	105.8	110.0	88.7	79.3	92.7	60.7	87.7	95.0	99.3	96.0	87.7
19	X35A 175	102.7	104.0	110.0	105.6	107.3	84.7	82.0	91.3	87.3	90.0	99.0	99.0	92.0	93.5
20	X35A 176	112.0	100.0	108.7	106.9	106.0	87.3	83.7	92.3	85.7	92.0	94.0	99.7	92.0	92.7
21	JKMH 102	102.0	102.0	109.0	104.3	106.0	83.3	81.3	90.2	88.0	89.3	97.0	99.7	91.0	93.0
22	JKMH 101	97.7	100.0	109.0	102.2	108.0	88.0	80.0	92.0	88.0	97.7	95.0	99.3	95.0	95.0
23	PRO 379	102.0	102.0	110.0	104.7	105.7	84.3	80.7	90.2	87.3	91.0	95.5	99.7	90.0	92.7
24	PRO 380	107.7	98.0	110.0	105.2	107.3	84.3	83.0	91.6	90.0	92.7	96.0	99.3	94.3	94.5
25	S 6668/NH 6668	106.7	98.0	110.7	105.1	109.7	85.7	79.0	91.4	87.3	91.7	97.0	100.0	96.3	94.5
26	S 6718/NH 6718	107.0	105.0	110.0	107.3	109.3	84.0	83.7	92.3	86.7	90.7	95.5	100.7	92.0	93.1
27	JH 31291	97.7	103.0	110.0	103.6	107.3	83.7	84.0	91.7	87.0	94.7	91.5	98.0	92.7	92.8
28	JH 31294	103.0	102.0	110.0	105.0	108.3	87.3	83.0	92.9	87.3	92.7	92.5	99.0	92.0	92.7
29	JH 12157	101.3	103.0	108.7	104.3	108.0	84.7	83.0	91.9	86.7	89.3	93.5	99.0	92.7	92.2
30	GH- 1004	98.7	102.0	108.7	103.1	102.7	86.0	83.3	90.7	81.7	90.0	95.0	98.3	90.7	91.1

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK											ZN 3 Mean		
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA		RANC	AMBI
31	GH- 1009	99.3	102.0	109.7	103.7	104.3	86.3	83.0	91.2	84.0	88.0	94.5	99.3	90.0	91.2
32	GH- 1005	99.3	103.0	110.0	104.1	104.0	84.7	82.0	90.2	84.3	86.7	94.0	99.0	91.0	91.0
33	GH- 1008	96.7	103.0	110.0	103.2	101.3	87.3	83.0	90.6	83.7	86.0	92.5	97.3	89.3	89.8
34	A 7501	105.0	103.0	110.0	106.0	110.0	87.0	83.3	93.4	89.0	92.0	101.5	100.0	94.0	95.3
35	NMH-777	102.7	102.0	110.0	104.9	106.0	83.3	82.3	90.6	86.0	87.0	95.5	99.7	93.3	92.3
36	NMH-713	103.7	100.0	110.7	104.8	104.7	89.7	84.0	92.8	90.3	93.7	95.0	100.3	94.0	94.7
37	NMH-4040 (White)	105.0	100.0	110.7	105.2	105.0	85.0	82.0	90.7	87.7	88.0	99.0	98.7	89.3	92.5
38	GK 3090	103.7	102.0	110.7	105.4	107.0	81.7	83.0	90.6	84.7	90.0	93.0	99.0	91.7	91.7
39	GK 3094	101.7	103.0	110.7	105.1	106.3	85.3	81.0	90.9	88.7	97.0	95.5	99.7	96.0	95.4
40	Sun - Kranthi	99.3	103.0	110.0	104.1	108.0	87.7	80.0	91.9	85.7	91.0	95.0	98.0	96.0	93.1
41	CMH08-239	98.0	105.0	110.7	104.6	105.0	85.7	82.0	90.9	85.0	87.7	97.5	98.7	91.3	92.0
42	CMH08-259	98.0	103.0	111.7	104.2	109.0	79.3	83.3	90.6	85.3	89.7	100.0	98.7	96.0	93.9
43	CMH08-287	103.0	103.0	111.7	105.9	105.0	84.0	81.3	90.1	85.3	89.0	95.5	99.3	96.0	93.0
44	CMH08-337	96.7	100.0	110.0	102.2	108.0	86.0	84.0	92.7	83.3	88.3	91.5	98.7	89.7	90.3
45	KNMH-401091	101.7	104.0	108.7	104.8	102.3	84.3	83.0	89.9	86.3	87.0	90.5	100.0	93.3	91.4
46	KNMH-4010131	98.7	105.0	110.7	104.8	108.7	84.7	78.7	90.7	87.3	87.0	89.0	98.7	92.3	90.9
47	CP 111	110.0	100.0	110.7	106.9	109.0	85.3	83.7	92.7	88.0	95.7	92.0	101.0	68.7	89.1
48	CP 333	113.3	105.0	108.7	109.0	108.0	87.7	84.0	93.2	89.0	95.3	94.5	100.7	99.7	95.8
49	HP-222	100.7	106.0	108.0	104.9	106.7	87.3	79.0	91.0	85.7	86.7	90.5	99.0	93.0	91.0
50	DMR NSCH 6	105.3	103.0	111.0	106.4	108.7	84.0	83.7	92.1	90.0	92.7	95.5	100.0	96.3	94.9
51	DMR NSCH 7	97.7	103.0	110.0	103.6	106.0	84.0	83.0	91.0	83.3	90.7	100.0	99.0	94.0	93.4
52	BIO-562	111.3	102.0	110.7	108.0	108.7	86.0	80.0	91.6	90.3	93.0	97.0	99.3	96.3	95.2
53	MCH 44	103.3	100.0	111.7	105.0	105.7	84.3	82.7	90.9	85.0	92.7	94.0	100.0	96.0	93.5
54	Nidhi Pearl CHECKS	105.0	106.0	110.0	107.0	103.3	86.0	83.0	90.8	88.3	89.3	93.0	99.3	96.0	93.2
55	PMH 1	98.3	106.0	108.7	104.3	106.0	87.0	81.3	91.4	85.3	87.0	96.0	98.7	88.0	91.0
56	PMH 3	101.0	100.0	108.7	103.2	108.7	84.3	84.3	92.4	84.7	90.3	95.0	100.3	89.0	91.9
57	Seedtec 2324	104.0	106.0	110.0	106.7	108.0	83.3	80.0	90.4	87.7	88.7	90.5	98.7	96.0	92.3
58	BIO 9681	105.7	102.0	110.0	105.9	107.3	83.7	79.7	90.2	88.0	91.0	93.5	99.7	92.3	92.9
	Loc. Mean	103.0	101.7	109.9	104.9	106.6	85.2	81.9	91.2	86.4	90.5	94.7	99.3	93.1	92.8
	C.D. (5%)	2.73	0.00	1.86	4.52	4.10	5.72	0.74	3.17	9.85	5.03	4.75	1.50	11.04	3.72
	C.V. (%)	1.64	0.00	1.05	2.66	2.38	4.15	0.56	2.15	7.05	3.44	2.51	0.93	7.33	3.21
	F (Prob.)	0.00	0.00	0.01	0.89	0.00	0.75	0.00	0.93	0.13	0.00	0.00	0.00	0.27	0.01

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	Ajeet 301	78.7	98.3	84.0	95.7	101.7	107.3	94.3	90.3	86.7	84.3	90.7	88.0	93.5
2	MM1107	80.3	100.0	83.7	97.3	99.7	108.0	94.8	90.3	85.7	83.7	92.0	87.9	93.6
3	M9977	80.0	99.7	83.7	98.0	98.0	107.0	94.4	91.7	85.0	83.0	92.7	88.1	93.9
4	PFMH- 97 I 02	81.3	100.3	84.7	95.0	103.7	105.7	95.1	90.3	84.3	83.0	91.7	87.3	94.0
5	PFMH- 97 I 09	79.7	99.7	84.7	97.0	104.3	108.0	95.6	90.3	85.3	84.7	93.3	88.4	94.2
6	PFMH- 97 I 40	80.7	98.3	84.0	96.3	102.3	107.0	94.8	90.7	87.0	84.3	92.7	88.7	93.7
7	Bisco -New 704	79.3	98.7	83.3	96.3	103.3	107.0	94.7	89.7	86.0	84.0	91.7	87.8	94.3
8	Bisco -X9	79.7	102.0	83.7	96.0	103.7	105.7	95.1	90.3	85.0	84.3	92.3	88.0	94.2
9	Bisco -X 6525	80.0	102.0	84.7	97.3	104.0	107.3	95.9	89.0	86.7	85.7	93.0	88.6	94.8
10	Bisco -X-11	79.3	101.3	83.3	95.0	96.0	104.3	93.2	89.3	86.0	81.0	88.3	86.2	92.3
11	HTMH 5101 Sona	79.7	100.7	84.3	100.0	101.3	107.3	95.6	91.3	85.0	76.3	93.3	86.5	94.8
12	X8B674	80.0	100.3	83.3	95.7	97.0	105.7	93.7	88.3	86.0	82.3	90.7	86.8	93.2
13	X8B677	79.3	101.3	83.3	95.0	103.7	100.7	93.9	89.0	87.3	82.7	90.7	87.4	93.3
14	C6485	79.7	99.7	82.7	95.7	105.0	106.7	94.9	89.3	84.0	82.0	93.7	87.3	93.6
15	C1946	80.0	101.3	83.3	98.0	101.3	108.0	95.3	94.0	84.3	82.3	90.0	87.7	94.4
16	KMH-2700	80.7	101.3	83.3	94.7	101.7	100.7	93.7	89.3	81.0	83.3	91.7	86.3	93.2
17	KMH-509	79.7	105.0	83.0	97.7	100.3	106.0	95.3	92.7	85.0	84.3	92.3	88.6	94.5
18	KMH-2559	80.0	101.3	83.3	95.7	102.0	106.7	94.8	88.3	85.0	81.3	91.7	86.6	92.8
19	X35A 175	80.3	101.0	82.7	94.7	96.3	104.3	93.2	89.3	85.0	81.7	91.7	86.9	93.6
20	X35A 176	80.0	103.7	83.3	96.7	101.7	108.7	95.7	90.7	85.7	84.0	92.7	88.2	94.7
21	JKMH 102	80.0	101.7	83.3	96.7	95.7	105.0	93.7	88.3	86.0	83.0	90.0	86.8	93.3
22	JKMH 101	78.7	102.0	83.0	96.0	95.7	101.3	92.8	89.3	87.3	82.0	89.7	87.1	93.5
23	PRO 379	80.0	101.3	82.7	95.0	97.0	101.3	92.9	91.3	83.7	83.0	91.0	87.3	93.1
24	PRO 380	80.3	102.7	83.0	93.3	99.3	106.3	94.2	90.7	84.7	83.7	92.7	87.9	94.3
25	S 6668/NH 6668	79.3	100.0	84.7	97.3	99.3	106.0	94.4	90.7	85.7	84.7	93.0	88.5	94.4
26	S 6718/NH 6718	79.7	99.3	84.0	97.3	102.0	108.0	95.1	89.3	83.3	83.3	92.0	87.0	94.4
27	JH 31291	79.7	102.3	82.3	96.7	95.0	105.0	93.5	90.3	87.0	83.7	93.0	88.5	93.5
28	JH 31294	80.0	101.0	83.3	96.3	101.3	108.0	95.0	91.3	86.0	84.3	94.0	88.9	94.4
29	JH 12157	80.0	100.3	83.7	98.0	96.3	108.0	94.4	92.3	86.7	82.7	89.7	87.8	93.7
30	GH- 1004	78.3	100.3	84.0	93.7	94.7	95.3	91.1	88.0	86.7	82.0	89.3	86.5	91.9

Table No. 1 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
31	GH- 1009	77.0	100.3	84.0	92.3	95.3	96.0	90.8	87.7	85.0	82.7	89.7	86.2	91.9
32	GH- 1005	78.0	100.0	82.7	93.0	96.0	97.3	91.2	88.3	85.7	82.7	90.3	86.8	92.0
33	GH- 1008	77.0	99.0	84.0	92.0	93.7	94.0	89.9	88.0	87.0	82.0	86.0	85.8	91.1
34	A 7501	80.0	101.3	82.7	96.0	105.3	107.3	95.4	87.7	89.0	82.7	93.0	88.1	95.2
35	NMH-777	79.0	101.7	83.0	96.7	99.7	101.3	93.6	88.7	86.7	81.7	89.7	86.7	93.1
36	NMH-713	80.3	100.3	84.0	97.0	103.7	107.3	95.4	88.3	86.3	82.3	92.7	87.4	94.7
37	NMH-4040 (White)	80.3	98.3	82.7	98.0	102.0	108.0	94.9	90.0	88.0	83.0	91.3	88.1	93.9
38	GK 3090	79.7	98.0	82.7	97.0	97.7	106.7	93.6	88.7	84.7	83.7	90.7	86.9	93.1
39	GK 3094	80.3	101.7	83.3	97.7	98.0	108.0	94.8	89.3	86.7	84.7	90.3	87.8	94.5
40	Sun - Kranthi	80.3	98.7	83.3	97.0	98.0	105.3	93.8	70.7	88.0	83.0	90.3	83.0	92.8
41	CMH08-239	80.0	100.3	84.3	94.0	95.3	100.0	92.3	89.3	86.0	82.7	89.3	86.8	92.8
42	CMH08-259	80.3	100.0	84.0	100.0	97.7	108.0	95.0	92.0	85.0	82.7	91.3	87.8	94.0
43	CMH08-287	80.3	101.3	83.3	100.3	96.3	108.0	94.9	90.7	84.7	83.3	90.7	87.3	93.9
44	CMH08-337	80.3	100.7	83.7	96.3	95.7	105.3	93.7	88.3	87.3	80.0	87.3	85.8	92.4
45	KNMH-401091	80.3	101.3	83.7	94.3	100.0	100.7	93.4	88.7	84.7	83.7	92.3	87.3	92.9
46	KNMH-4010131	79.7	103.7	84.3	99.0	96.7	103.0	94.4	89.3	85.7	81.3	90.0	86.6	93.0
47	CP 111	79.3	101.3	84.3	98.0	102.7	108.0	95.6	92.3	84.0	84.0	96.7	89.3	94.0
48	CP 333	80.7	99.3	84.0	99.3	108.0	108.0	96.6	92.3	88.0	86.3	97.0	90.9	96.6
49	HP-222	80.3	101.0	83.3	95.7	97.3	101.3	93.2	89.0	83.7	82.0	89.7	86.1	92.7
50	DMR NSCH 6	79.3	101.7	83.7	100.7	97.7	107.3	95.1	92.7	85.0	84.3	93.3	88.8	95.0
51	DMR NSCH 7	79.7	100.0	84.0	94.7	97.7	100.7	92.8	88.7	85.7	84.0	91.0	87.3	93.2
52	BIO-562	79.7	100.7	84.0	99.3	100.7	108.0	95.4	92.0	85.3	84.7	94.0	89.0	95.4
53	MCH 44	80.3	103.0	83.0	97.0	103.3	107.0	95.6	91.0	86.7	83.3	93.3	88.6	94.4
54	Nidhi Pearl CHECKS	81.0	98.0	84.0	96.0	105.7	105.0	94.9	87.0	87.3	83.3	93.3	87.8	94.3
55	PMH 1	79.3	100.7	82.7	95.7	95.0	105.7	93.2	67.7	86.3	83.0	87.7	81.2	91.7
56	PMH 3	80.3	101.0	82.7	97.7	97.7	108.0	94.6	92.0	87.7	83.7	91.3	88.7	93.7
57	Seedtec 2324	78.3	103.0	83.3	96.3	99.3	101.3	93.6	89.0	87.0	82.0	89.7	86.9	93.4
58	BIO 9681	78.0	102.7	83.7	94.0	100.0	106.0	94.1	89.0	84.3	82.7	89.7	86.4	93.5
	Loc. Mean	79.7	100.8	83.5	96.4	99.6	105.0	94.2	89.2	85.8	83.0	91.4	87.4	93.7
	C.D. (5%)	2.08	2.27	1.92	2.55	4.05	1.69	2.32	10.81	2.95	4.73	1.41	3.33	1.46
	C.V. (%)	1.62	1.39	1.42	1.63	2.51	0.99	2.17	7.49	2.12	3.52	0.95	2.73	2.58
	F (Prob.)	0.11	0.00	0.86	0.00	0.00	0.00	0.00	0.27	0.00	0.89	0.00	0.05	0.00

Table No. 1 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	ZN 3 Mean
1	Ajeet 301	21.7	22.7	30.5	24.9	30.1	33.1	21.4	15.0	24.9	25.8	20.0	30.7	27.5	26.0
2	MM1107	24.2	22.3	32.4	26.3	26.7	29.1	23.5	15.0	23.6	26.7	19.9	32.5	27.3	26.6
3	M9977	23.5	22.3	31.3	25.7	28.5	32.1	20.3	15.0	24.0	25.0	19.5	33.4	26.7	26.2
4	PFMH- 97 I 02	21.5	23.0	29.3	24.6	24.3	30.7	21.2	15.0	22.8	27.0	25.1	31.6	27.6	27.8
5	PFMH- 97 I 09	24.4	23.3	29.7	25.8	27.3	33.5	20.8	15.0	24.1	26.1	23.1	27.0	27.3	25.9
6	PFMH- 97 I 40	22.3	22.7	26.1	23.7	27.6	31.7	19.9	15.0	23.6	25.8	18.0	28.5	26.5	24.7
7	Bisco -New 704	21.4	23.7	29.3	24.8	30.1	32.6	20.0	15.0	24.4	26.0	27.3	29.1	26.7	27.2
8	Bisco -X9	24.7	24.0	33.9	27.5	27.0	31.0	20.9	15.0	23.5	26.2	18.1	29.7	26.8	25.2
9	Bisco -X 6525	21.9	24.3	28.4	24.9	25.9	30.4	18.6	15.0	22.5	26.8	29.0	31.6	27.5	28.7
10	Bisco -X-11	21.5	22.0	29.3	24.2	32.1	31.6	20.7	15.0	24.9	26.5	25.5	27.0	27.6	26.6
11	HTMH 5101 Sona	26.0	23.0	35.6	28.2	29.6	32.8	22.4	15.0	25.0	25.7	24.7	28.8	26.9	26.5
12	X8B674	24.1	23.0	30.4	25.8	29.1	31.8	21.1	15.0	24.2	25.0	23.0	27.7	26.7	25.6
13	X8B677	26.0	23.0	30.1	26.4	27.7	33.4	21.3	15.0	24.3	26.2	21.5	26.1	25.4	24.8
14	C6485	23.8	23.3	33.9	27.0	27.8	30.8	21.1	15.0	23.7	26.9	22.0	29.7	25.2	26.0
15	C1946	23.8	23.3	29.8	25.6	26.4	30.6	22.5	15.0	23.6	24.8	22.3	28.0	27.5	25.6
16	KMH-2700	24.7	22.7	29.3	25.5	26.2	29.7	20.4	15.0	22.8	26.8	19.3	31.4	27.5	26.2
17	KMH-509	24.1	23.7	32.4	26.7	26.7	30.1	20.6	15.0	23.1	26.1	20.9	30.7	26.6	26.1
18	KMH-2559	22.2	23.7	34.1	26.6	30.0	29.6	19.8	15.0	23.6	26.8	23.2	32.9	25.9	27.2
19	X35A 175	24.0	23.3	29.8	25.7	26.7	30.0	25.4	15.0	24.3	25.2	19.4	32.7	27.0	26.1
20	X35A 176	29.9	23.7	29.3	27.6	27.1	31.4	20.8	15.0	23.6	25.0	21.3	29.1	26.5	25.5
21	JKMH 102	22.0	23.3	33.3	26.2	29.3	30.1	20.3	15.0	23.7	24.3	19.2	30.5	27.6	25.4
22	JKMH 101	22.1	23.3	30.2	25.2	25.4	30.6	20.9	15.0	23.0	26.3	17.5	35.8	27.1	26.7
23	PRO 379	26.9	23.0	32.0	27.3	26.5	30.7	21.3	15.0	23.4	26.0	18.2	27.2	27.0	24.6
24	PRO 380	24.3	22.7	32.0	26.3	25.9	32.8	21.7	15.0	23.8	26.6	25.6	28.9	26.5	26.9
25	S 6668/NH 6668	26.4	23.7	30.3	26.8	27.3	33.7	23.7	15.0	24.9	27.0	23.7	31.5	26.7	27.2
26	S 6718/NH 6718	23.9	23.0	33.8	26.9	26.6	32.9	24.7	15.0	24.8	26.8	25.7	29.1	25.5	26.8
27	JH 31291	25.3	22.0	32.5	26.6	29.5	32.7	20.9	15.0	24.5	26.6	21.9	30.0	27.1	26.4
28	JH 31294	22.7	22.7	31.0	25.4	28.0	32.9	21.0	15.0	24.2	24.7	19.5	29.4	27.0	25.1
29	JH 12157	26.5	24.0	30.9	27.1	27.4	31.1	19.3	15.0	23.2	27.7	25.7	30.6	27.8	27.9
30	GH- 1004	22.5	22.7	27.3	24.2	24.1	32.4	19.5	15.0	22.7	24.6	17.5	31.4	26.2	24.9

Table No. 1 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	ZN 3 Mean
31	GH- 1009	22.8	23.3	28.3	24.8	29.0	29.1	21.0	15.0	23.5	25.0	16.5	30.2	26.5	24.5
32	GH- 1005	22.5	23.0	28.5	24.6	25.8	32.5	22.6	15.0	24.0	25.3	19.1	27.0	26.6	24.5
33	GH- 1008	20.0	23.0	32.2	25.1	25.4	30.5	18.9	15.0	22.4	25.2	20.6	27.7	27.2	25.2
34	A 7501	25.3	22.7	30.1	26.0	30.9	32.1	22.3	15.0	25.1	27.4	25.5	33.4	26.5	28.2
35	NMH-777	22.8	22.7	26.9	24.1	28.6	33.6	20.3	15.0	24.4	24.7	21.3	27.3	27.3	25.1
36	NMH-713	22.2	23.0	28.3	24.5	26.9	32.0	21.8	15.0	23.9	26.1	22.3	29.7	26.3	26.1
37	NMH-4040 (White)	24.3	23.0	29.0	25.4	24.0	33.9	19.4	15.0	23.1	26.5	18.5	31.4	27.4	25.9
38	GK 3090	21.6	23.3	32.7	25.9	27.2	30.6	23.3	15.0	24.0	25.0	27.3	28.6	26.0	26.7
39	GK 3094	22.4	22.7	31.5	25.5	24.9	31.5	24.9	15.0	24.1	26.1	23.6	27.5	26.7	26.0
40	Sun - Kranthi	21.8	23.0	29.0	24.6	28.0	32.0	22.3	15.0	24.3	25.7	19.3	29.0	27.0	25.2
41	CMH08-239	22.4	22.3	27.3	24.0	25.9	33.0	20.7	15.0	23.7	25.0	21.5	31.6	27.3	26.4
42	CMH08-259	24.1	22.7	33.8	26.8	30.6	31.8	20.6	15.0	24.5	25.8	21.7	33.3	27.5	27.1
43	CMH08-287	26.1	22.7	32.5	27.1	27.0	30.8	21.3	15.0	23.5	27.7	18.7	28.2	27.0	25.4
44	CMH08-337	23.8	23.3	29.6	25.6	27.6	30.0	23.9	15.0	24.1	25.3	22.2	26.5	26.1	25.0
45	KNMH-401091	21.6	23.7	33.8	26.3	29.6	33.4	25.5	15.0	25.9	25.7	21.2	25.3	26.6	24.7
46	KNMH-4010131	23.8	22.7	30.0	25.5	26.7	32.2	20.1	15.0	23.5	25.2	26.2	26.1	27.3	26.2
47	CP 111	22.1	23.3	34.3	26.6	31.8	31.4	22.7	15.0	25.2	26.0	22.3	29.1	27.1	26.1
48	CP 333	25.7	22.3	30.4	26.1	27.5	32.0	21.7	15.0	24.1	25.8	23.9	28.4	27.1	26.3
49	HP-222	22.6	22.3	31.9	25.6	28.5	34.8	20.5	15.0	24.7	26.7	18.1	26.2	27.9	24.7
50	DMR NSCH 6	29.2	22.3	35.5	29.0	28.1	29.1	23.5	15.0	23.9	24.7	17.1	30.2	26.1	24.5
51	DMR NSCH 7	20.1	23.7	30.1	24.6	25.6	29.0	17.8	15.0	21.9	24.6	21.8	29.4	27.0	25.7
52	BIO-562	23.9	22.7	30.7	25.8	24.7	32.6	23.0	15.0	23.8	25.2	25.2	31.5	26.2	27.0
53	MCH 44	23.8	22.7	28.5	25.0	24.7	29.7	19.8	15.0	22.3	26.7	18.7	30.2	27.5	25.8
54	Nidhi Pearl CHECKS	22.7	21.3	34.6	26.2	26.8	32.0	19.9	15.0	23.4	26.1	26.3	29.8	26.7	27.2
55	PMH 1	22.5	22.7	30.5	25.2	28.3	32.7	23.1	15.0	24.8	26.3	22.0	28.3	26.9	25.9
56	PMH 3	23.9	21.7	29.5	25.0	27.9	30.9	21.0	15.0	23.7	25.2	22.5	26.2	26.4	25.1
57	Seedtec 2324	22.8	23.0	31.4	25.7	31.0	31.0	19.1	15.0	24.0	26.9	16.1	28.2	25.7	24.2
58	BIO 9681	26.0	22.3	30.7	26.3	28.1	31.5	22.0	15.0	24.2	25.8	21.1	28.9	27.2	25.7
	Loc. Mean	23.6	22.9	30.8	25.8	27.5	31.6	21.3	15.0	23.9	25.9	21.7	29.5	26.8	26.0
	C.D. (5%)	2.32	1.12	2.36	2.67	2.58	0.00	3.09	-	1.96	0.44	0.00	1.10	1.18	2.70
	C.V. (%)	6.08	3.02	4.73	6.39	5.80	0.00	8.96	-	5.88	1.06	0.00	1.86	2.73	7.44
	F (Prob.)	0.00	0.00	0.00	0.12	0.00	0.00	0.00	-	0.15	0.00	0.00	0.00	0.00	0.35

Table No. 1 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	Ajeet 301	30.1	23.1	14.3	14.3	17.9	22.3	20.3	13.9	17.8	18.9	20.5	17.7	22.4
2	MM1107	32.3	25.3	16.0	15.8	17.5	19.3	21.0	19.8	17.7	17.4	22.0	19.2	23.0
3	M9977	31.5	23.1	15.1	15.6	18.2	23.3	21.1	17.9	17.6	18.1	22.7	19.1	22.9
4	PFMH- 97 I 02	31.0	21.8	15.5	14.2	16.1	21.3	20.0	12.9	17.6	16.7	17.1	16.1	21.9
5	PFMH- 97 I 09	28.7	23.4	15.8	14.8	16.9	22.7	20.4	16.0	18.2	19.6	19.6	18.3	22.5
6	PFMH- 97 I 40	27.9	22.2	14.8	14.6	17.0	21.4	19.6	19.9	17.2	18.2	19.0	18.6	21.7
7	Bisco -New 704	29.5	19.7	14.7	14.1	17.6	23.9	19.9	19.1	17.2	18.7	19.9	18.7	22.6
8	Bisco -X9	26.5	24.6	14.7	14.3	18.0	25.6	20.6	12.9	17.7	18.2	22.0	17.7	22.5
9	Bisco -X 6525	29.7	21.5	16.2	14.4	18.0	24.3	20.7	15.9	17.6	19.4	19.5	18.1	22.6
10	Bisco -X-11	27.1	21.6	15.5	14.1	16.1	21.2	19.2	19.0	17.8	27.5	18.1	20.6	22.7
11	HTMH 5101 Sona	28.9	24.4	15.3	15.6	18.2	22.3	20.7	13.3	16.7	17.5	22.1	17.4	23.1
12	X8B674	29.3	24.1	15.3	14.7	17.3	21.7	20.4	15.9	17.3	18.5	19.1	17.7	22.4
13	X8B677	26.7	23.9	15.3	13.8	18.2	23.8	20.3	13.0	17.1	17.2	20.1	16.9	22.1
14	C6485	27.0	22.4	16.0	15.4	16.3	20.8	19.6	20.0	17.3	18.3	21.0	19.1	22.6
15	C1946	27.1	22.9	15.4	15.4	17.6	22.5	20.1	21.0	16.7	20.4	18.7	19.2	22.4
16	KMH-2700	28.6	21.2	15.4	15.4	17.3	24.2	20.3	15.1	16.5	16.9	19.5	17.0	22.0
17	KMH-509	28.5	23.7	15.7	14.5	18.4	22.4	20.5	19.9	18.0	17.6	20.9	19.1	22.7
18	KMH-2559	28.3	22.4	14.9	16.3	17.8	21.5	20.2	16.9	17.2	19.3	19.2	18.1	22.7
19	X35A 175	32.2	25.4	15.2	14.9	17.1	20.5	20.9	18.8	16.6	17.2	21.6	18.6	22.8
20	X35A 176	27.8	23.4	15.2	14.9	18.7	23.3	20.5	15.8	18.2	17.9	21.6	18.4	22.6
21	JKMH 102	28.1	20.1	14.9	15.0	18.3	23.3	19.9	18.5	16.7	19.8	22.4	19.3	22.5
22	JKMH 101	27.0	21.0	15.3	15.1	16.9	21.1	19.4	19.9	18.1	16.7	20.9	18.9	22.2
23	PRO 379	27.6	21.0	15.3	14.9	18.4	22.1	19.9	15.8	17.9	18.5	20.5	18.1	22.2
24	PRO 380	29.6	25.0	14.9	14.5	16.8	20.2	20.2	15.0	18.3	20.7	19.0	18.2	22.7
25	S 6668/NH 6668	26.7	24.5	15.2	14.2	18.3	20.7	19.9	12.9	17.7	18.7	18.8	17.0	22.7
26	S 6718/NH 6718	27.8	22.2	15.4	15.3	17.1	21.0	19.8	19.0	16.2	20.1	21.0	19.1	22.9
27	JH 31291	25.3	19.4	15.2	14.0	16.3	18.0	18.0	14.9	17.0	18.7	20.6	17.8	22.0
28	JH 31294	24.9	20.8	15.7	14.7	16.7	21.1	19.0	12.9	17.2	19.6	18.9	17.1	21.7
29	JH 12157	27.9	22.3	15.8	14.8	17.5	20.4	19.7	19.9	16.4	16.8	21.5	18.6	22.8
30	GH- 1004	23.8	19.7	14.6	14.5	18.2	21.4	18.7	16.2	17.1	19.3	17.7	17.6	21.2

Table No. 1 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
31	GH- 1009	25.3	19.9	15.6	15.4	15.8	23.9	19.3	14.1	17.7	18.7	20.3	17.7	21.6
32	GH- 1005	24.2	23.6	15.6	14.6	16.6	19.9	19.1	21.0	17.6	19.1	20.2	19.5	21.9
33	GH- 1008	24.3	22.7	14.8	14.3	15.9	20.9	18.8	12.9	16.4	18.9	20.2	17.1	21.3
34	A 7501	28.8	23.5	15.3	15.0	17.9	23.1	20.6	18.9	17.1	19.3	21.7	19.2	23.4
35	NMH-777	26.3	21.2	15.5	14.7	18.2	20.5	19.4	12.8	18.2	18.1	20.1	17.3	21.7
36	NMH-713	24.7	24.6	15.4	15.0	18.2	25.9	20.6	16.1	17.1	17.6	20.7	17.9	22.3
37	NMH-4040 (White)	23.5	20.2	15.2	13.7	13.6	18.0	17.3	19.9	17.3	17.3	19.4	18.5	21.4
38	GK 3090	25.2	22.2	14.9	14.9	17.0	21.6	19.3	17.8	16.7	18.9	18.7	18.0	22.3
39	GK 3094	25.9	23.5	15.4	14.6	18.4	20.2	19.7	19.9	17.2	16.1	19.5	18.2	22.2
40	Sun - Kranthi	26.6	23.3	15.1	14.4	17.0	20.8	19.5	18.0	15.8	26.8	17.9	19.6	22.3
41	CMH08-239	24.9	22.5	15.5	15.3	17.5	22.7	19.7	18.1	17.3	20.5	18.9	18.7	22.1
42	CMH08-259	26.9	23.9	15.6	15.5	17.9	20.6	20.1	17.9	16.7	18.2	20.3	18.3	22.9
43	CMH08-287	28.3	22.3	15.1	14.4	17.7	22.5	20.0	20.0	17.3	18.2	20.6	19.0	22.5
44	CMH08-337	26.0	23.2	15.2	14.9	17.9	20.4	19.6	16.9	16.6	18.6	20.8	18.2	22.1
45	KNMH-401091	24.6	20.2	14.5	15.2	17.9	18.6	18.5	14.0	18.3	18.7	21.1	18.0	22.1
46	KNMH-4010131	26.6	22.5	15.3	15.1	17.1	19.4	19.3	13.4	18.0	18.8	22.9	18.3	22.1
47	CP 111	26.6	27.1	14.7	16.1	18.2	23.7	21.0	20.1	17.7	18.8	21.9	19.6	23.3
48	CP 333	28.4	24.5	15.3	14.1	18.0	23.1	20.5	12.6	16.2	18.9	20.6	17.1	22.4
49	HP-222	27.5	20.6	15.1	15.6	17.7	24.7	20.2	19.8	16.6	18.3	19.7	18.6	22.4
50	DMR NSCH 6	27.6	20.7	15.9	14.6	16.1	20.9	19.3	13.1	16.7	18.9	20.7	17.4	22.2
51	DMR NSCH 7	25.7	22.8	15.0	14.7	16.0	18.8	18.8	12.5	16.9	15.8	17.5	15.7	20.9
52	BIO-562	26.6	20.9	14.9	15.5	17.6	21.5	19.5	13.6	17.0	17.9	20.5	17.2	22.2
53	MCH 44	27.0	23.1	15.5	14.1	17.6	21.8	19.8	14.0	17.1	16.9	19.8	16.9	21.6
54	Nidhi Pearl CHECKS	28.1	22.0	14.8	15.1	17.8	22.4	20.0	14.1	17.1	19.5	20.7	17.9	22.5
55	PMH 1	26.2	21.5	14.7	15.3	17.1	23.0	19.6	18.9	17.2	18.7	21.1	18.9	22.4
56	PMH 3	27.2	21.9	14.3	15.8	17.0	23.8	20.0	13.0	16.1	17.9	21.2	17.0	21.8
57	Seedtec 2324	27.6	21.7	15.3	14.4	18.0	20.2	19.5	20.1	16.5	19.0	18.7	18.5	22.0
58	BIO 9681	28.8	21.5	13.8	14.9	17.3	22.5	19.8	21.0	17.1	17.8	20.3	19.0	22.5
	Loc. Mean	27.3	22.4	15.2	14.8	17.4	21.7	19.8	16.6	17.2	18.7	20.2	18.2	22.3
	C.D. (5%)	2.02	2.19	1.12	0.87	0.73	0.81	1.42	0.55	0.78	3.53	0.94	2.61	0.98
	C.V. (%)	4.58	6.03	4.55	3.65	2.59	2.29	6.30	2.06	2.80	11.69	2.87	10.28	7.25
	F (Prob.)	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.50	0.00

Table No. 1 (Continued)

SI No.	PEDIGREE	PLANT HEIGHT (cm)											Mean			
		BAJA	BARA	KANG	ZN 1	DELH	KARN	PANT	KANP	ZN 2	BAHR	DHOL		VARA	RANC	AMBI
1	Ajeet 301	221.0	165.1	252.0	212.7	205.0	180.0	221.3	174.0	195.1	172.7	176.8	182.5	203.1	249.9	197.0
2	MM1107	233.7	209.0	233.7	225.4	216.0	190.0	231.3	176.0	203.3	187.3	199.3	226.0	226.1	265.7	220.9
3	M9977	242.0	211.4	254.7	236.0	209.7	203.3	256.7	179.0	212.2	184.3	182.8	222.5	228.6	253.9	214.4
4	PFMH- 97 I 02	206.7	227.2	247.0	226.9	217.3	190.0	251.3	174.0	208.2	161.7	186.0	227.5	225.0	252.8	210.6
5	PFMH- 97 I 09	257.7	217.1	245.7	240.1	212.0	180.0	235.3	193.0	205.1	195.7	190.8	215.0	217.3	259.8	215.7
6	PFMH- 97 I 40	225.7	208.3	222.7	218.9	197.7	190.0	237.7	188.0	203.3	186.0	174.7	212.5	206.3	246.7	205.2
7	Bisco -New 704	246.7	201.1	260.7	236.1	210.7	196.7	227.3	196.0	207.7	176.7	185.2	212.5	216.0	244.7	207.0
8	Bisco -X9	223.3	200.3	250.0	224.6	218.0	203.3	243.3	185.7	212.6	188.0	188.8	215.0	226.1	245.4	212.7
9	Bisco -X 6525	231.0	212.1	248.7	230.6	205.3	210.0	246.0	158.3	204.9	190.3	179.3	225.0	226.5	244.5	213.1
10	Bisco -X-11	222.7	206.7	259.7	229.7	193.7	193.3	240.7	175.0	200.7	174.0	182.5	212.5	222.1	225.4	203.3
11	HTMH 5101 Sona	242.0	227.5	256.7	242.1	200.7	190.0	225.3	178.3	198.6	158.3	162.2	215.0	224.1	259.0	203.7
12	X8B674	255.0	234.3	233.7	241.0	226.0	196.7	245.3	176.3	211.1	184.3	217.8	220.0	230.8	265.2	223.6
13	X8B677	236.7	209.0	236.0	227.2	223.3	183.3	248.0	198.0	213.2	194.7	199.0	225.0	220.8	256.4	219.2
14	C6485	241.7	227.0	258.0	242.2	227.0	210.0	240.0	189.0	216.5	171.7	203.3	227.0	225.1	252.7	216.0
15	C1946	248.3	215.2	249.7	237.7	227.0	203.3	248.0	185.0	215.8	188.7	201.0	235.0	223.7	235.5	216.8
16	KMH-2700	243.3	214.0	247.7	235.0	227.7	186.7	252.7	182.3	212.3	179.0	193.5	202.5	225.3	234.5	207.0
17	KMH-509	241.3	217.3	213.7	224.1	209.7	193.3	226.0	180.3	202.3	172.7	166.7	222.5	210.8	247.2	204.0
18	KMH-2559	247.7	220.2	241.7	236.5	206.3	200.0	249.3	182.0	209.4	182.7	181.0	230.0	217.0	249.3	212.0
19	X35A 175	248.7	229.3	229.7	235.9	248.0	200.0	258.7	188.0	223.7	193.7	205.7	228.8	241.0	277.0	229.2
20	X35A 176	268.0	238.3	242.0	249.4	240.7	186.7	270.7	178.3	219.1	188.0	220.8	210.0	242.3	250.9	222.4
21	JKMH 102	254.3	203.0	243.7	233.7	207.3	190.0	224.0	176.3	199.4	184.7	177.0	207.5	210.4	222.5	200.4
22	JKMH 101	230.0	203.0	260.0	231.0	186.0	203.3	237.3	187.7	203.6	175.7	174.3	256.3	204.3	232.9	208.7
23	PRO 379	215.0	209.3	226.7	217.0	192.3	180.0	242.7	192.0	201.8	174.3	184.2	216.0	226.8	236.7	207.6
24	PRO 380	241.3	207.0	248.7	232.3	226.7	193.3	249.3	184.0	213.3	187.3	193.3	223.0	232.0	270.5	221.2
25	S 6668/NH 6668	255.3	225.5	262.7	247.8	205.3	210.0	253.3	194.7	215.8	203.3	190.0	211.3	209.3	283.3	219.4
26	S 6718/NH 6718	247.3	225.7	255.7	242.9	202.7	190.0	251.3	175.0	204.8	185.3	196.2	212.0	219.2	238.3	210.2
27	JH 31291	241.0	217.0	230.7	229.6	209.3	196.7	239.7	171.0	204.2	179.0	188.0	218.0	229.7	250.2	213.0
28	JH 31294	269.7	229.0	244.7	247.8	248.7	206.7	258.0	174.7	222.0	197.0	218.2	220.5	243.3	261.6	228.1
29	JH 12157	271.7	241.3	250.0	254.3	231.3	203.3	254.0	195.3	221.0	204.3	206.0	200.0	238.1	245.5	218.8
30	GH- 1004	290.7	238.0	237.0	255.2	184.3	180.0	239.3	184.0	196.9	189.0	186.7	215.0	216.3	245.3	210.5

Table No. 1 (Continued)

SI No.	PEDIGREE	PLANT HEIGHT (cm)														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
31	GH- 1009	245.7	235.3	262.7	247.9	215.7	190.0	245.3	182.7	208.4	183.3	169.3	208.5	221.5	245.7	205.7
32	GH- 1005	250.0	226.3	257.7	244.7	202.0	210.0	241.3	185.3	209.7	173.0	177.0	206.0	208.5	253.0	203.5
33	GH- 1008	237.3	217.0	235.0	229.8	204.3	180.0	233.3	177.0	198.7	174.3	165.2	216.0	194.9	231.5	196.4
34	A 7501	212.7	218.0	256.7	229.1	196.7	180.0	239.3	169.0	196.3	167.7	171.3	198.8	208.2	231.9	195.6
35	NMH-777	212.7	228.0	241.7	227.4	201.7	183.3	229.3	184.3	199.7	167.7	174.0	212.0	211.9	252.2	203.5
36	NMH-713	229.3	232.7	232.7	231.6	200.3	183.3	228.7	177.0	197.3	183.7	172.0	217.0	228.5	260.8	212.4
37	NMH-4040 (White)	231.3	246.0	240.7	239.3	238.3	213.3	260.7	197.3	227.4	206.0	198.2	198.0	215.1	255.5	214.6
38	GK 3090	228.3	229.7	245.7	234.6	199.3	186.7	231.3	175.3	198.2	163.3	185.0	220.0	209.8	227.4	201.1
39	GK 3094	231.0	241.0	230.0	234.0	219.7	186.7	225.3	158.0	197.4	187.7	188.5	226.0	213.1	240.5	211.2
40	Sun - Kranthi	233.3	230.7	243.7	235.9	209.0	193.3	250.7	204.0	214.3	191.7	179.8	223.8	224.0	230.1	209.9
41	CMH08-239	247.3	226.3	217.0	230.2	215.7	206.7	245.3	181.0	212.2	189.0	201.3	252.0	219.6	267.9	226.0
42	CMH08-259	227.0	228.4	225.0	226.8	204.0	207.3	243.3	177.7	208.1	182.7	192.8	265.0	214.4	251.3	221.2
43	CMH08-287	279.0	237.4	249.7	255.4	251.0	206.7	258.7	185.0	225.3	205.0	212.0	194.0	245.3	261.9	223.6
44	CMH08-337	259.0	247.1	255.7	253.9	251.7	210.0	259.3	163.3	221.1	205.0	230.8	214.0	243.2	281.9	235.0
45	KNMH-401091	233.0	216.5	237.0	228.8	217.7	190.0	242.7	189.0	209.8	174.0	179.3	212.0	233.6	245.6	208.9
46	KNMH-4010131	242.3	243.8	253.0	246.4	251.3	230.0	254.7	187.7	230.9	220.7	220.7	230.0	240.9	279.3	238.3
47	CP 111	257.7	228.0	251.0	245.6	219.3	200.0	238.0	190.7	212.0	177.3	190.3	206.0	226.9	259.9	212.1
48	CP 333	253.7	234.7	249.0	245.8	206.0	183.3	246.0	197.3	208.2	180.0	189.3	213.0	233.7	266.7	216.5
49	HP-222	233.7	225.4	239.7	232.9	191.3	213.3	220.7	177.0	200.6	174.7	178.0	213.8	217.2	246.9	206.1
50	DMR NSCH 6	234.0	243.8	236.0	237.9	217.7	193.3	249.3	181.3	210.4	186.7	198.3	230.0	249.7	272.4	227.4
51	DMR NSCH 7	227.0	229.7	246.7	234.5	194.0	185.0	232.7	173.3	196.3	174.0	161.5	200.0	216.1	266.5	203.6
52	BIO-562	237.0	212.2	254.0	234.4	233.3	206.7	258.7	192.7	222.8	188.7	199.3	206.3	234.6	238.1	213.4
53	MCH 44	235.0	254.1	253.7	247.6	217.0	190.0	260.0	203.3	217.6	210.0	211.7	208.0	242.5	288.1	232.1
54	Nidhi Pearl CHECKS	207.0	233.4	245.7	228.7	213.3	193.3	240.0	186.3	208.3	179.3	179.2	210.0	212.3	253.6	206.9
55	PMH 1	254.3	217.8	257.0	243.1	254.0	213.3	243.3	183.3	223.5	216.7	223.0	241.3	232.7	245.1	231.7
56	PMH 3	273.3	234.0	242.7	250.0	233.0	213.3	256.0	191.3	223.4	195.7	223.5	200.0	225.4	264.7	221.8
57	Seedtec 2324	235.7	206.6	247.0	229.7	207.3	200.0	230.3	195.7	208.3	190.3	172.7	203.0	210.1	265.9	208.4
58	BIO 9681	246.7	199.3	234.7	226.9	209.0	193.3	236.7	177.7	204.2	183.3	180.7	212.5	227.4	231.7	207.1
	Loc. Mean	241.3	222.6	244.5	236.1	215.3	196.2	243.2	183.0	209.4	185.2	190.3	216.9	223.2	252.1	213.5
	C.D. (5%)	20.04	12.10	18.31	22.40	22.29	25.81	22.53	14.33	14.66	30.68	24.62	5.55	22.11	26.50	14.63
	C.V. (%)	5.14	3.36	4.63	5.86	6.40	8.13	5.73	4.84	5.02	10.24	8.00	1.28	6.12	6.50	5.50
	F (Prob.)	0.00	0.00	0.00	0.04	0.00	0.03	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00

Table No. 1 (Continued)

SI No.	PEDIGREE	PLANT HEIGHT(cm)											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
1	Ajeet 301	145.0	211.3	165.3	158.3	213.0	174.5	177.9	196.7	185.4	137.0	213.3	171.1	180.7	190.2
2	MM1107	167.0	212.7	166.0	178.3	224.0	202.3	191.7	201.7	202.3	177.7	248.3	187.4	203.5	207.0
3	M9977	177.0	243.7	155.7	175.0	217.7	177.7	191.1	210.0	208.5	172.7	253.3	189.7	206.8	209.1
4	PFMH- 97 I 02	166.0	201.7	171.0	183.3	228.7	198.1	191.5	220.0	222.1	176.3	238.3	168.8	205.1	206.1
5	PFMH- 97 I 09	172.0	227.3	176.7	180.0	241.0	189.8	197.8	228.3	228.5	178.0	243.3	176.2	210.9	211.3
6	PFMH- 97 I 40	172.0	224.7	196.3	170.0	236.3	188.9	198.0	211.7	181.9	177.0	230.0	166.8	193.5	202.2
7	Bisco -New 704	177.0	231.3	168.0	155.0	235.7	185.8	192.1	211.7	190.6	159.0	240.0	179.8	196.2	204.7
8	Bisco -X9	176.0	231.3	173.7	178.3	228.0	190.7	196.3	211.7	205.2	181.3	256.7	174.4	205.8	208.5
9	Bisco -X 6525	174.0	245.7	169.3	188.3	227.0	188.3	198.8	215.0	185.2	166.7	235.0	165.0	193.4	205.9
10	Bisco -X-11	164.0	223.7	181.3	166.7	219.3	185.3	190.1	215.0	218.7	155.0	226.7	165.2	196.1	201.3
11	HTMH 5101 Sona	172.0	222.7	168.7	180.0	227.7	179.4	191.7	215.0	208.8	170.3	240.0	173.1	201.5	204.2
12	X8B674	183.0	229.3	196.7	181.7	226.0	196.8	202.2	243.3	215.2	174.3	250.0	163.2	209.2	215.0
13	X8B677	186.5	221.7	172.0	170.0	220.7	193.1	194.0	213.3	213.3	170.7	241.7	180.3	203.8	209.3
14	C6485	179.0	229.3	183.7	185.0	229.0	192.2	199.7	225.0	204.1	132.0	238.3	169.2	193.7	210.4
15	C1946	171.0	215.0	203.3	180.0	210.3	187.9	194.6	198.3	211.5	182.7	245.0	174.0	202.3	210.4
16	KMH-2700	174.0	214.3	165.7	173.3	228.0	187.2	190.4	216.7	193.6	160.7	240.0	181.4	198.5	205.4
17	KMH-509	176.0	221.0	181.7	165.0	220.0	182.3	191.0	228.3	189.0	166.3	230.0	163.9	195.5	201.1
18	KMH-2559	174.0	243.3	155.0	161.7	223.3	179.2	189.4	215.0	196.0	166.7	226.7	162.2	193.3	204.8
19	X35A 175	198.0	245.7	188.0	195.0	231.0	200.9	209.8	235.0	246.4	184.7	263.3	156.4	217.2	221.4
20	X35A 176	208.0	235.7	173.7	188.3	236.3	185.5	204.6	238.3	233.7	168.7	255.0	175.6	214.3	218.9
21	JKMH 102	169.0	235.7	167.0	155.0	238.3	190.3	192.5	206.7	169.1	152.3	220.0	163.0	182.2	198.6
22	JKMH 101	169.0	235.0	170.7	170.0	227.3	182.8	192.5	210.0	188.8	149.7	228.3	180.1	191.4	202.7
23	PRO 379	164.0	208.3	163.7	163.3	206.7	168.9	179.2	190.0	180.4	186.0	221.7	165.8	188.8	196.3
24	PRO 380	174.0	210.3	187.0	166.7	223.0	180.5	190.2	211.7	255.1	175.3	253.3	171.4	213.4	211.5
25	S 6668/NH 6668	174.0	224.3	196.7	175.0	216.0	189.8	196.0	225.0	210.6	164.7	243.3	163.1	201.3	212.5
26	S 6718/NH 6718	178.0	210.7	178.7	166.7	238.3	200.1	195.4	218.3	209.7	176.3	216.7	166.8	197.6	206.9
27	JH 31291	181.0	205.3	210.3	175.0	224.3	195.1	198.5	216.7	222.1	190.0	245.0	185.5	211.8	209.6
28	JH 31294	194.5	230.7	203.3	190.0	248.3	206.4	212.2	223.3	218.6	675.7	263.3	172.1	310.6	243.4
29	JH 12157	207.5	223.0	208.0	183.3	234.7	201.3	209.6	243.3	216.9	189.0	251.7	183.3	216.8	221.0
30	GH- 1004	171.0	213.3	194.0	156.7	243.0	195.6	195.6	206.7	193.8	165.7	240.0	160.4	193.3	206.3

Table No. 1 (Continued)

SI No.	PEDIGREE	PLANT HEIGHT(cm)											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
31	GH- 1009	171.0	218.7	195.0	180.0	226.7	191.6	197.2	206.7	206.9	170.3	238.3	183.1	201.1	208.4
32	GH- 1005	168.0	241.0	184.0	168.3	206.7	189.5	192.9	218.3	208.6	150.0	235.0	183.7	199.1	206.2
33	GH- 1008	174.0	225.3	172.7	166.7	212.3	181.5	188.7	225.0	188.6	163.7	208.3	170.3	191.2	198.0
34	A 7501	168.0	215.3	179.0	158.3	227.3	170.1	186.4	196.7	159.4	140.3	213.3	173.3	176.6	193.5
35	NMH-777	173.0	234.7	197.7	168.3	218.0	185.1	196.1	200.0	205.5	163.7	235.0	167.7	194.4	202.1
36	NMH-713	172.0	233.0	182.0	170.0	239.3	190.0	197.7	221.7	172.4	168.7	248.3	172.8	196.8	205.1
37	NMH-4040 (White)	208.5	241.0	233.3	193.3	235.7	215.4	221.2	230.0	225.1	184.0	260.0	152.7	210.4	220.8
38	GK 3090	164.0	218.3	145.7	156.7	221.7	180.9	181.2	201.7	193.9	159.0	228.3	169.4	190.5	197.5
39	GK 3094	174.0	224.3	167.7	176.7	227.3	198.4	194.7	223.3	220.1	162.7	235.0	149.5	198.1	204.6
40	Sun - Kranthi	162.0	261.0	196.0	181.7	234.3	187.5	203.7	211.7	218.0	172.3	246.7	158.5	201.4	210.6
41	CMH08-239	169.0	224.0	171.7	173.3	234.0	189.3	193.5	230.0	210.3	180.3	228.3	158.7	201.5	210.4
42	CMH08-259	175.0	236.0	190.3	171.7	233.3	184.9	198.5	223.3	202.8	184.0	235.0	159.6	200.9	209.3
43	CMH08-287	176.0	215.7	208.3	203.3	233.0	214.7	208.5	238.3	243.7	194.3	271.7	160.8	221.8	223.7
44	CMH08-337	182.0	221.7	208.3	200.0	241.0	200.2	208.9	248.3	213.8	193.3	266.7	169.0	218.2	224.6
45	KNMH-401091	172.0	210.3	194.7	160.0	211.0	190.7	189.8	218.3	192.1	163.0	245.0	167.7	197.2	204.1
46	KNMH-4010131	192.0	257.0	212.7	191.7	232.7	214.9	216.8	245.0	234.5	195.7	263.3	162.0	220.1	228.5
47	CP 111	173.0	221.0	176.3	170.0	246.7	194.1	196.8	216.7	200.4	176.0	248.3	165.8	201.4	210.1
48	CP 333	182.0	245.7	177.0	185.0	235.0	199.8	204.1	211.7	233.7	187.3	256.7	163.3	210.5	214.3
49	HP-222	177.0	231.0	167.7	175.0	224.0	191.5	194.4	216.7	205.6	159.0	225.0	169.4	195.1	203.2
50	DMR NSCH 6	174.0	233.0	211.0	188.3	240.7	201.7	208.1	216.7	212.1	183.7	261.7	149.8	204.8	215.9
51	DMR NSCH 7	155.0	224.7	197.7	160.0	228.7	173.6	189.9	203.3	193.7	129.3	223.3	154.8	180.9	197.8
52	BIO-562	186.0	228.0	219.3	181.7	227.0	208.3	208.4	223.3	194.1	183.3	258.3	166.9	205.2	214.7
53	MCH 44	180.0	224.7	203.7	188.3	245.7	196.3	206.4	211.7	195.4	204.0	268.3	162.5	208.4	219.7
54	Nidhi Pearl CHECKS	173.0	244.7	189.3	180.0	232.3	189.3	201.4	210.0	223.5	173.0	240.0	164.6	202.2	207.5
55	PMH 1	173.0	235.3	201.0	173.3	235.7	197.5	202.6	223.3	209.9	186.0	253.3	163.3	207.2	218.9
56	PMH 3	175.0	235.3	203.3	171.7	235.3	199.5	203.4	226.7	239.5	173.7	273.3	163.5	215.3	219.6
57	Seedtec 2324	151.0	225.3	159.3	158.3	218.0	179.7	181.9	213.3	190.3	173.7	236.7	167.7	196.3	201.6
58	BIO 9681	135.0	222.3	154.7	175.0	228.3	184.5	183.3	213.3	180.6	175.7	225.0	166.7	192.3	199.7
	Loc. Mean	174.6	227.2	184.3	174.9	228.5	191.0	196.7	217.7	206.5	179.9	241.8	168.5	202.9	209.1
	C.D. (5%)	9.45	19.26	8.48	22.16	27.32	6.06	11.66	21.32	23.47	183.06	16.79	11.53	39.19	10.23
	C.V. (%)	3.35	5.24	2.84	7.84	7.39	1.96	5.22	6.06	7.03	62.92	4.29	4.23	15.50	8.45
	F (Prob.)	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.35	0.00	0.00	0.01	0.00

Table No.1 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean
1	Ajeet 301	106.0	67.2	119.0	97.4	107.3	90.0	95.3	83.3	94.0	77.7	84.5	87.6	72.1	80.5
2	MM1107	130.3	80.4	104.0	104.9	116.7	90.0	103.3	76.0	96.5	88.7	110.0	103.0	87.1	97.2
3	M9977	145.0	104.9	117.0	122.3	114.3	113.3	104.7	87.7	105.0	84.0	104.0	106.9	97.6	98.1
4	PFMH- 97 I 02	105.0	83.9	119.0	102.6	106.7	86.7	107.0	78.3	94.7	85.3	118.0	92.1	73.3	92.2
5	PFMH- 97 I 09	124.0	81.7	107.7	104.5	97.3	86.7	96.7	81.0	90.4	76.0	105.0	85.1	85.7	88.0
6	PFMH- 97 I 40	112.7	80.5	115.7	102.9	98.7	93.3	95.3	88.0	93.8	90.7	107.5	78.6	83.7	90.1
7	Bisco -New 704	133.3	88.4	126.0	115.9	119.0	110.0	106.0	88.3	105.8	87.3	117.3	107.8	99.1	102.9
8	Bisco -X9	113.3	77.3	125.0	105.2	112.0	106.7	109.3	96.0	106.0	90.3	110.0	107.2	89.4	99.2
9	Bisco -X 6525	116.7	80.2	122.7	106.5	101.7	113.3	90.7	77.3	95.8	94.7	122.0	97.5	78.3	98.1
10	Bisco -X-11	115.7	74.8	137.0	109.2	102.3	106.7	107.0	88.0	101.0	79.7	111.0	99.3	81.0	92.7
11	HTMH 5101 Sona	134.3	97.1	129.7	120.4	104.7	96.7	98.0	73.7	93.3	84.3	107.0	108.9	97.5	99.4
12	X8B674	134.7	106.5	120.7	120.6	124.3	106.7	112.7	83.3	106.8	101.0	106.0	115.7	90.5	103.3
13	X8B677	113.3	83.1	114.7	103.7	109.7	106.7	118.0	79.7	103.5	122.3	106.0	99.3	77.7	101.3
14	C6485	134.3	98.7	125.7	119.6	125.0	110.0	102.3	86.7	106.0	86.0	107.5	109.5	98.5	100.4
15	C1946	151.3	99.7	122.0	124.3	133.3	106.7	115.0	85.3	110.1	95.3	114.0	115.7	103.9	107.3
16	KMH-2700	120.0	72.7	125.0	105.9	107.7	96.7	94.7	71.7	92.7	73.7	100.0	96.8	72.7	85.8
17	KMH-509	114.0	83.4	102.0	99.8	108.0	96.7	100.0	77.7	95.6	80.7	125.0	86.7	84.0	94.1
18	KMH-2559	139.0	85.3	112.7	112.3	125.0	100.0	119.3	78.0	105.6	86.7	136.0	108.6	97.1	107.1
19	X35A 175	127.7	103.3	121.7	117.6	139.3	103.3	118.3	83.3	111.1	99.3	111.3	113.9	100.0	106.1
20	X35A 176	145.7	88.7	122.7	119.0	127.0	83.3	125.3	74.7	102.6	93.7	105.0	112.2	83.6	98.6
21	JKMH 102	136.0	84.7	120.0	113.6	116.7	113.3	104.7	79.7	103.6	94.3	100.0	93.3	73.4	90.3
22	JKMH 101	132.0	86.3	131.7	116.7	114.7	106.7	109.0	77.3	101.9	93.0	143.0	98.7	84.1	104.7
23	PRO 379	106.7	86.0	108.7	100.4	105.7	90.0	98.0	83.0	94.2	86.3	108.0	93.7	87.3	93.9
24	PRO 380	129.7	80.7	127.0	112.4	125.7	96.7	112.7	87.0	105.5	89.7	109.0	107.3	91.9	99.5
25	S 6668/NH 6668	129.7	84.7	127.7	114.0	117.3	110.0	118.0	86.0	107.8	94.3	107.5	97.9	103.5	100.8
26	S 6718/NH 6718	130.3	93.0	127.0	116.8	113.0	96.7	114.0	82.7	101.6	88.7	116.0	103.3	96.8	101.2
27	JH 31291	130.7	86.7	105.7	107.7	116.3	103.3	114.0	88.7	105.6	105.7	122.0	111.8	99.9	109.8
28	JH 31294	159.7	113.3	130.7	134.6	132.7	106.7	115.3	83.7	109.6	116.0	111.5	123.3	103.2	113.5
29	JH 12157	145.7	104.7	128.0	126.1	122.0	110.0	125.3	93.3	112.7	76.7	110.0	113.1	98.3	99.5
30	GH- 1004	167.0	107.3	112.0	128.8	116.7	96.7	104.0	81.0	99.6	97.0	113.0	104.3	87.1	100.4

Table No.1 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)			ZN 1					ZN 2				ZN 3	
		BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	VARA	RANC	AMBI	Mean
31	GH- 1009	140.3	111.7	123.7	125.2	117.0	90.0	114.7	80.0	100.4	89.7	118.3	108.9	84.9	100.4
32	GH- 1005	142.0	105.3	127.7	125.0	107.7	110.0	101.3	85.7	101.2	87.3	118.0	95.2	74.1	93.7
33	GH- 1008	130.7	104.0	110.7	115.1	98.3	100.0	100.7	76.7	93.9	132.0	125.0	94.5	77.3	107.2
34	A 7501	116.0	104.7	136.0	118.9	106.0	96.7	106.0	75.7	96.1	85.3	120.0	105.1	80.9	97.8
35	NMH-777	116.3	98.1	125.0	113.1	118.3	90.0	107.3	80.0	98.9	86.3	104.0	143.7	97.2	107.8
36	NMH-713	115.7	95.0	121.7	110.8	96.0	88.3	82.7	83.3	87.6	79.7	112.0	107.3	80.2	94.8
37	NMH-4040 (White)	114.0	109.0	119.7	114.2	125.7	116.7	122.7	75.0	110.0	135.0	106.0	108.2	109.5	114.7
38	GK 3090	135.3	102.0	116.7	118.0	113.0	100.0	108.3	81.0	100.6	86.7	116.5	111.6	83.4	99.5
39	GK 3094	113.3	103.3	97.0	104.6	120.7	106.7	95.3	65.7	97.1	90.0	119.0	87.5	85.1	95.4
40	Sun - Kranthi	124.3	101.0	116.0	113.8	112.7	103.3	121.3	93.7	107.8	89.0	110.0	108.9	92.3	100.0
41	CMH08-239	122.7	85.0	113.7	107.1	113.0	110.0	104.0	80.3	101.8	79.3	133.5	104.0	90.5	101.8
42	CMH08-259	125.7	96.7	101.7	108.0	117.7	110.0	112.3	78.0	104.5	84.0	145.0	108.1	94.7	108.0
43	CMH08-287	163.3	104.3	127.7	131.8	140.7	116.7	122.7	78.3	114.6	112.7	99.0	122.7	107.1	110.4
44	CMH08-337	153.3	116.3	137.7	135.8	141.3	113.3	128.3	86.3	117.3	93.3	125.0	121.5	122.0	115.5
45	KNMH-401091	135.3	85.3	125.7	115.4	124.7	100.0	110.0	82.3	104.3	79.7	118.0	122.6	83.1	100.8
46	KNMH-4010131	127.3	106.3	135.7	123.1	132.7	123.3	126.7	81.7	116.1	102.7	120.0	110.6	108.5	110.5
47	CP 111	141.7	104.0	135.0	126.9	127.0	116.7	113.3	88.7	111.4	97.7	111.0	116.0	94.4	104.8
48	CP 333	141.3	108.0	125.7	125.0	111.0	96.7	112.7	78.7	99.8	102.0	119.0	123.5	93.3	109.4
49	HP-222	126.7	109.3	110.7	115.6	118.0	106.7	98.7	81.3	101.2	89.3	106.8	103.7	94.7	98.6
50	DMR NSCH 6	115.7	102.0	110.7	109.4	113.7	93.3	110.7	78.7	99.1	86.7	128.0	110.3	96.9	105.5
51	DMR NSCH 7	107.7	91.8	117.0	105.5	100.0	91.7	106.7	81.0	94.8	87.7	111.0	103.9	76.9	94.9
52	BIO-562	130.3	81.6	117.7	109.9	122.7	113.3	119.3	73.7	107.3	82.7	110.5	107.2	77.9	94.6
53	MCH 44	124.0	89.0	129.7	114.2	125.7	93.3	107.0	96.3	105.6	99.3	86.0	108.6	91.5	96.4
54	Nidhi Pearl CHECKS	96.3	96.9	116.0	103.1	109.7	100.0	100.0	85.7	98.8	88.3	87.0	93.7	81.7	87.7
55	PMH 1	149.0	87.2	126.7	120.9	142.7	110.0	109.7	83.7	111.5	116.3	125.0	117.3	107.2	116.5
56	PMH 3	159.0	100.8	123.7	127.8	135.0	123.3	120.0	90.3	117.2	117.7	108.0	132.4	115.9	118.5
57	Seedtec 2324	132.0	94.0	116.0	114.0	119.3	113.3	110.0	91.0	108.4	112.0	112.0	99.1	99.5	105.7
58	BIO 9681	145.3	93.5	114.0	117.6	124.7	96.7	113.3	77.0	102.9	105.3	110.0	119.1	95.8	107.6
	Loc. Mean	129.8	94.0	120.5	114.7	117.2	102.8	109.0	82.2	102.8	93.4	112.9	106.5	90.9	100.9
	C.D. (5%)	20.99	7.94	15.10	16.71	14.11	23.81	15.08	15.04	10.41	28.36	4.93	20.84	15.76	14.70
	C.V. (%)	10.00	5.23	7.75	9.00	7.45	14.32	8.56	11.31	7.26	18.78	2.18	12.10	10.71	10.44
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.14	0.00	0.01	0.00	0.00	0.00	0.00

Table No.1 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)					ZN 4		BANS	GODH	CHHI	ZN 5	OV'L
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI				Mean	Mean
1	Ajeet 301	85.0	50.3	86.7	108.7	92.2	84.6	93.3	80.2	52.0	101.7	81.8	87.0
2	MM1107	108.0	62.0	95.0	115.0	103.5	96.7	96.7	98.6	84.7	125.0	101.2	98.9
3	M9977	121.0	60.0	86.7	115.0	95.7	95.7	101.7	100.1	77.7	120.0	99.9	102.9
4	PFMH- 97 I 02	103.0	46.7	81.7	116.0	94.7	88.4	113.3	118.5	80.0	98.3	102.5	95.4
5	PFMH- 97 I 09	105.0	62.7	96.7	124.0	92.1	96.1	101.7	105.3	74.7	110.0	97.9	94.9
6	PFMH- 97 I 40	108.0	75.7	81.7	116.7	98.1	96.0	90.0	82.1	73.7	105.0	87.7	93.8
7	Bisco -New 704	115.0	68.0	83.3	123.3	99.6	97.9	113.3	108.7	76.3	120.0	104.6	104.5
8	Bisco -X9	116.0	70.3	100.0	120.3	99.1	101.1	111.7	108.6	79.0	118.3	104.4	103.0
9	Bisco -X 6525	111.0	51.0	88.3	118.3	95.8	92.9	90.0	83.6	62.3	98.3	83.6	94.7
10	Bisco -X-11	105.0	74.7	83.3	112.3	96.3	94.3	108.3	101.4	64.3	115.0	97.3	98.2
11	HTMH 5101 Sona	118.0	53.0	93.3	117.0	90.9	94.5	100.0	103.8	71.7	125.0	100.1	100.2
12	X8B674	125.0	78.0	98.3	114.3	110.7	105.3	121.7	105.8	80.0	121.7	107.3	107.9
13	X8B677	112.3	78.7	83.3	111.0	100.9	97.2	101.7	105.2	76.0	113.3	99.1	100.6
14	C6485	119.0	62.7	91.7	115.7	102.5	98.3	106.7	98.8	79.7	118.3	100.9	104.0
15	C1946	118.0	67.0	91.7	108.0	108.1	98.6	101.7	114.0	90.0	130.0	108.9	108.5
16	KMH-2700	112.0	54.0	80.0	111.3	98.9	91.3	98.3	84.2	65.0	115.0	90.6	92.5
17	KMH-509	114.0	56.3	83.3	110.0	95.2	91.8	101.7	97.1	72.3	111.7	95.7	95.0
18	KMH-2559	116.0	56.3	80.0	110.0	94.6	91.4	113.3	102.1	80.3	115.0	102.7	102.8
19	X35A 175	121.0	60.7	96.7	116.3	103.0	99.5	125.0	117.1	84.7	121.7	112.1	108.4
20	X35A 176	125.0	54.0	93.3	119.0	95.3	97.3	111.7	103.8	63.0	121.7	100.0	102.4
21	JKMH 102	117.0	62.0	78.3	126.0	99.4	96.5	105.0	102.1	64.7	123.3	98.8	99.7
22	JKMH 101	114.0	67.3	91.7	117.3	98.1	97.7	113.3	105.3	62.7	118.3	99.9	103.2
23	PRO 379	108.0	62.0	76.7	104.0	87.6	87.7	78.3	95.1	70.3	111.7	88.9	92.4
24	PRO 380	119.0	61.7	86.7	112.7	93.4	94.7	100.0	105.3	84.7	116.7	101.7	101.9
25	S 6668/NH 6668	119.5	70.7	90.0	111.0	106.5	99.5	120.0	112.6	76.0	120.0	107.1	105.1
26	S 6718/NH 6718	120.0	62.0	80.0	128.3	115.5	101.2	106.7	106.6	79.7	136.7	107.4	104.8
27	JH 31291	120.0	62.3	98.3	117.7	103.6	100.4	115.0	117.1	89.0	130.0	112.8	106.9
28	JH 31294	132.0	70.3	105.0	126.3	110.8	108.9	126.7	118.6	81.0	130.0	114.1	114.8
29	JH 12157	123.0	77.3	90.0	118.7	103.5	102.5	126.7	110.5	89.3	118.3	111.2	109.2
30	GH- 1004	116.0	72.0	88.3	128.0	109.1	102.7	100.0	93.7	80.3	126.7	100.2	105.0

Table No.1 (Continued)

SI No.	PEDIGREE	EAR HEIGHT(cm)					ZN 4					ZN 5		OV'L
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
31	GH- 1009	113.0	83.0	93.3	124.0	98.9	102.4	108.3	98.7	79.0	125.0	102.8	105.1	
32	GH- 1005	112.0	63.3	91.7	119.7	91.6	95.7	110.0	105.4	71.7	123.3	102.6	102.2	
33	GH- 1008	113.0	64.0	85.0	104.0	100.2	93.2	118.3	106.9	66.7	108.3	100.1	100.8	
34	A 7501	114.0	74.7	83.3	121.7	96.1	98.0	95.0	96.3	65.0	106.7	90.7	99.3	
35	NMH-777	115.0	71.3	90.0	111.7	103.9	98.4	101.7	97.3	73.3	126.7	99.8	102.9	
36	NMH-713	118.0	77.7	80.0	126.3	93.3	99.1	86.7	102.1	71.3	108.3	92.1	96.3	
37	NMH-4040 (White)	129.0	65.3	96.7	122.7	119.5	106.6	130.0	108.4	83.0	136.7	114.5	111.6	
38	GK 3090	112.0	53.7	80.0	112.7	103.1	92.3	115.0	91.7	67.0	116.7	97.6	100.3	
39	GK 3094	109.0	69.0	88.3	114.3	102.2	96.6	111.7	111.9	72.0	108.3	101.0	98.5	
40	Sun - Kranthi	114.0	64.0	95.0	123.0	99.3	99.1	100.0	110.8	78.7	118.3	102.0	103.8	
41	CMH08-239	104.0	64.3	88.3	119.3	94.2	94.0	103.3	106.9	79.7	101.7	97.9	99.9	
42	CMH08-259	114.0	65.3	93.3	123.3	105.9	100.4	118.3	106.9	79.0	118.3	105.6	104.9	
43	CMH08-287	119.0	70.0	106.7	119.7	122.1	107.5	146.7	130.3	92.0	145.0	128.5	117.3	
44	CMH08-337	123.0	74.7	108.3	125.7	121.3	110.6	133.3	119.0	93.0	145.0	122.6	119.1	
45	KNMH-401091	119.0	87.7	76.7	107.0	102.5	98.6	116.7	101.3	72.3	130.0	105.1	104.0	
46	KNMH-4010131	125.0	73.7	93.3	122.0	116.3	106.1	115.0	118.0	88.0	131.7	113.2	112.9	
47	CP 111	111.0	69.3	90.0	136.3	109.7	103.3	106.7	98.7	84.3	135.0	106.2	109.3	
48	CP 333	113.0	61.0	101.7	118.3	109.8	100.8	101.7	117.4	92.0	125.0	109.0	107.6	
49	HP-222	109.0	63.7	86.7	116.7	107.1	96.6	113.3	97.0	73.0	121.7	101.3	101.7	
50	DMR NSCH 6	114.0	68.7	95.0	119.7	104.3	100.3	86.7	116.4	81.7	113.3	99.5	102.3	
51	DMR NSCH 7	102.0	87.0	83.3	117.0	93.9	96.7	106.7	90.0	58.0	108.3	90.7	96.1	
52	BIO-562	112.0	84.7	91.7	114.7	109.3	102.5	113.3	104.1	78.7	120.0	104.0	103.3	
53	MCH 44	117.0	70.7	88.3	128.0	101.9	101.2	96.7	95.5	93.0	125.0	102.6	103.3	
54	Nidhi Pearl CHECKS	113.0	52.0	86.7	119.0	96.5	93.4	96.7	105.1	67.3	116.7	96.5	95.4	
55	PMH 1	115.0	87.3	95.0	122.3	117.0	107.3	118.3	98.6	86.3	141.7	111.2	112.8	
56	PMH 3	117.0	72.3	91.7	121.7	108.7	102.3	115.0	141.9	75.3	143.3	118.9	115.7	
57	Seedtec 2324	98.0	72.7	76.7	112.3	96.8	91.3	120.0	105.5	85.0	131.7	110.5	104.8	
58	BIO 9681	85.0	51.3	96.7	123.0	112.7	93.7	120.0	98.3	85.3	130.0	108.4	104.9	
	Loc. Mean	113.9	66.8	89.5	117.9	102.3	98.1	108.6	104.6	76.8	120.7	102.7	103.0	
	C.D. (5%)	8.55	5.59	17.76	17.59	3.25	8.65	17.51	16.64	18.40	10.57	10.85	5.31	
	C.V. (%)	4.64	5.17	12.27	9.23	1.96	7.08	9.97	9.83	14.81	5.42	7.57	8.31	
	F (Prob.)	0.00	0.00	0.06	0.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Table No. 1 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean
1	Ajeet 301	86.6	80.4	75.0	80.7	84.6	80.0	84.4	74.5	80.9	85.3	79.3	90.2	81.7	84.1
2	MM1107	83.8	80.1	79.5	81.1	86.1	77.0	83.5	70.5	79.3	81.3	76.5	84.3	79.4	80.4
3	M9977	81.5	72.5	84.0	79.3	86.1	74.0	83.5	74.0	79.4	79.1	79.0	86.3	77.2	80.4
4	PFMH- 97 I 02	85.3	81.0	75.5	80.6	86.4	78.0	86.7	70.5	80.4	75.8	75.5	88.3	87.2	81.7
5	PFMH- 97 I 09	85.2	79.9	86.0	83.7	86.7	74.0	77.8	72.0	77.6	82.1	77.0	86.8	78.0	81.0
6	PFMH- 97 I 40	85.6	81.6	81.5	82.9	85.1	71.0	85.0	74.0	78.8	81.0	78.5	82.9	77.0	79.8
7	Bisco -New 704	84.1	79.9	73.5	79.2	83.0	69.0	80.8	77.0	77.4	79.6	79.0	86.1	79.0	80.9
8	Bisco -X9	86.8	77.2	82.5	82.2	87.7	80.0	86.7	72.0	81.6	82.6	78.0	90.7	80.3	82.9
9	Bisco -X 6525	85.9	72.1	80.5	79.5	85.2	81.0	84.0	77.0	81.8	79.2	76.0	77.1	85.4	79.4
10	Bisco -X-11	85.5	79.9	84.0	83.1	86.3	80.0	81.5	74.0	80.4	82.9	76.5	87.7	83.5	82.7
11	HTMH 5101 Sona	84.8	83.5	78.5	82.3	84.7	76.0	82.7	77.0	80.1	76.6	79.0	87.7	78.7	80.5
12	X8B674	85.1	81.1	79.0	81.7	83.3	83.0	82.0	70.0	79.6	76.9	79.0	85.9	82.3	81.0
13	X8B677	83.5	81.0	82.0	82.2	84.5	78.0	78.2	74.0	78.7	84.1	79.8	87.2	82.8	83.4
14	C6485	83.2	83.7	80.0	82.3	85.8	83.0	82.5	74.0	81.3	82.0	81.0	86.7	80.2	82.5
15	C1946	85.0	83.2	80.0	82.7	83.7	78.0	88.2	75.0	81.2	81.8	80.5	86.1	82.8	82.8
16	KMH-2700	81.8	72.4	82.5	78.9	84.2	71.0	84.3	74.0	78.4	80.1	77.8	90.9	83.6	83.1
17	KMH-509	84.0	75.2	82.0	80.4	83.5	80.0	80.0	72.0	78.9	77.9	77.0	87.6	79.7	80.6
18	KMH-2559	82.0	83.5	79.0	81.5	82.7	80.0	84.7	77.0	81.1	85.0	76.0	85.4	85.4	82.9
19	X35A 175	84.4	83.4	83.0	83.6	86.0	78.0	81.2	71.0	79.1	77.5	75.3	83.0	80.8	79.1
20	X35A 176	83.8	81.3	81.5	82.2	86.9	75.0	84.3	73.0	79.8	81.6	76.5	88.3	83.9	82.6
21	JKMH 102	85.0	83.0	84.0	84.0	84.4	75.0	84.3	72.0	78.9	80.0	75.0	86.8	83.3	81.3
22	JKMH 101	86.4	83.2	84.5	84.7	85.5	78.0	83.3	71.0	79.5	81.2	80.0	84.6	80.0	81.4
23	PRO 379	78.2	77.7	79.0	78.3	83.5	78.0	81.4	72.0	78.7	87.9	77.0	84.7	81.9	82.9
24	PRO 380	85.2	84.9	82.0	84.0	84.9	83.0	84.6	72.0	81.1	80.1	76.5	88.1	77.8	80.6
25	S 6668/NH 6668	81.2	75.4	79.0	78.6	85.1	71.0	78.6	70.5	76.3	80.1	76.5	84.9	77.9	79.9
26	S 6718/NH 6718	84.2	75.7	84.5	81.5	85.4	78.0	82.5	70.0	79.0	78.0	79.0	85.3	82.6	81.2
27	JH 31291	83.7	80.8	85.5	83.3	86.5	78.0	88.9	70.0	80.8	82.2	80.0	89.3	83.6	83.8
28	JH 31294	84.3	82.5	80.5	82.4	86.6	76.0	86.7	74.0	80.8	82.8	76.3	86.5	80.2	81.4
29	JH 12157	84.0	77.9	79.0	80.3	83.1	80.0	82.4	72.0	79.4	81.2	79.0	85.2	81.0	81.6
30	GH- 1004	81.7	79.1	81.0	80.6	84.4	75.0	85.7	72.0	79.3	75.6	81.0	85.4	78.9	80.2

Table No. 1 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean
31	GH- 1009	85.1	79.2	80.5	81.6	85.8	74.0	80.0	72.0	78.0	59.6	75.8	84.3	80.4	75.0
32	GH- 1005	85.4	81.0	82.0	82.8	84.5	76.0	78.6	75.0	78.5	81.9	77.0	86.5	80.4	81.5
33	GH- 1008	81.5	80.2	77.5	79.7	82.9	78.0	85.2	70.0	79.0	73.7	76.0	86.3	80.6	79.1
34	A 7501	88.9	81.8	83.0	84.6	87.7	80.0	84.2	74.0	81.5	87.8	75.3	87.6	81.8	83.1
35	NMH-777	86.3	80.5	82.5	83.1	82.1	78.0	76.5	73.0	77.4	79.2	78.5	84.5	77.1	79.8
36	NMH-713	80.5	78.6	83.5	80.9	87.0	76.0	82.6	74.0	79.9	77.9	80.0	88.5	81.0	81.8
37	NMH-4040 (White)	87.0	83.3	80.5	83.6	82.4	78.0	85.3	71.0	79.2	84.7	75.8	85.5	79.8	81.4
38	GK 3090	87.7	82.7	77.5	82.6	87.0	85.0	89.5	74.0	83.9	82.0	76.5	88.0	79.6	81.5
39	GK 3094	82.8	83.9	83.0	83.2	82.9	72.0	81.3	72.0	77.0	76.6	78.0	84.0	78.5	79.3
40	Sun - Kranthi	81.1	84.8	78.0	81.3	79.3	78.0	81.3	74.0	78.1	77.9	77.0	82.5	83.6	80.2
41	CMH08-239	82.8	83.2	76.0	80.7	83.3	81.0	85.7	70.0	80.0	80.7	76.5	83.3	84.1	81.1
42	CMH08-259	83.8	83.7	84.5	84.0	79.6	73.0	87.2	75.0	78.7	78.1	76.0	80.4	78.1	78.1
43	CMH08-287	85.9	80.4	82.0	82.8	85.2	72.0	88.2	74.0	79.9	80.6	75.8	85.6	80.1	80.5
44	CMH08-337	83.4	82.2	81.0	82.2	82.0	77.0	85.0	76.0	80.0	80.1	76.5	87.2	79.6	80.8
45	KNMH-401091	83.1	76.1	72.5	77.2	83.3	78.0	83.3	71.0	78.9	82.2	75.0	86.8	72.5	79.1
46	KNMH-4010131	81.6	81.1	83.5	82.0	83.2	74.0	83.3	72.0	78.1	83.1	74.8	84.1	83.1	81.2
47	CP 111	86.1	83.4	84.0	84.5	81.4	78.0	87.5	74.0	80.2	75.8	79.0	84.9	83.7	80.8
48	CP 333	82.7	82.6	75.0	80.1	81.2	88.0	78.6	74.0	80.4	63.2	80.0	83.4	77.2	75.9
49	HP-222	86.2	77.2	84.5	82.6	85.2	71.0	78.5	71.0	76.4	83.9	79.8	82.9	80.2	81.7
50	DMR NSCH 6	80.1	74.9	86.0	80.3	81.0	80.0	75.0	73.0	77.3	82.7	80.0	81.9	76.3	80.2
51	DMR NSCH 7	77.9	76.7	83.5	79.4	85.0	83.0	84.0	74.0	81.5	80.4	82.5	84.3	78.1	81.3
52	BIO-562	84.2	82.9	80.5	82.5	82.0	76.0	88.0	70.0	79.0	84.1	78.0	83.4	83.7	82.3
53	MCH 44	83.7	82.5	80.5	82.2	85.9	77.0	81.2	75.0	79.8	79.3	77.5	88.1	84.0	82.2
54	Nidhi Pearl CHECKS	79.2	80.9	77.0	79.0	84.9	76.0	85.6	72.0	79.6	81.1	78.5	86.6	76.9	80.8
55	PMH 1	85.4	83.5	83.0	84.0	85.2	80.0	84.7	70.0	80.0	80.1	80.8	86.5	82.0	82.3
56	PMH 3	81.9	82.0	84.5	82.8	84.6	76.0	85.9	71.0	79.4	79.5	79.0	88.0	84.1	82.6
57	Seedtec 2324	85.9	83.3	81.0	83.4	83.3	79.0	87.5	70.0	79.9	79.3	80.5	86.2	80.6	81.6
58	BIO 9681	86.1	81.0	84.0	83.7	85.4	78.0	86.2	73.0	80.7	78.9	75.8	86.0	83.3	81.0
	Loc. Mean	83.9	80.5	81.0	81.8	84.4	77.4	83.4	72.8	79.5	79.9	77.8	85.8	80.8	81.1
	C.D. (5%)	0.00	2.44	2.93	4.53	1.58	-	-	0.21	3.93	4.99	1.11	3.19	5.95	4.18
	C.V. (%)	0.00	1.87	2.24	3.43	1.16	-	-	0.18	3.54	3.86	0.71	2.30	4.55	3.69
	F (Prob.)	0.00	0.00	0.00	0.20	0.00	-	0.00	0.00	0.44	0.00	0.00	0.00	0.01	0.15

Table No. 1 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %										ZN 5 Mean	OV'L Mean		
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI	JHAB
1	Ajeet 301	88.4	76.6	86.8	85.6	78.9	85.0	83.5	83.9	70.4	81.7	82.4	79.2	79.5	81.9
2	MM1107	85.3	77.9	84.1	84.1	82.3	83.3	82.8	83.1	69.2	72.0	80.1	83.9	77.7	80.3
3	M9977	84.9	84.4	81.7	86.5	81.4	79.1	83.0	79.2	74.9	81.4	88.7	80.0	80.8	80.9
4	PFMH- 97 I 02	85.1	75.8	84.7	83.7	82.0	80.1	81.9	83.9	70.6	81.5	83.5	81.8	80.2	81.0
5	PFMH- 97 I 09	86.3	80.3	85.3	86.3	84.0	83.6	84.3	80.9	71.6	81.5	80.8	82.2	79.4	81.3
6	PFMH- 97 I 40	84.0	81.6	83.0	83.7	78.7	83.8	82.5	82.9	68.1	82.4	80.4	78.7	78.5	80.5
7	Bisco -New 704	84.7	82.8	84.4	87.6	80.6	79.9	83.3	79.9	69.4	86.8	82.6	84.1	80.5	80.6
8	Bisco -X9	88.1	79.5	86.3	84.6	83.3	85.1	84.5	87.3	69.9	83.4	84.8	85.7	82.2	82.8
9	Bisco -X 6525	86.1	78.5	85.6	84.2	79.6	86.4	83.4	83.1	69.6	81.9	80.6	85.5	80.1	81.1
10	Bisco -X-11	87.9	83.4	85.3	89.0	77.2	86.6	84.9	86.0	71.5	82.4	85.2	82.8	81.6	82.7
11	HTMH 5101 Sona	88.0	83.0	83.4	86.2	77.8	78.6	82.8	82.9	69.2	75.3	81.3	83.6	78.5	80.8
12	X8B674	83.6	81.1	83.3	84.8	77.7	81.0	81.9	83.9	69.6	79.3	80.5	81.1	78.9	80.6
13	X8B677	85.3	80.9	82.8	84.1	80.8	83.7	82.9	86.9	70.2	81.3	82.0	84.3	80.9	81.7
14	C6485	82.3	81.8	84.1	84.6	83.9	85.1	83.6	81.0	66.7	79.5	77.5	79.6	76.9	81.3
15	C1946	85.9	82.8	83.2	84.9	82.7	84.4	84.0	80.0	70.6	81.0	79.0	79.4	78.0	81.7
16	KMH-2700	84.1	80.1	84.1	85.5	78.1	82.0	82.3	79.9	69.4	82.0	82.3	83.8	79.5	80.6
17	KMH-509	85.3	81.8	85.0	83.8	77.6	82.6	82.7	86.1	69.6	81.9	77.5	86.2	80.3	80.7
18	KMH-2559	86.5	75.3	83.1	85.9	75.2	79.5	80.9	83.1	68.9	73.8	79.8	80.8	77.3	80.6
19	X35A 175	84.1	81.6	84.6	86.7	76.9	84.4	83.0	83.8	70.1	80.7	78.3	82.9	79.2	80.8
20	X35A 176	87.2	82.5	87.7	84.6	77.7	83.5	83.9	84.2	71.5	81.0	82.8	82.0	80.3	81.8
21	JKMH 102	84.8	81.9	83.9	86.0	78.6	85.1	83.4	86.1	67.9	79.4	78.0	80.9	78.5	81.2
22	JKMH 101	84.2	82.5	84.6	88.1	76.9	79.7	82.7	86.0	70.7	83.3	80.2	78.9	79.8	81.5
23	PRO 379	82.1	80.3	83.9	90.1	78.6	75.9	81.8	85.8	69.9	83.2	75.5	80.8	79.0	80.3
24	PRO 380	86.1	81.6	85.1	85.1	83.3	82.6	83.9	80.5	69.7	82.3	82.9	84.7	80.0	81.9
25	S 6668/NH 6668	84.5	80.1	83.2	86.2	84.4	79.3	83.0	83.9	68.1	77.1	81.4	82.7	78.6	79.6
26	S 6718/NH 6718	84.6	77.9	86.3	87.1	80.7	82.1	83.1	86.6	69.6	79.4	79.0	79.8	78.9	80.8
27	JH 31291	87.6	82.4	86.2	85.4	79.2	84.2	84.2	86.5	70.4	85.5	83.9	83.5	81.9	82.9
28	JH 31294	85.5	81.1	86.5	86.2	78.5	80.2	83.0	84.1	70.7	83.3	81.7	84.2	80.8	81.7
29	JH 12157	82.8	82.0	85.9	85.7	81.6	77.5	82.6	83.0	69.1	79.6	81.9	82.6	79.2	80.7
30	GH- 1004	83.6	83.5	83.1	87.6	78.8	83.5	83.3	84.9	69.7	85.1	79.8	83.4	80.6	81.0

Table No. 1 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
31	GH- 1009	81.0	80.0	81.7	88.6	81.7	82.0	82.5	83.0	69.0	75.5	78.9	87.3	78.7	79.3
32	GH- 1005	84.2	79.6	85.1	88.2	81.7	84.3	83.8	84.9	71.6	80.8	82.2	79.8	79.8	81.4
33	GH- 1008	83.8	78.8	86.1	86.6	78.1	83.1	82.7	87.1	68.9	87.1	79.5	84.0	81.3	80.7
34	A 7501	88.7	79.6	87.0	86.5	83.2	85.0	85.0	88.3	69.2	88.9	86.7	81.0	82.8	83.4
35	NMH-777	85.1	80.3	83.8	86.4	81.6	83.1	83.4	77.9	70.1	77.1	78.2	78.3	76.3	80.0
36	NMH-713	88.3	79.4	86.2	84.9	81.4	85.0	84.2	79.3	71.2	80.4	80.5	81.7	78.6	81.3
37	NMH-4040 (White)	83.7	81.6	82.9	85.0	79.9	83.4	82.7	77.5	68.1	80.3	77.3	85.8	77.8	80.9
38	GK 3090	86.3	82.4	85.1	84.4	80.9	82.2	83.5	85.0	69.2	84.5	83.0	85.2	81.4	82.6
39	GK 3094	83.7	83.3	80.8	87.3	79.5	71.2	80.9	84.8	70.7	80.4	79.0	81.2	79.2	79.8
40	Sun - Kranthi	83.1	81.7	85.4	82.8	78.1	73.3	80.7	79.9	68.2	72.0	86.2	81.6	77.6	79.5
41	CMH08-239	84.9	83.2	83.1	87.2	81.0	82.1	83.6	85.8	70.2	78.9	78.7	84.1	79.5	81.2
42	CMH08-259	81.2	78.6	80.8	86.0	78.6	73.2	79.7	82.0	69.2	74.8	74.1	81.8	76.4	79.1
43	CMH08-287	84.6	82.6	83.4	85.5	79.5	81.2	82.8	85.9	72.1	80.0	80.7	79.5	79.6	81.1
44	CMH08-337	83.2	78.0	83.8	89.9	79.2	77.3	81.9	83.9	69.8	77.7	79.4	81.8	78.5	80.6
45	KNMH-401091	83.1	83.3	83.8	84.1	78.9	84.9	83.0	81.0	68.5	86.9	77.6	81.6	79.1	79.9
46	KNMH-4010131	82.4	80.6	81.5	85.3	81.5	78.2	81.6	82.9	70.2	74.9	77.4	79.4	76.9	79.9
47	CP 111	84.5	84.6	83.8	85.0	78.9	77.9	82.4	82.2	69.7	79.5	78.9	79.4	77.9	81.0
48	CP 333	82.9	79.1	81.6	86.2	79.3	78.6	81.3	82.9	66.2	78.8	77.2	83.4	77.7	79.2
49	HP-222	85.4	82.7	83.6	86.7	79.1	85.4	83.8	85.0	69.2	76.0	79.3	84.0	78.7	80.7
50	DMR NSCH 6	81.8	80.6	81.7	84.5	82.7	74.0	80.9	82.0	70.1	78.7	75.5	80.7	77.4	79.2
51	DMR NSCH 7	83.8	81.1	82.8	86.1	80.9	77.4	82.0	83.0	69.1	78.8	82.7	82.0	79.1	80.8
52	BIO-562	90.5	83.7	86.5	88.1	83.8	77.7	85.0	79.7	68.6	82.1	80.6	82.3	78.7	81.6
53	MCH 44	86.8	83.3	83.6	83.0	77.9	83.8	83.0	79.7	71.1	81.1	80.1	81.2	78.6	81.2
54	Nidhi Pearl CHECKS	84.8	80.9	84.7	86.6	81.2	81.9	83.3	79.2	69.7	83.1	78.4	81.8	78.5	80.5
55	PMH 1	83.7	80.6	85.6	86.0	86.5	83.6	84.3	83.0	69.1	83.9	79.9	80.5	79.3	82.0
56	PMH 3	86.8	82.5	82.6	86.0	81.2	84.8	84.0	82.9	69.1	82.5	75.9	80.8	78.2	81.4
57	Seedtec 2324	88.9	78.8	84.9	83.8	76.5	83.9	82.8	85.8	69.2	80.5	79.6	81.8	79.4	81.4
58	BIO 9681	86.4	82.0	85.0	85.1	78.2	85.9	83.8	83.7	68.2	81.4	81.4	84.9	79.9	81.8
	Loc. Mean	85.0	81.0	84.2	85.9	80.1	81.6	83.0	83.2	69.7	80.6	80.4	82.2	79.2	81.0
	C.D. (5%)	1.93	3.03	3.10	2.13	1.41	1.03	2.51	0.50	2.04	4.61	2.46	5.24	3.00	1.53
	C.V. (%)	1.41	2.31	2.27	1.53	1.08	0.78	2.66	0.37	1.81	3.54	1.89	3.94	3.04	3.20
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.12	0.00	0.00

Table No. 1 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)														
	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1 Ajeet 301	67.5	35.4	72.9	58.6	51.7	60.7	43.3	72.2	57.0	65.3	58.3	82.3	50.0	24.4	56.1
2 MM1107	70.6	42.4	55.6	56.2	59.4	69.0	61.7	71.5	65.4	68.1	51.1	72.9	68.5	48.9	61.9
3 M9977	69.8	41.0	68.8	59.9	63.3	69.6	60.6	77.8	67.8	71.5	55.0	67.7	66.7	38.3	59.8
4 PFMH- 97 I 02	73.0	38.2	68.8	60.0	55.6	65.5	57.2	73.6	63.0	66.0	55.0	83.3	56.5	32.8	58.7
5 PFMH- 97 I 09	71.4	43.1	68.8	61.1	43.3	60.7	61.1	63.9	57.3	69.4	52.8	66.7	48.2	25.0	52.4
6 PFMH- 97 I 40	70.6	48.6	68.8	62.7	54.4	63.7	62.2	68.1	62.1	66.0	57.2	78.1	61.3	27.2	58.0
7 Bisco -New 704	69.0	66.7	57.6	64.5	50.6	63.7	61.1	72.9	62.1	63.2	56.1	77.1	65.5	50.0	62.4
8 Bisco -X9	65.1	43.1	68.1	58.7	52.8	63.7	61.7	73.6	62.9	63.9	45.6	70.8	50.0	32.2	52.5
9 Bisco -X 6525	64.3	47.2	70.8	60.8	49.4	62.5	53.9	80.6	61.6	66.7	53.9	81.3	53.6	45.0	60.1
10 Bisco -X-11	65.9	38.2	60.4	54.8	53.3	64.3	60.0	72.2	62.5	61.8	54.4	78.1	69.0	38.9	60.5
11 HTMH 5101 Sona	62.7	61.8	56.3	60.3	59.4	64.9	57.8	71.5	63.4	67.4	54.4	59.4	64.9	48.9	59.0
12 X8B674	73.8	43.8	55.6	57.7	60.0	62.5	60.0	72.9	63.9	67.4	57.2	74.0	63.1	27.2	57.8
13 X8B677	66.7	40.3	62.5	56.5	61.7	61.3	61.1	73.6	64.4	70.1	54.4	69.8	44.6	38.9	55.6
14 C6485	65.9	45.8	80.6	64.1	62.8	66.1	63.3	73.6	66.4	70.1	55.6	76.0	58.9	48.9	61.9
15 C1946	63.5	42.4	64.6	56.8	58.3	65.5	60.6	71.5	64.0	56.3	52.8	69.8	58.9	31.7	53.9
16 KMH-2700	68.3	55.6	66.0	63.3	61.1	66.1	58.9	75.0	65.3	67.4	53.9	74.0	58.3	40.6	58.8
17 KMH-509	65.9	61.8	70.8	66.2	63.9	69.0	63.3	72.2	67.1	63.2	56.7	74.0	70.2	45.0	61.8
18 KMH-2559	69.0	57.6	59.7	62.1	56.7	68.5	59.4	78.5	65.8	67.4	58.3	61.5	55.4	46.1	57.7
19 X35A 175	66.7	58.3	47.2	57.4	67.2	65.5	62.8	77.8	68.3	61.1	58.3	83.3	64.3	53.3	64.1
20 X35A 176	73.8	57.6	63.9	65.1	61.1	67.9	62.2	73.6	66.2	64.6	55.6	80.2	63.7	35.0	59.8
21 JKMH 102	64.3	25.0	64.6	51.3	61.1	66.1	62.2	71.5	65.2	63.2	55.6	74.0	57.1	38.9	57.7
22 JKMH 101	65.1	50.7	47.9	54.6	53.3	66.7	54.4	72.9	61.8	66.0	55.0	74.0	59.5	36.1	58.1
23 PRO 379	64.3	50.7	66.0	60.3	65.0	63.7	57.8	78.5	66.2	66.0	55.6	64.6	64.3	50.6	60.2
24 PRO 380	60.3	61.8	64.6	62.2	57.8	66.7	56.1	71.5	63.0	68.1	54.4	76.0	57.1	42.8	59.7
25 S 6668/NH 6668	65.9	63.2	47.9	59.0	59.4	63.7	59.4	76.4	64.7	70.1	54.4	75.0	56.0	55.0	62.1
26 S 6718/NH 6718	71.4	65.3	64.6	67.1	58.3	66.7	57.2	77.8	65.0	63.9	57.2	82.3	63.7	40.0	61.4
27 JH 31291	65.1	70.1	70.8	68.7	61.1	62.5	57.8	76.4	64.4	61.8	53.9	83.3	61.9	46.1	61.4
28 JH 31294	70.6	43.8	64.6	59.7	57.8	60.7	60.0	72.2	62.7	66.0	51.7	80.2	61.3	45.6	60.9
29 JH 12157	65.1	56.9	70.8	64.3	62.8	61.3	60.6	79.9	66.1	70.1	57.2	80.2	66.1	38.3	62.4
30 GH- 1004	63.5	55.6	70.8	63.3	58.9	64.9	58.3	70.1	63.1	60.4	56.1	81.3	58.9	48.9	61.1

Table No. 1 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)														
	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
31 GH- 1009	70.6	59.0	75.0	68.2	62.8	61.9	55.0	64.6	61.1	63.2	55.0	79.2	63.7	36.1	59.4
32 GH- 1005	67.5	60.4	66.7	64.8	48.3	61.3	61.1	72.2	60.7	63.2	57.2	81.3	58.9	55.0	63.1
33 GH- 1008	65.1	52.8	63.9	60.6	60.0	65.5	58.3	68.1	63.0	66.0	55.0	76.0	56.0	50.6	60.7
34 A 7501	68.3	49.3	60.4	59.3	55.0	67.9	53.3	72.2	62.1	65.3	55.0	80.2	61.3	36.1	59.6
35 NMH-777	73.0	50.0	72.9	65.3	62.8	64.3	58.9	75.0	65.2	68.1	57.8	72.9	48.8	49.4	59.4
36 NMH-713	73.0	66.0	70.8	69.9	62.2	64.3	57.2	78.5	65.6	63.9	53.3	72.9	67.3	40.0	59.5
37 NMH-4040 (White)	68.3	64.6	72.2	68.4	55.0	61.3	58.9	63.9	59.8	56.9	53.3	80.2	60.1	48.3	59.8
38 GK 3090	74.6	66.0	68.1	69.5	55.0	66.1	56.7	77.1	63.7	66.0	56.1	75.0	60.7	40.0	59.6
39 GK 3094	71.4	55.6	66.7	64.6	47.8	65.5	47.8	76.4	59.4	67.4	56.1	67.7	48.8	30.6	54.1
40 Sun - Kranthi	65.1	53.5	64.6	61.0	57.2	63.7	57.2	72.9	62.8	59.7	53.9	78.1	58.3	42.8	58.6
41 CMH08-239	65.9	58.3	77.1	67.1	53.3	63.7	51.1	70.8	59.7	65.3	57.2	76.0	58.3	37.8	58.9
42 CMH08-259	72.2	48.6	70.8	63.9	54.4	69.6	59.4	71.5	63.8	70.8	50.6	78.1	47.6	27.2	54.9
43 CMH08-287	60.3	61.1	68.8	63.4	61.1	63.7	39.4	72.9	59.3	70.8	53.3	83.3	42.9	28.3	55.7
44 CMH08-337	67.5	50.7	66.0	61.4	52.8	65.5	60.0	70.8	62.3	66.0	51.1	76.0	59.5	52.8	61.1
45 KNMH-401091	65.9	49.3	61.8	59.0	58.9	61.3	52.8	79.2	63.0	70.1	51.7	71.9	58.9	35.6	57.6
46 KNMH-4010131	61.9	50.0	75.0	62.3	53.9	64.3	51.1	71.5	60.2	61.8	55.0	72.9	51.8	44.4	57.2
47 CP 111	61.1	50.0	75.0	62.0	33.9	64.9	55.0	66.7	55.1	66.7	52.2	75.0	53.6	36.7	56.8
48 CP 333	65.9	50.0	43.1	53.0	51.1	63.1	56.7	72.9	60.9	62.5	52.8	71.9	56.0	32.2	55.1
49 HP-222	68.3	68.1	60.4	65.6	57.2	64.9	53.9	68.1	61.0	62.5	53.9	81.3	58.9	33.9	58.1
50 DMR NSCH 6	66.7	73.6	62.5	67.6	63.9	63.7	52.2	77.1	64.2	54.9	54.4	80.2	58.3	51.7	59.9
51 DMR NSCH 7	59.5	50.0	68.8	59.4	64.4	64.9	45.6	80.6	63.9	61.1	54.4	78.1	58.9	59.4	62.4
52 BIO-562	65.9	38.2	47.2	50.4	61.1	66.1	60.6	75.0	65.7	66.7	53.3	76.0	57.1	32.8	57.2
53 MCH 44	69.0	45.1	68.8	61.0	60.6	62.5	59.4	72.2	63.7	65.3	56.7	69.8	66.7	42.2	60.1
54 Nidhi Pearl CHECKS	65.9	41.0	64.6	57.1	65.0	63.7	60.0	64.6	63.3	63.2	56.7	80.2	61.9	39.4	60.3
55 PMH 1	64.3	41.7	75.0	60.3	61.1	64.9	55.0	75.0	64.0	65.3	54.4	71.9	55.4	42.2	57.8
56 PMH 3	68.3	50.0	64.6	60.9	64.4	63.7	58.9	79.2	66.5	65.3	56.1	75.0	67.3	56.1	64.0
57 Seedtec 2324	67.5	50.7	70.8	63.0	53.9	61.3	61.7	69.4	61.6	67.4	53.9	79.2	67.3	46.1	62.8
58 BIO 9681	63.5	50.0	75.0	62.8	60.6	65.5	61.7	70.1	64.5	64.6	56.1	76.0	64.3	49.4	62.1
Loc. Mean	67.2	52.0	65.5	61.5	57.6	64.5	57.5	73.1	63.2	65.2	54.7	75.6	59.1	41.3	59.2
C.D. (5%)	7.35	6.81	12.55	12.33	12.71	6.88	9.31	3.97	5.87	5.97	5.64	17.67	12.54	12.58	6.93
C.V. (%)	6.76	8.10	11.85	12.39	13.65	6.59	10.01	3.35	6.65	5.66	6.37	11.66	13.13	18.81	9.39
F (Prob.)	0.00	0.00	0.00	0.52	0.01	0.70	0.00	0.00	0.01	0.00	0.16	0.86	0.00	0.00	0.19

Table No. 1 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)											ZN 5 Mean	OV'L Mean	
	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
1 Ajeet 301	64.4	61.1	60.6	66.1	62.5	66.0	63.4	78.5	61.8	76.4	66.1	69.4	70.4	61.6
2 MM1107	63.3	61.1	57.2	60.0	57.7	66.7	61.0	77.8	61.1	63.2	64.4	69.4	67.2	62.7
3 M9977	57.8	65.0	61.7	63.3	61.3	66.7	62.6	82.6	65.3	77.8	65.6	77.8	73.8	65.0
4 PFMH- 97 I 02	58.3	62.8	57.2	59.4	60.1	65.3	60.5	77.1	58.3	69.4	62.2	58.3	65.1	61.5
5 PFMH- 97 I 09	55.0	62.2	58.9	61.1	64.3	66.0	61.2	78.5	58.3	76.4	63.9	59.7	67.4	59.9
6 PFMH- 97 I 40	56.1	60.6	63.3	66.7	59.5	66.7	62.1	77.1	59.0	78.5	62.8	65.3	68.5	62.7
7 Bisco -New 704	52.8	65.6	61.1	61.1	54.8	65.3	60.1	79.9	61.1	75.7	66.1	55.6	67.7	63.1
8 Bisco -X9	53.9	59.4	60.6	59.4	59.5	66.0	59.8	76.4	59.0	31.9	66.7	54.2	57.6	58.2
9 Bisco -X 6525	48.9	61.1	61.7	59.4	61.3	65.3	59.6	74.3	61.8	67.4	65.0	54.2	64.5	61.3
10 Bisco -X-11	56.1	61.1	60.0	63.9	57.7	64.6	60.6	79.9	61.1	84.7	66.7	50.7	68.6	61.9
11 HTMH 5101 Sona	51.7	63.9	61.7	56.7	60.7	64.6	59.9	75.0	59.0	63.2	63.3	63.9	64.9	61.4
12 X8B674	53.3	58.9	56.7	66.7	66.1	66.0	61.3	79.2	59.7	77.1	66.7	53.5	67.2	61.8
13 X8B677	57.2	60.0	58.9	66.1	63.1	63.9	61.5	80.6	59.7	67.4	66.1	62.5	67.3	61.3
14 C6485	43.3	64.4	58.3	64.4	56.5	63.9	58.5	77.1	57.6	78.5	63.9	47.2	64.9	62.7
15 C1946	51.1	61.1	55.6	62.8	54.2	66.7	58.6	77.8	57.6	60.4	66.7	70.1	66.5	60.0
16 KMH-2700	57.8	61.1	60.0	62.8	60.1	66.7	61.4	75.7	60.4	81.9	65.6	58.3	68.4	63.3
17 KMH-509	54.4	60.6	58.3	66.7	57.7	64.6	60.4	86.1	55.6	75.0	64.4	63.9	69.0	64.5
18 KMH-2559	60.6	64.4	56.7	64.4	53.0	63.2	60.4	81.3	59.0	80.6	64.4	56.9	68.4	62.7
19 X35A 175	57.8	66.7	58.9	66.7	56.0	66.0	62.0	81.3	60.4	85.4	66.1	61.1	70.9	64.9
20 X35A 176	58.3	63.3	56.1	64.4	61.3	66.0	61.6	74.3	63.2	81.9	66.7	65.3	70.3	64.4
21 JKMH 102	58.3	65.6	58.3	60.0	60.7	64.6	61.3	80.6	60.4	78.5	65.6	66.7	70.3	61.9
22 JKMH 101	50.0	65.6	57.2	61.1	58.9	66.0	59.8	75.0	63.2	61.1	66.1	68.1	66.7	60.6
23 PRO 379	53.9	61.1	55.0	61.1	56.5	64.6	58.7	75.0	57.6	85.4	65.6	69.4	70.6	63.1
24 PRO 380	57.8	62.2	61.7	62.8	60.1	64.6	61.5	75.0	67.4	78.5	65.0	71.5	71.5	63.6
25 S 6668/NH 6668	48.3	62.2	57.8	65.0	57.7	66.0	59.5	79.2	57.6	77.1	66.7	75.7	71.2	63.5
26 S 6718/NH 6718	57.2	66.1	61.7	63.3	63.7	66.0	63.0	77.1	62.5	80.6	66.7	72.2	71.8	65.5
27 JH 31291	53.9	58.3	58.9	61.7	56.5	65.3	59.1	75.7	56.9	75.7	61.1	73.6	68.6	63.8
28 JH 31294	53.3	57.8	57.2	65.0	57.1	65.3	59.3	78.5	66.7	81.9	65.0	77.8	74.0	63.5
29 JH 12157	48.3	65.0	58.3	65.0	57.7	64.6	59.8	80.6	61.8	72.9	66.7	75.0	71.4	64.6
30 GH- 1004	54.4	61.1	55.6	63.3	57.1	66.0	59.6	77.8	57.6	78.5	65.0	65.3	68.8	63.0

Table No. 1 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)											ZN 5 Mean	OV'L Mean	
	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
31 GH- 1009	60.0	62.2	61.1	62.8	56.0	64.6	61.1	75.0	58.3	67.4	63.9	69.4	66.8	62.9
32 GH- 1005	61.7	63.3	59.4	62.8	55.4	66.0	61.4	74.3	59.0	75.7	66.1	70.8	69.2	63.8
33 GH- 1008	57.8	64.4	58.3	61.1	56.0	64.6	60.4	80.6	54.2	63.2	64.4	62.5	65.0	61.9
34 A 7501	57.8	60.0	59.4	65.6	55.4	65.3	60.6	82.6	61.8	83.3	65.0	65.3	71.6	62.9
35 NMH-777	57.8	71.1	54.4	58.9	57.7	65.3	60.9	79.9	63.2	80.6	65.0	68.1	71.3	64.2
36 NMH-713	60.0	63.9	61.7	66.1	60.7	66.0	63.1	77.1	61.8	78.5	63.9	65.3	69.3	65.0
37 NMH-4040 (White)	59.4	60.6	58.9	57.2	65.5	66.7	61.4	80.6	59.0	72.9	66.1	66.7	69.1	63.3
38 GK 3090	47.2	62.2	59.4	65.6	58.9	66.0	59.9	75.0	55.6	77.1	65.6	62.5	67.1	63.3
39 GK 3094	60.0	62.8	57.8	63.9	62.5	65.3	62.0	68.8	61.1	76.4	65.6	55.6	65.5	60.9
40 Sun - Kranthi	57.2	61.1	56.7	66.1	61.9	65.3	61.4	72.2	61.1	78.5	64.4	53.5	65.9	62.0
41 CMH08-239	65.6	60.0	61.7	63.3	59.5	65.3	62.6	79.9	60.4	52.8	65.6	60.4	63.8	62.1
42 CMH08-259	59.4	61.1	57.2	62.2	60.1	66.7	61.1	79.2	59.0	64.6	66.7	55.6	65.0	61.4
43 CMH08-287	58.9	58.3	59.4	62.8	58.9	65.3	60.6	79.2	63.2	61.1	64.4	72.9	68.2	61.3
44 CMH08-337	58.3	60.6	56.7	61.1	61.3	64.6	60.4	81.3	59.0	81.9	65.0	63.9	70.2	63.1
45 KNMH-401091	56.7	62.8	56.7	62.2	60.1	66.0	60.7	77.8	59.7	59.0	64.4	66.7	65.5	61.3
46 KNMH-4010131	55.0	59.4	59.4	60.0	61.3	66.0	60.2	84.7	56.3	70.8	63.3	61.1	67.3	61.4
47 CP 111	46.7	62.8	55.0	60.0	63.7	63.9	58.7	75.0	62.5	61.8	66.7	56.3	64.4	59.3
48 CP 333	50.0	62.8	58.3	62.2	64.3	66.0	60.6	71.5	61.1	73.6	66.7	55.6	65.7	59.6
49 HP-222	52.8	62.2	63.9	60.6	62.5	66.0	61.3	77.8	58.3	71.5	62.8	68.1	67.7	62.5
50 DMR NSCH 6	58.9	61.7	60.0	63.3	57.7	65.3	61.2	75.0	56.9	61.1	61.7	61.1	63.2	62.7
51 DMR NSCH 7	49.4	65.0	62.2	63.9	61.9	66.0	61.4	83.3	60.4	85.4	63.9	61.1	70.8	63.8
52 BIO-562	50.0	62.8	55.0	63.9	63.7	66.7	60.3	79.9	57.6	83.3	62.2	56.3	67.9	60.9
53 MCH 44	58.3	66.1	58.3	66.7	56.0	64.6	61.7	78.5	61.1	76.4	65.6	68.1	69.9	63.4
54 Nidhi Pearl CHECKS	60.0	68.3	57.8	63.3	58.3	63.9	61.9	79.9	61.1	69.4	65.0	68.1	68.7	62.7
55 PMH 1	60.0	65.6	57.2	65.0	65.5	65.3	63.1	76.4	59.0	86.8	66.1	66.7	71.0	63.5
56 PMH 3	58.3	62.2	52.8	63.9	59.5	66.0	60.5	79.9	61.1	76.4	65.6	72.2	71.0	64.6
57 Seedtec 2324	62.8	61.1	56.1	61.1	61.9	64.6	61.3	77.1	58.3	80.6	63.9	62.5	68.5	63.4
58 BIO 9681	61.7	64.4	56.1	64.4	58.3	66.0	61.8	73.6	62.5	75.0	66.7	59.7	67.5	63.7
Loc. Mean	56.0	62.6	58.6	62.9	59.6	65.4	60.9	77.9	60.1	73.6	65.0	63.9	68.1	62.6
C.D. (5%)	11.98	8.31	6.81	7.16	6.10	2.17	3.31	5.59	6.25	10.99	3.61	9.28	6.88	2.95
C.V. (%)	13.22	8.21	7.19	7.04	6.32	2.05	4.79	4.43	6.43	9.23	3.43	8.97	8.10	8.16
F (Prob.)	0.19	0.89	0.58	0.61	0.00	0.19	0.57	0.00	0.10	0.00	0.22	0.00	0.07	0.00

TABLE No.2

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN IET, TRIAL No. TR62 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		BAJA R		BARA R		KANG R		MEAN R		DELH R		KARN R		LUDH R		PANT R		KANP R		ZN 1	
1	NMH-3095	9988	20	3497	37	9194	7	6742	24	5433	38	5067	35	8632	28	4121	44	5024	40	6241	34
2	PFMH- 96 I 41	10193	15	3225	46	6779	34	6709	25	6259	18	4856	46	8531	31	3977	46	5375	32	6254	31
3	PFMH- 96 I 26	9283	36	3327	45	6299	38	6305	40	5725	31	4902	44	8092	36	5293	20	4580	48	5858	48
4	PFMH- 96 N 46 (W)	10524	7	4089	14	5453	55	7306	9	4227	58	5151	32	8109	35	4137	43	6730	13	6663	23
5	Bisco -2668	11323	3	4032	17	4693	60	7677	3	5638	36	7064	2	10053	20	7488	1	5156	38	7424	12
6	KDMH 176	10749	5	3862	25	6802	32	7306	10	6055	21	5170	31	10567	15	7286	4	5956	24	7231	16
7	Safal X-2	10106	17	3451	40	9672	5	6779	23	6669	14	5131	33	11167	8	2630	61	4018	51	6772	22
8	X8B684	11728	2	3890	24	6147	42	7809	2	8457	2	7446	1	11831	4	7380	2	9347	1	9541	1
9	X8B685	8371	48	3435	41	4072	63	5903	50	7368	7	4730	50	10878	13	4953	23	3371	57	6327	27
10	KMH-48	10324	12	3413	42	6162	41	6869	21	5975	23	4934	42	5900	59	3877	49	6719	14	5851	49
11	P3540	10206	14	3705	28	7379	21	6955	17	6558	16	6458	6	9336	25	6239	9	5128	39	6974	18
12	Hy. P3293	9449	32	3673	30	8144	10	6561	28	6730	12	6349	9	10704	14	4809	26	4957	43	7337	13
13	Hy. P3396	8957	42	3920	21	7181	24	6439	34	6559	15	4754	49	11052	9	4587	32	8333	3	8047	6
14	X35A173	9954	21	4012	19	6936	28	6983	16	5714	33	5023	38	10124	18	5306	19	4212	49	6453	25
15	X35A174	9507	31	3128	54	6866	30	6317	39	5906	26	5220	29	9472	24	5592	13	4778	46	6490	24
16	JKMH-7014	6679	56	4562	8	6055	44	5620	53	5709	34	5841	16	6700	49	3834	50	6146	22	6229	36
17	JKMH-7004	8659	46	5137	2	7126	25	6898	19	5947	24	5178	30	9093	26	4325	39	2361	62	5544	54
18	S 6217	9326	33	3988	20	7757	13	6657	27	7223	9	6958	4	12197	1	6330	8	7148	9	8768	2
19	S 6304	10750	4	4091	13	11832	1	7420	7	6716	13	5876	15	10247	17	5483	15	5674	26	7266	15
20	JH 31404	9652	30	4164	11	10653	3	6908	18	7404	6	5353	26	10937	12	6752	5	2470	61	6254	32
21	NMH-1242	8814	43	3360	43	7597	16	6087	45	7115	10	5484	25	11563	5	5363	18	5312	34	7453	11
22	NMH-589 (Suvarna)	9313	34	3109	55	8648	8	6211	42	5252	44	4846	47	7862	39	4220	41	6428	18	6379	26
23	VMH-4106	9071	38	5131	3	9621	6	7101	14	5700	35	4053	59	11021	10	4176	42	5610	27	6895	20
24	KH-B63	10381	11	4343	10	4829	58	7362	8	5875	28	6672	5	10118	19	7306	3	7512	8	8101	5
25	KH-B52	10235	13	4106	12	6188	40	7171	13	7301	8	6164	12	9590	23	4967	22	8088	5	7948	7
26	KH-B55	10089	18	4905	5	5566	52	7497	5	4816	50	3926	61	8410	33	4347	38	3913	54	5416	56
27	KNMH-401061	9729	27	4042	16	6017	45	6886	20	4974	48	4561	55	7581	42	4562	34	4773	47	5638	52
28	CMH08-284	8987	40	3152	53	5638	50	6069	48	5197	45	5644	22	9038	27	5597	12	3616	56	6099	43
29	CMH08-292	9809	25	3175	50	7666	15	6492	30	8045	4	6350	8	10953	11	4456	37	6074	23	7792	9
30	CMH08-350	10020	19	3596	34	7541	17	6808	22	8388	3	5056	36	11393	6	4949	24	2250	63	6233	35
31	CMH08-433	9017	39	3910	23	7402	20	6463	31	6843	11	5948	13	11864	3	5479	16	6782	12	8198	4
32	Yuvraj Gold	12006	1	5016	4	10916	2	8511	1	7809	5	5047	37	12157	2	3939	48	6527	16	7910	8
33	Titan	10445	9	2964	59	5691	49	6704	26	5308	42	4953	40	9649	22	5524	14	6674	15	7092	17
34	IMH-111	8982	41	3171	51	6501	36	6076	47	5859	29	5762	18	8621	29	4606	31	4012	52	6132	40
35	IMH-666	9696	28	3168	52	6275	39	6432	35	4335	57	5659	21	7918	37	3436	56	4837	45	6135	39

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : KANG 20.7 %: DELH 23.6 %: PANT 28.7 %: DHOL 23.2 %: ARBH 24.1 %:CHHI 75.4%

TABLE No.2 (Cont..)

S1	ZN 1 GRAIN YIELD (kg/ha) AT 15% MOISTURE														ZN 2						
No	PEDIGREE	BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	KANP	R	MEAN	R
36	SMH-9	6460	58	3342	44	5468	54	4901	59	4802	51	5335	28	6592	52	3237	57	6988	11	6305	28
37	AMH-2002	9687	29	3204	48	6799	33	6445	32	6130	20	6383	7	7460	45	4664	29	4956	44	6266	29
38	EHL 161708	10395	10	2391	63	6925	29	6393	38	5427	39	5335	27	8211	34	4518	35	5239	36	6262	30
39	EHL 163909	9243	37	3645	32	5298	56	6444	33	4044	59	6264	11	3531	63	4609	30	5464	29	5087	59
40	EHL 164810	8048	50	3076	56	4712	59	5562	54	4757	53	5894	14	7545	43	3750	52	3841	55	5760	50
41	EHL 164910	9917	22	3191	49	4545	61	6554	29	5014	47	4264	57	6298	54	6156	10	5455	30	5339	58
42	L230	8543	47	3653	31	4265	62	6098	44	3132	63	4182	58	5948	58	4486	36	8128	4	6086	44
43	EH-2074	9891	23	2912	60	5513	53	6402	37	5148	46	4611	53	6081	57	3977	45	7881	6	6191	38
44	EC-3161	6403	59	2990	57	6003	46	4697	62	4355	56	4934	41	7099	48	3685	53	4991	41	5675	51
45	BH41001	10143	16	3910	22	8130	11	7026	15	5256	43	5121	34	11252	7	6407	6	9273	2	8549	3
46	BH41009	6675	57	2874	61	7982	12	4775	61	6179	19	5693	20	7665	41	5862	11	5269	35	6209	37
47	BIO-688	10603	6	4647	7	9818	4	7625	4	5725	32	4994	39	10422	16	3960	47	7563	7	7660	10
48	BIO-151	9799	26	5152	1	7111	26	7476	6	8515	1	6323	10	9968	21	6335	7	5508	28	7266	14
49	HKH - 411	6209	62	3686	29	5566	51	4947	57	4717	54	4665	51	6596	51	2821	60	5383	31	5548	53
50	HKH - 412	6345	61	3465	39	5833	48	4905	58	4769	52	3410	63	5200	61	3123	58	3214	59	3941	63
51	HKH - 414	9877	24	4541	9	6825	31	7209	12	6445	17	3989	60	8554	30	4872	25	5186	37	5910	46
52	HKH - 316	6403	60	3219	47	6139	43	4811	60	4937	49	5826	17	6392	53	4286	40	3995	53	5405	57
53	REH 2009-15	10492	8	4066	15	8301	9	7279	11	5622	37	4356	56	7899	38	3071	59	6482	17	6245	33
54	REH 2009-18	9284	35	3551	35	7507	18	6418	36	5336	41	4572	54	7527	44	3440	55	6217	20	6105	42
55	REH 2009-20	7834	51	3628	33	7247	23	5731	52	5877	27	5748	19	6694	50	5439	17	5772	25	6071	45
56	MMH-09-1	7433	53	2971	58	7695	14	5202	55	5786	30	5641	23	7783	40	5061	21	6997	10	6807	21
57	MMH-09-2	7199	55	2865	62	7374	22	5032	56	6013	22	4878	45	7306	46	3825	51	6147	21	6110	41
58	MMH-09-3	8702	45	3795	27	5935	47	6248	41	3936	60	5556	24	7148	47	3566	54	4971	42	5892	47
59	MMH-09-4	8341	49	3817	26	4965	57	6079	46	3773	61	4630	52	5714	60	1923	63	3281	58	4542	61
CHECKS																					
60	Navjot	7747	52	4015	18	7049	27	5881	51	5924	25	4918	43	6123	56	4709	27	2963	60	4668	60
61	BIO 9637	8795	44	3538	36	6326	37	6166	43	5418	40	6968	3	8530	32	4687	28	5332	33	6943	19
62	HM 8	7349	54	4739	6	6722	35	6044	49	3451	62	4839	48	4061	62	2114	62	4101	50	4334	62
63	HM 9	5598	63	3483	38	7417	19	4541	63	4687	55	3879	62	6203	55	4587	33	6319	19	5467	55
Location Mean		9139		3716		6901		6427		5782		5314		8590		4706		5505		6470	
Mean Stand		27		27		34		27		30		34		37		31		34		35	
C.D. (5%)		1210		666		2305		938		2207		1062		1504		2182		1101		1222	
C.V. (%)		8.19		11.09		20.67		-		23.62		12.37		10.83		28.69		12.38		-	
F (Prob)		0		0		0		0		0		0		0		0		0		0	
Plot Size		4.2		4.8		4.8		-		6		5.6		5.46		6		4.8		-	
AGRONOMY DATA																					
Sowing Date		19-06		8-06		14-06		-		7-12		26-06		24-06		26-06		30-07		-	
Harvest Date		14-10		28-11		4-10		-		28-10		28-09		10-01		4-10		10-11		-	
Irrigation Nos		3		-		-		-		-		4		3		-		-		-	
Fertilizer Applied N		120		80		120		-		150		150		90		120		120		-	
Fertilizer Applied P		60		60		60		-		75		60		30		60		60		-	
Fertilizer Applied K		40		40		40		-		75		60		-		40		40		-	

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3							
		BAHR	R	DHOL	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R
1	NMH-3095	7785	35	4753	31	3930	51	9571	25	4839	26	6531	32	5317	63	7969	59	8381	15	6439	56
2	PFMH- 96 I 41	8384	29	4290	36	4126	44	9818	23	5679	7	7002	22	6891	59	9257	42	6390	46	9603	14
3	PFMH- 96 I 26	7872	34	3677	53	4629	29	8409	48	4380	43	6322	38	10454	7	8669	49	4490	58	9592	17
4	PFMH- 96 N 46 (W)	8638	22	3768	50	3564	58	8876	39	4863	23	6485	34	6876	60	10421	28	7329	37	7553	48
5	Bisco -2668	10323	7	7407	2	5184	17	10429	8	4531	34	7617	9	7474	53	9546	34	6432	45	10399	6
6	KDMH 176	9179	12	5990	11	5360	14	10383	9	5854	5	7694	8	7801	49	10258	30	8454	14	8286	36
7	Safal X-2	9033	18	7303	3	5401	11	11010	4	4529	35	7493	13	10291	8	9215	44	5243	55	9592	16
8	X8B684	10428	4	6007	9	5390	12	11424	1	6220	2	8366	2	9775	11	7760	61	8920	8	8675	26
9	X8B685	8221	31	5570	17	3585	57	8903	38	4201	51	6227	43	7035	57	7949	60	8104	21	8262	38
10	KMH-48	6676	57	3696	52	4194	40	9291	27	6136	4	6574	29	11239	3	9251	43	7597	31	8276	37
11	P3540	9552	10	3641	55	5418	10	9173	31	4857	24	7250	18	7277	54	9741	32	7474	34	9548	19
12	Hy. P3293	10493	2	6004	10	5576	8	10170	15	5112	18	7838	5	9709	13	10530	26	8130	19	9136	23
13	Hy. P3396	11672	1	5970	12	5182	18	9868	22	5487	10	8052	4	9920	10	11597	8	5814	53	9603	15
14	X35A173	10355	6	5594	15	4141	43	9153	32	4604	32	7063	21	11497	2	9071	46	7093	41	10344	8
15	X35A174	9293	11	5440	20	4124	45	10579	6	5409	12	7351	15	8591	32	8119	58	3405	62	10607	3
16	JKMH-7014	6803	55	3357	59	2288	62	8577	44	4189	52	5464	60	8447	37	9536	36	5443	54	8448	32
17	JKMH-7004	7784	36	3194	61	4028	48	7374	55	5441	11	6157	45	7858	48	10929	21	7559	33	9535	20
18	S 6217	9152	14	6365	8	5007	21	9618	24	5248	15	7257	17	8826	27	10558	25	8982	6	8626	27
19	S 6304	8295	30	5558	18	4144	42	10175	14	5727	6	7085	20	8485	35	11147	14	8201	17	10756	1
20	JH 31404	9598	8	3660	54	5387	13	10330	10	4312	46	7407	14	9168	23	11295	9	6206	49	9927	10
21	NMH-1242	7510	42	4489	33	4454	33	10151	16	5499	9	6904	24	8141	43	11090	15	8261	16	8492	31
22	NMH-589 (Suvarna)	7583	40	5708	14	4316	37	8615	42	3908	58	6105	46	10518	6	10934	20	3224	63	8342	35
23	VMH-4106	9074	16	6852	5	5275	15	10209	13	5506	8	7516	11	10994	4	11901	6	9520	4	7767	45
24	KH-B63	8601	23	4838	28	5063	20	8348	49	4516	36	6632	28	8550	34	17040	1	8747	11	7108	54
25	KH-B52	9571	9	4935	24	5201	16	11405	2	4736	27	7728	7	9602	15	8227	56	7667	29	9036	25
26	KH-B55	8122	32	4484	34	4686	28	9150	33	4723	28	6670	27	8305	40	12322	3	7245	38	7485	50
27	KNMH-401061	8437	28	4793	30	4371	35	8994	36	4459	39	6565	30	8061	44	9489	38	5002	57	8605	28
28	CMH08-284	6720	56	5592	16	3378	59	7204	57	4970	21	5568	57	9460	21	8280	55	7095	40	9421	22
29	CMH08-292	8472	27	6852	6	6479	3	10218	12	4981	20	7538	10	6896	58	9984	31	6084	51	8510	30
30	CMH08-350	7931	33	4848	27	5702	6	9878	20	4211	50	6931	23	8685	28	12302	4	8966	7	9618	13
31	CMH08-433	8545	26	7140	4	5670	7	11281	3	4506	37	7500	12	8451	36	8144	57	8761	10	10416	5
32	Yuvraj Gold	10378	5	7411	1	6746	1	10516	7	6455	1	8524	1	11849	1	8998	48	8608	13	10347	7
33	Titan	9081	15	5350	21	4627	30	10325	11	5356	13	7347	16	7230	55	8605	51	7640	30	8445	33
34	IMH-111	8572	24	5552	19	4234	39	9399	26	5016	19	6805	25	8408	38	10810	22	3637	60	9461	21
35	IMH-666	7435	43	4625	32	4332	36	8012	51	5195	16	6243	42	8675	30	11907	5	6918	43	9646	11

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3									
		BAHR	R	DHOL	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R
36	SMH-9	7550	41	3369	58	4834	24	7615	53	4414	41	6103	47	8583	33	7288	62	9640	3	6742	55
37	AMH-2002	7121	52	4049	44	2744	61	8634	41	3694	62	5548	58	7981	46	10706	24	6087	50	7881	42
38	EHL 161708	7269	48	5023	22	4578	31	8047	50	4133	54	6007	48	8676	29	9446	39	8155	18	9624	12
39	EHL 163909	6513	58	2769	63	3967	50	6738	59	4661	31	5470	59	8229	42	11292	10	7458	35	5525	63
40	EHL 164810	7430	45	3785	49	2048	63	6416	62	5277	14	5293	61	9530	18	9426	40	6368	47	7838	43
41	EHL 164910	7372	46	4110	41	4119	46	6531	61	4842	25	5716	55	9713	12	8408	53	5183	56	7566	47
42	L230	7060	53	2955	62	3238	60	6560	60	3685	63	5136	63	8872	26	10485	27	3703	59	8435	34
43	EH-2074	7136	50	4182	39	5498	9	8947	37	3944	57	6381	37	8018	45	11266	11	7912	25	8171	40
44	EC-3161	7129	51	4229	37	4100	47	8462	47	4276	48	5992	49	8663	31	10953	19	7792	28	7821	44
45	BH41001	8826	19	4823	29	6644	2	11001	5	4698	29	7792	6	9588	16	11049	16	9066	5	10488	4
46	BH41009	9045	17	5822	13	4833	25	10013	17	4564	33	7114	19	9370	22	10960	17	8630	12	7350	51
47	BIO-688	9166	13	4023	46	4150	41	10007	18	3829	61	6788	26	8941	25	11233	12	7568	32	9577	18
48	BIO-151	10438	3	6828	7	6424	4	9949	19	6203	3	8254	3	10938	5	8631	50	6015	52	10669	2
49	HKH - 411	6401	61	4222	38	4982	23	9872	21	4882	22	6534	31	7598	50	12389	2	8107	20	6279	57
50	HKH - 412	4770	62	4852	26	4467	32	8833	40	4698	30	5692	56	9502	19	11682	7	6298	48	6033	59
51	HKH - 414	7434	44	4176	40	4795	27	9114	34	4496	38	6460	35	10176	9	11172	13	7986	24	7316	52
52	HKH - 316	7226	49	4071	42	5064	19	7118	58	4125	55	5883	50	7930	47	9724	33	7900	26	7693	46
53	REH 2009-15	8658	21	3230	60	3848	53	9262	29	4184	53	6488	33	8311	39	9544	35	8073	23	7547	49
54	REH 2009-18	7273	47	4331	35	4997	22	9032	35	4279	47	6395	36	9559	17	10753	23	7235	39	9038	24
55	REH 2009-20	7664	38	4070	43	4006	49	7258	56	4219	49	5787	54	7134	56	10272	29	7435	36	5704	62
56	MMH-09-1	8568	25	4048	45	3733	55	8564	45	4330	44	6299	39	9106	24	9342	41	9764	1	8517	29
57	MMH-09-2	7692	37	3607	56	3633	56	7499	54	4441	40	5816	52	7475	52	9187	45	6919	42	8210	39
58	MMH-09-3	6491	59	3874	47	4294	38	9184	30	5175	17	6286	40	9622	14	8531	52	8074	22	10071	9
59	MMH-09-4	7617	39	5004	23	4820	26	7968	52	4320	45	6181	44	9460	20	8316	54	8836	9	7156	53
CHECKS																					
60	Navjot	6939	54	3380	57	3741	54	6121	63	3851	60	5163	62	6540	62	9023	47	7886	27	5922	60
61	BIO 9637	8720	20	3832	48	3885	52	8578	43	3889	59	6268	41	7522	51	9490	37	9709	2	5742	61
62	HM 8	3829	63	4909	25	5732	5	9267	28	4408	42	5809	53	6872	61	5792	63	3463	61	6140	58
63	HM 9	6426	60	3768	51	4447	34	8543	46	3949	56	5841	51	8287	41	10958	18	6752	44	7883	41
Location Mean		8148		4795		4584		9079		4748		6640		8713		10003		7223		8458	
Mean Stand		29		31		27		33		24		28		32		33		35		36	
C.D. (5%)		793		1802		1073		2722		1325		1478		3392		2501		453		1959	
C.V. (%)		6.02		23.25		11.7		15		17.27		-		24.09		15.47		3.88		14.33	
F (Prob)		0		0		0		0		0		-		0.143		0		0		0	
Plot Size		4.8		6		4.8		5.6		6		-		6		6		6		6	
AGRONOMY DATA																					
Sowing Date		26-07		6-07		13-07		9-07		4-07		-		14-07		21-06		16-07		7-07	
Harvest Date		8-11		-		20-10		15-10		-		-		13-11		30-10		-		30-11	
Irrigation Nos		-		-		2		-		-		-		3		-		-		-	
Fertilizer Applied N		120		150		120		120		120		-		150		180		200		150	
Fertilizer Applied P		60		70		60		60		60		-		75		60		80		60	
Fertilizer Applied K		60		50		40		40		40		-		37.5		50		60		40	

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		MAND		COIM		MEAN		UDAI		BANS		GODH		CHHI		ZN 4		ZN 5	
1	NMH-3095	8286	40	7707	49	7757	53	3770	47	4498	37	3857	35	7639	55	4041	43	6426	42
2	PFMH- 96 I 41	10307	10	8986	32	8909	26	3881	45	4747	29	3996	31	8758	38	4208	37	6903	25
3	PFMH- 96 I 26	7793	43	9692	23	8047	47	2856	61	5266	17	3848	38	8223	46	3990	44	6334	46
4	PFMH- 96 N 46 (W)	6928	52	9481	25	8342	40	2620	62	4815	25	4088	28	10606	17	3841	49	6693	34
5	Bisco -2668	10107	15	8537	38	9004	25	3650	51	4937	21	3849	37	8572	42	4145	38	7385	16
6	KDMH 176	9319	25	11515	4	9566	12	4128	38	5224	18	3549	42	10628	16	4300	33	7518	13
7	Safal X-2	10031	17	12079	1	9232	21	4938	20	6037	1	4030	29	10727	12	5002	9	7354	18
8	X8B684	10720	7	10993	9	9413	14	3931	44	4788	28	4177	26	9609	29	4299	34	8098	2
9	X8B685	10056	16	9310	27	8736	30	4416	30	5977	2	5279	7	10431	19	5224	6	6768	28
10	KMH-48	9115	28	9918	19	8831	27	1925	63	4650	31	3754	40	6756	61	3443	60	6592	39
11	P3540	10207	13	9787	22	9351	17	4446	29	5279	16	4551	17	10492	18	4759	20	7345	19
12	Hy. P3293	8664	33	9989	18	9290	19	3375	56	5410	15	3894	34	40085	1	4226	36	7389	15
13	Hy. P3396	11167	3	11624	2	9961	6	3565	53	5890	6	5450	6	8887	35	4968	12	7879	3
14	X35A173	10254	11	10169	16	9386	16	3065	59	5555	11	4402	19	10416	20	4341	31	7149	22
15	X35A174	10611	8	10362	14	8621	33	3248	58	3932	54	3474	46	9677	27	3551	55	6781	27
16	JKMH-7014	7517	48	7903	47	7769	52	4179	36	4688	30	3335	50	8653	39	4067	41	6049	50
17	JKMH-7004	9388	23	8896	34	9262	20	4191	35	4348	39	4245	24	10649	15	4262	35	6715	33
18	S 6217	9334	24	10370	13	9574	11	5466	7	5963	3	5247	8	10375	22	5559	1	7835	4
19	S 6304	10752	6	10099	17	10191	4	4887	22	4512	35	6431	1	11319	5	5277	3	7751	5
20	JH 31404	9706	20	11294	6	9686	9	3427	55	4854	24	6358	2	11423	4	4880	16	7369	17
21	NMH-1242	10809	5	10594	11	9849	7	5164	13	4953	20	5587	5	10328	23	5235	5	7476	14
22	NMH-589 (Suvarna)	8689	31	8738	35	7985	49	3574	52	3911	55	4425	18	9603	30	3970	45	6342	45
23	VMH-4106	10841	4	10171	15	10040	5	3656	50	5713	8	4336	21	11647	3	4568	25	7580	11
24	KH-B63	10185	14	9005	31	10417	2	4970	18	5142	19	3828	39	9194	33	4647	24	7740	8
25	KH-B52	8464	36	9840	21	8647	32	3457	54	3716	58	3460	47	10383	21	3544	56	7233	21
26	KH-B55	9287	26	8915	33	9051	23	4770	26	4862	23	4807	13	10807	11	4813	18	6919	24
27	KNMH-401061	7445	49	7965	45	7701	54	3965	41	4219	43	5242	9	9033	34	4475	27	6405	44
28	CMH08-284	8851	30	9305	28	8590	34	4963	19	4807	26	5845	4	9674	28	5205	7	6546	40
29	CMH08-292	9660	21	10984	10	9044	24	4336	31	5423	14	3147	51	10691	14	4302	32	7332	20
30	CMH08-350	11291	2	11236	7	10683	1	5246	11	4547	34	5951	3	10828	10	5248	4	7600	10
31	CMH08-433	9844	18	11144	8	9662	10	5651	3	5621	9	3902	33	11206	7	5058	8	7706	9
32	Yuvraj Gold	11441	1	11611	3	10201	3	4803	25	5533	12	4156	27	11254	6	4831	17	8256	1
33	Titan	9060	29	9886	20	8727	31	3950	43	3932	53	4313	22	8448	44	4065	42	7053	23
34	IMH-111	10594	9	9310	26	8763	29	4834	23	3066	61	2772	56	8055	49	3557	54	6603	38
35	IMH-666	8458	37	9568	24	9299	18	5382	10	4791	27	3107	52	9874	25	4427	29	6825	26

TABLE No.2 (Cont..)

Sl No	PEDIGREE	MAND		COIM		ZN 4		GRAIN YIELD (kg/ha) AT 15% MOISTURE					ZN 5		OV'L				
		R		R		MEAN	R	UDAI	R	BANS	R	GODH	R	CHHI	R	MEAN	R		
36	SMH-9	6572	57	7213	52	7491	60	4226	34	3278	60	2316	59	7009	59	3273	62	5906	56
37	AMH-2002	7723	45	8282	40	8136	45	5457	8	5561	10	3398	49	7935	50	4806	19	6411	43
38	EHL 161708	6674	55	7931	46	8366	38	5567	6	4174	45	5101	11	7786	52	4947	14	6604	37
39	EHL 163909	6577	56	6949	54	7560	57	5167	12	3884	56	2799	55	8086	48	3950	46	5863	58
40	EHL 164810	6462	59	8246	42	7668	55	4907	21	4502	36	4559	16	6586	62	4656	22	5993	52
41	EHL 164910	7781	44	6555	57	7098	62	5138	15	4084	49	2443	58	6951	60	3888	48	5832	59
42	L230	6495	58	7484	50	7320	61	4176	37	4078	50	1881	63	7255	57	3379	61	5749	60
43	EH-2074	7625	46	6587	56	8312	42	7727	1	4375	38	4010	30	8779	37	5371	2	6740	30
44	EC-3161	8671	32	6550	58	8358	39	4826	24	3991	51	4678	15	8419	45	4498	26	6216	48
45	BH41001	7839	42	9043	29	9497	13	4769	27	4321	41	4219	25	10717	13	4436	28	7745	7
46	BH41009	8513	35	7210	53	8532	36	5917	2	4589	33	4382	20	10868	9	4963	13	6717	32
47	BIO-688	9771	19	10385	12	9707	8	5158	14	4896	22	4778	14	9265	31	4944	15	7573	12
48	BIO-151	10209	12	11447	5	9394	15	5405	9	4326	40	5231	10	10144	24	4987	11	7747	6
49	HKH - 411	-		6485	59	8315	41	5121	16	1907	63	3953	32	10961	8	3660	52	6057	49
50	HKH - 412	-		6472	60	7621	56	5595	5	2379	62	3742	41	9790	26	3905	47	5413	62
51	HKH - 414	6954	51	7886	48	8263	43	4598	28	5831	7	3523	45	7839	51	4651	23	6662	35
52	HKH - 316	6773	54	8201	44	8058	46	4008	39	3399	59	3537	43	7133	58	3648	53	5918	55
53	REH 2009-15	9123	27	8584	37	8574	35	4244	33	4107	48	3855	36	8829	36	4069	40	6725	31
54	REH 2009-18	7940	41	9031	30	8799	28	5082	17	5486	13	3529	44	8578	41	4699	21	6754	29
55	REH 2009-20	7339	50	6812	55	7512	58	3699	49	3947	52	2886	54	7499	56	3511	58	5936	54
56	MMH-09-1	9633	22	8353	39	9122	22	2957	60	4145	47	4293	23	8454	43	3798	50	6649	36
57	MMH-09-2	6784	53	8701	36	7960	50	3961	42	4149	46	2233	60	7642	54	3448	59	5989	53
58	MMH-09-3	7576	47	8259	41	8502	37	3804	46	3779	57	1987	61	9263	32	3190	63	6317	47
59	MMH-09-4	6396	60	8237	43	7788	51	3988	40	4191	44	4887	12	7771	53	4355	30	6030	51
CHECKS																			
60	Navjot	8401	38	6238	62	7494	59	4319	32	4264	42	1965	62	6421	63	3516	57	5555	61
61	BIO 9637	8545	34	7286	51	8154	44	3718	48	5892	5	2636	57	8587	40	4082	39	6544	41
62	HM 8	-		4434	63	4957	63	5625	4	5925	4	3416	48	11796	2	4989	10	5195	63
63	HM 9	8288	39	6244	61	8025	48	3344	57	4632	32	3042	53	8116	47	3673	51	5882	57
	Location Mean	8831		8922		8687		4400		4630		4000		9737		4343		6782	
	Mean Stand	33		31		34		32		29		32		38		31		31	
	C.D. (5%)	1391		979		1457		360		1023		971		11860		784		1241	
	C.V. (%)	9.74		6.79		-		5.07		13.66		12.14		75.37		-		-	
	F (Prob)	0		0		0		0		0		0		0.125					
	Plot Size	5.6		4.8		-		4.8		4.8		4.8		6		-		-	
AGRONOMY DATA																			
	Sowing Date	21-07		13-07		-		3-07		9-07		8-07		28-06		-		-	
	Harvest Date	12-10		5-11		-		14-10		22-10		13-10		23-10		-		-	
	Irrigation Nos	6		9		-		-		1		-		-		-		-	
	Fertilizer Applied N	150		150		-		90		120		150		120		-		-	
	Fertilizer Applied P	75		75		-		60		40		50		60		-		-	
	Fertilizer Applied K	40		75		-		-		-		50		40		-		-	

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot														
		ZN 1				ZN 2										
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	VARA	RANC	AMBI
1	NMH-3095	28.9	-	30.4	14.6	-	3	41	-	69.6	33.7	12.2	40.6	5.1	56.4	25.7
2	PFMH- 96 I 41	31.6	-	-	14.1	5.7	-	39.3	-	81.4	34	20.8	26.9	10.3	60.4	47.5
3	PFMH- 96 I 26	19.8	-	-	7.2	-	-	32.2	12.4	54.6	25.5	13.4	8.8	23.7	37.4	13.7
4	PFMH- 96 N 46 (W)	35.8	1.8	-	24.2	-	4.7	32.4	-	127.1	42.7	24.5	11.5	-	45	26.3
5	Bisco -2668	46.2	0.4	-	30.5	-	43.6	64.2	59	74	59	48.8	119.2	38.6	70.4	17.7
6	KDMH 176	38.8	-	-	24.2	2.2	5.1	72.6	54.7	101	54.9	32.3	77.2	43.3	69.6	52
7	Safal X-2	30.5	-	37.2	15.3	12.6	4.3	82.4	-	35.6	45.1	30.2	116.1	44.4	79.9	17.6
8	X8B684	51.4	-	-	32.8	42.8	51.4	93.2	56.7	215.5	104.4	50.3	77.7	44.1	86.6	61.5
9	X8B685	8	-	-	0.4	24.4	-	77.7	5.2	13.8	35.5	18.5	64.8	-	45.4	9.1
10	KMH-48	33.3	-	-	16.8	0.9	0.3	-	-	126.8	25.3	-	9.4	12.1	51.8	59.3
11	P3540	31.7	-	4.7	18.3	10.7	31.3	52.5	32.5	73.1	49.4	37.7	7.7	44.9	49.8	26.1
12	Hy. P3293	22	-	15.5	11.6	13.6	29.1	74.8	2.1	67.3	57.2	51.2	77.6	49.1	66.1	32.8
13	Hy. P3396	15.6	-	1.9	9.5	10.7	-	80.5	-	181.3	72.4	68.2	76.6	38.5	61.2	42.5
14	X35A173	28.5	-	-	18.7	-	2.1	65.3	12.7	42.2	38.2	49.2	65.5	10.7	49.5	19.6
15	X35A174	22.7	-	-	7.4	-	6.1	54.7	18.7	61.3	39	33.9	60.9	10.3	72.8	40.5
16	JKMH-7014	-	13.6	-	-	-	18.8	9.4	-	107.4	33.4	-	-	-	40.1	8.8
17	JKMH-7004	11.8	27.9	1.1	17.3	0.4	5.3	48.5	-	-	18.8	12.2	-	7.7	20.5	41.3
18	S 6217	20.4	-	10	13.2	21.9	41.5	99.2	34.4	141.3	87.8	31.9	88.3	33.9	57.1	36.3
19	S 6304	38.8	1.9	67.9	26.2	13.4	19.5	67.4	16.4	91.5	55.6	19.5	64.5	10.8	66.2	48.7
20	JH 31404	24.6	3.7	51.1	17.5	25	8.8	78.6	43.4	-	34	38.3	8.3	44	68.7	12
21	NMH-1242	13.8	-	7.8	3.5	20.1	11.5	88.8	13.9	79.3	59.7	8.2	32.8	19.1	65.8	42.8
22	NMH-589 (Suvarna)	20.2	-	22.7	5.6	-	-	28.4	-	116.9	36.6	9.3	68.9	15.4	40.7	1.5
23	VMH-4106	17.1	27.8	36.5	20.7	-	-	80	-	89.3	47.7	30.8	102.7	41	66.8	43
24	KH-B63	34	8.2	-	25.2	-	35.7	65.2	55.1	153.6	73.5	23.9	43.1	35.3	36.4	17.3
25	KH-B52	32.1	2.3	-	21.9	23.3	25.3	56.6	5.5	173	70.3	37.9	46	39	86.3	23
26	KH-B55	30.2	22.2	-	27.5	-	-	37.3	-	32.1	16	17	32.7	25.3	49.5	22.6
27	KNMH-401061	25.6	0.7	-	17.1	-	-	23.8	-	61.1	20.8	21.6	41.8	16.9	46.9	15.8
28	CMH08-284	16	-	-	3.2	-	14.8	47.6	18.9	22	30.7	-	65.4	-	17.7	29.1
29	CMH08-292	26.6	-	8.8	10.4	35.8	29.1	78.9	-	105	66.9	22.1	102.7	73.2	66.9	29.4
30	CMH08-350	29.3	-	7	15.8	41.6	2.8	86.1	5.1	-	33.5	14.3	43.4	52.4	61.4	9.3
31	CMH08-433	16.4	-	5	9.9	15.5	20.9	93.8	16.3	128.9	75.6	23.1	111.3	51.6	84.3	17
32	Yuvraj Gold	55	24.9	54.8	44.7	31.8	2.6	98.6	-	120.3	69.5	49.5	119.3	80.3	71.8	67.6
33	Titan	34.8	-	-	14	-	0.7	57.6	17.3	125.3	51.9	30.9	58.3	23.7	68.7	39.1
34	IMH-111	15.9	-	-	3.3	-	17.2	40.8	-	35.4	31.4	23.5	64.3	13.2	53.5	30.3
35	IMH-666	25.2	-	-	9.4	-	15.1	29.3	-	63.2	31.5	7.1	36.9	15.8	30.9	34.9

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot													
		ZN 1				ZN 2									
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	VARA	RANC
36	SMH-9	-	-	-	-	-	8.5	7.7	-	135.9	35.1	8.8	-	29.2	24.4
37	AMH-2002	25	-	-	9.6	3.5	29.8	21.8	-	67.3	34.2	2.6	19.8	-	41.1
38	EHL 161708	34.2	-	-	8.7	-	8.5	34.1	-	76.8	34.1	4.7	48.6	22.4	31.5
39	EHL 163909	19.3	-	-	9.6	-	27.4	-	-	84.4	9	-	-	6	10.1
40	EHL 164810	3.9	-	-	-	-	19.8	23.2	-	29.7	23.4	7.1	12	-	4.8
41	EHL 164910	28	-	-	11.4	-	-	2.9	30.7	84.1	14.4	6.2	21.6	10.1	6.7
42	L230	10.3	-	-	3.7	-	-	-	-	174.3	30.4	1.7	-	-	7.2
43	EH-2074	27.7	-	-	8.9	-	-	-	-	166	32.6	2.8	23.7	47	46.2
44	EC-3161	-	-	-	-	-	0.3	15.9	-	68.5	21.6	2.7	25.1	9.6	38.2
45	BH41001	30.9	-	15.3	19.5	-	4.1	83.8	36	213	83.1	27.2	42.7	77.6	79.7
46	BH41009	-	-	13.2	-	4.3	15.8	25.2	24.5	77.8	33	30.3	72.3	29.2	63.6
47	BIO-688	36.9	15.7	39.3	29.7	-	1.5	70.2	-	155.3	64.1	32.1	19	11	63.5
48	BIO-151	26.5	28.3	0.9	27.1	43.8	28.6	62.8	34.5	85.9	55.7	50.4	102	71.7	62.5
49	HKH - 411	-	-	-	-	-	-	7.7	-	81.7	18.9	-	24.9	33.2	61.3
50	HKH - 412	-	-	-	-	-	-	-	-	8.5	-	-	43.6	19.4	44.3
51	HKH - 414	27.5	13.1	-	22.6	8.8	-	39.7	3.5	75	26.6	7.1	23.5	28.2	48.9
52	HKH - 316	-	-	-	-	-	18.5	4.4	-	34.9	15.8	4.1	20.5	35.4	16.3
53	REH 2009-15	35.4	1.3	17.8	23.8	-	-	29	-	118.8	33.8	24.8	-	2.9	51.3
54	REH 2009-18	19.8	-	6.5	9.1	-	-	22.9	-	109.8	30.8	4.8	28.2	33.6	47.5
55	REH 2009-20	1.1	-	2.8	-	-	16.9	9.3	15.5	94.8	30.1	10.4	20.4	7.1	18.6
56	MMH-09-1	-	-	9.2	-	-	14.7	27.1	7.5	136.2	45.8	23.5	19.8	-	39.9
57	MMH-09-2	-	-	4.6	-	1.5	-	19.3	-	107.5	30.9	10.8	6.7	-	22.5
58	MMH-09-3	12.3	-	-	6.2	-	13	16.7	-	67.8	26.2	-	14.6	14.8	50
59	MMH-09-4	7.7	-	-	3.4	-	-	-	-	10.7	-	9.8	48.1	28.9	30.2
	CHECKS														
60	Navjot	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	BIO 9637	13.5	-	-	4.8	-	41.7	39.3	-	80	48.7	25.7	13.4	3.9	40.1
62	HM 8	-	18	-	2.8	-	-	-	-	38.4	-	-	45.3	53.2	51.4
63	HM 9	-	-	5.2	-	-	-	1.3	-	113.3	17.1	-	11.5	18.9	39.6

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot													OV'L MEAN	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI		ZN 5 MEAN
1	NMH-3095	25.7	26.5	-	-	6.3	8.7	-	23.5	3.5	-	5.5	96.3	19	14.9	15.7
2	PFMH- 96 I 41	47.5	35.6	5.4	2.6	-	62.2	22.7	44	18.9	-	11.3	103.4	36.4	19.7	24.3
3	PFMH- 96 I 26	13.7	22.5	59.8	-	-	62	-	55.4	7.4	-	23.5	95.8	28.1	13.5	14
4	PFMH- 96 N 46 (W)	26.3	25.6	5.1	15.5	-	27.5	-	52	11.3	-	12.9	108.1	65.2	9.2	20.5
5	Bisco -2668	17.7	47.5	14.3	5.8	-	75.6	20.3	36.9	20.2	-	15.8	95.9	33.5	17.9	32.9
6	KDMH 176	52	49	19.3	13.7	7.2	39.9	10.9	84.6	27.7	-	22.5	80.6	65.5	22.3	35.3
7	Safal X-2	17.6	45.1	57.3	2.1	-	62	19.4	93.6	23.2	14.3	41.6	105.1	67.1	42.3	32.4
8	X8B684	61.5	62	49.5	-	13.1	46.5	27.6	76.2	25.6	-	12.3	112.6	49.6	22.3	45.8
9	X8B685	9.1	20.6	7.6	-	2.8	39.5	19.7	49.2	16.6	2.2	40.2	168.7	62.4	48.6	21.8
10	KMH-48	59.3	27.3	71.8	2.5	-	39.8	8.5	59	17.8	-	9	91	5.2	-	18.7
11	P3540	26.1	40.4	11.3	8	-	61.2	21.5	56.9	24.8	2.9	23.8	131.6	63.4	35.3	32.2
12	Hy. P3293	32.8	51.8	48.4	16.7	3.1	54.3	3.1	60.1	24	-	26.9	98.2	524.3	20.2	33
13	Hy. P3396	42.5	56	51.7	28.5	-	62.2	32.9	86.3	32.9	-	38.1	177.4	38.4	41.3	41.8
14	X35A173	19.6	36.8	75.8	0.5	-	74.7	22.1	63	25.3	-	30.3	124.1	62.2	23.4	28.7
15	X35A174	40.5	42.4	31.4	-	-	79.1	26.3	66.1	15	-	-	76.8	50.7	1	22.1
16	JKMH-7014	8.8	5.8	29.1	5.7	-	42.7	-	26.7	3.7	-	9.9	69.7	34.8	15.7	8.9
17	JKMH-7004	41.3	19.2	20.2	21.1	-	61	11.8	42.6	23.6	-	2	116.1	65.8	21.2	20.9
18	S 6217	36.3	40.5	34.9	17	13.9	45.7	11.1	66.2	27.8	26.6	39.8	167.1	61.6	58.1	41
19	S 6304	48.7	37.2	29.7	23.6	4	81.6	28	61.9	36	13.1	5.8	227.3	76.3	50.1	39.5
20	JH 31404	12	43.5	40.2	25.2	-	67.6	15.5	81	29.2	-	13.8	223.6	77.9	38.8	32.7
21	NMH-1242	42.8	33.7	24.5	22.9	4.8	43.4	28.7	69.8	31.4	19.6	16.2	184.3	60.8	48.9	34.6
22	NMH-589 (Suvarna)	1.5	18.2	60.8	21.2	-	40.9	3.4	40.1	6.6	-	-	125.2	49.5	12.9	14.2
23	VMH-4106	43	45.6	68.1	31.9	20.7	31.2	29	63	34	-	34	120.7	81.4	29.9	36.4
24	KH-B63	17.3	28.4	30.7	88.9	10.9	20	21.2	44.4	39	15.1	20.6	94.8	43.2	32.2	39.3
25	KH-B52	23	49.7	46.8	-	-	52.6	0.8	57.7	15.4	-	-	76.1	61.7	0.8	30.2
26	KH-B55	22.6	29.2	27	36.6	-	26.4	10.5	42.9	20.8	10.4	14	144.6	68.3	36.9	24.5
27	KNMH-401061	15.8	27.2	23.3	5.2	-	45.3	-	27.7	2.8	-	-	166.8	40.7	27.3	15.3
28	CMH08-284	29.1	7.8	44.6	-	-	59.1	5.4	49.1	14.6	14.9	12.7	197.4	50.7	48	17.8
29	CMH08-292	29.4	46	5.4	10.7	-	43.7	15	76.1	20.7	0.4	27.2	60.2	66.5	22.4	32
30	CMH08-350	9.3	34.2	32.8	36.3	13.7	62.4	34.4	80.1	42.6	21.5	6.6	202.8	68.6	49.2	36.8
31	CMH08-433	17	45.3	29.2	-	11.1	75.9	17.2	78.6	28.9	30.8	31.8	98.6	74.5	43.9	38.7
32	Yuvraj Gold	67.6	65.1	81.2	-	9.2	74.7	36.2	86.1	36.1	11.2	29.7	111.5	75.3	37.4	48.6
33	Titan	39.1	42.3	10.6	-	-	42.6	7.9	58.5	16.5	-	-	119.5	31.6	15.6	27
34	IMH-111	30.3	31.8	28.6	19.8	-	59.8	26.1	49.2	16.9	11.9	-	41.1	25.4	1.2	18.9
35	IMH-666	34.9	20.9	32.6	32	-	62.9	0.7	53.4	24.1	24.6	12.4	58.1	53.8	25.9	22.9

TABLE No.2 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE Navjot																
Sl No	PEDIGREE	AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN	OV'L MEAN
36	SMH-9	14.6	18.2	31.2	-	22.2	13.9	-	15.6	-	-	-	17.9	9.2	-	6.3
37	AMH-2002	-	7.5	22	18.7	-	33.1	-	32.8	8.6	26.4	30.4	72.9	23.6	36.7	15.4
38	EHL 161708	7.3	16.3	32.7	4.7	3.4	62.5	-	27.1	11.6	28.9	-	159.6	21.3	40.7	18.9
39	EHL 163909	21	5.9	25.8	25.1	-	-	-	11.4	0.9	19.6	-	42.4	25.9	12.3	5.5
40	EHL 164810	37	2.5	45.7	4.5	-	32.4	-	32.2	2.3	13.6	5.6	132	2.6	32.4	7.9
41	EHL 164910	25.7	10.7	48.5	-	-	27.8	-	5.1	-	19	-	24.3	8.2	10.6	5
42	L230	-	-	35.7	16.2	-	42.4	-	20	-	-	-	-	13	-	3.5
43	EH-2074	2.4	23.6	22.6	24.9	0.3	38	-	5.6	10.9	78.9	2.6	104.1	36.7	52.8	21.3
44	EC-3161	11	16	32.5	21.4	-	32.1	3.2	5	11.5	11.7	-	138.1	31.1	27.9	11.9
45	BH41001	22	50.9	46.6	22.5	15	77.1	-	45	26.7	10.4	1.3	114.7	66.9	26.2	39.4
46	BH41009	18.5	37.8	43.3	21.5	9.4	24.1	1.3	15.6	13.9	37	7.6	123	69.2	41.2	20.9
47	BIO-688	-	31.5	36.7	24.5	-	61.7	16.3	66.5	29.5	19.4	14.8	143.2	44.3	40.6	36.3
48	BIO-151	61.1	59.9	67.2	-	-	80.2	21.5	83.5	25.4	25.2	1.4	166.2	58	41.8	39.5
49	HKH - 411	26.8	26.6	16.2	37.3	2.8	6	-	4	11	18.6	-	101.2	70.7	4.1	9
50	HKH - 412	22	10.2	45.3	29.5	-	1.9	-	3.8	1.7	29.5	-	90.4	52.5	11.1	-
51	HKH - 414	16.7	25.1	55.6	23.8	1.3	23.5	-	26.4	10.3	6.5	36.7	79.3	22.1	32.3	19.9
52	HKH - 316	7.1	14	21.2	7.8	0.2	29.9	-	31.5	7.5	-	-	80	11.1	3.7	6.5
53	REH 2009-15	8.7	25.7	27.1	5.8	2.4	27.4	8.6	37.6	14.4	-	-	96.2	37.5	15.7	21.1
54	REH 2009-18	11.1	23.9	46.2	19.2	-	52.6	-	44.8	17.4	17.7	28.6	79.6	33.6	33.6	21.6
55	REH 2009-20	9.6	12.1	9.1	13.9	-	-	-	9.2	0.2	-	-	46.9	16.8	-	6.9
56	MMH-09-1	12.4	22	39.2	3.5	23.8	43.8	14.7	33.9	21.7	-	-	118.5	31.7	8	19.7
57	MMH-09-2	15.3	12.6	14.3	1.8	-	38.6	-	39.5	6.2	-	-	13.6	19	-	7.8
58	MMH-09-3	34.4	21.7	47.1	-	2.4	70.1	-	32.4	13.5	-	-	1.1	44.3	-	13.7
59	MMH-09-4	12.2	19.7	44.7	-	12	20.8	-	32	3.9	-	-	148.7	21	23.9	8.6
60	CHECKS Navjot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
61	BIO 9637	1	21.4	15	5.2	23.1	-	1.7	16.8	8.8	-	38.2	34.2	33.7	16.1	17.8
62	HM 8	14.5	12.5	5.1	-	-	3.7	-	-	-	30.2	39	73.8	83.7	41.9	-
63	HM 9	2.6	13.1	26.7	21.4	-	33.1	-	0.1	7.1	-	8.6	54.8	26.4	4.5	5.9

TABLE No.2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637													
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
1	NMH-3095	13.6	-	45.3	9.3	0.3	-	1.2	-	-	-	-	24	1.2	11.6
2	PFMH- 96 I 41	15.9	-	7.2	8.8	15.5	-	0	-	0.8	-	-	12	6.2	14.4
3	PFMH- 96 I 26	5.6	-	-	2.3	5.7	-	-	12.9	-	-	-	-	19.1	-
4	PFMH- 96 N 46 (W)	19.7	15.6	-	18.5	-	-	-	-	26.2	-	-	-	-	3.5
5	Bisco -2668	28.7	14	-	24.5	4.1	1.4	17.8	59.8	-	6.9	18.4	93.3	33.4	21.6
6	KDMH 176	22.2	9.2	7.5	18.5	11.8	-	23.9	55.5	11.7	4.1	5.3	56.3	38	21
7	Safal X-2	14.9	-	52.9	9.9	23.1	-	30.9	-	-	-	3.6	90.6	39	28.3
8	X8B684	33.4	10	-	26.6	56.1	6.9	38.7	57.5	75.3	37.4	19.6	56.8	38.8	33.2
9	X8B685	-	-	-	-	36	-	27.5	5.7	-	-	-	45.3	-	3.8
10	KMH-48	17.4	-	-	11.4	10.3	-	-	-	26	-	-	-	8	8.3
11	P3540	16	4.7	16.6	12.8	21	-	9.4	33.1	-	0.4	9.5	-	39.5	6.9
12	Hy. P3293	7.4	3.8	28.7	6.4	24.2	-	25.5	2.6	-	5.7	20.3	56.7	43.5	18.6
13	Hy. P3396	1.9	10.8	13.5	4.4	21	-	29.6	-	56.3	15.9	33.9	55.8	33.4	15
14	X35A173	13.2	13.4	9.7	13.2	5.5	-	18.7	13.2	-	-	18.8	46	6.6	6.7
15	X35A174	8.1	-	8.5	2.5	9	-	11	19.3	-	-	6.6	42	6.2	23.3
16	JKMH-7014	-	29	-	-	5.4	-	-	-	15.3	-	-	-	-	-
17	JKMH-7004	-	45.2	12.7	11.9	9.8	-	6.6	-	-	-	-	-	3.7	-
18	S 6217	6	12.7	22.6	8	33.3	-	43	35.1	34.1	26.3	5	66.1	28.9	12.1
19	S 6304	22.2	15.7	87	20.3	23.9	-	20.1	17	6.4	4.6	-	45.1	6.7	18.6
20	JH 31404	9.7	17.7	68.4	12	36.6	-	28.2	44.1	-	-	10.1	-	38.7	20.4
21	NMH-1242	0.2	-	20.1	-	31.3	-	35.5	14.4	-	7.3	-	17.1	14.7	18.3
22	NMH-589 (Suvarna)	5.9	-	36.7	0.7	-	-	-	-	20.5	-	-	49	11.1	0.4
23	VMH-4106	3.1	45.1	52.1	15.2	5.2	-	29.2	-	5.2	-	4.1	78.8	35.8	19
24	KH-B63	18	22.8	-	19.4	8.4	-	18.6	55.9	40.9	16.7	-	26.3	30.3	-
25	KH-B52	16.4	16.1	-	16.3	34.7	-	12.4	6	51.7	14.5	9.8	28.8	33.9	33
26	KH-B55	14.7	38.7	-	21.6	-	-	-	-	-	-	-	17	20.6	6.7
27	KNMH-401061	10.6	14.3	-	11.7	-	-	-	-	-	-	-	25.1	12.5	4.8
28	CMH08-284	2.2	-	-	-	-	-	6	19.4	-	-	-	45.9	-	-
29	CMH08-292	11.5	-	21.2	5.3	48.5	-	28.4	-	13.9	12.2	-	78.8	66.8	19.1
30	CMH08-350	13.9	1.7	19.2	10.4	54.8	-	33.6	5.6	-	-	-	26.5	46.8	15.2
31	CMH08-433	2.5	10.5	17	4.8	26.3	-	39.1	16.9	27.2	18.1	-	86.3	45.9	31.5
32	Yuvraj Gold	36.5	41.8	72.6	38	44.1	-	42.5	-	22.4	13.9	19	93.4	73.7	22.6
33	Titan	18.8	-	-	8.7	-	-	13.1	17.9	25.2	2.1	4.1	39.6	19.1	20.4
34	IMH-111	2.1	-	2.8	-	8.1	-	1.1	-	-	-	-	44.9	9	9.6
35	IMH-666	10.2	-	-	4.3	-	-	-	-	-	-	-	20.7	11.5	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637													
		ZN 1				ZN 2					BAHR				VARA
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL		
36	SMH-9	-	-	-	-	-	-	-	-	31.1	-	-	-	24.4	-
37	AMH-2002	10.1	-	7.5	4.5	13.1	-	-	-	-	-	-	5.7	-	0.7
38	EHL 161708	18.2	-	9.5	3.7	0.2	-	-	-	-	-	-	31.1	17.9	-
39	EHL 163909	5.1	3	-	4.5	-	-	-	-	2.5	-	-	-	2.1	-
40	EHL 164810	-	-	-	-	-	-	-	-	-	-	-	-	-	-
41	EHL 164910	12.8	-	-	6.3	-	-	-	31.4	2.3	-	-	7.2	6	-
42	L230	-	3.3	-	-	-	-	-	-	52.4	-	-	-	-	-
43	EH-2074	12.5	-	-	3.8	-	-	-	-	47.8	-	-	9.1	41.5	4.3
44	EC-3161	-	-	-	-	-	-	-	-	-	-	-	10.4	5.5	-
45	BH41001	15.3	10.5	28.5	13.9	-	-	31.9	36.7	73.9	23.1	1.2	25.9	71	28.2
46	BH41009	-	-	26.2	-	14	-	-	25.1	-	-	3.7	51.9	24.4	16.7
47	BIO-688	20.6	31.4	55.2	23.7	5.7	-	22.2	-	41.8	10.3	5.1	5	6.8	16.7
48	BIO-151	11.4	45.6	12.4	21.2	57.2	-	16.8	35.2	3.3	4.6	19.7	78.2	65.4	16
49	HKH - 411	-	4.2	-	-	-	-	-	-	1	-	-	10.2	28.2	15.1
50	HKH - 412	-	-	-	-	-	-	-	-	-	-	-	26.6	15	3
51	HKH - 414	12.3	28.4	7.9	16.9	18.9	-	0.3	4	-	-	-	9	23.4	6.2
52	HKH - 316	-	-	-	-	-	-	-	-	-	-	-	6.2	30.3	-
53	REH 2009-15	19.3	14.9	31.2	18.1	3.7	-	-	-	21.6	-	-	-	-	8
54	REH 2009-18	5.6	0.4	18.7	4.1	-	-	-	-	16.6	-	-	13	28.6	5.3
55	REH 2009-20	-	2.6	14.6	-	8.5	-	-	16.1	8.2	-	-	6.2	3.1	-
56	MMH-09-1	-	-	21.6	-	6.8	-	-	8	31.2	-	-	5.6	-	-
57	MMH-09-2	-	-	16.6	-	11	-	-	-	15.3	-	-	-	-	-
58	MMH-09-3	-	7.3	-	1.3	-	-	-	-	-	-	-	1.1	10.5	7.1
59	MMH-09-4	-	7.9	-	-	-	-	-	-	-	-	-	30.6	24.1	-
	CHECKS														
60	Navjot	-	13.5	11.4	-	9.3	-	-	0.5	-	-	-	-	-	-
61	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	HM 8	-	34	6.3	-	-	-	-	-	-	-	-	28.1	47.6	8
63	HM 9	-	-	17.2	-	-	-	-	-	18.5	-	-	-	14.5	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637													OV'L MEAN	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI		ZN 5 MEAN
1	NMH-3095	24.4	4.2	-	-	-	12.1	-	5.8	-	1.4	-	46.3	-	-	-
2	PFMH- 96 I 41	46	11.7	-	-	-	67.2	20.6	23.3	9.3	4.4	-	51.6	2	3.1	5.5
3	PFMH- 96 I 26	12.6	0.9	39	-	-	67	-	33	-	-	-	46	-	-	-
4	PFMH- 96 N 46 (W)	25	3.5	-	9.8	-	31.5	-	30.1	2.3	-	-	55.1	23.5	-	2.3
5	Bisco -2668	16.5	21.5	-	0.6	-	81.1	18.3	17.2	10.4	-	-	46	-	1.6	12.9
6	KDMH 176	50.5	22.7	3.7	8.1	-	44.3	9.1	58	17.3	11	-	34.6	23.8	5.4	14.9
7	Safal X-2	16.4	19.5	36.8	-	-	67.1	17.4	65.8	13.2	32.8	2.5	52.9	24.9	22.5	12.4
8	X8B684	59.9	33.5	30	-	-	51.1	25.5	50.9	15.4	5.7	-	58.4	11.9	5.3	23.7
9	X8B685	8	-	-	-	-	43.9	17.7	27.8	7.1	18.8	1.4	100.2	21.5	28	3.4
10	KMH-48	57.8	4.9	49.4	-	-	44.1	6.7	36.1	8.3	-	-	42.4	-	-	0.7
11	P3540	24.9	15.7	-	2.7	-	66.3	19.4	34.3	14.7	19.6	-	72.6	22.2	16.6	12.2
12	Hy. P3293	31.4	25	29.1	11	-	59.1	1.4	37.1	13.9	-	-	47.7	366.8	3.5	12.9
13	Hy. P3396	41.1	28.5	31.9	22.2	-	67.2	30.7	59.5	22.2	-	-	106.7	3.5	21.7	20.4
14	X35A173	18.4	12.7	52.9	-	-	80.2	20	39.6	15.1	-	-	67	21.3	6.3	9.2
15	X35A174	39.1	17.3	14.2	-	-	84.7	24.2	42.2	5.7	-	-	31.8	12.7	-	3.6
16	JKMH-7014	7.7	-	12.3	0.5	-	47.1	-	8.5	-	12.4	-	26.5	0.8	-	-
17	JKMH-7004	39.9	-	4.5	15.2	-	66.1	9.9	22.1	13.6	12.7	-	61	24	4.4	2.6
18	S 6217	34.9	15.8	17.3	11.3	-	50.2	9.2	42.3	17.4	47	1.2	99	20.8	36.2	19.7
19	S 6304	47.2	13	12.8	17.5	-	87.3	25.8	38.6	25	31.5	-	143.9	31.8	29.3	18.4
20	JH 31404	10.9	18.2	21.9	19	-	72.9	13.6	55	18.8	-	-	141.2	33	19.5	12.6
21	NMH-1242	41.4	10.1	8.2	16.9	-	47.9	26.5	45.4	20.8	38.9	-	111.9	20.3	28.2	14.2
22	NMH-589 (Suvarna)	0.5	-	39.8	15.2	-	45.3	1.7	19.9	-	-	-	67.8	11.8	-	-
23	VMH-4106	41.6	19.9	46.2	25.4	-	35.3	26.9	39.6	23.1	-	-	64.5	35.6	11.9	15.8
24	KH-B63	16.1	5.8	13.7	79.6	-	23.8	19.2	23.6	27.7	33.7	-	45.2	7.1	13.8	18.3
25	KH-B52	21.8	23.3	27.7	-	-	57.4	-	35	6	-	-	31.2	20.9	-	10.5
26	KH-B55	21.4	6.4	10.4	29.8	-	30.4	8.7	22.4	11	28.3	-	82.3	25.9	17.9	5.7
27	KNMH-401061	14.6	4.7	7.2	-	-	49.9	-	9.3	-	6.7	-	98.8	5.2	9.6	-
28	CMH08-284	27.8	-	25.8	-	-	64.1	3.6	27.7	5.3	33.5	-	121.7	12.7	27.5	0
29	CMH08-292	28.1	20.3	-	5.2	-	48.2	13	50.8	10.9	16.6	-	19.4	24.5	5.4	12
30	CMH08-350	8.3	10.6	15.5	29.6	-	67.5	32.1	54.2	31	41.1	-	125.7	26.1	28.6	16.1
31	CMH08-433	15.8	19.7	12.3	-	-	81.4	15.2	53	18.5	52	-	48	30.5	23.9	17.8
32	Yuvraj Gold	66	36	57.5	-	-	80.2	33.9	59.4	25.1	29.2	-	57.7	31.1	18.3	26.1
33	Titan	37.7	17.2	-	-	-	47.1	6	35.7	7	6.2	-	63.6	-	-	7.8
34	IMH-111	29	8.6	11.8	13.9	-	64.8	24	27.8	7.5	30	-	5.1	-	-	0.9
35	IMH-666	33.6	-	15.3	25.5	-	68	-	31.3	14	44.8	-	17.9	15	8.4	4.3

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637													
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN
36	SMH-9	13.5	-	14.1	-	-	17.4	-	-	-	13.7	-	-	-	-
37	AMH-2002	-	-	6.1	12.8	-	37.2	-	13.7	-	46.8	-	28.9	-	17.7
38	EHL 161708	6.3	-	15.3	-	-	67.6	-	8.9	2.6	49.7	-	93.5	-	21.2
39	EHL 163909	19.8	-	9.4	19	-	-	-	-	-	39	-	6.2	-	-
40	EHL 164810	35.7	-	26.7	-	-	36.5	-	13.2	-	32	-	72.9	-	14.1
41	EHL 164910	24.5	-	29.1	-	-	31.8	-	-	-	38.2	-	-	-	-
42	L230	-	-	18	10.5	-	46.9	-	2.7	-	12.3	-	-	-	-
43	EH-2074	1.4	1.8	6.6	18.7	-	42.3	-	-	1.9	107.9	-	52.1	2.2	31.6
44	EC-3161	10	-	15.2	15.4	-	36.2	1.5	-	2.5	29.8	-	77.4	-	10.2
45	BH41001	20.8	24.3	27.5	16.4	-	82.6	-	24.1	16.5	28.3	-	60	24.8	8.7
46	BH41009	17.4	13.5	24.6	15.5	-	28	-	-	4.6	59.2	-	66.2	26.6	21.6
47	BIO-688	-	8.3	18.9	18.4	-	66.8	14.3	42.5	19	38.7	-	81.2	7.9	21.1
48	BIO-151	59.5	31.7	45.4	-	-	85.8	19.5	57.1	15.2	45.4	-	98.4	18.1	22.2
49	HKH - 411	25.5	4.2	1	30.6	-	9.4	-	-	2	37.7	-	49.9	27.7	-
50	HKH - 412	20.8	-	26.3	23.1	-	5.1	-	-	-	50.5	-	41.9	14	-
51	HKH - 414	15.6	3.1	35.3	17.7	-	27.4	-	8.2	1.3	23.7	-	33.6	-	13.9
52	HKH - 316	6.1	-	5.4	2.5	-	34	-	12.6	-	7.8	-	34.2	-	-
53	REH 2009-15	7.6	3.5	10.5	0.6	-	31.4	6.8	17.8	5.1	14.2	-	46.2	2.8	-
54	REH 2009-18	10	2	27.1	13.3	-	57.4	-	23.9	7.9	36.7	-	33.9	-	15.1
55	REH 2009-20	8.5	-	-	8.2	-	-	-	-	-	-	-	9.5	-	-
56	MMH-09-1	11.3	0.5	21.1	-	0.6	48.3	12.7	14.6	11.9	-	-	62.8	-	-
57	MMH-09-2	14.2	-	-	-	-	43	-	19.4	-	6.6	-	-	-	-
58	MMH-09-3	33.1	0.3	27.9	-	-	75.4	-	13.4	4.3	2.3	-	-	7.9	-
59	MMH-09-4	11.1	-	25.8	-	-	24.6	-	13	-	7.3	-	85.4	-	6.7
	CHECKS														
60	Navjot	-	-	-	-	-	3.1	-	-	-	16.2	-	-	-	-
61	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-
62	HM 8	13.3	-	-	-	-	6.9	-	-	-	51.3	0.6	29.6	37.4	22.2
63	HM 9	1.5	-	10.2	15.5	-	37.3	-	-	-	-	-	15.4	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8													
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
1	NMH-3095	35.9	-	36.8	11.6	57.4	4.7	112.5	95	22.5	44	103.3	-	-	3.3
2	PFMH- 96 I 41	38.7	-	0.8	11	81.4	0.3	110.1	88.2	31.1	44.3	119	-	-	5.9
3	PFMH- 96 I 26	26.3	-	-	4.3	65.9	1.3	99.2	150.4	11.7	35.2	105.6	-	-	-
4	PFMH- 96 N 46 (W)	43.2	-	-	20.9	22.5	6.4	99.7	95.7	64.1	53.7	125.6	-	-	-
5	Bisco -2668	54.1	-	-	27	63.4	46	147.5	254.2	25.7	71.3	169.6	50.9	-	12.5
6	KDMH 176	46.3	-	1.2	20.9	75.5	6.8	160.2	244.7	45.2	66.8	139.7	22	-	12
7	Safal X-2	37.5	-	43.9	12.2	93.3	6	174.9	24.4	-	56.2	135.9	48.8	-	18.8
8	X8B684	59.6	-	-	29.2	145.1	53.9	191.3	249.1	127.9	120.1	172.3	22.4	-	23.3
9	X8B685	13.9	-	-	-	113.5	-	167.8	134.3	-	46	114.7	13.5	-	-
10	KMH-48	40.5	-	-	13.6	73.1	2	45.3	83.4	63.8	35	74.3	-	-	0.3
11	P3540	38.9	-	9.8	15.1	90	33.4	129.9	195.2	25	60.9	149.5	-	-	-
12	Hy. P3293	28.6	-	21.1	8.6	95	31.2	163.6	127.5	20.9	69.3	174	22.3	-	9.7
13	Hy. P3396	21.9	-	6.8	6.5	90.1	-	172.1	117	103.2	85.7	204.8	21.6	-	6.5
14	X35A173	35.5	-	3.2	15.5	65.6	3.8	149.3	151	2.7	48.9	170.4	14	-	-
15	X35A174	29.4	-	2.1	4.5	71.1	7.9	133.2	164.5	16.5	49.7	142.7	10.8	-	14.2
16	JKMH-7014	-	-	-	-	65.4	20.7	65	81.4	49.9	43.7	77.7	-	-	-
17	JKMH-7004	17.8	8.4	6	14.1	72.3	7	123.9	104.6	-	27.9	103.3	-	-	-
18	S 6217	26.9	-	15.4	10.1	109.3	43.8	200.3	199.5	74.3	102.3	139	29.7	-	3.8
19	S 6304	46.3	-	76	22.8	94.6	21.4	152.3	159.4	38.3	67.6	116.6	13.2	-	9.8
20	JH 31404	31.3	-	58.5	14.3	114.5	10.6	169.3	219.4	-	44.3	150.6	-	-	11.5
21	NMH-1242	19.9	-	13	0.7	106.2	13.3	184.7	153.7	29.5	72	96.1	-	-	9.5
22	NMH-589 (Suvarna)	26.7	-	28.7	2.8	52.2	0.1	93.6	99.7	56.7	47.2	98	16.3	-	-
23	VMH-4106	23.4	8.3	43.1	17.5	65.2	-	171.4	97.6	36.8	59.1	137	39.6	-	10.2
24	KH-B63	41.3	-	-	21.8	70.2	37.9	149.1	245.6	83.2	86.9	124.6	-	-	-
25	KH-B52	39.3	-	-	18.6	111.6	27.4	136.1	135	97.2	83.4	149.9	0.5	-	23.1
26	KH-B55	37.3	3.5	-	24	39.6	-	107.1	105.6	-	25	112.1	-	-	-
27	KNMH-401061	32.4	-	-	13.9	44.1	-	86.7	115.8	16.4	30.1	120.3	-	-	-
28	CMH08-284	22.3	-	-	0.4	50.6	16.6	122.5	164.8	-	40.7	75.5	13.9	-	-
29	CMH08-292	33.5	-	14	7.4	133.1	31.2	169.7	110.8	48.1	79.8	121.3	39.6	13	10.3
30	CMH08-350	36.4	-	12.2	12.6	143.1	4.5	180.5	134.1	-	43.8	107.1	-	-	6.6
31	CMH08-433	22.7	-	10.1	6.9	98.3	22.9	192.1	159.2	65.4	89.1	123.1	45.4	-	21.7
32	Yuvraj Gold	63.4	5.8	62.4	40.8	126.3	4.3	199.3	86.4	59.1	82.5	171	51	17.7	13.5
33	Titan	42.1	-	-	10.9	53.8	2.3	137.6	161.3	62.7	63.6	137.2	9	-	11.4
34	IMH-111	22.2	-	-	0.5	69.8	19.1	112.3	117.9	-	41.5	123.8	13.1	-	1.4
35	IMH-666	31.9	-	-	6.4	25.6	16.9	95	62.6	17.9	41.6	94.2	-	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8													
		ZN 1				ZN 2									
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	VARA	RANC
36	SMH-9	-	-	-	-	39.1	10.2	62.3	53.2	70.4	45.5	97.2	-	-	-
37	AMH-2002	31.8	-	1.1	6.6	77.6	31.9	83.7	120.6	20.8	44.6	86	-	-	-
38	EHL 161708	41.5	-	3	5.8	57.3	10.2	102.2	113.7	27.7	44.5	89.8	2.3	-	-
39	EHL 163909	25.8	-	-	6.6	17.2	29.4	-	118.1	33.2	17.4	70.1	-	-	-
40	EHL 164810	9.5	-	-	-	37.9	21.8	85.8	77.4	-	32.9	94	-	-	-
41	EHL 164910	34.9	-	-	8.4	45.3	-	55.1	191.3	33	23.2	92.5	-	-	-
42	L230	16.3	-	-	0.9	-	-	46.5	112.2	98.2	40.4	84.4	-	-	-
43	EH-2074	34.6	-	-	5.9	49.2	-	49.7	88.2	92.2	42.8	86.4	-	-	-
44	EC-3161	-	-	-	-	26.2	2	74.8	74.3	21.7	30.9	86.2	-	-	-
45	BH41001	38	-	20.9	16.3	52.3	5.8	177.1	203.1	126.1	97.2	130.5	-	15.9	18.7
46	BH41009	-	-	18.7	-	79	17.6	88.7	177.3	28.5	43.3	136.2	18.6	-	8
47	BIO-688	44.3	-	46.1	26.2	65.9	3.2	156.6	87.3	84.4	76.7	139.4	-	-	8
48	BIO-151	33.3	8.7	5.8	23.7	146.8	30.6	145.4	199.7	34.3	67.6	172.6	39.1	12.1	7.4
49	HKH - 411	-	-	-	-	36.7	-	62.4	33.5	31.2	28	67.2	-	-	6.5
50	HKH - 412	-	-	-	-	38.2	-	28	47.7	-	-	24.6	-	-	-
51	HKH - 414	34.4	-	1.5	19.3	86.8	-	110.6	130.5	26.4	36.4	94.1	-	-	-
52	HKH - 316	-	-	-	-	43.1	20.4	57.4	102.8	-	24.7	88.7	-	-	-
53	REH 2009-15	42.8	-	23.5	20.4	62.9	-	94.5	45.3	58	44.1	126.1	-	-	-
54	REH 2009-18	26.3	-	11.7	6.2	54.6	-	85.3	62.7	51.6	40.9	89.9	-	-	-
55	REH 2009-20	6.6	-	7.8	-	70.3	18.8	64.8	157.3	40.7	40.1	100.1	-	-	-
56	MMH-09-1	1.2	-	14.5	-	67.7	16.6	91.6	139.4	70.6	57.1	123.8	-	-	-
57	MMH-09-2	-	-	9.7	-	74.2	0.8	79.9	81	49.9	41	100.9	-	-	-
58	MMH-09-3	18.4	-	-	3.4	14.1	14.8	76	68.7	21.2	35.9	69.5	-	-	-
59	MMH-09-4	13.5	-	-	0.6	9.3	-	40.7	-	-	4.8	98.9	1.9	-	-
	CHECKS														
60	Navjot	5.4	-	4.9	-	71.6	1.6	50.8	122.8	-	7.7	81.2	-	-	-
61	BIO 9637	19.7	-	-	2	57	44	110	121.7	30	60.2	127.7	-	-	-
62	HM 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	HM 9	-	-	10.3	-	35.8	-	52.7	117	54.1	26.1	67.8	-	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8													OV'L MEAN	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI		ZN 5 MEAN
1	NMH-3095	9.8	12.4	-	37.6	142	4.9	-	73.8	56.5	-	-	12.9	-	-	23.7
2	PFMH- 96 I 41	28.8	20.5	0.3	59.8	84.5	56.4	-	102.7	79.7	-	-	17	-	-	32.9
3	PFMH- 96 I 26	-	8.8	52.1	49.7	29.6	56.2	-	118.6	62.3	-	-	12.7	-	-	21.9
4	PFMH- 96 N 46 (W)	10.3	11.6	0.1	79.9	111.6	23	-	113.8	68.3	-	-	19.7	-	-	28.8
5	Bisco -2668	2.8	31.1	8.8	64.8	85.7	69.4	-	92.5	81.6	-	-	12.7	-	-	42.2
6	KDMH 176	32.8	32.4	13.5	77.1	144.1	35	-	159.7	93	-	-	3.9	-	-	44.7
7	Safal X-2	2.7	29	49.8	59.1	51.4	56.2	-	172.4	86.2	-	1.9	18	-	0.3	41.5
8	X8B684	41.1	44	42.2	34	157.6	41.3	-	147.9	89.9	-	-	22.3	-	-	55.9
9	X8B685	-	7.2	2.4	37.2	134	34.6	-	109.9	76.2	-	0.9	54.6	-	4.7	30.3
10	KMH-48	39.2	13.2	63.6	59.7	119.4	34.8	-	123.7	78.1	-	-	9.9	-	-	26.9
11	P3540	10.2	24.8	5.9	68.2	115.8	55.5	-	120.7	88.6	-	-	33.2	-	-	41.4
12	Hy. P3293	16	34.9	41.3	81.8	134.8	48.8	-	125.3	87.4	-	-	14	239.8	-	42.2
13	Hy. P3396	24.5	38.6	44.4	100.2	67.9	56.4	-	162.1	100.9	-	-	59.6	-	-	51.7
14	X35A173	4.4	21.6	67.3	56.6	104.8	68.5	-	129.3	89.3	-	-	28.9	-	-	37.6
15	X35A174	22.7	26.5	25	40.2	-	72.8	-	133.7	73.9	-	-	1.7	-	-	30.5
16	JKMH-7014	-	-	22.9	64.6	57.2	37.6	-	78.2	56.7	-	-	-	-	-	16.4
17	JKMH-7004	23.4	6	14.4	88.7	118.3	55.3	-	100.6	86.8	-	-	24.3	-	-	29.2
18	S 6217	19.1	24.9	28.4	82.3	159.3	40.5	-	133.9	93.1	-	0.6	53.6	-	11.4	50.8
19	S 6304	29.9	22	23.5	92.5	136.8	75.2	-	127.7	105.6	-	-	88.3	-	5.8	49.2
20	JH 31404	-	27.5	33.4	95	79.2	61.7	-	154.7	95.4	-	-	86.1	-	-	41.8
21	NMH-1242	24.7	18.8	18.5	91.5	138.5	38.3	-	138.9	98.7	-	-	63.6	-	4.9	43.9
22	NMH-589 (Suvarna)	-	5.1	53.1	88.8	-	35.9	-	97	61.1	-	-	29.5	-	-	22.1
23	VMH-4106	24.9	29.4	60	105.5	174.9	26.5	-	129.4	102.5	-	-	27	-	-	45.9
24	KH-B63	2.4	14.2	24.4	194.2	152.6	15.8	-	103.1	110.1	-	-	12.1	-	-	49
25	KH-B52	7.4	33	39.7	42	121.4	47.2	-	121.9	74.4	-	-	1.3	-	-	39.2
26	KH-B55	7.1	14.8	20.9	112.7	109.2	21.9	-	101.1	82.6	-	-	40.7	-	-	33.2
27	KNMH-401061	1.1	13	17.3	63.8	44.4	40.1	-	79.6	55.3	-	-	53.5	-	-	23.3
28	CMH08-284	12.7	-	37.7	43	104.9	53.4	-	109.8	73.3	-	-	71.1	-	4.3	26
29	CMH08-292	13	29.8	0.4	72.4	75.7	38.6	-	147.7	82.4	-	-	-	-	-	41.1
30	CMH08-350	-	19.3	26.4	112.4	158.9	56.6	-	153.4	115.5	-	-	74.2	-	5.2	46.3
31	CMH08-433	2.2	29.1	23	40.6	153	69.6	-	151.3	94.9	0.5	-	14.3	-	1.4	48.3
32	Yuvraj Gold	46.4	46.7	72.4	55.4	148.6	68.5	-	161.8	105.8	-	-	21.7	-	-	58.9
33	Titan	21.5	26.5	5.2	48.6	120.6	37.5	-	122.9	76	-	-	26.3	-	-	35.8
34	IMH-111	13.8	17.1	22.3	86.6	5	54.1	-	110	76.8	-	-	-	-	-	27.1
35	IMH-666	17.8	7.5	26.2	105.6	99.8	57.1	-	115.8	87.6	-	-	-	-	-	31.4

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 8											OV'L MEAN		
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS		GODH	CHHI
36	SMH-9	0.1	5.1	24.9	25.8	178.4	9.8	-	62.7	51.1	-	-	-	-	13.7
37	AMH-2002	-	-	16.1	84.8	75.8	28.4	-	86.8	64.1	-	-	-	-	23.4
38	EHL 161708	-	3.4	26.3	63.1	135.5	56.8	-	78.8	68.8	-	-	49.4	-	27.1
39	EHL 163909	5.7	-	19.8	94.9	115.3	-	-	56.7	52.5	-	-	-	-	12.9
40	EHL 164810	19.7	-	38.7	62.7	83.9	27.7	-	85.9	54.7	-	-	33.5	-	15.4
41	EHL 164910	9.8	-	41.3	45.2	49.7	23.2	-	47.8	43.2	-	-	-	-	12.3
42	L230	-	-	29.1	81	6.9	37.4	-	68.8	47.7	-	-	-	-	10.7
43	EH-2074	-	9.8	16.7	94.5	128.5	33.1	-	48.5	67.7	37.4	-	17.4	-	29.7
44	EC-3161	-	3.1	26.1	89.1	125	27.4	-	47.7	68.6	-	-	37	-	19.6
45	BH41001	6.6	34.1	39.5	90.8	161.8	70.8	-	103.9	91.6	-	-	23.5	-	49.1
46	BH41009	3.5	22.5	36.3	89.2	149.2	19.7	-	62.6	72.1	5.2	-	28.3	-	29.3
47	BIO-688	-	16.8	30.1	93.9	118.5	56	-	134.2	95.8	-	-	39.9	-	45.8
48	BIO-151	40.7	42.1	59.2	49	73.7	73.8	-	158.1	89.5	-	-	53.2	-	49.1
49	HKH - 411	10.7	12.5	10.6	113.9	134.1	2.3	-	46.2	67.7	-	-	15.7	-	16.6
50	HKH - 412	6.6	-	38.3	101.7	81.8	-	-	46	53.7	-	-	9.5	-	4.2
51	HKH - 414	2	11.2	48.1	92.9	130.6	19.2	-	77.8	66.7	-	-	3.1	-	28.2
52	HKH - 316	-	1.3	15.4	67.9	128.1	25.3	-	84.9	62.6	-	-	3.6	-	13.9
53	REH 2009-15	-	11.7	20.9	64.8	133.1	22.9	-	93.6	73	-	-	12.9	-	29.4
54	REH 2009-18	-	10.1	39.1	85.6	108.9	47.2	-	103.6	77.5	-	-	3.3	-	30
55	REH 2009-20	-	-	3.8	77.3	114.7	-	-	53.6	51.5	-	-	-	-	14.3
56	MMH-09-1	-	8.4	32.5	61.3	181.9	38.7	-	88.4	84	-	-	25.7	-	28
57	MMH-09-2	0.7	0.1	8.8	58.6	99.8	33.7	-	96.2	60.6	-	-	-	-	15.3
58	MMH-09-3	17.4	8.2	40	47.3	133.1	64	-	86.3	71.5	-	-	-	-	21.6
59	MMH-09-4	-	6.4	37.7	43.6	155.1	16.5	-	85.7	57.1	-	-	43.1	-	16.1
	CHECKS														
60	Navjot	-	-	-	55.8	127.7	-	-	40.7	51.2	-	-	-	-	6.9
61	BIO 9637	-	7.9	9.5	63.8	180.4	-	-	64.3	64.5	-	-	-	-	26
62	HM 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
63	HM 9	-	0.5	20.6	89.2	95	28.4	-	40.8	61.9	-	-	-	-	13.2

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9													
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
1	NMH-3095	78.4	0.4	24	48.5	15.9	30.6	39.2	-	-	14.2	21.2	26.1	-	12
2	PFMH- 96 I 41	82.1	-	-	47.8	33.5	25.2	37.5	-	-	14.4	30.5	13.9	-	14.9
3	PFMH- 96 I 26	65.8	-	-	38.9	22.1	26.4	30.5	15.4	-	7.1	22.5	-	4.1	-
4	PFMH- 96 N 46 (W)	88	17.4	-	60.9	-	32.8	30.7	-	6.5	21.9	34.4	0	-	3.9
5	Bisco -2668	102.3	15.7	-	69.1	20.3	82.1	62.1	63.3	-	35.8	60.7	96.6	16.6	22.1
6	KDMH 176	92	10.9	-	60.9	29.2	33.3	70.4	58.8	-	32.3	42.8	59	20.5	21.5
7	Safal X-2	80.5	-	30.4	49.3	42.3	32.3	80	-	-	23.9	40.6	93.8	21.4	28.9
8	X8B684	109.5	11.7	-	72	80.4	92	90.7	60.9	47.9	74.5	62.3	59.4	21.2	33.7
9	X8B685	49.5	-	-	30	57.2	21.9	75.4	8	-	15.7	27.9	47.8	-	4.2
10	KMH-48	84.4	-	-	51.3	27.5	27.2	-	-	6.3	7	3.9	-	-	8.8
11	P3540	82.3	6.4	-	53.2	39.9	66.5	50.5	36	-	27.6	48.7	-	21.8	7.4
12	Hy. P3293	68.8	5.5	9.8	44.5	43.6	63.7	72.6	4.8	-	34.2	63.3	59.3	25.4	19.1
13	Hy. P3396	60	12.5	-	41.8	39.9	22.6	78.2	0	31.9	47.2	81.6	58.4	16.5	15.5
14	X35A173	77.8	15.2	-	53.8	21.9	29.5	63.2	15.7	-	18	61.1	48.5	-	7.1
15	X35A174	69.8	-	-	39.1	26	34.6	52.7	21.9	-	18.7	44.6	44.4	-	23.8
16	JKMH-7014	19.3	31	-	23.8	21.8	50.6	8	-	-	13.9	5.9	-	-	0.4
17	JKMH-7004	54.7	47.5	-	51.9	26.9	33.5	46.6	-	-	1.4	21.1	-	-	-
18	S 6217	66.6	14.5	4.6	46.6	54.1	79.4	96.6	38	13.1	60.4	42.4	68.9	12.6	12.6
19	S 6304	92	17.5	59.5	63.4	43.3	51.5	65.2	19.5	-	32.9	29.1	47.5	-	19.1
20	JH 31404	72.4	19.6	43.6	52.1	58	38	76.3	47.2	-	14.4	49.4	-	21.1	20.9
21	NMH-1242	57.4	-	2.4	34	51.8	41.4	86.4	16.9	-	36.3	16.9	19.1	0.2	18.8
22	NMH-589 (Suvarna)	66.4	-	16.6	36.8	12.1	24.9	26.8	-	1.7	16.7	18	51.5	-	0.8
23	VMH-4106	62	47.3	29.7	56.4	21.6	4.5	77.7	-	-	26.1	41.2	81.9	18.6	19.5
24	KH-B63	85.4	24.7	-	62.1	25.3	72	63.1	59.3	18.9	48.2	33.8	28.4	13.8	-
25	KH-B52	82.8	17.9	-	57.9	55.8	58.9	54.6	8.3	28	45.4	48.9	31	16.9	33.5
26	KH-B55	80.2	40.8	-	65.1	2.8	1.2	35.6	-	-	-	26.4	19	5.4	7.1
27	KNMH-401061	73.8	16	-	51.6	6.1	17.6	22.2	-	-	3.1	31.3	27.2	-	5.3
28	CMH08-284	60.5	-	-	33.7	10.9	45.5	45.7	22	-	11.6	4.6	48.4	-	-
29	CMH08-292	75.2	-	3.4	43	71.6	63.7	76.6	-	-	42.5	31.8	81.8	45.7	19.6
30	CMH08-350	79	3.2	1.7	49.9	79	30.3	83.7	7.9	-	14	23.4	28.7	28.2	15.6
31	CMH08-433	61.1	12.2	-	42.3	46	53.3	91.3	19.4	7.3	49.9	33	89.5	27.5	32.1
32	Yuvraj Gold	114.5	44	47.2	87.4	66.6	30.1	96	-	3.3	44.7	61.5	96.7	51.7	23.1
33	Titan	86.6	-	-	47.7	13.3	27.7	55.6	20.4	5.6	29.7	41.3	42	4	20.9
34	IMH-111	60.4	-	-	33.8	25	48.5	39	0.4	-	12.2	33.4	47.4	-	10
35	IMH-666	73.2	-	-	41.7	-	45.9	27.7	-	-	12.3	15.7	22.8	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9													
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
36	SMH-9	15.4	-	-	7.9	2.5	37.5	6.3	-	10.6	15.3	17.5	-	8.7	-
37	AMH-2002	73	-	-	42	30.8	64.5	20.3	1.7	-	14.6	10.8	7.5	-	1.1
38	EHL 161708	85.7	-	-	40.8	15.8	37.5	32.4	-	-	14.5	13.1	33.3	3	-
39	EHL 163909	65.1	4.6	-	41.9	-	61.5	-	0.5	-	-	1.4	-	-	-
40	EHL 164810	43.8	-	-	22.5	1.5	51.9	21.6	-	-	5.4	15.6	0.4	-	-
41	EHL 164910	77.1	-	-	44.3	7	9.9	1.5	34.2	-	-	14.7	9.1	-	-
42	L230	52.6	4.9	-	34.3	-	7.8	-	-	28.6	11.3	9.9	-	-	-
43	EH-2074	76.7	-	-	41	9.8	18.9	-	-	24.7	13.2	11.1	11	23.6	4.7
44	EC-3161	14.4	-	-	3.4	-	27.2	14.4	-	-	3.8	10.9	12.2	-	-
45	BH41001	81.2	12.2	9.6	54.7	12.1	32	81.4	39.7	46.7	56.4	37.4	28	49.4	28.8
46	BH41009	19.2	-	7.6	5.2	31.8	46.8	23.6	27.8	-	13.6	40.8	54.5	8.7	17.2
47	BIO-688	89.4	33.4	32.4	67.9	22.1	28.7	68	-	19.7	40.1	42.6	6.8	-	17.1
48	BIO-151	75	47.9	-	64.6	81.7	63	60.7	38.1	-	32.9	62.4	81.2	44.5	16.5
49	HKH - 411	10.9	5.8	-	9	0.6	20.3	6.3	-	-	1.5	-	12.1	12	15.6
50	HKH - 412	13.3	-	-	8	1.8	-	-	-	-	-	-	28.8	0.4	3.4
51	HKH - 414	76.4	30.4	-	58.8	37.5	2.8	37.9	6.2	-	8.1	15.7	10.8	7.8	6.7
52	HKH - 316	14.4	-	-	6	5.3	50.2	3.1	-	-	-	12.5	8.1	13.9	-
53	REH 2009-15	87.4	16.7	11.9	60.3	19.9	12.3	27.3	-	2.6	14.2	34.7	-	-	8.4
54	REH 2009-18	65.9	1.9	1.2	41.3	13.9	17.9	21.4	-	-	11.7	13.2	15	12.4	5.7
55	REH 2009-20	39.9	4.2	-	26.2	25.4	48.2	7.9	18.6	-	11	19.3	8	-	-
56	MMH-09-1	32.8	-	3.8	14.6	23.4	45.4	25.5	10.3	10.7	24.5	33.3	7.4	-	0.3
57	MMH-09-2	28.6	-	-	10.8	28.3	25.7	17.8	-	-	11.8	19.7	-	-	-
58	MMH-09-3	55.4	8.9	-	37.6	-	43.2	15.2	-	-	7.8	1	2.8	-	7.5
59	MMH-09-4	49	9.6	-	33.9	-	19.4	-	-	-	-	18.5	32.8	8.4	-
	CHECKS														
60	Navjot	38.4	15.3	-	29.5	26.4	26.8	-	2.7	-	-	8	-	-	-
61	BIO 9637	57.1	1.6	-	35.8	15.6	79.6	37.5	2.2	-	27	35.7	1.7	-	0.4
62	HM 8	31.3	36.1	-	33.1	-	24.8	-	-	-	-	-	30.3	28.9	8.5
63	HM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9												OV'L MEAN		
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH		CHHI	ZN 5 MEAN
1	NMH-3095	22.5	11.8	-	-	24.1	-	-	23.4	-	12.7	-	26.8	-	10	9.3
2	PFMH- 96 I 41	43.8	19.9	-	-	-	21.8	24.4	43.9	11	16.1	2.5	31.3	7.9	14.6	17.4
3	PFMH- 96 I 26	10.9	8.2	26.2	-	-	21.7	-	55.2	0.3	-	13.7	26.5	1.3	8.6	7.7
4	PFMH- 96 N 46 (W)	23.1	11	-	-	8.5	-	-	51.8	4	-	4	34.4	30.7	4.6	13.8
5	Bisco -2668	14.7	30.4	-	-	-	31.9	22	36.7	12.2	9.1	6.6	26.5	5.6	12.9	25.6
6	KDMH 176	48.2	31.7	-	-	25.2	5.1	12.4	84.4	19.2	23.5	12.8	16.6	30.9	17.1	27.8
7	Safal X-2	14.7	28.3	24.2	-	-	21.7	21	93.4	15	47.7	30.3	32.5	32.2	36.2	25
8	X8B684	57.5	43.2	18	-	32.1	10	29.4	76	17.3	17.6	3.4	37.3	18.4	17.1	37.7
9	X8B685	6.4	6.6	-	-	20	4.8	21.3	49.1	8.9	32.1	29	73.5	28.5	42.2	15.1
10	KMH-48	55.4	12.6	35.6	-	12.5	5	10	58.8	10.1	-	0.4	23.4	-	-	12.1
11	P3540	23	24.1	-	-	10.7	21.1	23.2	56.7	16.5	33	14	49.6	29.3	29.6	24.9
12	Hy. P3293	29.4	34.2	17.2	-	20.4	15.9	4.5	60	15.8	0.9	16.8	28	393.9	15.1	25.6
13	Hy. P3396	38.9	37.9	19.7	5.8	-	21.8	34.7	86.1	24.1	6.6	27.2	79.1	9.5	35.3	33.9
14	X35A173	16.6	20.9	38.7	-	5.1	31.2	23.7	62.9	17	-	19.9	44.7	28.3	18.2	21.5
15	X35A174	37	25.9	3.7	-	-	34.6	28	65.9	7.4	-	-	14.2	19.2	-	15.3
16	JKMH-7014	6.1	-	1.9	-	-	7.2	-	26.6	-	25	1.2	9.6	6.6	10.7	2.8
17	JKMH-7004	37.8	5.4	-	-	12	21	13.3	42.5	15.4	25.3	-	39.5	31.2	16	14.2
18	S 6217	32.9	24.2	6.5	-	33	9.4	12.6	66.1	19.3	63.5	28.7	72.5	27.8	51.4	33.2
19	S 6304	45	21.3	2.4	1.7	21.5	36.5	29.7	61.7	27	46.2	-	111.4	39.5	43.7	31.8
20	JH 31404	9.2	26.8	10.6	3.1	-	25.9	17.1	80.9	20.7	2.5	4.8	109	40.7	32.9	25.3
21	NMH-1242	39.2	18.2	-	1.2	22.3	7.7	30.4	69.7	22.7	54.4	6.9	83.6	27.3	42.5	27.1
22	NMH-589 (Suvarna)	-	4.5	26.9	-	-	5.8	4.8	39.9	-	6.9	-	45.4	18.3	8.1	7.8
23	VMH-4106	39.4	28.7	32.7	8.6	41	-	30.8	62.9	25.1	9.3	23.3	42.5	43.5	24.4	28.9
24	KH-B63	14.3	13.5	3.2	55.5	29.6	-	22.9	44.2	29.8	48.6	11	25.8	13.3	26.5	31.6
25	KH-B52	19.9	32.3	15.9	-	13.6	14.6	2.1	57.6	7.7	3.4	-	13.7	27.9	-	23
26	KH-B55	19.6	14.2	0.2	12.4	7.3	-	12.1	42.8	12.8	42.7	5	58	33.2	31	17.6
27	KNMH-401061	12.9	12.4	-	-	-	9.2	-	27.5	-	18.6	-	72.3	11.3	21.9	8.9
28	CMH08-284	25.8	-	14.2	-	5.1	19.5	6.8	49	7	48.4	3.8	92.1	19.2	41.7	11.3
29	CMH08-292	26.1	29	-	-	-	8	16.6	75.9	12.7	29.7	17.1	3.4	31.7	17.1	24.7
30	CMH08-350	6.6	18.7	4.8	12.3	32.8	22	36.2	79.9	33.1	56.9	-	95.6	33.4	42.9	29.2
31	CMH08-433	14.1	28.4	2	-	29.8	32.1	18.8	78.5	20.4	69	21.4	28.3	38.1	37.7	31
32	Yuvraj Gold	63.4	45.9	43	-	27.5	31.3	38.1	85.9	27.1	43.6	19.4	36.6	38.7	31.5	40.4
33	Titan	35.6	25.8	-	-	13.2	7.1	9.3	58.3	8.8	18.1	-	41.8	4.1	10.7	19.9
34	IMH-111	27	16.5	1.5	-	-	20	27.8	49.1	9.2	44.6	-	-	-	-	12.3
35	IMH-666	31.5	6.9	4.7	8.7	2.5	22.4	2.1	53.2	15.9	60.9	3.4	2.1	21.7	20.5	16

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM 9											OV'L MEAN			
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS		GODH	CHHI	ZN 5 MEAN
36	SMH-9	11.8	4.5	3.6	-	42.8	-	-	15.5	-	26.4	-	-	-	-	0.4
37	AMH-2002	-	-	-	-	-	-	-	32.6	1.4	63.2	20.1	11.7	-	30.8	9
38	EHL 161708	4.6	2.8	4.7	-	20.8	22.1	-	27	4.3	66.5	-	67.7	-	34.7	12.3
39	EHL 163909	18	-	-	3	10.5	-	-	11.3	-	54.5	-	-	-	7.6	-
40	EHL 164810	33.6	-	15	-	-	-	-	32	-	46.7	-	49.8	-	26.8	1.9
41	EHL 164910	22.6	-	17.2	-	-	-	-	5	-	53.7	-	-	-	5.9	-
42	L230	-	-	7.1	-	-	7	-	19.9	-	24.9	-	-	-	-	-
43	EH-2074	-	9.2	-	2.8	17.2	3.7	-	5.5	3.6	131.1	-	31.8	8.2	46.2	14.6
44	EC-3161	8.3	2.6	4.5	-	15.4	-	4.6	4.9	4.1	44.3	-	53.8	3.7	22.5	5.7
45	BH41001	19	33.4	15.7	0.8	34.3	33.1	-	44.8	18.3	42.6	-	38.7	32	20.8	31.7
46	BH41009	15.6	21.8	13.1	0	27.8	-	2.7	15.5	6.3	77	-	44	33.9	35.1	14.2
47	BIO-688	-	16.2	7.9	2.5	12.1	21.5	17.9	66.3	21	54.2	5.7	57.1	14.2	34.6	28.8
48	BIO-151	57.1	41.3	32	-	-	35.3	23.2	83.3	17.1	61.7	-	71.9	25	35.8	31.7
49	HKH - 411	23.6	11.9	-	13.1	20.1	-	-	3.9	3.6	53.1	-	29.9	35	-	3
50	HKH - 412	19	-	14.7	6.6	-	-	-	3.7	-	67.3	-	23	20.6	6.3	-
51	HKH - 414	13.8	10.6	22.8	2	18.3	-	-	26.3	3	37.5	25.9	15.8	-	26.6	13.3
52	HKH - 316	4.5	0.7	-	-	17	-	-	31.3	0.4	19.9	-	16.3	-	-	0.6
53	REH 2009-15	5.9	11.1	0.3	-	19.6	-	10.1	37.5	6.8	26.9	-	26.7	8.8	10.8	14.3
54	REH 2009-18	8.3	9.5	15.4	-	7.2	14.7	-	44.6	9.7	52	18.4	16	5.7	27.9	14.8
55	REH 2009-20	6.8	-	-	-	10.1	-	-	9.1	-	10.6	-	-	-	-	0.9
56	MMH-09-1	9.6	7.8	9.9	-	44.6	8	16.2	33.8	13.7	-	-	41.1	4.2	3.4	13
57	MMH-09-2	12.4	-	-	-	2.5	4.2	-	39.3	-	18.5	-	-	-	-	1.8
58	MMH-09-3	31	7.6	16.1	-	19.6	27.8	-	32.3	6	13.8	-	-	14.1	-	7.4
59	MMH-09-4	9.4	5.8	14.2	-	30.9	-	-	31.9	-	19.3	-	60.6	-	18.6	2.5
CHECKS																
60	Navjot	-	-	-	-	16.8	-	1.4	-	-	29.2	-	-	-	-	-
61	BIO 9637	-	7.3	-	-	43.8	-	3.1	16.7	1.6	11.2	27.2	-	5.8	11.1	11.3
62	HM 8	11.6	-	-	-	-	-	-	-	-	68.2	27.9	12.3	45.3	35.8	-
63	HM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
1	NMH-3095	61.0	56.0	60.7	59.2	54.7	51.7	49.3	56.7	53.0	53.1	55.3	56.7	57.5	52.5
2	PFMH- 96 I 41	63.0	57.0	63.0	61.0	55.3	52.0	48.7	56.0	51.0	52.6	53.0	53.0	58.0	50.0
3	PFMH- 96 I 26	59.0	57.0	63.3	59.8	54.7	52.0	49.0	59.3	49.0	52.8	52.3	54.0	55.5	50.0
4	PFMH- 96 N 46 (W)	61.3	57.0	60.3	59.6	54.7	52.7	47.7	56.0	53.0	52.8	52.7	54.7	55.5	50.0
5	Bisco -2668	65.3	59.0	60.0	61.4	54.7	52.7	52.3	58.0	51.0	53.7	55.7	54.7	59.0	53.0
6	KDMH 176	63.7	59.0	67.0	63.2	56.7	52.7	51.0	55.7	53.0	53.8	58.3	56.3	60.5	52.5
7	Safal X-2	64.7	57.0	63.0	61.6	56.3	52.3	50.0	60.7	53.0	54.5	55.3	56.3	60.5	55.5
8	X8B684	62.3	59.0	60.0	60.4	53.7	54.0	50.0	57.7	47.0	52.5	54.3	54.7	56.5	51.5
9	X8B685	62.7	57.0	62.0	60.6	52.7	52.7	49.7	57.0	52.0	52.8	55.3	54.0	57.5	50.0
10	KMH-48	62.0	56.0	59.7	59.2	54.3	50.7	51.0	57.0	46.0	51.8	53.3	54.7	57.5	51.0
11	P3540	66.7	56.0	70.0	64.2	57.0	51.7	53.0	57.0	55.0	54.7	58.7	58.7	58.5	56.0
12	Hy. P3293	66.0	57.0	62.7	61.9	56.3	52.7	54.0	59.0	55.0	55.4	58.7	57.3	59.0	54.0
13	Hy. P3396	65.7	57.0	63.0	61.9	57.3	53.0	53.3	59.7	50.0	54.7	57.7	57.0	60.0	54.0
14	X35A173	66.7	56.0	64.0	62.2	57.0	52.3	51.3	58.0	52.0	54.1	54.3	56.0	59.0	55.0
15	X35A174	64.3	57.0	60.7	60.7	55.7	52.7	53.0	57.7	54.0	54.6	54.3	56.3	59.5	53.0
16	JKMH-7014	65.0	56.0	63.3	61.4	56.3	50.7	50.7	55.3	50.0	52.6	52.3	55.0	62.5	51.0
17	JKMH-7004	63.7	57.0	62.7	61.1	52.3	52.7	48.7	56.0	53.0	52.5	52.3	53.3	56.0	49.5
18	S 6217	67.7	53.0	60.7	60.4	54.7	51.3	53.0	59.7	52.3	54.2	54.0	55.0	58.0	54.0
19	S 6304	67.0	55.0	67.0	63.0	57.0	52.7	52.3	57.7	53.0	54.5	54.3	57.7	63.0	53.5
20	JH 31404	65.7	55.0	68.7	63.1	56.3	52.7	52.3	56.7	53.0	54.2	57.3	55.3	56.5	54.0
21	NMH-1242	62.0	53.0	62.7	59.2	55.0	52.7	51.0	56.7	49.0	52.9	53.3	55.0	58.5	52.5
22	NMH-589 (Suvarna)	65.7	57.0	62.7	61.8	56.7	52.0	51.3	58.3	55.0	54.7	54.3	53.7	58.0	52.5
23	VMH-4106	67.7	57.0	67.0	63.9	57.0	51.7	53.3	58.3	53.0	54.7	56.3	55.3	59.0	57.0
24	KH-B63	61.3	53.0	60.0	58.1	54.0	53.3	50.3	55.7	49.0	52.5	53.3	54.7	59.5	53.0
25	KH-B52	64.7	57.0	68.0	63.2	54.0	52.0	51.3	60.0	54.0	54.3	53.3	54.7	62.0	53.5
26	KH-B55	63.7	55.0	62.7	60.4	55.0	51.0	50.0	56.7	51.0	52.7	53.7	55.3	57.5	53.0
27	KNMH-401061	65.7	54.0	59.7	59.8	58.3	52.3	55.7	57.7	55.0	55.8	53.3	58.3	63.5	52.5
28	CMH08-284	65.0	52.0	74.0	63.7	52.3	52.0	49.0	55.7	54.0	52.6	53.7	53.0	58.0	50.0
29	CMH08-292	63.7	52.0	62.7	59.4	57.3	53.0	50.7	58.0	55.0	54.8	55.7	55.0	57.5	53.0
30	CMH08-350	64.3	52.0	69.0	61.8	56.0	52.3	51.0	58.0	53.0	54.1	56.0	57.0	60.5	51.5
31	CMH08-433	64.7	52.0	67.0	61.2	56.3	51.7	52.7	59.7	50.0	54.1	53.7	56.3	61.0	51.5
32	Yuvraj Gold	65.0	52.0	62.7	59.9	54.7	53.0	50.7	59.3	50.0	53.5	55.3	52.7	61.0	52.5
33	Titan	63.0	52.0	60.7	58.6	57.0	53.0	52.0	58.7	54.0	54.9	55.0	56.7	57.5	54.0
34	IMH-111	66.7	52.0	62.7	60.4	59.0	52.3	54.7	59.0	51.0	55.2	56.0	57.3	62.5	55.0
35	IMH-666	64.3	52.0	62.0	59.4	53.7	53.0	49.0	58.0	51.0	52.9	53.0	54.3	58.0	52.0
36	SMH-9	62.3	52.0	63.0	59.1	54.3	53.3	48.7	57.0	49.3	52.5	53.3	53.3	59.0	52.0

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
37	AMH-2002	62.3	52.0	59.7	58.0	54.3	51.0	49.0	55.0	54.0	52.7	52.7	54.0	58.0	51.5
38	EHL 161708	61.3	52.0	66.3	59.9	54.7	53.3	50.3	56.7	52.0	53.4	53.3	55.3	57.5	52.0
39	EHL 163909	61.0	56.0	65.3	60.8	55.3	52.7	51.0	54.7	53.0	53.3	55.0	56.0	56.5	54.5
40	EHL 164810	62.0	52.0	63.0	59.0	52.0	50.3	47.3	54.7	50.0	50.9	51.7	51.3	59.5	48.0
41	EHL 164910	64.3	52.0	60.0	58.8	53.3	52.0	49.3	57.0	50.0	52.3	53.3	53.7	54.0	50.5
42	L230	61.3	56.0	60.0	59.1	52.3	51.7	47.7	53.7	55.0	52.1	52.7	52.0	55.5	51.0
43	EH-2074	63.3	56.0	60.0	59.8	54.3	51.3	49.3	58.0	54.7	53.5	53.0	56.0	57.0	49.5
44	EC-3161	65.3	52.0	63.7	60.3	56.3	52.3	50.3	58.3	51.0	53.7	53.0	56.0	59.0	53.0
45	BH41001	62.3	56.0	71.0	63.1	54.0	51.7	51.3	58.3	47.0	52.5	54.7	57.0	60.0	54.0
46	BH41009	67.0	57.0	69.3	64.4	55.3	52.7	50.7	57.7	54.0	54.1	56.7	59.0	58.0	54.5
47	BIO-688	65.3	58.0	65.0	62.8	56.7	52.7	51.3	57.0	53.0	54.1	54.3	55.3	55.5	53.0
48	BIO-151	67.3	58.0	73.7	66.3	57.3	52.3	54.0	58.3	55.0	55.4	56.7	56.3	60.0	55.0
49	HKH - 411	65.0	55.0	65.3	61.8	56.3	51.3	51.3	61.0	48.0	53.6	59.0	59.7	61.0	57.5
50	HKH - 412	63.0	56.0	73.0	64.0	58.0	51.0	49.3	60.7	52.0	54.2	57.3	55.7	55.5	53.0
51	HKH - 414	64.3	53.0	67.3	61.6	53.0	52.3	49.0	53.3	53.0	52.1	53.3	57.3	55.5	51.0
52	HKH - 316	62.7	57.0	60.7	60.1	53.3	52.7	47.0	57.0	52.0	52.4	53.3	53.3	55.0	49.0
53	REH 2009-15	65.3	57.0	68.0	63.4	55.0	51.0	50.0	60.7	53.7	54.1	56.3	58.3	59.0	55.0
54	REH 2009-18	66.3	54.0	62.7	61.0	54.7	51.3	51.7	59.7	54.0	54.3	53.7	57.7	59.5	54.0
55	REH 2009-20	61.0	57.0	59.7	59.2	53.3	50.7	48.3	53.3	51.0	51.3	52.3	53.7	58.5	49.5
56	MMH-09-1	62.7	58.0	69.7	63.4	52.7	52.0	49.0	57.7	47.0	51.7	53.7	55.0	55.0	52.0
57	MMH-09-2	64.3	60.0	59.3	61.2	53.3	53.7	49.3	59.0	46.0	52.3	53.7	55.0	57.0	52.5
58	MMH-09-3	65.7	54.0	69.3	63.0	58.7	52.0	57.0	63.7	53.0	56.9	56.7	58.3	57.5	55.5
59	MMH-09-4	67.0	54.0	69.7	63.6	58.7	52.0	55.0	62.7	50.0	55.7	56.3	59.0	63.5	57.0
CHECKS															
60	Navjot	63.0	51.0	59.3	57.8	53.3	52.0	48.0	55.3	52.0	52.1	52.3	53.0	59.0	50.0
61	BIO 9637	62.7	52.0	59.3	58.0	54.7	51.7	49.7	57.0	53.0	53.2	52.3	54.7	57.0	52.0
62	HM 8	67.0	52.0	67.7	62.2	55.3	53.0	49.0	59.0	52.0	53.7	56.7	56.7	59.0	51.5
63	HM 9	64.7	52.0	69.3	62.0	54.7	52.3	48.3	55.7	50.0	52.2	54.3	54.7	58.0	52.5
	Loc. Mean	64.1	55.0	64.2	61.1	55.2	52.2	50.7	57.7	51.8	53.5	54.6	55.5	58.5	52.6
	C.D. (5%)	2.56-		2.04	4.46	2.47	2.04	1.98	4.71	0.31	2.03	1.16	2.98	3.17	2.32
	C.V. (%)	2.47-		1.96	4.51	2.77	2.42	2.41	5.05	0.37	3.05	1.31	3.32	2.71	2.21
	F (Prob.)	0.00	0.00	0.00	0.06	0.00	0.25	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
1	NMH-3095	52.0	54.8	60.3	54.7	57.7	58.0	52.7	54.7	56.3	54.0	45.7	54.5	54.7	52.2	54.9
2	PFMH- 96 I 41	53.7	53.5	59.0	55.3	58.3	57.0	52.3	54.0	56.0	53.7	47.3	51.5	51.0	50.9	54.5
3	PFMH- 96 I 26	52.3	52.8	59.3	54.7	59.7	57.3	52.7	55.0	56.4	54.3	47.0	53.0	50.7	51.3	54.4
4	PFMH- 96 N 46 (W)	52.7	53.1	58.7	54.3	57.0	56.7	53.3	53.7	55.6	53.0	43.7	54.0	50.7	50.3	54.1
5	Bisco -2668	54.0	55.3	58.7	55.7	60.7	59.3	56.3	58.3	58.2	54.3	44.7	54.0	55.7	52.2	56.0
6	KDMH 176	53.7	56.3	59.7	56.0	60.7	59.0	53.3	55.3	57.3	53.3	45.0	57.0	52.3	51.9	56.2
7	Safal X-2	56.7	56.9	58.0	56.3	57.7	60.3	53.3	56.0	56.9	56.7	47.3	55.0	53.3	53.1	56.3
8	X8B684	53.3	54.1	59.0	55.7	57.3	58.7	53.3	54.3	56.4	52.7	44.7	53.0	52.0	50.6	54.6
9	X8B685	52.0	53.8	59.0	55.7	60.0	57.7	52.7	53.3	56.4	52.7	45.7	53.5	50.7	50.6	54.6
10	KMH-48	52.3	53.8	58.0	56.0	56.3	57.0	52.0	52.0	55.2	54.7	47.0	53.0	52.0	51.7	54.1
11	P3540	57.0	57.8	58.7	58.3	60.7	61.7	54.0	58.7	58.7	56.3	47.7	55.0	55.3	53.6	57.5
12	Hy. P3293	56.3	57.1	58.3	59.0	57.7	61.3	56.0	60.3	58.8	55.7	47.3	57.0	52.3	53.1	57.1
13	Hy. P3396	54.3	56.6	59.0	54.7	60.7	62.0	56.3	58.7	58.6	55.0	48.0	56.0	54.7	53.4	56.8
14	X35A173	54.7	55.8	56.7	55.3	60.7	58.7	53.7	56.3	56.9	55.7	45.7	54.0	54.3	52.4	56.0
15	X35A174	54.3	55.5	58.0	55.7	56.3	59.7	53.7	56.0	56.6	54.0	45.0	53.5	53.0	51.4	55.5
16	JKMH-7014	53.3	54.8	60.0	55.7	57.3	57.3	52.0	53.3	55.9	53.3	44.7	54.0	50.7	50.7	54.8
17	JKMH-7004	52.0	52.6	58.7	54.7	57.7	56.3	51.3	52.3	55.2	53.0	45.3	49.0	50.7	49.5	53.8
18	S 6217	54.7	55.1	59.3	54.3	57.7	59.7	53.7	55.0	56.6	54.7	46.0	53.5	52.7	51.7	55.4
19	S 6304	57.0	57.1	59.0	55.7	59.3	60.7	55.0	58.0	57.9	55.3	45.0	52.0	55.3	51.9	56.6
20	JH 31404	55.7	55.8	59.7	56.7	60.7	60.0	56.3	57.7	58.5	53.7	45.3	53.5	55.3	52.0	56.4
21	NMH-1242	54.7	54.8	60.0	55.0	58.3	57.7	52.3	53.3	56.1	54.3	45.7	54.0	52.0	51.5	54.7
22	NMH-589 (Suvarna)	55.3	54.8	57.3	54.7	60.7	58.3	53.7	55.3	56.7	53.0	47.3	51.5	52.3	51.0	55.5
23	VMH-4106	57.3	57.0	58.7	56.3	60.0	63.0	55.7	59.3	58.8	56.7	47.0	57.0	56.0	54.2	57.4
24	KH-B63	52.0	54.5	60.7	56.3	57.3	57.7	52.0	53.3	56.2	52.7	46.7	54.0	52.0	51.3	54.4
25	KH-B52	53.0	55.3	58.3	54.7	57.7	57.7	53.0	52.0	55.6	53.7	45.7	53.0	51.0	50.8	55.4
26	KH-B55	53.0	54.5	59.0	50.3	60.7	58.3	53.0	55.0	56.1	54.3	44.7	54.0	50.7	50.9	54.7
27	KNMH-401061	55.0	56.5	58.3	57.7	60.7	60.7	54.0	57.3	58.1	55.0	45.3	54.5	54.3	52.3	56.5
28	CMH08-284	57.0	54.3	58.7	55.0	58.7	58.3	53.0	54.7	56.4	54.3	45.7	50.0	51.7	50.4	55.0
29	CMH08-292	56.0	55.4	58.3	54.7	59.0	58.0	53.3	56.3	56.6	52.7	47.3	53.5	52.7	51.5	55.4
30	CMH08-350	55.0	56.0	58.7	52.0	57.0	58.3	53.0	55.3	55.7	53.0	47.3	53.0	51.7	51.3	55.4
31	CMH08-433	54.0	55.3	59.7	57.7	57.7	59.7	53.7	55.3	57.3	53.7	45.3	55.0	51.3	51.3	55.6
32	Yuvraj Gold	55.3	55.4	59.0	55.0	58.7	58.7	53.3	56.0	56.8	52.0	45.0	54.0	50.7	50.4	55.1
33	Titan	54.3	55.5	59.0	56.3	61.0	59.0	54.0	58.0	57.9	54.3	45.3	53.5	54.7	52.0	55.8
34	IMH-111	55.3	57.2	58.7	57.7	59.3	62.0	54.7	58.7	58.5	54.3	44.0	56.0	55.7	52.5	56.7
35	IMH-666	53.7	54.2	59.3	55.0	60.3	58.0	52.7	52.0	56.2	53.7	45.7	53.5	51.7	51.1	54.6
36	SMH-9	52.7	54.1	58.7	56.0	53.7	57.0	52.3	54.7	55.4	53.0	45.7	53.5	51.3	50.9	54.2

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
37	AMH-2002	53.0	53.8	59.7	55.0	56.7	58.3	52.0	53.0	55.8	52.7	44.3	53.0	51.7	50.4	54.0
38	EHL 161708	53.0	54.2	59.7	55.7	58.7	57.0	55.0	54.7	56.8	54.0	47.7	51.5	51.0	51.0	54.9
39	EHL 163909	51.7	54.7	59.7	56.3	58.0	60.7	51.7	54.3	56.8	52.7	45.3	55.0	51.0	51.0	55.1
40	EHL 164810	51.7	52.4	59.7	52.3	57.3	56.3	51.3	52.7	54.9	53.0	43.3	51.5	50.0	49.5	53.1
41	EHL 164910	51.7	52.6	58.7	55.7	57.7	57.3	52.0	53.0	55.7	51.7	46.0	51.5	51.0	50.0	53.7
42	L230	51.3	52.5	56.7	55.3	57.3	57.0	51.0	52.0	54.9	53.0	44.0	52.5	51.0	50.1	53.5
43	EH-2074	52.7	53.6	58.7	55.7	60.3	56.7	52.7	53.0	56.2	51.7	46.0	53.0	51.0	50.4	54.5
44	EC-3161	54.7	55.1	59.3	55.3	57.3	58.0	53.7	53.3	56.2	54.3	45.7	53.0	53.0	51.5	55.1
45	BH41001	54.7	56.1	59.3	56.3	55.0	59.3	53.0	55.3	56.4	53.7	47.3	55.0	53.0	52.3	55.6
46	BH41009	54.7	56.6	59.0	56.0	55.3	61.7	53.7	55.0	56.8	54.7	45.0	55.5	53.7	52.2	56.3
47	BIO-688	53.3	54.3	59.3	54.7	57.0	56.7	53.0	54.0	55.8	53.3	46.7	53.0	50.7	50.9	55.2
48	BIO-151	57.3	57.1	59.0	56.3	59.3	61.7	54.0	56.3	57.8	54.0	46.3	54.0	55.7	52.5	57.3
49	HKH - 411	57.3	58.9	58.3	55.7	60.3	61.7	-	58.3	58.9	53.7	48.3	55.0	55.3	53.1	57.0
50	HKH - 412	54.3	55.2	57.7	55.7	60.7	60.3	-	56.7	58.2	55.7	44.3	53.0	55.3	52.1	56.3
51	HKH - 414	57.3	54.9	59.3	54.7	56.7	57.7	53.3	55.0	56.1	52.7	46.7	52.5	51.0	50.7	54.8
52	HKH - 316	54.0	52.9	59.3	54.3	55.7	57.7	52.7	53.7	55.6	52.0	45.0	54.0	52.0	50.8	54.1
53	REH 2009-15	53.0	56.3	59.0	55.7	56.7	59.0	52.7	56.0	56.5	54.7	48.7	57.0	55.0	53.8	56.4
54	REH 2009-18	54.3	55.8	58.7	54.7	59.7	58.3	53.0	58.3	57.1	53.7	44.0	56.0	55.0	52.2	55.9
55	REH 2009-20	50.0	52.8	59.7	55.7	57.3	57.0	51.3	52.7	55.6	53.3	46.3	53.0	54.0	51.7	53.9
56	MMH-09-1	54.3	54.0	58.0	55.3	54.0	56.7	54.0	54.7	55.4	52.3	46.0	51.5	52.0	50.5	54.5
57	MMH-09-2	53.7	54.4	60.0	56.7	53.3	57.7	54.3	56.3	56.4	53.3	46.7	56.0	52.3	52.1	54.9
58	MMH-09-3	56.7	56.9	59.7	58.3	58.7	61.7	56.3	58.3	58.8	59.3	44.0	57.0	55.7	54.0	57.7
59	MMH-09-4	55.7	58.3	58.7	58.0	61.3	62.3	57.7	60.3	59.7	56.3	46.7	57.0	55.7	53.9	58.0
CHECKS																
60	Navjot	50.0	52.9	58.3	56.0	53.0	57.7	52.0	53.0	55.0	54.3	46.3	54.0	51.3	51.5	53.7
61	BIO 9637	52.7	53.7	58.7	54.3	57.7	58.0	52.3	55.0	56.0	54.0	45.0	54.0	52.3	51.3	54.3
62	HM 8	57.3	56.2	59.7	55.7	59.3	59.7	-	57.3	58.3	55.0	46.3	55.0	55.3	52.9	56.3
63	HM 9	53.7	54.6	59.0	59.0	60.7	58.0	53.0	58.3	58.0	56.0	44.7	53.0	52.7	51.6	55.4
	Loc. Mean	54.1	55.1	58.9	55.6	58.2	58.8	50.8	55.4	56.8	54.0	45.8	53.8	52.8	51.6	55.4
	C.D. (5%)	1.46	1.72	2.48	2.17	1.37	1.86	1.78	0.83	1.56	0.89	1.90	3.49	1.23	1.76	0.95
	C.V. (%)	1.66	2.50	2.61	2.41	1.46	1.96	2.17	0.93	2.42	1.02	2.57	3.25	1.44	2.44	2.96
	F (Prob.)	0.00	0.00	0.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
1	NMH-3095	58.0	55.0	57.3	56.8	52.7	49.3	48.3	52.7	48.0	50.2	53.3	54.0	53.0	48.5
2	PFMH- 96 I 41	60.0	56.0	59.0	58.3	53.7	49.3	47.7	52.0	47.0	49.9	51.0	50.7	51.5	46.0
3	PFMH- 96 I 26	56.0	56.0	59.7	57.2	53.0	50.0	48.0	55.3	44.0	50.1	50.3	53.0	52.0	46.0
4	PFMH- 96 N 46 (W)	58.7	56.0	57.0	57.2	53.3	50.7	48.0	52.7	49.0	50.7	50.7	53.7	51.0	46.0
5	Bisco -2668	63.0	58.0	56.7	59.2	52.7	50.3	51.3	54.0	46.0	50.9	53.7	53.0	54.5	49.0
6	KDMH 176	60.0	58.0	64.0	60.7	55.0	51.0	50.7	51.7	49.0	51.5	56.3	54.7	55.5	48.5
7	Safal X-2	61.7	56.0	59.0	58.9	54.3	49.7	49.0	55.7	49.0	51.5	53.3	55.3	57.5	51.5
8	X8B684	59.3	58.0	57.0	58.1	52.7	51.3	49.0	54.0	43.0	50.0	52.3	53.7	54.5	47.5
9	X8B685	60.0	56.0	58.0	58.0	51.3	51.0	49.0	53.0	48.0	50.5	53.3	54.0	53.5	46.0
10	KMH-48	59.0	55.0	56.3	56.8	53.7	48.7	50.0	52.7	42.0	49.4	51.3	53.3	52.0	47.0
11	P3540	63.7	55.0	67.0	61.9	55.0	49.0	52.0	53.7	51.0	52.1	56.7	58.0	54.5	52.0
12	Hy. P3293	63.7	56.0	58.0	59.2	54.3	50.7	53.7	55.0	51.0	52.9	56.7	56.3	54.5	50.0
13	Hy. P3396	62.7	56.0	59.0	59.2	55.3	50.3	52.3	55.7	45.0	51.7	55.7	55.7	55.0	50.0
14	X35A173	63.7	55.0	60.0	59.6	55.3	50.0	51.7	54.0	48.0	51.8	52.3	55.0	55.5	49.5
15	X35A174	61.7	56.0	57.3	58.3	54.7	49.7	52.0	55.3	50.0	52.3	52.3	55.0	54.5	48.5
16	JKMH-7014	61.3	54.0	59.3	58.2	54.7	49.0	49.3	51.3	46.0	50.1	50.3	53.3	54.5	47.0
17	JKMH-7004	61.0	56.0	58.7	58.6	51.3	50.0	47.7	52.3	48.0	49.9	50.3	52.0	51.5	46.5
18	S 6217	65.0	52.0	57.7	58.2	53.3	49.3	52.0	55.0	47.0	51.3	52.0	54.3	53.0	50.0
19	S 6304	64.7	52.0	63.7	60.1	54.3	49.7	51.3	53.7	49.0	51.6	52.3	55.7	56.5	49.5
20	JH 31404	62.7	52.0	65.3	60.0	54.0	50.3	51.3	52.7	48.0	51.3	55.3	55.7	50.5	50.0
21	NMH-1242	60.0	52.0	58.7	56.9	53.0	49.0	50.0	52.7	45.0	49.9	51.3	52.3	51.5	48.5
22	NMH-589 (Suvarna)	63.0	56.0	58.7	59.2	55.0	50.0	50.3	54.7	50.0	52.0	52.3	52.3	52.5	48.5
23	VMH-4106	64.7	56.0	63.7	61.4	55.0	49.3	52.3	54.3	49.0	52.0	54.3	54.3	55.0	53.0
24	KH-B63	58.3	52.0	56.7	55.7	52.0	50.3	49.3	51.7	45.0	49.7	51.3	53.7	55.0	49.0
25	KH-B52	61.0	56.0	64.7	60.6	53.0	49.7	50.3	56.3	50.0	51.9	51.3	53.0	55.5	49.5
26	KH-B55	61.0	54.0	59.7	58.2	53.7	49.0	49.7	52.7	46.0	50.2	51.7	54.3	53.0	49.0
27	KNMH-401061	63.0	53.0	56.7	57.6	52.7	49.7	54.3	54.0	50.0	52.1	51.3	55.7	58.0	48.5
28	CMH08-284	62.3	51.0	70.7	61.3	51.3	50.0	49.0	51.7	50.0	50.4	51.7	53.3	55.0	46.0
29	CMH08-292	61.0	51.0	58.7	56.9	55.3	49.7	50.3	54.0	51.0	52.1	53.7	53.7	55.0	49.0
30	CMH08-350	61.3	51.0	66.3	59.6	54.7	49.7	50.0	57.0	48.0	51.9	54.0	55.7	57.0	47.5
31	CMH08-433	62.0	51.0	63.7	58.9	53.3	49.3	52.0	56.0	45.0	51.1	51.7	54.7	55.5	47.5
32	Yuvraj Gold	62.3	51.0	58.7	57.3	55.0	51.0	50.0	55.7	46.0	51.5	53.3	51.7	55.0	48.0
33	Titan	60.0	51.0	57.3	56.1	55.0	50.7	51.0	55.0	50.0	52.3	53.0	55.7	53.5	50.0
34	IMH-111	64.0	51.0	58.7	57.9	56.3	50.0	53.7	55.0	46.0	52.2	54.0	56.0	58.5	51.0
35	IMH-666	61.3	51.0	57.7	56.7	52.3	49.7	48.0	54.7	47.0	50.3	50.7	53.0	53.0	48.0
36	SMH-9	60.3	51.0	59.7	57.0	52.3	51.3	47.7	53.0	44.0	49.7	51.3	52.0	55.5	48.0

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED													
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
37	AMH-2002	59.3	51.0	56.7	55.7	53.0	48.7	48.0	51.0	49.0	49.9	50.7	52.3	53.5	47.5
38	EHL 161708	58.3	51.0	62.3	57.2	53.3	51.3	49.3	52.7	48.0	50.9	51.3	54.0	51.0	48.0
39	EHL 163909	58.3	55.0	62.3	58.6	52.7	49.3	50.0	51.0	48.0	50.2	53.0	54.0	50.5	50.0
40	EHL 164810	59.0	51.0	59.0	56.3	50.0	48.7	46.7	50.7	45.0	48.2	49.7	49.3	53.5	43.0
41	EHL 164910	61.7	51.0	56.7	56.4	52.3	49.7	49.0	52.7	46.0	49.9	51.3	53.0	49.5	45.5
42	L230	58.3	55.0	56.7	56.7	50.7	49.0	46.7	50.0	50.0	49.3	50.7	49.3	49.0	46.0
43	EH-2074	60.7	55.0	56.7	57.4	52.7	49.3	48.3	54.7	50.0	51.0	51.3	54.0	52.5	45.5
44	EC-3161	62.3	51.0	59.7	57.7	54.0	49.7	49.0	54.3	47.0	50.8	51.0	54.3	54.0	49.0
45	BH41001	59.3	55.0	67.3	60.6	52.0	50.0	50.3	54.3	43.0	49.9	52.7	55.7	55.0	50.0
46	BH41009	63.7	56.0	66.0	61.9	52.3	50.7	49.7	53.7	50.0	51.3	37.7	57.3	54.5	50.5
47	BIO-688	62.0	57.0	61.7	60.2	55.0	49.0	50.3	53.0	49.0	51.3	51.7	54.0	51.5	49.0
48	BIO-151	65.3	57.0	70.7	64.3	55.3	49.7	53.0	54.3	51.0	52.7	54.7	55.3	55.5	51.0
49	HKH - 411	63.0	54.0	61.3	59.4	55.3	49.3	50.3	57.5	43.0	51.1	57.0	57.7	57.0	53.0
50	HKH - 412	60.7	55.0	68.7	61.4	56.0	48.7	48.3	56.0	47.0	51.2	55.3	54.3	52.0	49.0
51	HKH - 414	61.7	52.0	63.3	59.0	52.0	49.3	48.0	49.3	49.0	49.5	51.3	55.0	52.5	47.5
52	HKH - 316	60.3	56.0	57.3	57.9	52.3	50.0	47.0	53.7	48.0	50.2	51.3	52.3	51.0	43.0
53	REH 2009-15	62.3	56.0	64.7	61.0	53.3	48.7	49.0	56.7	48.0	51.1	54.3	56.7	54.0	51.0
54	REH 2009-18	63.7	53.0	59.7	58.8	53.3	49.0	50.7	55.7	49.0	51.5	51.7	56.3	55.0	50.0
55	REH 2009-20	58.3	56.0	56.7	57.0	51.7	48.7	47.0	49.7	47.0	48.8	50.3	52.3	55.0	44.5
56	MMH-09-1	59.7	57.0	66.7	61.1	51.0	49.0	48.3	53.7	42.0	48.8	51.7	53.7	51.5	48.0
57	MMH-09-2	61.7	59.0	56.3	59.0	52.0	51.7	48.3	54.3	42.0	49.7	51.7	52.7	52.0	48.5
58	MMH-09-3	63.3	53.0	66.3	60.9	55.3	50.0	56.0	59.3	49.0	53.9	54.7	56.0	53.0	51.5
59	MMH-09-4	64.3	54.0	66.7	61.7	56.0	50.3	54.0	59.0	45.0	52.9	54.3	57.0	58.0	53.0
CHECKS															
60	Navjot	60.0	50.0	56.3	55.4	51.3	50.0	47.0	51.3	47.0	49.3	50.3	51.0	51.5	46.0
61	BIO 9637	59.7	51.0	56.3	55.7	53.3	49.7	48.7	53.0	48.0	50.5	50.3	53.3	54.5	48.0
62	HM 8	64.7	51.0	64.7	60.1	53.7	50.7	48.0	55.0	48.0	51.1	54.7	56.3	55.5	47.5
63	HM 9	62.0	51.0	66.3	59.8	53.3	50.0	47.7	51.7	46.0	49.7	52.3	54.0	54.5	48.5
	Loc. Mean	61.3	54.0	60.7	58.7	53.5	49.8	49.9	53.8	47.4	50.9	52.3	54.1	53.8	48.5
	C.D. (5%)	2.68-		1.93	4.56	2.24	1.90	2.05	4.84	-	2.01	5.89	2.74	2.32	2.84
	C.V. (%)	2.70-		1.97	4.81	2.60	2.36	2.55	5.57	-	3.18	6.97	3.13	2.15	2.93
	F (Prob.)	0.00	0.00	0.00	0.08	0.00	0.15	0.00	0.05	0.00	0.00	0.02	0.00	0.00	0.00

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
1	NMH-3095	49.3	51.6	58.3	52.0	55.0	57.0	51.0	52.0	54.2	52.3	42.3	50.0	52.7	49.3	52.3
2	PFMH- 96 I 41	50.3	49.9	58.3	52.7	55.7	56.0	51.3	51.7	54.3	52.3	43.3	48.0	51.0	48.7	51.9
3	PFMH- 96 I 26	50.0	50.3	58.7	52.0	57.3	56.3	51.3	53.0	54.8	52.0	43.3	49.5	50.7	48.9	52.1
4	PFMH- 96 N 46 (W)	49.7	50.2	57.0	51.7	54.3	55.7	51.7	51.7	53.7	51.7	40.0	49.0	50.7	47.8	51.7
5	Bisco -2668	51.0	52.2	57.7	53.3	57.7	58.3	55.0	55.7	56.3	52.7	41.0	50.0	55.3	49.8	53.5
6	KDMH 176	51.0	53.2	58.3	54.0	58.0	58.0	51.7	53.3	55.6	51.3	41.3	51.5	52.0	49.0	53.7
7	Safal X-2	54.0	54.3	57.7	54.0	55.3	59.3	52.0	54.0	55.4	53.3	43.7	51.5	52.7	50.3	53.9
8	X8B684	50.3	51.7	57.7	53.7	54.3	57.7	52.0	52.0	54.6	50.3	41.0	49.5	51.7	48.1	52.3
9	X8B685	49.0	51.2	57.7	53.7	57.3	56.7	51.0	51.3	54.6	51.7	42.3	51.5	50.7	49.0	52.4
10	KMH-48	49.3	50.6	56.7	53.7	53.3	56.0	50.7	50.0	53.4	52.3	44.0	48.0	51.3	48.9	51.6
11	P3540	54.0	55.0	57.7	54.7	57.7	60.7	53.3	56.0	56.7	54.0	43.7	53.5	55.3	51.6	55.1
12	Hy. P3293	53.0	54.1	57.3	54.7	55.3	60.3	54.7	58.0	56.7	54.3	43.7	53.5	52.3	51.0	54.7
13	Hy. P3396	51.3	53.5	58.7	52.7	58.0	61.0	55.0	56.3	56.9	53.7	44.0	53.5	54.7	51.5	54.4
14	X35A173	51.7	52.8	55.7	53.0	58.3	57.7	53.0	54.3	55.3	53.7	41.7	51.5	54.3	50.3	53.7
15	X35A174	51.3	52.3	56.7	53.7	54.3	58.7	52.0	54.0	54.9	52.3	41.3	49.5	52.0	48.8	53.2
16	JKMH-7014	49.7	51.0	59.0	53.0	54.7	56.3	51.0	51.3	54.2	51.7	41.3	49.5	50.7	48.3	52.1
17	JKMH-7004	49.7	50.0	57.7	53.0	54.7	55.3	50.3	50.3	53.6	51.7	41.3	47.0	50.7	47.7	51.6
18	S 6217	51.7	52.2	58.0	52.7	55.7	58.7	52.7	53.0	55.1	53.3	42.7	49.0	52.3	49.3	53.1
19	S 6304	54.0	53.6	58.0	53.7	56.7	59.7	53.3	55.3	56.1	52.3	41.0	49.0	54.7	49.3	53.9
20	JH 31404	53.0	52.9	58.7	54.3	57.7	59.0	54.7	55.7	56.7	52.3	41.7	49.5	54.7	49.5	53.9
21	NMH-1242	52.0	51.1	59.0	51.7	55.3	56.7	51.0	51.0	54.1	52.3	42.0	48.5	51.7	48.6	52.0
22	NMH-589 (Suvarna)	52.7	51.7	56.0	52.3	58.7	57.3	52.7	53.3	55.1	52.0	43.7	49.5	51.7	49.2	53.2
23	VMH-4106	54.7	54.3	57.0	53.3	57.7	62.0	54.3	57.0	56.9	54.7	42.7	54.0	55.3	51.7	54.9
24	KH-B63	49.0	51.6	59.7	53.7	54.7	56.7	50.7	51.0	54.4	51.7	43.3	48.5	52.0	48.9	52.0
25	KH-B52	50.0	51.9	57.0	52.7	55.3	56.7	51.7	50.0	53.9	52.0	42.3	48.0	50.3	48.2	52.9
26	KH-B55	50.7	51.7	58.0	52.0	58.7	57.3	52.3	53.0	55.2	52.7	41.0	49.5	50.3	48.4	52.6
27	KNMH-401061	52.0	53.1	57.0	54.7	58.3	59.7	52.7	55.0	56.2	53.0	42.0	49.5	52.3	49.2	53.6
28	CMH08-284	54.0	52.0	57.7	53.3	56.3	57.3	52.0	52.3	54.8	53.0	42.0	48.5	51.7	48.8	53.1
29	CMH08-292	53.0	52.9	57.3	53.7	56.0	57.0	52.3	54.3	55.1	51.3	44.0	51.5	52.7	49.9	53.3
30	CMH08-350	52.0	53.2	58.3	50.3	54.3	57.3	51.7	53.0	54.2	50.7	42.3	49.5	51.7	48.5	53.2
31	CMH08-433	51.0	52.1	58.7	54.3	55.0	58.7	52.3	53.3	55.4	51.7	41.7	52.0	51.3	49.2	53.1
32	Yuvraj Gold	52.3	52.1	58.7	52.0	56.3	57.7	52.3	53.0	55.0	50.7	40.7	51.5	50.7	48.4	52.8
33	Titan	51.7	52.8	58.0	54.0	58.3	58.0	52.3	55.3	56.0	53.0	42.0	48.5	54.7	49.5	53.4
34	IMH-111	53.0	54.5	57.7	54.7	56.7	61.0	53.3	56.3	56.6	53.3	40.3	53.5	55.7	50.7	54.3
35	IMH-666	50.3	51.0	58.0	52.3	57.3	57.0	51.3	50.0	54.3	52.0	42.0	48.5	51.7	48.5	52.0
36	SMH-9	50.0	51.4	57.3	54.0	50.7	56.0	51.0	52.0	53.5	51.7	41.7	48.5	51.3	48.3	51.8

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
37	AMH-2002	50.0	50.8	58.3	52.7	54.0	57.3	51.0	51.0	54.1	50.7	40.7	48.0	51.0	47.6	51.5
38	EHL 161708	50.0	50.9	58.3	53.0	57.0	56.0	52.3	52.0	54.8	52.7	44.0	48.5	51.0	49.0	52.4
39	EHL 163909	48.7	51.2	58.7	54.0	55.3	59.7	50.3	52.0	55.0	51.7	41.3	49.5	51.0	48.4	52.4
40	EHL 164810	48.7	48.8	58.7	50.3	55.3	55.3	49.7	50.7	53.3	52.0	39.7	47.0	51.0	47.4	50.6
41	EHL 164910	48.7	49.6	57.3	53.0	54.7	56.3	51.0	51.0	53.9	50.3	42.0	47.0	51.7	47.8	51.4
42	L230	48.3	48.7	55.7	52.3	54.7	56.0	50.0	50.0	53.1	52.0	41.0	46.0	51.7	47.7	50.8
43	EH-2074	49.7	50.6	57.7	51.7	57.7	55.7	50.7	51.0	54.1	50.0	43.3	49.0	51.3	48.4	52.1
44	EC-3161	52.0	52.1	58.7	53.7	54.7	57.0	52.7	51.3	54.7	52.7	42.0	48.5	52.0	48.8	52.6
45	BH41001	51.7	53.0	58.7	53.7	52.3	58.3	52.0	52.7	54.6	52.7	44.0	51.5	52.0	50.0	53.2
46	BH41009	52.0	50.4	58.3	53.3	52.7	60.7	53.0	53.0	55.2	53.3	41.0	51.0	52.3	49.4	53.2
47	BIO-688	50.0	51.2	58.3	52.0	54.7	55.7	52.0	52.0	54.1	52.3	42.7	49.5	50.7	48.8	52.7
48	BIO-151	54.7	54.2	57.7	54.0	57.3	60.7	52.7	54.0	56.1	52.3	42.7	51.5	55.7	50.5	55.0
49	HKH - 411	55.0	55.9	56.3	52.7	57.7	60.7	-	56.3	56.7	52.3	44.7	53.0	55.3	51.3	54.7
50	HKH - 412	51.7	52.5	57.0	53.3	58.3	59.3	-	54.7	56.5	54.7	40.3	50.0	54.7	49.9	53.9
51	HKH - 414	54.3	52.1	57.3	53.3	54.0	56.7	51.7	53.0	54.3	51.7	42.7	27.0	50.7	43.0	51.4
52	HKH - 316	51.0	49.7	57.7	53.3	53.0	56.7	52.3	51.7	54.1	51.0	41.3	49.5	51.7	48.4	51.8
53	REH 2009-15	50.0	53.2	58.3	52.7	54.0	58.0	51.0	54.0	54.7	53.0	45.0	53.0	54.7	51.4	53.8
54	REH 2009-18	51.0	52.8	58.0	52.0	57.3	57.3	51.3	56.0	55.3	51.3	40.3	53.0	54.3	49.8	53.4
55	REH 2009-20	47.3	49.9	58.7	54.0	54.7	56.0	50.3	50.7	54.1	51.7	42.7	47.0	52.7	48.5	51.4
56	MMH-09-1	51.7	51.3	56.0	53.0	51.3	55.7	52.7	52.7	53.6	51.0	42.3	48.5	52.0	48.5	52.1
57	MMH-09-2	51.3	51.2	59.0	54.3	50.7	56.7	52.0	54.0	54.4	52.3	43.0	49.0	51.3	48.9	52.3
58	MMH-09-3	53.7	53.8	58.7	56.0	56.3	60.7	55.0	56.3	57.2	54.7	40.0	53.0	55.3	50.8	55.1
59	MMH-09-4	53.0	55.1	57.7	57.0	59.0	61.3	55.7	57.7	58.1	53.0	43.3	53.0	55.3	51.2	55.6
CHECKS																
60	Navjot	47.3	49.2	57.3	53.3	50.7	56.7	50.3	51.0	53.2	51.7	43.0	47.0	51.0	48.2	50.9
61	BIO 9637	50.0	51.2	58.3	51.3	55.3	57.0	51.0	52.7	54.3	52.7	41.7	51.5	51.3	49.3	52.1
62	HM 8	55.0	53.8	57.7	52.7	56.7	59.7	-	54.7	56.3	53.0	42.7	53.0	55.0	50.9	54.1
63	HM 9	51.0	52.1	57.7	55.7	57.7	57.0	51.3	56.0	55.9	54.3	42.0	49.5	52.7	49.6	53.1
	Loc. Mean	51.3	52.0	57.8	53.2	55.7	57.8	49.6	53.2	55.0	52.3	42.2	49.6	52.5	49.2	52.9
	C.D. (5%)	1.06	1.99	2.83	1.78	1.11	1.97	1.79	0.64	1.51	1.08	1.70	8.35	1.22	2.63	1.03
	C.V. (%)	1.28	3.07	3.03	2.07	1.23	2.11	2.23	0.74	2.41	1.27	2.49	8.42	1.44	3.84	3.36
	F (Prob.)	0.00	0.00	0.94	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK												
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
1	NMH-3095	100.0	101.0	98.0	99.7	99.3	87.7	79.7	82.0	87.2	89.7	90.3	93.0	94.0
2	PFMH- 96 I 41	97.0	103.0	99.7	99.9	99.0	86.3	78.3	83.0	86.7	85.3	86.0	90.0	92.0
3	PFMH- 96 I 26	99.7	103.0	99.0	100.6	98.7	85.3	79.0	81.0	86.0	85.3	86.7	90.0	94.0
4	PFMH- 96 N 46 (W)	101.0	103.0	98.7	100.9	98.7	85.7	79.3	83.0	86.7	87.3	88.3	90.0	93.0
5	Bisco -2668	108.3	105.0	99.0	104.1	98.3	85.3	83.7	80.0	86.8	89.3	90.0	93.0	97.0
6	KDMH 176	102.3	105.0	99.0	102.1	101.7	89.0	84.0	78.7	88.3	88.0	93.3	97.5	96.0
7	Safal X-2	102.0	102.0	99.7	101.2	100.7	88.0	79.7	84.0	88.1	89.7	90.7	94.0	94.0
8	X8B684	103.3	105.0	98.0	102.1	98.3	87.0	80.0	78.0	85.8	86.0	88.3	88.0	94.5
9	X8B685	99.3	103.0	99.3	100.6	98.0	86.3	79.3	83.0	86.7	86.0	88.3	89.5	92.5
10	KMH-48	99.3	100.0	98.7	99.3	99.7	86.3	80.7	84.0	87.7	87.7	89.3	91.5	92.5
11	P3540	108.3	100.0	99.0	102.4	100.7	87.3	84.3	84.0	89.1	91.3	91.0	93.5	94.5
12	Hy. P3293	105.7	103.0	99.0	102.6	100.0	87.7	85.0	84.0	89.2	91.3	93.0	93.5	96.0
13	Hy. P3396	106.7	103.0	99.3	103.0	101.0	87.3	86.0	83.0	89.3	90.3	92.7	94.0	96.5
14	X35A173	108.3	100.0	99.3	102.6	100.7	89.3	81.3	80.7	88.0	90.3	90.7	92.5	95.5
15	X35A174	106.0	103.0	98.3	102.4	99.7	89.7	83.3	87.0	89.9	92.3	89.7	91.5	94.0
16	JKMH-7014	101.0	101.0	99.3	100.4	100.0	86.0	79.7	80.0	86.4	87.7	86.7	82.0	91.5
17	JKMH-7004	102.0	103.0	99.7	101.6	96.3	84.3	79.0	81.0	85.2	88.0	87.3	88.5	91.5
18	S 6217	104.7	98.0	99.0	100.6	99.3	85.0	84.0	82.0	87.6	87.3	88.0	91.5	93.5
19	S 6304	107.0	100.0	99.7	102.2	101.3	87.3	81.3	79.0	87.2	90.7	90.0	95.0	94.0
20	JH 31404	101.7	100.0	99.3	100.3	100.0	86.0	82.0	81.3	87.3	89.3	93.0	92.0	93.5
21	NMH-1242	99.0	99.0	99.7	99.2	99.7	84.7	81.0	79.7	86.2	87.3	89.0	91.0	95.0
22	NMH-589 (Suvarna)	104.3	103.0	99.0	102.1	100.7	86.0	81.7	82.3	87.7	92.0	90.0	90.5	96.0
23	VMH-4106	108.0	103.0	98.7	103.2	100.7	87.3	85.3	83.3	89.2	90.7	92.7	93.5	97.0
24	KH-B63	100.0	98.0	98.7	98.9	98.0	86.3	81.7	83.0	87.3	87.0	90.3	94.0	96.0
25	KH-B52	100.7	103.0	99.7	101.1	98.7	86.7	81.0	79.3	86.4	86.3	86.3	94.0	95.0
26	KH-B55	104.0	100.0	98.7	100.9	98.7	84.7	83.0	81.0	86.8	87.3	88.0	91.5	93.0
27	KNMH-401061	99.3	99.0	98.7	99.0	103.0	89.0	84.0	84.0	90.0	86.0	90.3	96.5	93.5
28	CMH08-284	99.0	97.0	103.0	99.7	97.0	88.0	78.7	82.0	86.4	87.3	87.0	92.0	93.0
29	CMH08-292	96.3	97.0	99.3	97.6	101.7	86.3	81.0	84.0	88.3	86.7	87.7	88.5	96.0
30	CMH08-350	97.0	97.0	99.7	97.9	100.3	85.0	81.7	80.0	86.7	88.0	89.0	90.0	93.0
31	CMH08-433	96.7	98.0	99.0	97.9	100.7	86.3	82.3	79.0	87.1	85.7	87.0	90.0	94.5
32	Yuvraj Gold	102.0	97.0	99.3	99.4	99.0	86.3	81.3	80.0	86.7	87.3	87.0	93.5	93.5
33	Titan	102.3	97.0	98.7	99.3	101.7	88.0	82.7	81.0	88.3	91.0	91.7	94.5	96.0
34	IMH-111	105.3	97.0	98.3	100.2	103.7	86.0	84.0	88.0	90.4	90.0	92.0	96.0	95.5
35	IMH-666	96.7	98.0	99.0	97.9	97.7	85.3	78.7	81.0	85.7	86.7	87.0	92.5	93.5
36	SMH-9	98.0	98.0	98.0	98.0	99.0	86.7	78.7	80.7	86.2	87.0	86.7	92.0	93.5

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK												
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
37	AMH-2002	97.3	97.0	99.3	97.9	98.0	87.3	79.3	84.0	87.2	87.0	85.7	90.5	96.0
38	EHL 161708	100.7	98.0	99.0	99.2	99.3	86.0	79.7	83.0	87.0	89.0	89.7	89.5	94.5
39	EHL 163909	94.3	103.0	98.3	98.6	99.7	87.7	80.3	81.3	87.3	86.0	88.3	87.5	93.0
40	EHL 164810	94.3	98.0	99.3	97.2	96.0	86.0	76.7	84.0	85.7	84.3	81.3	88.0	91.5
41	EHL 164910	100.3	98.0	98.3	98.9	98.0	86.7	79.0	81.0	86.2	84.7	87.0	93.5	93.5
42	L230	97.3	102.0	99.3	99.6	96.3	82.7	78.0	85.0	85.5	86.3	86.0	87.5	91.5
43	EH-2074	99.7	102.0	99.0	100.2	98.7	86.0	79.3	83.0	86.8	87.3	85.3	93.0	95.5
44	EC-3161	100.7	98.0	99.0	99.2	100.0	86.0	80.7	81.0	86.9	88.7	89.0	92.5	94.0
45	BH41001	99.7	100.0	98.7	99.4	97.3	84.7	80.7	80.0	85.7	85.3	90.3	93.5	95.0
46	BH41009	101.0	105.0	99.7	101.9	99.7	86.7	81.0	79.0	86.6	85.7	89.0	89.0	94.5
47	BIO-688	103.3	106.0	99.0	102.8	101.0	86.7	80.7	83.0	87.8	88.7	86.7	88.0	94.0
48	BIO-151	108.0	105.0	106.3	106.4	102.0	85.7	86.0	80.0	88.4	87.7	92.0	94.0	94.0
49	HKH - 411	105.0	103.0	99.7	102.6	100.7	89.7	81.0	78.0	87.3	89.7	90.3	96.0	95.5
50	HKH - 412	103.0	103.0	103.7	103.2	102.3	91.3	79.7	82.3	88.9	89.0	90.0	95.0	97.0
51	HKH - 414	100.0	100.0	98.3	99.4	97.7	86.0	78.7	82.3	86.2	84.7	88.7	87.5	93.0
52	HKH - 316	103.0	105.0	99.0	102.3	97.3	86.7	78.0	80.0	85.5	85.3	87.7	89.0	94.0
53	REH 2009-15	101.7	105.3	99.0	102.0	99.7	88.0	80.7	84.0	88.1	88.7	90.3	91.5	93.5
54	REH 2009-18	105.0	103.0	100.0	102.7	98.7	86.3	83.3	83.0	87.8	87.0	88.7	94.0	95.5
55	REH 2009-20	97.3	105.7	99.3	100.8	97.0	85.7	78.7	83.0	86.1	85.3	88.0	92.5	91.5
56	MMH-09-1	99.7	106.0	99.3	101.7	96.0	87.0	78.7	79.0	85.2	84.7	89.7	88.5	95.0
57	MMH-09-2	98.7	106.0	98.3	101.0	97.0	83.7	79.7	80.0	85.1	90.7	86.7	90.0	95.0
58	MMH-09-3	108.0	103.0	101.0	104.0	102.7	88.0	86.7	83.0	90.1	87.3	89.0	90.0	96.0
59	MMH-09-4	103.3	103.0	99.0	101.8	102.7	88.3	83.7	85.0	89.9	90.7	92.0	94.5	95.5
CHECKS														
60	Navjot	79.7	97.0	99.0	91.9	97.0	84.7	77.7	81.0	85.1	87.0	85.0	91.0	91.5
61	BIO 9637	101.7	100.0	99.0	100.2	98.3	85.7	79.7	80.0	85.9	87.3	85.7	88.5	94.0
62	HM 8	104.7	100.0	99.0	101.2	100.0	89.0	79.3	82.0	87.6	88.0	88.0	92.5	96.5
63	HM 9	101.0	100.0	100.0	100.3	98.7	87.7	78.3	80.7	86.3	87.0	89.0	92.0	93.0
	Loc. Mean	101.3	101.2	99.3	100.6	99.4	86.7	81.0	81.8	87.2	87.8	88.8	91.6	94.2
	C.D. (5%)	6.55	0.17	2.41	4.62	2.92	3.46	2.37	0.58	2.28	1.18	3.23	3.55	3.45
	C.V. (%)	4.00	0.10	1.50	2.84	1.82	2.47	1.81	0.44	1.87	0.83	2.25	1.94	1.83
	F (Prob.)	0.00	0.00	0.00	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
1	NMH-3095	86.0	90.6	80.7	94.7	81.7	90.0	98.0	99.3	90.7	79.7	81.7	81.0	89.3	82.9	89.8
2	PFMH- 96 I 41	86.3	87.9	78.0	95.3	81.0	89.0	95.0	97.3	89.3	83.7	80.3	80.0	88.0	83.0	88.8
3	PFMH- 96 I 26	86.3	88.5	78.7	94.7	80.3	89.3	94.7	100.0	89.6	84.7	78.3	82.0	87.3	83.1	89.0
4	PFMH- 96 N 46 (W)	87.7	89.3	78.3	93.0	81.3	88.7	96.3	97.3	89.2	80.3	79.0	83.0	88.0	82.6	89.1
5	Bisco -2668	90.3	91.9	79.0	94.7	81.0	91.3	103.3	104.0	92.2	85.0	79.0	82.5	92.7	84.8	91.4
6	KDMH 176	87.0	92.4	79.7	91.3	80.7	91.0	100.7	99.3	90.4	82.0	81.3	83.0	91.0	84.3	91.0
7	Safal X-2	90.3	91.7	77.7	92.0	82.3	92.3	100.3	100.0	90.8	86.3	82.0	83.0	90.0	85.3	90.9
8	X8B684	88.0	89.0	78.0	92.0	81.0	90.7	99.0	98.7	89.9	81.3	81.0	82.5	88.7	83.4	89.4
9	X8B685	86.0	88.5	79.0	96.7	81.7	89.7	95.7	97.3	90.0	79.0	78.3	82.5	87.3	81.8	89.0
10	KMH-48	86.0	89.4	77.7	97.0	80.7	89.0	95.3	95.7	89.2	84.7	81.7	82.0	89.3	84.4	89.5
11	P3540	92.7	92.6	78.3	98.3	82.3	93.7	99.7	105.7	93.0	88.3	83.3	83.0	90.7	86.3	92.3
12	Hy. P3293	96.7	94.1	78.3	97.3	80.3	93.3	101.0	105.7	92.7	87.7	82.0	84.0	92.7	86.6	92.6
13	Hy. P3396	93.0	93.3	78.7	94.3	81.7	94.0	104.0	105.3	93.0	88.3	81.3	84.0	92.7	86.6	92.6
14	X35A173	92.0	92.2	76.3	95.3	82.0	90.7	99.3	100.7	90.7	85.7	80.3	82.5	91.0	84.9	91.1
15	X35A174	95.7	92.6	77.0	95.7	81.3	91.7	103.3	100.0	91.5	83.7	81.7	82.5	92.0	85.0	91.8
16	JKMH-7014	87.3	87.0	80.0	95.0	82.7	89.3	95.7	96.3	89.8	85.7	76.3	81.5	87.0	82.6	88.7
17	JKMH-7004	87.3	88.5	78.7	92.0	79.7	88.3	98.3	96.0	88.8	85.7	81.3	77.5	89.0	83.4	88.8
18	S 6217	92.3	90.5	79.7	89.3	81.0	91.7	97.7	99.3	89.8	86.3	81.7	80.0	88.7	84.2	90.0
19	S 6304	92.3	92.4	79.7	70.3	81.7	92.7	100.3	104.0	88.1	79.7	78.7	80.0	91.7	82.5	89.8
20	JH 31404	87.0	91.0	80.0	95.3	81.7	92.0	96.0	103.0	91.3	85.0	81.0	81.5	90.3	84.5	90.5
21	NMH-1242	87.7	90.0	81.0	91.7	81.7	89.7	97.7	97.0	89.8	83.7	82.0	81.0	90.7	84.3	89.5
22	NMH-589 (Suvarna)	97.0	93.1	79.0	91.3	81.7	90.3	97.7	100.0	90.0	86.3	82.0	82.0	90.3	85.2	91.1
23	VMH-4106	93.3	93.4	78.3	92.7	82.3	95.0	101.3	105.0	92.4	80.3	82.3	84.5	92.7	85.0	92.2
24	KH-B63	85.7	90.6	81.0	98.7	80.3	89.7	96.3	97.3	90.6	84.7	81.3	83.0	88.7	84.4	90.0
25	KH-B52	89.3	90.2	77.3	94.7	79.3	89.7	95.0	95.7	88.6	86.3	81.3	81.5	87.3	84.1	89.5
26	KH-B55	86.7	89.3	79.3	95.0	81.7	90.3	96.3	99.3	90.3	85.7	78.7	82.5	89.0	84.0	89.7
27	KNMH-401061	89.3	91.1	78.0	97.3	81.7	92.7	98.0	102.0	91.6	77.7	79.0	81.0	89.0	81.7	90.4
28	CMH08-284	92.0	90.3	77.3	94.3	81.7	90.3	96.7	99.3	89.9	85.0	81.0	78.0	90.7	83.7	89.6
29	CMH08-292	86.0	89.0	77.7	94.0	82.3	90.0	94.3	102.0	90.1	84.0	81.3	82.5	86.7	83.6	89.3
30	CMH08-350	85.3	89.1	78.3	89.3	80.3	90.3	96.3	100.0	89.1	83.7	81.3	82.0	87.3	83.6	88.9
31	CMH08-433	85.3	88.5	79.3	96.7	79.3	91.7	94.3	100.0	90.2	84.7	78.7	81.5	86.0	82.7	88.9
32	Yuvraj Gold	92.0	90.7	78.7	94.0	81.0	90.7	100.3	100.0	90.8	80.3	79.7	82.0	90.0	83.0	89.8
33	Titan	87.0	92.0	78.7	94.7	80.7	91.0	102.0	103.0	91.7	80.3	81.7	82.5	91.3	84.0	90.8
34	IMH-111	92.0	93.1	79.3	96.3	81.0	94.0	99.7	105.0	92.6	83.7	78.7	82.0	90.0	83.6	91.7
35	IMH-666	90.0	89.9	79.0	92.7	82.0	90.0	99.0	96.0	89.8	85.3	80.7	82.0	89.3	84.3	89.2
36	SMH-9	86.3	89.1	78.7	94.3	81.7	89.0	97.3	98.7	89.9	88.7	82.7	82.5	87.3	85.3	89.3

Table No. 2 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK											ZN 5 Mean	OV'L Mean		
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS			GODH	CHHI
37	AMH-2002	90.0	89.8	80.0	92.3	80.7	90.3	96.7	95.3	89.2	81.3	78.0	82.0	88.0	82.3	88.9
38	EHL 161708	87.7	90.1	80.0	97.3	81.3	89.0	99.3	98.7	90.9	82.3	83.3	79.5	87.3	83.1	89.7
39	EHL 163909	86.0	88.2	80.3	68.7	81.7	92.7	94.0	98.7	86.0	84.7	81.0	81.5	84.3	82.9	87.9
40	EHL 164810	84.0	85.8	79.3	88.3	82.3	88.3	94.0	96.7	88.2	81.7	76.3	80.0	82.0	80.0	86.9
41	EHL 164910	85.7	88.9	79.3	91.7	81.7	89.3	94.0	97.0	88.8	81.7	80.0	80.0	90.0	82.9	88.7
42	L230	86.7	87.6	77.0	92.3	81.3	89.0	94.7	95.7	88.3	80.7	76.3	81.0	87.7	81.4	87.9
43	EH-2074	87.3	89.7	78.7	93.3	81.7	88.7	99.3	96.7	89.7	83.3	80.0	83.5	88.7	83.9	89.5
44	EC-3161	92.0	91.2	79.3	92.0	82.7	90.0	99.3	96.7	90.0	84.7	81.3	82.5	89.0	84.4	90.0
45	BH41001	86.7	90.2	79.3	94.0	80.3	92.3	97.3	100.0	90.6	84.3	82.7	83.0	87.3	84.3	89.7
46	BH41009	90.0	89.6	78.7	97.7	80.7	93.7	97.3	100.0	91.3	84.7	82.0	81.5	87.7	84.0	90.2
47	BIO-688	86.0	88.7	78.7	93.3	82.0	88.7	95.7	97.3	89.3	85.7	80.7	82.5	88.7	84.4	89.8
48	BIO-151	96.3	92.8	77.7	94.0	79.3	93.7	104.0	100.7	91.6	83.7	81.3	82.5	91.3	84.7	92.1
49	HKH - 411	94.0	93.1	77.7	96.3	81.0	93.7	-	105.3	90.8	82.7	82.0	83.0	89.7	84.3	91.1
50	HKH - 412	94.0	93.0	76.3	92.3	80.7	92.3	-	101.3	88.6	80.7	78.3	84.0	91.3	83.6	90.8
51	HKH - 414	87.0	88.2	79.0	94.7	81.0	89.7	96.0	99.3	89.9	84.7	81.0	80.5	87.0	83.3	88.9
52	HKH - 316	87.3	88.7	80.0	91.3	82.0	89.7	98.0	97.3	89.7	85.0	83.3	82.5	91.0	85.5	89.7
53	REH 2009-15	91.7	91.1	79.3	92.7	81.7	91.0	98.3	99.3	90.4	86.7	82.7	84.5	92.0	86.5	91.0
54	REH 2009-18	92.3	91.5	79.0	92.0	82.3	90.3	98.7	104.0	91.1	85.3	79.3	83.0	90.7	84.6	91.0
55	REH 2009-20	86.0	88.7	80.0	89.3	81.0	89.0	97.3	97.0	88.9	81.7	81.7	82.0	87.3	83.2	88.9
56	MMH-09-1	86.3	88.8	78.7	90.7	81.7	88.7	98.0	99.3	89.5	79.0	79.7	82.5	88.7	82.5	88.9
57	MMH-09-2	86.3	89.7	80.3	90.0	80.7	89.7	96.0	100.7	89.6	85.3	82.3	84.0	87.0	84.7	89.5
58	MMH-09-3	90.0	90.5	80.3	95.0	82.3	93.7	99.3	103.3	92.3	90.3	78.3	84.0	91.3	86.0	91.9
59	MMH-09-4	91.3	92.8	77.7	97.7	80.3	94.3	97.0	105.3	92.1	88.7	81.3	83.5	91.0	86.1	92.1
CHECKS																
60	Navjot	84.7	87.8	78.0	94.0	81.7	89.7	97.0	96.3	89.4	85.7	83.3	82.5	87.7	84.8	87.8
61	BIO 9637	87.7	88.6	78.7	91.0	82.0	90.0	98.7	100.0	90.1	84.7	83.0	82.5	89.0	84.8	89.4
62	HM 8	96.3	92.3	79.3	91.3	81.3	92.7	-	104.3	89.8	85.7	82.3	84.0	90.7	85.7	90.8
63	HM 9	93.0	90.8	78.3	99.0	82.7	90.0	98.7	103.0	91.9	87.7	82.3	81.0	89.7	85.2	90.6
	Loc. Mean	89.2	90.3	78.8	93.1	81.3	90.8	93.2	99.9	90.2	84.1	80.7	82.1	89.2	84.0	90.0
	C.D. (5%)	0.70	2.31	2.81	12.43	1.76	2.05	3.63	2.08	3.10	1.15	2.53	3.29	1.31	2.52	1.33
	C.V. (%)	0.49	2.05	2.21	8.26	1.34	1.40	2.41	1.29	3.02	0.84	1.94	2.00	0.91	2.15	2.49
	F (Prob.)	0.00	0.00	0.33	0.14	0.01	0.00	0.00	0.00	0.03	0.00	0.00	0.06	0.00	0.00	0.00

Table No.2 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	ZN 3 Mean
1	NMH-3095	26.9	22.7	32.3	27.3	26.2	32.5	28.9	21.3	15.0	24.8	24.7	25.1	31.7	22.0	25.9
2	PFMH- 96 I 41	24.5	22.3	29.1	25.3	24.6	29.5	25.4	24.9	15.0	23.9	25.6	23.0	31.1	23.6	25.8
3	PFMH- 96 I 26	23.2	23.0	29.8	25.3	23.4	33.0	27.4	23.5	15.0	24.5	24.9	27.7	32.2	23.4	27.0
4	PFMH- 96 N 46 (W)	27.2	23.0	33.5	27.9	26.1	32.5	32.7	31.0	15.0	27.4	26.3	27.1	32.5	22.0	27.0
5	Bisco -2668	27.2	22.7	33.1	27.7	31.1	30.5	32.0	25.3	15.0	26.8	26.9	26.1	31.7	23.5	27.0
6	KDMH 176	26.1	24.3	30.9	27.1	24.8	32.0	31.3	26.6	15.0	25.9	25.2	23.1	34.2	23.1	26.4
7	Safal X-2	28.3	23.7	31.5	27.8	27.6	28.5	27.8	29.1	15.0	25.6	26.1	27.1	31.2	23.6	27.0
8	X8B684	27.1	22.3	32.5	27.3	19.5	28.0	29.2	19.7	15.0	22.3	26.3	24.2	29.7	23.2	25.8
9	X8B685	27.0	22.0	30.2	26.4	18.6	30.5	30.3	28.0	15.0	24.5	23.6	23.6	31.5	23.4	25.5
10	KMH-48	27.9	22.3	33.7	28.0	25.7	27.5	29.9	21.3	15.0	23.9	26.5	26.4	35.6	23.9	28.1
11	P3540	29.6	22.3	24.3	25.4	24.9	30.5	30.2	28.3	15.0	25.8	26.2	27.0	31.2	23.0	26.8
12	Hy. P3293	26.0	23.3	26.5	25.3	25.3	28.0	32.0	27.4	15.0	25.5	25.5	26.4	32.8	23.9	27.1
13	Hy. P3396	27.4	24.0	29.2	26.9	24.5	31.5	34.4	28.9	15.0	26.9	27.4	28.4	33.4	23.9	28.3
14	X35A173	27.6	22.7	30.8	27.0	22.0	32.5	30.7	24.1	15.0	24.8	25.8	23.9	30.9	23.7	26.1
15	X35A174	27.4	22.7	28.5	26.2	22.4	31.0	29.2	28.5	15.0	25.2	24.6	24.2	30.4	22.7	25.5
16	JKMH-7014	26.3	24.0	25.7	25.3	21.7	30.5	25.3	25.6	15.0	23.6	24.7	23.5	28.7	24.4	25.3
17	JKMH-7004	22.6	23.0	28.2	24.6	20.6	33.5	27.0	24.2	15.0	24.1	24.9	26.3	29.6	23.2	26.0
18	S 6217	28.7	23.0	31.0	27.6	27.5	29.5	29.2	20.0	15.0	24.2	25.6	26.2	32.1	24.8	27.2
19	S 6304	25.2	23.7	29.5	26.1	26.2	31.0	31.0	25.2	15.0	25.7	24.3	25.2	30.9	22.5	25.7
20	JH 31404	26.3	23.7	28.9	26.3	27.0	30.5	28.9	23.2	15.0	24.9	26.6	25.1	28.9	22.8	25.8
21	NMH-1242	24.1	24.0	28.5	25.5	20.1	31.5	28.2	28.8	15.0	24.7	25.4	26.2	31.0	24.3	26.7
22	NMH-589 (Suvarna)	25.5	23.7	31.2	26.8	22.4	32.5	29.7	24.7	15.0	24.9	23.7	27.1	31.7	22.4	26.2
23	VMH-4106	26.6	23.7	34.3	28.2	25.0	30.0	31.6	23.1	15.0	24.9	26.9	27.1	30.3	24.6	27.2
24	KH-B63	25.0	23.7	32.8	27.1	27.8	33.5	29.3	25.9	15.0	26.3	24.7	26.0	32.7	22.2	26.4
25	KH-B52	26.6	22.7	34.8	28.0	26.2	31.0	28.5	24.1	15.0	25.0	25.4	26.1	32.5	24.0	27.0
26	KH-B55	25.3	24.0	27.7	25.7	22.6	34.5	30.1	27.8	15.0	26.0	24.6	23.2	31.5	21.8	25.3
27	KNMH-401061	25.1	24.3	30.1	26.5	22.9	29.0	31.5	26.8	15.0	25.0	25.0	26.1	32.6	22.9	26.6
28	CMH08-284	29.8	24.0	31.8	28.5	26.5	31.0	29.8	24.6	15.0	25.4	24.8	22.6	33.2	24.2	26.2
29	CMH08-292	27.6	25.3	31.2	28.1	27.4	30.0	29.2	28.8	15.0	26.1	25.9	24.2	30.8	22.8	25.9
30	CMH08-350	28.6	25.3	34.9	29.6	26.3	29.0	30.3	28.1	15.0	25.7	24.5	24.2	33.0	24.8	26.6
31	CMH08-433	28.1	24.0	31.8	28.0	25.6	34.5	30.2	24.7	15.0	26.0	26.0	28.3	31.9	22.4	27.1
32	Yuvraj Gold	28.8	23.7	25.6	26.0	24.7	34.0	28.9	25.9	15.0	25.7	26.5	26.3	31.7	23.6	27.0
33	Titan	25.8	24.0	29.2	26.3	24.6	29.5	29.9	18.9	15.0	23.6	26.6	22.9	30.7	23.0	25.8
34	IMH-111	26.0	24.7	30.2	27.0	28.8	28.5	33.6	24.5	15.0	26.1	26.6	24.6	35.2	22.3	27.2
35	IMH-666	26.9	23.7	29.2	26.6	22.6	30.5	31.1	26.7	15.0	25.2	25.3	21.1	33.6	26.0	26.5
36	SMH-9	21.7	24.3	31.3	25.8	21.2	29.0	24.9	21.7	15.0	22.4	26.7	22.0	27.8	22.8	24.8

Table No.2 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	ZN 3 Mean
37	AMH-2002	25.8	23.7	26.7	25.4	21.5	29.0	27.2	27.5	15.0	24.0	26.6	24.0	32.8	24.7	27.0
38	EHL 161708	26.0	22.7	29.7	26.1	26.2	32.0	27.3	27.4	15.0	25.6	24.4	26.1	26.4	23.1	25.0
39	EHL 163909	23.7	24.7	29.4	25.9	22.1	31.5	23.6	20.1	15.0	22.4	24.2	25.5	29.4	22.5	25.4
40	EHL 164810	23.7	23.0	33.6	26.8	24.2	29.0	29.7	29.0	15.0	25.4	24.1	28.1	29.6	22.5	26.1
41	EHL 164910	27.9	24.0	29.0	27.0	24.1	33.0	29.0	23.6	15.0	24.9	24.4	25.0	31.3	22.1	25.7
42	L230	26.5	23.7	29.5	26.6	22.6	30.5	25.2	23.2	15.0	23.3	24.8	28.2	26.9	22.9	25.7
43	EH-2074	22.2	24.0	27.2	24.4	22.8	32.0	24.8	25.3	15.0	24.0	24.5	21.8	29.7	22.5	24.6
44	EC-3161	26.4	25.0	31.6	27.7	26.5	29.0	28.5	25.7	15.0	24.9	23.8	26.1	30.1	24.0	26.0
45	BH41001	25.7	23.7	31.7	27.0	26.3	31.5	28.7	24.9	15.0	25.3	26.5	28.2	31.5	22.3	27.1
46	BH41009	29.6	24.7	36.0	30.1	24.5	33.0	28.9	18.4	15.0	24.0	26.0	26.1	31.9	24.0	27.0
47	BIO-688	24.8	24.0	29.0	25.9	24.0	33.0	26.8	23.2	15.0	24.4	25.9	22.4	29.8	23.6	25.4
48	BIO-151	26.8	23.3	28.4	26.2	24.5	30.5	36.2	29.7	15.0	27.2	26.7	26.2	35.3	23.5	27.9
49	HKH - 411	26.6	24.0	32.6	27.7	20.6	30.5	28.5	26.3	15.0	24.2	25.0	21.2	33.9	23.7	26.0
50	HKH - 412	25.8	25.3	31.9	27.7	27.1	34.0	29.1	19.0	15.0	24.8	23.8	24.0	32.6	26.0	26.6
51	HKH - 414	27.0	23.3	31.8	27.4	24.5	32.0	27.7	28.6	15.0	25.5	25.2	27.0	29.7	23.1	26.2
52	HKH - 316	25.3	22.7	30.0	26.0	22.2	32.0	26.2	29.2	15.0	24.9	23.9	22.8	26.0	23.7	24.1
53	REH 2009-15	26.2	24.3	28.1	26.2	22.9	32.5	29.3	29.1	15.0	25.7	24.9	26.2	31.0	22.0	26.0
54	REH 2009-18	27.3	23.3	30.6	27.1	26.2	32.5	29.8	25.9	15.0	25.9	24.4	23.6	31.5	23.0	25.6
55	REH 2009-20	25.2	23.7	32.9	27.3	23.1	30.5	27.7	21.6	15.0	23.6	24.9	25.7	29.6	24.0	26.1
56	MMH-09-1	26.4	23.3	27.6	25.8	22.5	28.5	28.3	23.8	15.0	23.6	25.0	22.0	31.8	22.3	25.3
57	MMH-09-2	24.8	22.3	31.0	26.1	22.7	31.0	25.5	24.0	15.0	23.6	24.9	25.1	32.0	23.1	26.3
58	MMH-09-3	31.5	23.3	33.7	29.5	21.0	30.0	33.9	24.5	15.0	24.9	25.3	26.2	30.2	23.2	26.2
59	MMH-09-4	26.5	22.7	31.6	26.9	27.1	31.0	28.7	28.9	15.0	26.1	14.2	24.2	32.2	22.2	23.2
CHECKS																
60	Navjot	24.8	22.0	30.9	25.9	21.1	33.0	24.2	26.4	15.0	23.9	24.2	17.4	30.7	23.6	24.0
61	BIO 9637	24.3	23.7	37.1	28.3	23.1	28.0	26.5	20.5	15.0	22.6	25.1	27.2	29.2	24.9	26.6
62	HM 8	26.3	23.3	32.1	27.2	24.2	29.5	26.5	27.6	15.0	24.6	24.2	24.6	33.2	24.9	26.7
63	HM 9	23.6	23.0	34.7	27.1	23.3	33.0	26.8	23.8	15.0	24.4	24.5	25.2	30.3	22.5	25.6
	Loc. Mean	26.2	23.5	30.7	26.8	24.2	31.0	28.9	25.2	15.0	24.9	25.1	25.0	31.2	23.3	26.2
	C.D. (5%)	1.49	1.82	3.97	2.98	2.95	-	1.68	4.62	-	2.66	2.04	0.00	2.44	1.67	2.34
	C.V. (%)	3.52	4.79	8.00	6.87	7.56	-	3.59	11.35	-	8.58	5.04	0.00	3.91	3.59	6.40
	F (Prob.)	0.00	0.02	0.00	0.23	0.00	-	0.00	0.00	-	0.04	0.00	0.00	0.00	0.00	0.12

Table No.2 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST											OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI		ZN 5 Mean
1	NMH-3095	27.5	21.8	15.1	14.6	16.6	25.4	20.1	14.9	17.7	18.6	18.1	17.3	22.7
2	PFMH- 96 I 41	27.2	20.8	15.0	14.6	15.5	24.7	19.6	18.9	17.5	18.5	18.9	18.4	22.3
3	PFMH- 96 I 26	25.2	23.9	15.5	13.6	14.7	21.6	19.1	12.8	16.2	20.3	19.8	17.3	22.3
4	PFMH- 96 N 46 (W)	25.3	22.2	15.2	14.1	15.5	23.5	19.3	16.3	16.8	16.2	20.0	17.3	23.4
5	Bisco -2668	25.1	21.2	14.4	16.7	16.7	26.6	20.1	17.4	17.2	17.4	20.7	18.2	23.5
6	KDMH 176	27.4	22.7	16.2	14.8	16.8	24.4	20.4	16.6	19.2	18.8	20.2	18.7	23.3
7	Safal X-2	25.1	23.6	15.3	13.7	16.1	23.4	19.5	16.4	18.6	17.7	19.6	18.1	23.1
8	X8B684	26.4	23.3	14.8	13.6	15.6	22.7	19.4	16.2	16.6	16.7	17.2	16.7	21.8
9	X8B685	26.2	20.2	14.3	13.1	14.7	21.2	18.3	14.7	17.3	17.4	18.9	17.1	21.9
10	KMH-48	25.6	22.3	13.8	13.4	16.0	25.1	19.4	17.3	15.7	17.9	20.9	17.9	22.9
11	P3540	25.9	23.0	15.2	14.8	15.8	23.2	19.6	19.8	17.2	17.8	19.2	18.5	22.9
12	Hy. P3293	26.6	25.0	14.6	14.9	15.7	23.3	20.0	17.4	17.0	18.3	18.9	17.9	22.9
13	Hy. P3396	25.6	20.5	13.7	14.7	15.7	22.0	18.7	19.0	17.7	19.0	18.8	18.6	23.4
14	X35A173	25.7	19.4	14.5	15.4	15.3	24.8	19.2	15.7	17.1	16.5	18.1	16.8	22.4
15	X35A174	25.2	22.2	15.2	14.4	16.0	22.5	19.2	21.0	16.7	17.5	18.0	18.3	22.5
16	JKMH-7014	26.8	21.0	14.3	14.5	15.1	20.8	18.7	16.2	17.2	21.1	16.9	17.8	21.8
17	JKMH-7004	26.2	21.5	15.2	13.2	15.2	20.5	18.6	15.5	16.2	16.3	17.5	16.4	21.6
18	S 6217	24.0	24.1	15.1	17.3	16.7	22.3	19.9	20.2	17.2	18.3	20.9	19.1	23.1
19	S 6304	23.1	24.2	14.8	14.6	16.8	26.0	19.9	19.7	16.1	17.9	20.9	18.6	22.9
20	JH 31404	25.8	23.0	15.3	14.7	16.7	27.0	20.4	19.3	17.1	16.8	20.9	18.5	22.9
21	NMH-1242	26.6	21.9	15.9	13.5	16.8	21.9	19.4	16.1	16.6	20.2	18.6	17.9	22.5
22	NMH-589 (Suvarna)	25.2	22.5	14.8	15.7	15.5	22.5	19.4	19.8	16.2	18.9	19.3	18.5	22.7
23	VMH-4106	26.6	22.7	14.9	15.3	16.3	25.0	20.1	12.8	16.6	17.4	20.7	16.9	23.0
24	KH-B63	24.4	22.8	15.2	14.5	16.3	22.2	19.2	16.8	17.8	21.4	19.7	18.9	23.2
25	KH-B52	27.9	24.5	15.0	14.8	15.9	24.1	20.4	15.5	16.7	18.9	19.2	17.6	23.1
26	KH-B55	26.7	20.8	14.3	14.0	16.5	22.4	19.1	18.6	17.1	18.5	18.1	18.1	22.5
27	KNMH-401061	25.4	22.0	14.1	13.2	15.3	23.8	18.9	14.8	16.1	20.1	19.0	17.5	22.5
28	CMH08-284	27.2	20.8	15.8	14.5	15.3	20.2	18.9	19.8	16.8	21.4	20.0	19.5	23.1
29	CMH08-292	23.7	22.1	15.0	14.9	15.7	23.9	19.2	17.4	17.1	20.3	20.3	18.8	23.1
30	CMH08-350	26.2	20.7	15.6	14.1	16.4	24.0	19.5	19.7	17.6	20.0	20.2	19.4	23.6
31	CMH08-433	25.4	22.0	15.3	15.3	16.5	22.9	19.5	15.3	17.7	18.8	20.1	18.0	23.3
32	Yuvraj Gold	27.3	20.4	15.3	14.4	16.0	21.6	19.2	19.8	16.6	17.5	19.8	18.4	22.9
33	Titan	24.2	19.3	15.2	13.9	17.1	23.7	18.9	15.0	16.7	20.4	16.7	17.2	21.9
34	IMH-111	24.4	22.0	14.8	14.2	17.0	22.4	19.1	21.4	16.3	16.3	20.3	18.6	23.1
35	IMH-666	25.0	22.3	15.1	15.0	15.2	20.0	18.8	16.1	16.7	21.0	20.1	18.5	22.6
36	SMH-9	26.9	22.8	15.0	14.0	15.3	21.0	19.1	15.8	16.6	18.1	18.0	17.1	21.4

Table No.2 (Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
37	AMH-2002	25.9	20.3	15.2	13.4	15.1	21.8	18.6	15.9	17.6	16.5	17.3	16.8	22.0
38	EHL 161708	27.8	22.1	14.8	13.6	15.7	21.3	19.2	20.3	16.7	20.1	19.5	19.1	22.6
39	EHL 163909	26.1	22.3	14.9	15.0	15.6	20.3	19.0	18.9	18.1	16.8	17.4	17.8	21.7
40	EHL 164810	25.6	21.7	15.0	13.6	15.3	25.3	19.4	20.7	16.5	18.2	20.2	18.9	22.9
41	EHL 164910	27.2	22.1	14.9	14.4	15.5	20.0	19.0	16.5	16.7	18.8	19.2	17.8	22.4
42	L230	25.7	21.7	15.5	13.7	15.1	20.1	18.6	17.6	17.6	17.3	17.8	17.6	21.9
43	EH-2074	24.2	22.7	15.9	13.8	16.3	20.8	19.0	15.5	16.6	17.5	17.3	16.7	21.5
44	EC-3161	26.3	18.5	13.5	14.4	16.0	22.0	18.4	20.3	17.2	17.2	18.9	18.4	22.5
45	BH41001	25.0	20.3	15.0	13.8	16.5	21.5	18.7	17.9	16.7	19.6	19.3	18.3	22.8
46	BH41009	25.2	23.4	15.1	14.8	16.7	21.8	19.5	19.2	17.7	19.4	19.9	19.0	23.2
47	BIO-688	25.8	21.9	15.0	14.5	15.0	22.6	19.1	16.8	17.7	18.7	17.7	17.7	22.1
48	BIO-151	27.4	22.0	15.2	15.1	15.8	24.2	19.9	19.3	17.2	20.5	20.4	19.3	23.8
49	HKH - 411	23.3	20.8	15.8	17.1	-	24.9	20.4	18.7	16.4	18.3	18.6	18.0	22.9
50	HKH - 412	25.6	22.1	14.6	15.4	-	22.4	20.0	12.8	17.2	-	19.7	16.6	23.2
51	HKH - 414	24.8	21.5	14.8	14.8	15.9	23.4	19.2	15.4	18.2	21.1	18.9	18.4	22.9
52	HKH - 316	23.2	18.9	15.1	15.1	14.8	18.1	17.5	15.6	17.3	16.5	18.1	16.9	21.4
53	REH 2009-15	24.6	23.1	14.8	14.7	15.9	21.7	19.1	17.1	16.7	21.2	18.9	18.5	22.7
54	REH 2009-18	26.4	24.6	15.2	13.5	15.3	20.9	19.3	17.8	17.2	17.0	19.8	17.9	22.8
55	REH 2009-20	26.2	24.3	14.8	16.8	16.0	25.8	20.6	16.8	17.2	16.4	18.4	17.2	22.6
56	MMH-09-1	28.6	23.0	18.2	17.0	15.7	20.4	20.5	15.1	17.4	17.5	19.8	17.4	22.2
57	MMH-09-2	25.7	22.0	14.7	14.8	15.9	22.6	19.3	15.3	17.1	20.8	18.9	18.0	22.2
58	MMH-09-3	24.9	21.4	14.0	15.1	15.6	22.0	18.8	20.5	16.7	16.5	18.9	18.1	22.9
59	MMH-09-4	25.3	28.3	14.7	15.3	16.1	22.9	20.4	15.4	16.1	19.2	19.9	17.7	22.6
CHECKS														
60	Navjot	25.7	20.4	14.3	13.5	15.4	15.5	17.4	16.5	17.5	16.9	17.8	17.2	21.2
61	BIO 9637	27.1	21.6	15.6	14.6	16.0	25.3	20.0	14.3	17.3	16.3	17.9	16.4	22.3
62	HM 8	28.0	22.3	14.1	14.1	-	21.9	20.1	19.9	16.1	16.7	19.9	18.2	23.1
63	HM 9	27.3	23.3	15.0	14.6	16.0	25.8	20.3	17.8	18.6	21.2	18.9	19.1	22.9
	Loc. Mean	25.8	22.1	15.0	14.6	15.9	22.6	19.4	17.2	17.1	18.5	19.1	18.0	22.6
	C.D. (5%)	1.90	1.72	0.74	1.13	0.47	0.89	1.45	0.32	1.21	0.00	0.92	2.03	1.01
	C.V. (%)	4.57	4.83	3.05	4.80	1.92	2.44	6.60	1.16	4.40	0.00	2.98	8.10	7.55
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.00

Table No. 2 (Continued)

SI No. PEDIGREE	PLANT HEIGHT (cm)			ZN 1			ZN 2			ZN 3						
	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	VARA	RANC	AMBI	Mean
1 NMH-3095	226.3	170.3	212.3	203.0	201.3	191.7	198.3	226.0	176.7	198.8	179.7	170.7	177.5	208.6	237.1	194.7
2 PFMH- 96 I 41	208.3	181.8	213.3	201.1	184.0	190.0	213.3	226.0	183.7	199.4	179.3	177.5	178.5	202.5	230.7	193.7
3 PFMH- 96 I 26	230.0	177.2	227.7	211.6	208.7	193.3	203.3	223.3	203.7	206.5	202.3	183.7	203.3	208.9	233.9	206.4
4 PFMH- 96 N 46 (W)	227.0	187.5	229.7	214.7	191.7	203.3	208.3	234.0	180.0	203.5	183.0	159.0	192.5	199.2	259.2	198.6
5 Bisco -2668	218.3	155.8	225.0	199.7	201.3	190.0	213.3	216.7	173.3	198.9	175.0	183.3	192.5	194.7	228.0	194.7
6 KDMH 176	236.0	177.8	222.0	211.9	206.7	203.3	231.7	256.7	169.0	213.5	188.7	189.0	192.5	222.9	250.1	208.6
7 Safal X-2	217.3	170.5	228.3	205.4	185.3	200.0	218.3	228.0	176.3	201.6	187.3	172.5	191.3	216.0	253.2	204.1
8 X8B684	216.7	165.5	221.3	201.2	202.3	216.7	215.0	237.3	178.0	209.9	156.7	188.8	173.8	203.7	250.4	194.7
9 X8B685	197.7	164.9	222.7	195.1	194.3	210.0	215.0	237.3	197.0	210.7	187.3	185.5	173.8	215.9	241.7	200.8
10 KMH-48	203.0	127.4	216.7	182.4	187.0	173.3	190.0	208.0	177.7	187.2	166.0	146.0	161.3	190.1	217.9	176.3
11 P3540	224.3	155.6	233.3	204.4	215.3	206.7	225.0	241.3	171.3	211.9	198.0	165.3	171.3	240.5	240.9	203.2
12 Hy. P3293	229.3	207.2	232.3	223.0	231.7	223.3	223.3	245.0	173.0	219.3	179.3	211.7	197.5	220.7	263.4	214.5
13 Hy. P3396	229.3	210.4	237.0	225.6	211.0	230.0	236.7	246.0	185.0	221.7	215.0	210.3	206.3	233.3	261.3	225.2
14 X35A173	246.7	184.1	243.0	224.6	221.7	210.0	271.7	254.7	181.0	227.8	194.7	214.5	208.8	202.6	266.2	217.3
15 X35A174	250.0	153.8	233.3	212.4	211.7	213.3	228.3	226.7	181.3	212.3	207.7	196.0	182.8	191.1	247.3	205.0
16 JKMH-7014	201.7	160.0	229.7	197.1	200.3	220.0	215.0	235.7	172.3	208.7	163.3	184.3	187.5	218.7	237.2	198.2
17 JKMH-7004	224.3	184.1	226.7	211.7	210.7	193.3	230.0	236.0	184.0	210.8	182.3	180.2	206.3	187.7	257.3	202.8
18 S 6217	219.3	174.5	234.3	209.4	216.0	193.3	231.7	242.0	181.7	212.9	182.7	201.5	177.5	207.4	260.2	205.9
19 S 6304	217.7	177.1	222.0	205.6	211.7	186.7	200.0	235.3	201.3	207.0	170.3	168.2	187.5	195.0	232.9	190.8
20 JH 31404	225.0	145.1	220.7	196.9	230.7	220.0	220.0	234.0	175.3	216.0	215.7	189.7	212.3	206.2	254.1	215.6
21 NMH-1242	218.0	164.6	227.7	203.4	216.0	190.0	226.7	238.0	195.7	213.3	187.3	188.5	185.3	225.1	243.0	205.8
22 NMH-589 (Suvarna)	210.7	169.2	233.3	204.4	205.3	208.3	210.0	205.7	179.3	201.7	183.0	184.2	175.0	203.5	234.2	196.0
23 VMH-4106	210.0	207.9	238.0	218.6	199.0	203.3	216.7	248.7	173.7	208.3	180.3	193.2	183.8	229.4	250.6	207.5
24 KH-B63	194.3	175.8	195.0	188.4	184.7	200.0	190.0	220.3	202.7	199.5	177.0	162.2	161.3	173.4	215.7	177.9
25 KH-B52	210.7	213.3	217.7	213.9	186.0	196.7	210.0	216.7	190.7	200.0	181.0	160.8	182.5	204.0	238.3	193.3
26 KH-B55	212.7	182.5	224.7	206.6	200.0	176.7	211.7	211.3	171.7	194.3	180.3	165.7	182.8	200.0	243.1	194.4
27 KNMH-401061	273.3	236.9	232.7	247.6	240.7	216.7	251.7	247.3	186.3	228.5	217.3	191.3	201.8	228.0	280.1	223.7
28 CMH08-284	255.7	206.0	228.7	230.1	232.7	223.3	263.3	258.0	176.0	230.7	187.0	204.7	220.0	223.1	280.2	223.0
29 CMH08-292	266.7	200.9	248.7	238.7	245.3	230.0	251.7	254.0	174.0	231.0	205.0	222.8	212.5	238.4	277.1	231.2
30 CMH08-350	261.7	193.2	240.0	231.6	252.7	230.0	263.3	252.0	199.0	239.4	212.7	206.2	219.0	222.1	276.1	227.2
31 CMH08-433	246.7	197.6	247.7	230.6	241.0	223.3	250.0	248.0	177.3	227.9	213.0	202.2	212.5	233.3	277.4	227.7
32 Yuvraj Gold	220.0	180.9	239.3	213.4	200.3	210.0	205.0	216.7	172.3	200.9	190.3	173.0	174.8	201.9	256.7	199.3
33 Titan	237.3	185.9	225.7	216.3	204.3	190.0	218.3	242.0	173.0	205.5	189.3	183.7	178.8	250.6	250.5	210.6
34 IMH-111	225.0	170.0	222.0	205.7	208.0	200.0	173.3	205.3	173.7	192.1	177.3	160.5	181.3	205.6	236.1	192.2
35 IMH-666	252.3	166.1	226.7	215.0	217.7	190.0	228.3	226.0	172.0	206.8	194.3	182.2	166.5	215.5	240.8	199.9
36 SMH-9	203.0	133.8	205.3	180.7	181.0	186.7	220.0	214.0	171.3	194.6	191.7	161.8	185.0	156.3	215.9	182.1

Table No. 2 (Continued)

SI No. PEDIGREE	PLANT HEIGHT (cm)			ZN 1						ZN 2					ZN 3	
	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	VARA	RANC	AMBI	Mean
37 AMH-2002	221.3	155.9	205.3	194.2	199.7	220.0	200.0	246.7	183.3	209.9	163.7	171.3	182.5	213.3	228.3	191.8
38 EHL 161708	188.3	165.5	208.3	187.4	174.3	203.3	178.3	211.3	181.7	189.8	164.3	161.5	158.8	181.4	213.3	175.9
39 EHL 163909	211.7	163.2	215.7	196.9	186.3	215.0	205.0	248.7	180.0	207.0	193.3	189.2	177.5	182.4	231.9	194.9
40 EHL 164810	181.0	166.8	206.3	184.7	177.0	176.7	180.0	202.3	173.7	181.9	157.7	145.7	160.0	185.1	221.1	173.9
41 EHL 164910	188.0	159.3	206.0	184.4	175.3	195.0	200.0	208.0	181.0	191.9	173.3	165.5	166.3	193.0	221.7	184.0
42 L230	211.7	167.1	213.0	197.3	181.3	190.0	198.3	225.0	178.0	194.5	190.0	182.8	185.0	180.2	235.6	194.7
43 EH-2074	211.0	181.5	234.7	209.1	206.3	206.7	208.3	244.0	181.7	209.4	190.3	198.3	175.0	216.3	259.7	207.9
44 EC-3161	215.0	178.2	225.7	206.3	182.3	190.0	218.3	219.3	175.7	197.1	181.0	169.5	186.3	194.4	227.3	191.7
45 BH41001	233.3	194.7	243.3	223.8	225.7	220.0	255.0	263.3	196.3	232.1	200.7	198.8	200.0	208.0	267.5	215.0
46 BH41009	236.7	186.4	222.0	215.0	216.7	230.0	228.3	252.0	177.7	220.9	195.0	202.5	201.3	236.8	265.7	220.2
47 BIO-688	261.7	217.9	257.0	245.5	210.7	206.7	240.0	223.3	191.0	214.3	207.0	180.0	211.3	226.0	265.4	217.9
48 BIO-151	206.0	171.2	216.3	197.8	201.0	200.0	206.7	220.7	175.0	200.7	202.7	172.0	163.8	213.8	240.3	198.5
49 HKH - 411	224.7	195.8	196.7	205.7	200.0	183.3	220.0	232.0	187.3	204.5	184.0	162.2	156.3	210.2	249.3	192.4
50 HKH - 412	218.3	170.4	227.7	205.5	192.7	183.3	198.3	212.0	166.0	190.5	182.3	183.7	191.0	222.6	219.0	199.7
51 HKH - 414	233.3	171.8	193.0	199.4	198.0	213.3	208.3	227.3	176.3	204.7	183.3	165.0	181.8	203.4	228.4	192.4
52 HKH - 316	192.0	162.4	193.7	182.7	177.3	186.7	186.7	209.3	185.7	189.1	165.0	161.7	193.3	105.7	216.7	168.5
53 REH 2009-15	232.7	176.3	205.0	204.6	195.3	200.0	243.3	223.3	166.7	205.7	180.0	160.2	191.3	212.7	249.5	198.7
54 REH 2009-18	245.0	185.0	229.0	219.7	211.7	196.7	236.7	237.3	180.7	212.6	158.0	189.7	193.8	228.9	244.4	202.9
55 REH 2009-20	193.3	171.8	207.3	190.8	183.3	200.0	201.7	233.3	181.0	199.9	170.7	177.7	190.0	201.0	214.4	190.7
56 MMH-09-1	189.3	163.6	213.3	188.8	186.7	200.0	175.0	207.3	192.0	192.2	181.3	163.2	151.3	201.9	212.5	182.0
57 MMH-09-2	187.0	164.2	208.7	186.6	182.0	203.3	190.0	206.3	173.0	190.9	181.7	150.2	153.8	184.6	225.3	179.1
58 MMH-09-3	250.3	163.1	238.7	217.4	202.0	203.3	255.0	233.0	164.7	211.6	181.0	181.0	188.8	221.7	255.4	205.6
59 MMH-09-4	205.0	167.4	187.3	186.6	206.7	173.3	205.0	218.7	180.7	196.9	167.3	170.7	157.5	210.2	231.9	187.5
CHECKS																
60 Navjot	205.0	151.2	208.3	188.2	205.7	190.0	215.0	238.0	185.7	206.9	179.0	184.2	175.0	197.9	235.0	194.2
61 BIO 9637	236.7	165.9	220.0	207.5	219.0	216.7	236.7	241.3	181.0	218.9	196.3	194.5	190.0	238.9	248.9	213.7
62 HM 8	177.0	137.3	196.7	170.3	169.7	166.7	188.3	207.5	182.0	182.8	161.0	153.5	153.8	192.3	211.4	174.4
63 HM 9	186.7	144.9	195.0	175.5	178.7	183.3	190.0	237.3	199.7	197.8	180.0	169.8	170.5	198.2	232.0	190.1
Loc. Mean	220.4	174.8	221.6	205.6	202.9	201.5	216.6	230.5	180.8	206.5	184.9	179.8	184.2	206.9	242.7	199.7
C.D. (5%)	21.52	18.14	27.17	21.04	19.26	34.41	24.94	27.31	13.13	15.62	30.86	28.46	9.63	46.85	20.06	15.40
C.V. (%)	6.04	6.42	7.59	6.33	5.87	10.57	7.12	7.33	4.49	6.08	10.32	9.80	2.62	11.33	5.11	6.19
F (Prob.)	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	0.01	0.00	0.00

Table No. 2 (Continued)

SI No. PEDIGREE	PLANT HEIGHT (cm)													ZN 5 Mean	OV'L Mean
	AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI		
1 NMH-3095	237.1	194.7	147.5	227.7	173.3	155.0	198.0	189.7	181.9	203.3	209.0	153.0	228.3	198.4	194.0
2 PFMH- 96 I 41	230.7	193.7	165.5	221.7	181.7	168.3	204.3	180.2	187.0	210.0	178.0	170.0	223.3	195.3	194.4
3 PFMH- 96 I 26	233.9	206.4	168.0	230.7	165.0	156.7	211.7	183.2	185.9	206.7	198.7	170.0	230.0	201.4	200.9
4 PFMH- 96 N 46 (W)	259.2	198.6	179.0	244.0	176.7	160.0	185.7	200.3	190.9	213.3	168.9	172.5	223.3	194.5	199.0
5 Bisco -2668	228.0	194.7	190.5	217.3	105.0	155.0	193.0	174.9	172.6	193.3	195.3	165.0	230.0	195.9	190.7
6 KDMH 176	250.1	208.6	171.5	247.0	180.0	175.0	212.7	188.7	195.8	200.0	195.8	168.0	228.3	198.0	204.9
7 Safal X-2	253.2	204.1	170.5	234.7	138.3	168.3	219.7	191.5	187.2	205.0	200.4	182.5	240.0	207.0	199.8
8 X8B684	250.4	194.7	184.5	236.7	166.7	166.7	206.3	184.3	190.9	201.7	210.7	170.5	235.0	204.5	199.5
9 X8B685	241.7	200.8	180.5	235.3	171.7	151.7	208.7	171.9	186.6	205.0	180.5	177.5	221.7	196.2	197.7
10 KMH-48	217.9	176.3	191.0	198.3	110.0	145.0	198.0	183.5	171.0	195.0	188.8	149.0	211.7	186.1	179.8
11 P3540	240.9	203.2	177.0	238.3	171.7	168.3	204.7	175.3	189.2	208.3	212.0	161.0	261.7	210.8	202.9
12 Hy. P3293	263.4	214.5	169.5	237.3	178.7	173.3	202.3	192.5	192.3	216.7	222.2	177.5	251.7	217.0	211.3
13 Hy. P3396	261.3	225.2	196.5	244.3	193.7	176.7	190.3	197.7	199.9	203.3	200.7	177.5	248.3	207.5	214.8
14 X35A173	266.2	217.3	196.5	243.7	165.0	183.3	221.0	209.7	203.2	230.0	222.3	187.5	276.7	229.1	218.9
15 X35A174	247.3	205.0	158.5	238.0	168.3	175.0	210.3	186.9	189.5	211.7	214.0	185.0	245.0	213.9	205.0
16 JKMH-7014	237.2	198.2	163.5	228.0	168.3	161.7	211.7	177.2	185.1	206.7	197.4	160.0	223.3	196.9	196.7
17 JKMH-7004	257.3	202.8	151.5	235.3	196.7	160.0	207.7	190.7	190.3	208.3	205.5	178.0	235.0	206.7	203.1
18 S 6217	260.2	205.9	174.5	245.7	195.0	160.0	206.3	199.2	196.8	210.0	225.6	162.5	236.7	208.7	206.0
19 S 6304	232.9	190.8	170.0	226.3	168.3	161.7	200.3	169.5	182.7	205.0	198.8	173.0	201.7	194.6	194.8
20 JH 31404	254.1	215.6	176.0	239.0	160.0	166.7	194.7	190.4	187.8	203.3	210.5	208.0	230.0	213.0	205.5
21 NMH-1242	243.0	205.8	186.0	232.3	200.0	151.7	209.3	193.4	195.5	218.3	203.7	180.5	245.0	211.9	205.5
22 NMH-589 (Suvarna)	234.2	196.0	181.5	220.0	160.0	151.7	221.7	183.9	186.5	203.3	202.2	178.0	211.7	198.8	196.3
23 VMH-4106	250.6	207.5	188.5	238.3	193.3	166.7	203.3	188.9	196.5	190.0	222.7	157.5	236.7	201.7	205.2
24 KH-B63	215.7	177.9	184.0	222.7	161.7	145.0	205.0	167.7	181.0	196.7	199.0	137.5	203.3	184.1	185.9
25 KH-B52	238.3	193.3	190.5	224.3	163.3	145.0	216.3	185.5	187.5	200.0	193.8	164.5	221.7	195.0	196.2
26 KH-B55	243.1	194.4	187.0	214.3	191.7	155.0	204.3	182.3	189.1	196.7	197.1	169.5	233.3	199.2	195.4
27 KNMH-401061	280.1	223.7	189.5	246.0	195.0	176.7	209.0	204.6	203.5	225.0	197.0	209.0	275.0	226.5	223.1
28 CMH08-284	280.2	223.0	183.5	252.3	210.0	186.7	206.7	194.0	205.5	238.3	232.3	203.0	255.0	232.2	222.6
29 CMH08-292	277.1	231.2	179.0	251.0	218.3	181.7	210.0	195.4	205.9	230.0	235.6	195.0	273.3	233.5	225.9
30 CMH08-350	276.1	227.2	175.0	258.7	226.7	191.7	212.0	204.1	211.4	216.7	222.3	186.5	273.3	224.7	225.9
31 CMH08-433	277.4	227.7	188.5	258.0	183.3	173.3	208.0	200.7	202.0	228.3	204.1	180.0	260.0	218.1	219.8
32 Yuvraj Gold	256.7	199.3	200.0	237.7	165.0	156.7	209.0	178.5	191.1	201.7	797.1	172.5	235.0	351.6	225.8
33 Titan	250.5	210.6	166.5	246.0	168.3	173.3	208.7	200.9	194.0	203.3	205.7	178.0	240.0	206.8	205.2
34 IMH-111	236.1	192.2	168.5	224.7	156.7	171.7	198.0	171.1	181.8	213.3	192.0	180.0	223.3	202.2	192.9
35 IMH-666	240.8	199.9	191.0	237.7	191.7	165.0	200.7	185.2	195.2	213.3	198.9	167.5	231.7	202.8	202.7
36 SMH-9	215.9	182.1	180.0	223.3	170.0	136.7	196.0	169.3	179.2	171.7	185.4	160.0	233.3	187.6	184.8

Table No. 2 (Continued)

SI No.	PEDIGREE	PLANT HEIGHT(cm)												ZN 5 Mean	OV'L Mean	
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
37	AMH-2002	228.3	191.8	177.5	219.7	160.0	155.0	198.3	168.5	179.8	195.0	193.7	178.0	215.0	195.4	193.6
38	EHL 161708	213.3	175.9	175.5	197.7	165.0	126.7	205.3	163.1	172.2	188.3	160.5	152.5	200.0	175.3	179.3
39	EHL 163909	231.9	194.9	203.0	227.0	151.7	165.0	201.7	173.9	187.0	201.7	208.8	170.5	223.3	201.1	196.8
40	EHL 164810	221.1	173.9	181.5	205.0	161.7	138.3	208.7	170.9	177.7	180.0	183.9	148.0	211.7	180.9	179.3
41	EHL 164910	221.7	184.0	196.5	212.3	136.7	153.3	200.7	162.7	177.0	185.0	162.1	142.5	200.0	172.4	181.9
42	L230	235.6	194.7	185.0	222.0	150.0	165.0	195.3	179.2	182.8	193.3	177.4	176.5	225.0	193.1	191.6
43	EH-2074	259.7	207.9	158.0	235.3	165.0	153.3	203.3	182.2	182.9	190.0	206.9	159.0	265.0	205.2	201.4
44	EC-3161	227.3	191.7	165.5	227.7	160.0	181.7	213.3	168.9	186.2	185.0	183.9	170.0	218.3	189.3	192.9
45	BH41001	267.5	215.0	182.0	229.7	200.0	185.0	208.3	213.5	203.1	228.3	239.0	188.0	258.3	228.4	219.1
46	BH41009	265.7	220.2	184.0	254.3	188.3	190.0	210.3	205.1	205.4	225.0	207.0	185.0	256.7	218.4	215.5
47	BIO-688	265.4	217.9	202.5	249.3	175.0	180.0	205.7	200.6	202.2	231.7	219.0	180.5	265.0	224.0	217.7
48	BIO-151	240.3	198.5	186.0	235.7	186.7	151.7	208.3	171.6	190.0	205.0	197.0	166.5	221.7	197.6	196.5
49	HKH - 411	249.3	192.4	167.0	243.7	170.0	173.3	-	185.8	188.0	180.0	186.9	177.0	231.7	193.9	196.2
50	HKH - 412	219.0	199.7	187.0	228.3	128.3	165.0	-	177.9	177.3	190.0	197.2	175.0	230.0	198.0	193.0
51	HKH - 414	228.4	192.4	178.5	212.7	181.7	161.7	197.3	173.5	184.2	215.0	210.6	160.0	235.0	205.2	196.1
52	HKH - 316	216.7	168.5	175.5	219.0	156.3	141.7	205.3	166.1	177.3	201.7	162.1	158.0	221.7	185.9	180.2
53	REH 2009-15	249.5	198.7	187.0	231.3	188.3	171.7	206.0	187.9	195.4	195.0	188.9	160.0	238.3	195.6	199.6
54	REH 2009-18	244.4	202.9	189.5	229.3	193.3	165.0	196.3	184.9	193.1	200.0	187.3	170.5	253.3	202.8	204.6
55	REH 2009-20	214.4	190.7	182.0	228.7	146.7	148.3	202.3	167.7	179.3	190.0	217.1	158.5	226.7	198.1	191.0
56	MMH-09-1	212.5	182.0	166.5	229.3	136.7	143.3	212.0	166.7	175.8	181.7	188.9	163.0	220.0	188.4	184.6
57	MMH-09-2	225.3	179.1	177.0	225.0	166.7	136.7	202.7	172.1	180.0	181.7	197.4	128.0	208.3	178.9	182.9
58	MMH-09-3	255.4	205.6	203.5	237.0	175.0	163.3	214.0	200.5	198.9	195.0	197.1	175.5	250.0	204.4	206.5
59	MMH-09-4	231.9	187.5	178.5	233.0	198.3	166.7	199.7	184.8	193.5	190.0	198.8	165.0	230.0	195.9	192.5
CHECKS																
60	Navjot	235.0	194.2	151.0	232.3	173.3	158.3	213.0	191.8	186.6	195.0	213.7	160.5	241.7	202.7	195.7
61	BIO 9637	248.9	213.7	170.5	249.0	215.0	186.7	211.0	188.1	203.4	205.0	227.0	163.0	248.3	210.8	210.8
62	HM 8	211.4	174.4	154.5	218.0	121.7	136.7	-	150.8	156.3	195.0	188.9	155.0	221.7	190.1	174.5
63	HM 9	232.0	190.1	184.5	212.0	160.0	141.7	208.7	170.2	179.5	171.7	192.1	156.5	230.0	187.6	186.7
	Loc. Mean	242.7	199.7	178.9	231.8	171.4	162.2	195.8	183.7	188.7	202.8	209.8	170.0	234.6	204.3	199.9
	C.D. (5%)	20.06	15.40	17.90	15.28	11.18	24.18	22.77	6.19	14.19	17.52	216.87	28.13	15.30	54.54	11.47
	C.V. (%)	5.11	6.19	6.19	4.08	4.04	9.22	7.20	2.09	6.62	5.35	63.96	8.28	4.03	19.14	9.92
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.51	0.00	0.00	0.04	0.00

Table No. 2 (Continued)

SI No.	PEDIGREE	EAR HEIGHT(cm)			ZN 1					ZN 2				ZN 3	
		BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	VARA	RANC	AMBI	Mean
1	NMH-3095	119.7	69.7	92.0	93.8	99.7	106.7	99.3	81.3	96.8	86.0	95.5	109.7	82.9	93.5
2	PFMH- 96 I 41	104.0	78.4	87.7	90.0	84.3	110.0	98.3	86.0	94.7	81.3	88.0	90.5	75.7	83.9
3	PFMH- 96 I 26	130.3	83.3	94.0	102.5	97.7	96.7	96.3	88.3	94.8	81.0	99.5	97.0	81.4	89.7
4	PFMH- 96 N 46 (W)	120.0	87.3	93.7	100.3	89.3	120.0	90.0	82.7	95.5	89.7	87.8	85.5	85.0	87.0
5	Bisco -2668	125.7	61.5	104.7	97.3	114.7	116.7	105.3	81.7	104.6	88.3	106.5	97.5	91.1	95.9
6	KDMH 176	138.0	72.7	107.0	105.9	118.3	106.7	122.0	80.7	106.9	105.3	100.0	112.0	96.2	103.4
7	Safal X-2	121.7	67.5	103.7	97.6	101.7	116.7	103.0	74.7	99.0	83.3	106.3	100.5	96.0	96.5
8	X8B684	113.3	71.1	103.0	95.8	106.7	136.7	111.0	75.3	107.4	83.7	86.3	103.9	91.6	91.4
9	X8B685	107.0	65.0	95.3	89.1	91.0	116.7	100.7	89.0	99.3	97.7	76.5	97.8	82.8	88.7
10	KMH-48	107.0	58.4	87.0	84.1	90.0	103.3	82.0	79.0	88.6	76.0	67.5	87.1	61.7	73.1
11	P3540	128.3	62.8	113.7	101.6	111.0	110.0	111.7	65.7	99.6	89.7	85.3	139.8	86.5	100.3
12	Hy. P3293	108.3	73.6	96.7	92.9	111.7	120.0	110.7	78.7	105.3	89.0	90.8	94.3	81.0	88.8
13	Hy. P3396	104.3	81.5	99.3	95.1	106.0	130.0	108.7	75.7	105.1	103.3	108.0	103.1	88.3	100.7
14	X35A173	128.7	72.3	112.0	104.3	110.0	140.0	117.3	85.3	113.2	98.7	112.8	103.3	100.3	103.7
15	X35A174	136.0	63.3	115.3	104.9	105.7	118.3	98.0	70.0	98.0	102.7	91.8	93.2	86.3	93.5
16	JKMH-7014	96.7	64.1	86.0	82.2	101.3	113.3	102.0	83.0	99.9	66.0	102.5	102.4	78.7	87.4
17	JKMH-7004	120.7	71.6	98.7	97.0	102.3	106.7	96.7	82.0	96.9	98.0	101.8	87.3	86.5	93.4
18	S 6217	126.3	73.3	111.3	103.6	113.0	111.7	111.7	83.3	104.9	93.3	86.3	103.3	92.3	93.8
19	S 6304	117.3	74.4	101.3	97.7	107.7	100.0	98.7	98.3	101.2	87.0	97.0	92.6	82.1	89.7
20	JH 31404	128.3	62.3	109.3	100.0	122.3	126.7	119.7	85.7	113.6	105.3	98.3	99.3	95.0	99.5
21	NMH-1242	105.0	64.0	87.3	85.4	93.7	110.0	84.0	86.7	93.6	71.0	85.0	95.4	73.5	81.2
22	NMH-589 (Suvarna)	127.7	79.9	108.0	105.2	118.7	123.3	98.0	82.0	105.5	105.0	90.5	104.1	87.8	96.9
23	VMH-4106	107.3	79.0	112.7	99.7	98.0	116.7	114.0	77.3	101.5	91.0	95.3	132.5	93.2	103.0
24	KH-B63	118.0	80.7	83.0	93.9	94.3	116.7	95.3	88.0	98.6	92.3	81.5	91.9	80.6	86.6
25	KH-B52	116.7	80.4	92.7	96.6	96.0	100.0	88.0	83.7	91.9	92.0	97.8	96.1	88.1	93.5
26	KH-B55	110.0	74.3	96.3	93.6	96.0	93.3	96.7	85.7	92.9	89.0	92.5	96.4	81.4	89.8
27	KNMH-401061	162.0	87.0	111.3	120.1	121.0	126.7	111.3	82.7	110.4	108.7	99.3	111.7	95.1	103.7
28	CMH08-284	147.7	81.6	115.3	114.9	127.0	153.3	119.0	79.3	119.7	96.0	126.3	110.9	110.1	110.8
29	CMH08-292	155.0	85.6	127.0	122.5	133.7	130.0	112.3	68.0	111.0	112.3	121.3	130.4	122.0	121.5
30	CMH08-350	150.0	81.6	124.7	118.8	135.7	133.3	119.0	107.7	123.9	119.0	127.8	110.7	112.7	117.5
31	CMH08-433	141.7	86.0	123.7	117.1	123.0	123.3	119.0	70.3	108.9	104.3	118.5	112.2	119.7	113.7
32	Yuvraj Gold	130.7	67.3	113.7	103.9	107.3	120.0	97.3	83.7	102.1	81.0	93.0	101.3	89.8	91.3
33	Titan	111.0	74.7	95.7	93.8	95.3	100.0	98.0	76.7	92.5	82.0	86.3	91.9	72.9	83.3
34	IMH-111	137.3	65.6	102.3	101.7	128.3	120.0	96.7	77.0	105.5	108.0	108.8	101.4	95.5	103.4
35	IMH-666	139.3	74.7	110.7	108.2	114.0	110.0	101.3	79.0	101.1	97.7	82.3	105.3	90.3	93.9
36	SMH-9	103.3	61.2	90.7	85.1	90.3	106.7	84.7	74.7	89.1	89.7	76.8	83.0	67.5	79.2

Table No. 2 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)			ZN 1					ZN 2				ZN 3	
		BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	VARA	RANC	AMBI	Mean
37	AMH-2002	125.3	64.1	83.7	91.0	97.7	126.7	103.3	79.0	101.7	82.0	103.8	125.1	82.3	98.3
38	EHL 161708	111.3	67.9	91.7	90.3	91.3	128.3	87.3	84.0	97.7	77.7	82.5	89.6	76.7	81.6
39	EHL 163909	125.0	73.6	98.0	98.9	104.3	125.0	109.3	76.7	103.8	81.0	91.5	100.6	92.6	91.4
40	EHL 164810	92.3	74.1	85.7	84.0	82.0	100.0	83.3	83.7	87.3	73.3	78.8	84.0	66.9	75.7
41	EHL 164910	115.7	68.2	99.3	94.4	96.7	113.3	92.3	78.7	95.2	79.3	86.3	90.5	71.5	81.9
42	L230	119.0	75.5	97.7	97.4	86.3	110.0	107.3	88.3	98.0	92.0	88.8	90.2	75.4	86.6
43	EC-2074	115.0	82.5	103.0	100.2	116.7	116.7	96.7	75.3	101.3	102.3	85.0	108.7	84.7	95.2
44	EH-3161	116.0	81.2	99.0	98.7	96.7	116.7	98.3	79.7	97.8	89.7	91.3	100.9	77.9	89.9
45	BH41001	131.0	76.9	127.0	111.6	119.7	143.3	132.7	95.7	122.8	106.7	103.0	128.8	108.9	111.8
46	BH41009	130.0	72.9	101.7	101.5	110.0	136.7	116.7	85.3	112.2	108.3	146.3	118.6	108.5	120.4
47	BIO-688	151.3	87.1	116.3	118.2	110.3	103.3	101.0	91.0	101.4	93.3	116.3	110.2	88.1	102.0
48	BIO-151	128.3	68.8	109.3	102.1	108.0	123.3	100.7	83.0	103.8	100.3	85.0	109.4	88.9	95.9
49	HKH - 411	113.7	75.0	85.3	91.3	95.0	100.0	92.5	77.7	91.3	86.0	87.5	93.2	74.9	85.4
50	HKH - 412	110.7	74.0	104.0	96.2	101.0	106.7	88.7	76.3	93.2	79.0	90.0	100.7	75.9	86.4
51	HKH - 414	130.7	65.6	93.3	96.5	106.0	123.3	110.0	81.3	105.2	93.0	95.5	97.4	83.6	92.4
52	HKH - 316	92.0	74.8	72.7	79.8	78.3	96.7	87.7	75.7	84.6	64.7	86.5	71.1	62.7	71.3
53	REH 2009-15	124.3	63.4	89.0	92.2	107.3	121.7	100.7	65.3	98.8	92.0	106.3	102.2	88.9	97.3
54	REH 2009-18	136.7	74.3	107.3	106.1	105.7	110.0	115.3	84.3	103.8	84.3	97.3	103.3	95.3	95.1
55	REH 2009-20	102.3	64.0	90.7	85.7	98.3	123.3	98.0	83.3	100.8	72.7	101.5	103.5	76.8	88.6
56	MMH-09-1	107.7	73.9	111.7	97.8	100.3	126.7	106.0	84.7	104.4	91.7	86.3	100.3	76.2	88.6
57	MMH-09-2	104.3	69.1	83.7	85.7	93.7	126.7	92.0	77.3	97.4	85.7	81.3	79.6	78.6	81.3
58	MMH-09-3	152.7	70.8	116.7	113.4	107.0	120.0	102.7	71.7	100.3	92.3	91.3	101.6	96.9	95.5
59	MMH-09-4	121.7	63.7	83.0	89.5	109.7	103.3	96.7	77.0	96.7	93.0	85.0	97.6	97.2	93.2
CHECKS															
60	Navjot	111.3	62.1	93.7	89.0	102.3	120.0	104.7	81.7	102.2	77.7	73.8	90.2	85.5	81.8
61	BIO 9637	122.0	69.8	94.5	95.4	101.0	120.0	96.7	79.0	99.2	80.0	85.0	102.0	79.2	86.6
62	HM 8	86.7	55.5	93.1	78.4	86.0	93.3	102.5	82.0	91.0	77.0	86.3	93.4	67.1	80.9
63	HM 9	101.7	56.0	84.5	80.7	90.3	100.0	102.3	94.7	96.8	77.3	78.5	83.3	70.9	77.5
	Loc. Mean	121.0	72.1	100.4	97.8	104.1	116.3	102.3	81.3	101.0	90.1	94.6	100.8	86.2	92.9
	C.D. (5%)	18.89	7.01	19.17	14.58	12.88	29.10	15.56	13.54	12.33	21.67	18.12	23.75	11.51	11.33
	C.V. (%)	9.66	6.02	11.82	9.22	7.66	15.49	9.41	10.31	8.75	14.88	9.58	11.79	8.25	8.74
	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

Table No. 2 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)					ZN 4		BANS	GODH	CHHI	ZN 5		OV'L
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI				Mean	Mean	
1	NMH-3095	79.5	65.0	76.7	98.3	103.7	84.6	106.7	105.6	59.0	108.3	94.9	92.3	
2	PFMH- 96 I 41	93.0	65.0	81.7	102.7	99.3	88.3	101.7	88.1	72.5	105.0	91.8	89.7	
3	PFMH- 96 I 26	100.0	63.3	78.3	106.0	93.5	88.2	108.3	113.9	65.0	105.0	98.1	93.9	
4	PFMH- 96 N 46 (W)	107.0	68.3	80.0	87.3	95.9	87.7	105.0	107.3	75.0	106.7	98.5	93.2	
5	Bisco -2668	106.0	60.0	78.3	94.3	99.3	87.6	101.7	105.4	76.5	126.7	102.6	97.1	
6	KDMH 176	98.5	70.0	93.3	112.0	108.5	96.5	108.3	113.8	84.0	126.7	108.2	103.7	
7	Safal X-2	98.0	60.0	86.7	114.7	106.5	93.2	100.0	103.9	85.0	120.0	102.2	97.5	
8	X8B684	108.5	68.3	81.7	101.0	109.9	93.9	110.0	109.0	75.5	111.7	101.5	97.9	
9	X8B685	99.5	56.7	81.7	108.3	85.1	86.2	96.7	115.6	80.0	110.0	100.6	92.6	
10	KMH-48	97.7	48.3	78.3	98.3	84.9	81.5	88.3	78.8	55.5	103.3	81.5	81.6	
11	P3540	100.0	66.7	78.3	107.0	102.1	90.8	100.0	98.9	65.5	126.7	97.8	97.5	
12	Hy. P3293	108.5	73.3	91.7	104.7	98.1	95.3	111.7	112.2	71.5	111.7	101.8	96.9	
13	Hy. P3396	117.0	71.7	86.7	97.3	103.3	95.2	93.3	98.7	79.0	123.3	98.6	98.9	
14	X35A173	120.5	55.0	88.3	116.3	113.3	98.7	96.7	104.0	76.5	116.7	98.5	103.4	
15	X35A174	95.0	60.0	91.7	101.3	91.9	88.0	103.3	108.9	80.0	118.3	102.7	96.6	
16	JKMH-7014	84.5	70.0	85.0	105.3	94.4	87.8	86.7	97.4	66.0	98.3	87.1	89.2	
17	JKMH-7004	80.5	78.3	83.3	103.3	99.3	89.0	95.0	95.5	84.0	101.7	94.0	93.7	
18	S 6217	104.0	75.0	83.3	103.7	102.7	93.7	113.3	120.2	74.0	120.0	106.9	100.1	
19	S 6304	96.5	53.3	76.7	102.3	93.9	84.5	96.7	94.7	71.5	111.7	93.6	92.7	
20	JH 31404	98.5	61.7	86.7	98.0	105.5	90.1	103.3	108.9	101.5	123.3	109.3	102.0	
21	NMH-1242	102.5	85.0	70.0	113.0	88.4	91.8	96.7	90.4	72.5	115.0	93.6	89.5	
22	NMH-589 (Suvarna)	92.0	61.7	76.7	116.3	100.7	89.5	115.0	97.3	90.5	113.3	104.0	99.4	
23	VMH-4106	95.5	61.7	90.0	104.3	102.0	90.7	96.7	117.3	65.0	126.7	101.4	98.8	
24	KH-B63	100.5	60.0	68.3	105.7	87.5	84.4	96.7	100.7	72.5	103.3	93.3	90.9	
25	KH-B52	101.0	51.7	71.7	111.0	95.2	86.1	93.3	95.5	70.5	110.0	92.3	91.6	
26	KH-B55	99.5	60.0	76.7	106.0	93.3	87.1	98.3	95.6	72.5	111.7	94.5	91.3	
27	KNMH-401061	99.5	68.3	90.0	106.3	103.1	93.4	120.0	113.7	97.5	125.0	114.1	107.0	
28	CMH08-284	102.5	78.3	98.3	105.0	109.1	98.6	126.7	130.6	104.0	135.0	124.1	112.8	
29	CMH08-292	95.0	90.0	93.3	106.3	103.2	97.6	123.3	133.7	103.0	145.0	126.3	114.5	
30	CMH08-350	90.5	90.0	98.3	106.0	114.7	99.9	118.3	127.2	101.5	141.7	122.2	115.5	
31	CMH08-433	102.5	73.3	91.7	104.7	105.5	95.5	130.0	105.8	83.0	141.7	115.1	109.0	
32	Yuvraj Gold	110.5	63.3	80.0	101.0	100.3	91.0	101.7	88.6	78.0	113.3	95.4	96.1	
33	Titan	80.0	58.3	83.3	99.7	104.9	85.2	95.0	93.8	77.5	111.7	94.5	89.4	
34	IMH-111	88.0	65.0	88.3	97.3	100.7	87.9	133.3	118.8	90.0	120.0	115.5	102.1	
35	IMH-666	103.5	58.3	85.0	102.0	96.5	89.1	116.7	130.5	75.0	111.7	108.5	99.2	
36	SMH-9	95.5	58.3	70.0	98.0	86.3	81.6	75.0	92.3	62.5	108.3	84.5	83.7	

Table No. 2 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)					ZN 4					ZN 5		OV'L
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
37	AMH-2002	92.0	58.3	76.7	99.7	85.1	82.4	93.3	100.6	79.0	121.7	98.6	94.0	
38	EHL 161708	96.5	61.7	68.3	99.0	95.5	84.2	96.7	95.7	71.5	105.0	92.2	88.9	
39	EHL 163909	118.0	53.3	86.7	97.7	102.5	91.6	115.0	110.5	66.0	111.7	100.8	96.9	
40	EHL 164810	102.0	48.3	73.3	106.7	86.3	83.3	83.3	80.6	50.5	90.0	76.1	81.3	
41	EHL 164910	111.5	51.7	73.3	97.0	87.0	84.1	98.3	100.4	61.0	101.7	90.4	88.7	
42	L230	92.5	51.7	93.3	97.3	88.8	84.7	101.7	80.3	75.5	103.3	90.2	90.7	
43	EH-2074	72.0	55.0	75.0	99.3	97.4	79.7	116.7	108.7	74.0	130.0	107.3	95.7	
44	EC-3161	90.0	49.7	93.3	108.0	93.1	86.8	93.3	86.9	74.0	111.7	91.5	92.4	
45	BH41001	93.5	73.3	100.0	104.3	124.7	99.2	126.7	130.5	88.0	130.0	118.8	112.2	
46	BH41009	92.5	73.3	100.0	107.7	112.5	97.2	113.3	103.8	82.5	123.3	105.7	107.2	
47	BIO-688	111.0	61.7	93.3	107.0	106.5	95.9	106.7	113.8	85.5	118.3	106.1	103.6	
48	BIO-151	87.0	73.3	83.3	105.3	94.6	88.7	107.0	103.9	82.0	113.3	101.6	97.7	
49	HKH - 411	78.5	65.0	91.7	-	101.6	84.2	76.7	112.1	70.0	120.0	94.7	89.3	
50	HKH - 412	94.0	51.7	83.3	-	93.9	80.7	96.7	97.2	75.0	113.3	95.6	90.1	
51	HKH - 414	92.0	80.0	88.3	100.3	96.3	91.4	123.3	110.6	66.5	120.0	105.1	97.9	
52	HKH - 316	83.5	65.0	71.7	104.0	90.7	83.0	80.0	75.4	60.5	91.7	76.9	79.3	
53	REH 2009-15	95.5	60.0	86.7	104.3	101.5	89.6	95.0	88.9	71.5	121.7	94.3	94.3	
54	REH 2009-18	92.0	85.0	81.7	96.0	94.3	89.8	110.0	109.0	82.5	127.5	107.2	99.6	
55	REH 2009-20	93.0	48.3	78.3	101.3	87.9	81.8	85.0	112.5	68.0	105.0	92.6	89.7	
56	MMH-09-1	80.0	58.3	73.3	106.7	96.0	82.9	96.7	100.6	80.0	118.3	98.9	93.8	
57	MMH-09-2	92.0	41.7	71.7	100.3	95.3	80.2	86.7	100.8	61.5	106.7	88.9	86.4	
58	MMH-09-3	100.0	56.7	80.0	111.0	107.4	91.0	111.7	113.9	77.5	126.7	107.4	100.4	
59	MMH-09-4	100.5	56.7	85.0	98.3	101.2	88.3	103.3	95.7	78.0	135.0	103.0	94.1	
CHECKS														
60	Navjot	76.5	48.3	85.0	109.0	101.0	84.0	95.0	122.2	70.5	116.7	101.1	91.4	
61	BIO 9637	89.0	71.7	100.0	92.0	94.7	89.5	93.7	112.0	64.0	111.7	95.3	92.9	
62	HM 8	73.0	40.0	70.0	-	84.0	66.8	90.0	97.3	46.0	106.7	85.0	80.5	
63	HM 9	93.0	58.3	73.3	107.7	86.6	83.8	81.7	90.5	58.0	116.7	86.7	85.3	
	Loc. Mean	95.9	63.0	83.1	103.4	98.2	88.5	102.2	104.2	75.1	116.0	99.4	95.5	
	C.D. (5%)	16.68	6.89	15.84	17.75	3.50	10.07	16.99	26.51	22.45	9.26	10.96	5.28	
	C.V. (%)	10.76	6.77	11.79	11.15	2.20	9.13	10.28	15.74	14.96	4.94	7.90	8.91	
	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	

Table No. 2 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %											Mean			
		BAJA	BARA	KANG	ZN 1	DELH	KARN	LUDH	PANT	KANP	ZN 2	BAHR		VARA	RANC	AMBI
1	NMH-3095	83.8	68.9	83.0	78.6	83.0	78.0	86.9	78.6	74.0	80.1	80.2	75.0	84.9	77.6	79.4
2	PFMH- 96 I 41	87.5	73.9	79.0	80.1	85.9	76.0	89.9	87.5	72.0	82.3	85.8	77.8	87.8	80.4	82.9
3	PFMH- 96 I 26	81.6	75.8	79.0	78.8	86.8	75.0	88.6	88.9	72.0	82.3	78.0	78.0	84.3	78.6	79.7
4	PFMH- 96 N 46 (W)	81.7	79.8	79.0	80.2	83.6	78.0	88.5	80.0	73.0	80.6	81.2	79.3	87.1	78.9	81.6
5	Bisco -2668	83.4	82.6	80.5	82.2	88.1	85.0	87.6	83.3	70.0	82.8	81.9	77.0	85.8	78.7	80.8
6	KDMH 176	82.9	82.5	81.5	82.3	83.3	82.0	86.7	81.3	71.0	80.9	78.8	76.3	84.0	78.6	79.4
7	Safal X-2	83.4	83.6	77.5	81.5	85.9	76.0	87.9	83.3	76.0	81.8	78.5	75.5	84.5	77.6	79.0
8	X8B684	89.5	81.1	80.0	83.5	89.3	79.0	91.4	85.3	71.0	83.2	86.3	76.3	87.7	86.0	84.1
9	X8B685	82.4	78.2	76.5	79.0	87.3	73.0	90.5	84.4	72.0	81.4	85.6	78.5	84.5	78.6	81.8
10	KMH-48	84.5	75.1	84.5	81.4	84.8	69.0	72.7	75.0	72.0	74.7	78.5	77.5	85.6	84.1	81.4
11	P3540	80.1	82.1	78.0	80.1	83.7	83.0	86.5	78.2	72.0	80.7	78.0	75.8	85.0	81.2	80.0
12	Hy. P3293	85.9	67.2	85.5	79.5	88.0	74.0	88.0	82.6	72.0	80.9	81.3	80.0	85.8	79.4	81.6
13	Hy. P3396	86.4	74.0	85.5	81.9	82.2	75.0	90.1	85.5	75.0	81.6	82.8	80.8	84.8	80.4	82.2
14	X35A173	84.5	82.8	73.5	80.2	85.2	77.0	87.8	82.5	70.0	80.5	83.2	76.3	84.1	79.8	80.8
15	X35A174	82.9	76.0	84.0	80.9	85.0	80.0	88.0	88.9	74.0	83.2	79.4	75.8	84.7	84.1	81.0
16	JKMH-7014	86.7	81.8	78.5	82.3	85.2	78.0	87.7	77.8	70.0	79.7	80.9	75.0	87.8	80.9	81.1
17	JKMH-7004	84.0	83.5	79.0	82.2	83.9	81.0	87.9	80.0	74.0	81.3	82.0	78.0	77.5	83.0	80.1
18	S 6217	82.3	68.0	78.5	76.3	85.6	86.0	87.7	81.3	71.0	82.3	81.8	77.3	85.9	81.0	81.5
19	S 6304	84.0	77.2	84.5	81.9	85.9	76.0	88.6	83.3	77.0	82.2	80.7	76.0	86.5	80.1	80.8
20	JH 31404	85.6	75.2	86.5	82.5	87.5	76.0	88.4	85.7	78.0	83.1	79.0	76.0	85.7	81.9	80.6
21	NMH-1242	87.3	81.4	71.0	79.9	87.1	75.0	90.1	84.5	72.0	81.7	81.5	77.8	87.3	81.5	82.0
22	NMH-589 (Suvarna)	86.3	70.5	84.0	80.3	87.1	77.0	87.4	85.7	72.0	81.8	79.1	77.8	84.0	81.8	80.7
23	VMH-4106	84.5	82.4	78.0	81.6	87.7	78.0	86.2	83.3	75.0	82.0	81.3	75.8	84.3	86.9	82.1
24	KH-B63	86.1	76.9	76.5	79.8	89.1	86.0	89.9	81.1	70.0	83.2	77.1	77.5	85.7	79.6	80.0
25	KH-B52	80.4	75.4	82.5	79.4	85.6	78.0	86.1	80.0	76.0	81.1	80.9	76.3	85.9	83.2	81.5
26	KH-B55	82.6	82.3	80.0	81.6	84.9	80.0	88.0	81.3	73.0	81.4	76.0	80.8	85.5	81.1	80.8
27	KNMH-401061	82.5	73.1	65.0	73.5	82.7	80.0	86.1	82.2	73.0	80.8	81.9	75.8	84.7	78.2	80.1
28	CMH08-284	85.1	80.3	80.5	82.0	87.2	73.0	89.3	87.5	70.0	81.4	81.1	76.0	86.3	80.4	81.0
29	CMH08-292	85.1	76.0	83.0	81.4	85.1	75.0	87.2	77.8	70.0	79.0	84.6	79.5	85.5	82.2	83.0
30	CMH08-350	84.6	75.7	80.0	80.1	87.5	75.0	89.1	82.9	73.0	81.5	80.8	78.0	87.9	79.0	81.4
31	CMH08-433	83.2	76.9	84.0	81.4	81.5	82.0	86.5	84.4	74.0	81.7	77.3	77.5	84.7	79.7	79.8
32	Yuvraj Gold	83.9	74.8	83.0	80.6	88.0	70.0	89.6	82.9	73.0	80.7	80.8	79.3	83.8	76.0	80.0
33	Titan	85.3	77.9	77.5	80.2	86.1	76.0	88.6	87.5	75.0	82.6	83.8	75.8	84.7	81.1	81.3
34	IMH-111	83.1	82.9	72.5	79.5	85.4	78.0	86.7	85.7	71.0	81.4	79.3	75.5	83.0	78.7	79.1
35	IMH-666	85.2	73.8	81.5	80.2	84.7	80.0	88.7	82.0	72.0	81.5	81.9	78.0	85.9	81.8	81.9
36	SMH-9	84.6	77.1	83.0	81.5	86.4	83.0	88.6	83.3	76.0	83.5	83.1	76.8	86.7	79.9	81.6

Table No. 2 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %														
		BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean
37	AMH-2002	88.6	80.9	88.0	85.9	88.0	78.0	87.8	80.0	76.0	81.9	82.3	76.5	87.0	82.3	82.0
38	EHL 161708	81.1	79.1	75.0	78.4	85.0	76.0	88.1	80.0	72.0	80.2	79.6	76.5	83.5	80.7	80.1
39	EHL 163909	82.2	77.3	84.5	81.3	83.4	86.0	80.1	81.8	73.0	80.9	76.1	75.3	83.6	82.3	79.3
40	EHL 164810	83.8	83.4	83.0	83.4	83.9	81.0	91.2	80.0	72.0	81.6	87.0	75.8	84.9	83.4	82.7
41	EHL 164910	86.2	78.6	71.0	78.6	84.5	84.0	87.8	83.3	74.0	82.7	83.0	75.5	84.8	82.5	81.5
42	L230	87.3	82.3	75.0	81.5	83.1	75.0	87.1	84.2	73.0	80.5	81.4	75.3	83.6	73.8	78.5
43	EH-2074	82.5	75.8	72.5	76.9	85.9	78.0	78.6	79.3	74.0	79.1	78.3	80.4	85.4	79.7	81.0
44	EC-3161	84.2	71.9	81.5	79.2	83.5	76.0	87.6	85.7	72.0	80.9	77.6	75.0	84.3	84.2	80.3
45	BH41001	84.7	83.0	81.5	83.0	87.2	79.0	86.3	80.0	70.0	80.5	84.5	77.8	86.2	73.6	80.5
46	BH41009	79.2	74.0	84.0	79.0	84.4	78.0	86.3	84.2	72.0	81.0	84.4	75.0	83.8	79.1	80.6
47	BIO-688	86.9	76.2	70.5	77.9	86.3	81.0	90.9	83.3	74.0	83.1	83.8	77.5	87.6	75.8	81.2
48	BIO-151	85.3	76.2	78.0	79.8	86.0	83.0	86.8	77.8	75.0	81.7	83.6	79.5	85.4	83.2	82.9
49	HKH - 411	79.2	74.9	73.0	75.7	88.4	76.0	82.1	-	75.0	80.4	76.6	74.5	83.7	85.6	80.1
50	HKH - 412	82.5	76.3	82.0	80.3	82.9	68.0	83.6	80.0	74.0	77.7	76.8	74.5	83.9	82.5	79.4
51	HKH - 414	81.6	80.2	79.0	80.3	85.1	70.0	86.3	85.7	75.0	80.4	76.0	79.3	84.9	78.8	79.7
52	HKH - 316	79.6	72.2	70.5	74.1	85.3	78.0	84.6	85.2	74.0	81.4	79.8	79.0	82.5	79.2	80.1
53	REH 2009-15	86.3	83.5	83.0	84.2	83.8	78.0	87.4	84.0	71.0	80.8	80.8	75.5	85.4	76.1	79.4
54	REH 2009-18	84.7	75.4	78.0	79.3	80.5	78.0	87.5	80.0	74.0	80.0	77.6	76.0	84.7	79.0	79.3
55	REH 2009-20	87.4	76.3	83.5	82.4	85.5	81.0	88.3	81.8	75.0	82.3	82.9	76.8	85.7	81.8	81.8
56	MMH-09-1	82.7	77.2	85.0	81.6	87.4	70.0	89.1	87.5	74.0	81.6	83.4	78.3	86.4	81.9	82.5
57	MMH-09-2	83.3	73.6	83.0	79.9	84.1	78.0	86.7	80.0	77.0	81.2	78.9	77.5	85.1	79.8	80.3
58	MMH-09-3	79.3	75.8	82.5	79.2	78.3	78.0	85.6	82.2	72.0	79.2	84.0	76.3	82.6	80.6	80.8
59	MMH-09-4	89.0	83.5	70.5	81.0	82.2	78.0	85.1	87.5	70.0	80.6	78.0	76.5	86.8	82.3	80.9
CHECKS																
60	Navjot	85.4	82.2	82.0	83.2	83.3	87.0	87.3	83.3	77.0	83.6	84.8	75.0	84.4	80.2	81.1
61	BIO 9637	89.2	82.4	78.0	83.2	87.0	80.0	88.5	81.8	74.0	82.3	81.8	74.5	86.1	77.9	80.1
62	HM 8	81.3	81.1	70.5	77.6	83.0	80.0	81.9	-	78.0	80.7	81.7	75.0	83.2	81.4	80.3
63	HM 9	80.1	81.5	75.0	78.9	84.1	78.0	83.6	78.6	74.0	79.6	75.9	75.0	83.5	78.0	78.1
	Loc. Mean	84.1	77.8	79.3	80.4	85.2	78.0	87.1	82.7	73.2	81.2	80.9	76.9	85.1	80.4	80.8
	C.D. (5%)	0.00	3.81	3.71	6.56	3.05	-	3.84	-	-	3.63	1.55	2.06	2.61	6.76	3.08
	C.V. (%)	0.00	3.03	2.89	5.05	2.22	-	2.73	-	-	3.59	1.19	1.34	1.53	5.20	2.73
	F (Prob.)	0.00	0.00	0.00	0.67	0.00	-	0.00	0.00	-	0.15	0.00	0.00	0.00	0.22	0.26

Table No. 2 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	NMH-3095	85.2	71.8	83.7	86.5	79.8	75.1	80.3	80.1	71.3	79.0	80.5	77.7	79.4
2	PFMH- 96 I 41	86.4	70.4	83.2	86.2	83.2	84.7	82.3	78.6	70.3	84.3	84.3	79.4	81.6
3	PFMH- 96 I 26	87.0	62.2	81.1	86.2	78.9	85.8	80.2	81.9	69.1	79.0	81.0	77.8	79.9
4	PFMH- 96 N 46 (W)	85.2	75.8	86.1	86.7	74.8	83.9	82.1	83.7	70.2	80.4	84.7	79.8	81.0
5	Bisco -2668	85.7	77.6	83.2	83.3	82.9	78.3	81.8	80.9	68.6	82.3	82.7	78.6	81.3
6	KDMH 176	85.3	74.5	83.2	86.7	77.8	78.0	80.9	78.9	71.1	72.9	78.7	75.4	79.8
7	Safal X-2	88.0	64.9	82.6	91.1	74.7	79.5	80.1	81.1	71.7	75.4	80.6	77.2	80.0
8	X8B684	85.9	64.7	89.6	87.8	83.9	85.7	82.9	82.0	66.9	85.7	84.9	79.9	82.7
9	X8B685	87.2	69.4	84.2	87.5	82.3	86.3	82.8	81.9	69.7	83.6	84.9	80.0	81.3
10	KMH-48	88.6	65.4	82.2	87.5	84.6	84.9	82.2	81.2	69.8	83.3	84.0	79.6	79.8
11	P3540	84.5	67.0	83.0	85.6	78.5	81.7	80.1	82.5	71.1	78.9	78.6	77.8	79.8
12	Hy. P3293	88.3	66.3	82.4	85.2	79.8	81.3	80.5	81.5	70.1	82.4	82.4	79.1	80.4
13	Hy. P3396	87.1	82.8	85.2	84.4	83.6	83.4	84.4	80.1	71.6	81.8	83.9	79.4	82.1
14	X35A173	86.1	67.0	79.7	84.4	78.8	83.5	79.9	80.7	69.7	82.3	82.0	78.7	80.0
15	X35A174	86.9	67.4	75.2	89.0	80.4	82.8	80.3	80.9	68.7	80.6	82.1	78.1	80.7
16	JKMH-7014	85.0	70.5	84.0	87.5	82.8	85.4	82.5	82.2	71.3	82.0	85.2	80.2	81.2
17	JKMH-7004	86.0	72.6	83.3	86.4	81.2	83.4	82.1	81.2	66.4	80.8	85.2	78.4	80.9
18	S 6217	85.6	76.6	83.9	85.0	82.2	80.0	82.2	83.1	71.7	77.5	80.8	78.3	80.6
19	S 6304	86.3	76.0	83.5	85.5	78.1	79.4	81.4	81.3	68.7	80.8	81.2	78.0	80.9
20	JH 31404	87.9	78.8	88.0	85.9	78.7	82.4	83.6	81.4	70.2	85.7	81.2	79.6	82.1
21	NMH-1242	83.3	78.4	85.8	87.0	83.8	84.2	83.7	80.2	67.6	83.6	85.0	79.1	81.6
22	NMH-589 (Suvarna)	85.7	76.6	85.0	83.1	84.9	78.4	82.3	80.8	66.2	76.2	79.0	75.5	80.4
23	VMH-4106	86.0	77.6	85.0	84.4	81.6	80.0	82.4	78.5	70.7	82.2	79.2	77.7	81.3
24	KH-B63	82.0	77.9	85.5	88.0	81.5	82.7	82.9	80.4	70.4	76.9	82.4	77.5	81.0
25	KH-B52	85.1	65.9	86.0	85.9	78.2	85.6	81.1	80.8	69.7	81.4	82.3	78.5	80.5
26	KH-B55	86.2	83.3	85.5	83.5	83.9	85.8	84.7	79.9	69.2	84.3	85.8	79.8	81.9
27	KNMH-401061	86.9	67.8	83.5	83.7	85.1	75.6	80.4	77.9	69.3	78.1	81.3	76.6	78.8
28	CMH08-284	85.1	68.6	83.3	87.0	80.1	83.1	81.2	83.2	70.2	85.7	84.5	80.9	81.2
29	CMH08-292	84.5	64.8	81.9	85.9	81.3	79.4	79.6	82.8	70.1	80.7	81.7	78.8	80.2
30	CMH08-350	82.2	77.8	84.2	84.9	80.4	81.3	81.8	81.4	71.8	78.7	81.6	78.3	80.8
31	CMH08-433	85.9	69.5	81.4	87.1	80.8	79.2	80.6	80.6	69.6	79.0	79.1	77.1	80.2
32	Yuvraj Gold	85.5	65.6	82.9	85.4	83.2	77.5	80.0	80.5	70.2	78.4	80.7	77.4	79.8
33	Titan	86.3	63.7	83.9	87.1	79.3	82.9	80.5	76.9	71.2	81.5	85.2	78.7	80.8
34	IMH-111	88.3	79.2	78.5	86.0	82.9	83.6	83.1	82.5	68.3	58.2	79.7	72.2	79.5
35	IMH-666	86.1	77.5	86.4	85.4	80.6	82.1	83.0	80.7	70.1	80.0	86.6	79.4	81.4
36	SMH-9	85.1	66.7	85.3	84.7	82.3	85.6	81.6	82.2	66.6	82.0	84.5	78.8	81.5

Table No. 2 (Continued)

SI No.	PEDIGREE	GRAIN SHELLING %										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
37	AMH-2002	86.2	68.9	85.2	84.9	81.1	82.2	81.4	81.4	70.1	81.4	83.3	79.0	81.8
38	EHL 161708	83.6	77.1	80.4	88.7	81.3	83.8	82.5	80.6	69.2	75.7	81.3	76.7	79.9
39	EHL 163909	87.9	76.9	85.9	84.6	81.1	80.8	82.8	79.8	69.7	70.0	80.9	75.1	80.1
40	EHL 164810	86.1	66.2	83.6	84.9	81.9	84.0	81.1	78.8	69.9	82.7	83.1	78.6	81.4
41	EHL 164910	86.0	77.7	83.2	85.3	82.8	80.0	82.5	81.3	69.0	84.6	79.8	78.7	81.1
42	L230	89.2	81.7	83.3	86.8	83.7	85.3	85.0	80.2	68.1	75.7	81.7	76.4	80.8
43	EH-2074	87.2	80.6	82.7	86.3	78.4	82.9	83.0	83.0	69.2	81.6	83.4	79.3	80.3
44	EC-3161	87.2	81.3	82.9	86.3	83.2	82.2	83.8	82.0	68.7	80.6	81.5	78.2	80.9
45	BH41001	85.3	73.1	83.3	90.1	80.9	82.7	82.5	80.6	68.9	81.8	81.2	78.1	81.0
46	BH41009	88.2	77.0	85.7	85.5	78.8	80.8	82.7	82.1	70.9	76.9	81.0	77.7	80.5
47	BIO-688	86.9	74.3	87.3	87.3	83.0	86.5	84.2	80.1	70.6	87.0	86.6	81.1	82.0
48	BIO-151	88.4	74.0	82.9	89.0	82.4	83.4	83.3	81.7	68.6	83.0	81.7	78.8	81.6
49	HKH - 411	84.7	81.5	82.9	86.1	-	77.0	82.4	82.8	68.4	77.8	77.7	76.7	79.4
50	HKH - 412	85.9	77.0	83.5	87.1	-	80.5	82.8	81.2	68.7	-	81.9	77.3	79.6
51	HKH - 414	84.3	77.2	85.2	85.3	82.3	83.2	82.9	84.0	71.1	80.4	80.9	79.1	80.7
52	HKH - 316	87.0	67.6	81.9	83.9	73.9	79.2	78.9	80.2	69.9	78.8	78.0	76.7	78.6
53	REH 2009-15	83.3	67.4	79.1	84.3	82.6	82.0	79.8	81.4	69.6	81.4	80.5	78.2	80.3
54	REH 2009-18	87.8	81.4	85.2	84.2	81.3	82.9	83.8	80.1	70.6	82.2	81.0	78.5	80.5
55	REH 2009-20	81.8	72.0	84.3	84.7	83.2	81.6	81.3	80.8	70.2	85.7	84.2	80.2	81.6
56	MMH-09-1	85.1	64.7	86.0	84.1	83.5	83.0	81.0	79.9	70.8	81.4	83.5	78.9	81.1
57	MMH-09-2	84.8	71.0	83.9	85.6	85.4	80.3	81.8	81.1	68.1	79.0	80.8	77.2	80.3
58	MMH-09-3	85.7	68.4	82.7	85.9	81.1	79.2	80.5	74.7	70.6	81.8	82.4	77.4	79.5
59	MMH-09-4	86.6	74.1	86.4	84.6	81.1	82.1	82.5	80.3	70.2	85.0	82.5	79.5	81.0
CHECKS														
60	Navjot	85.1	72.0	78.5	88.1	81.3	83.0	81.3	80.9	70.2	85.7	86.0	80.7	81.9
61	BIO 9637	87.4	67.5	86.9	86.9	81.9	84.3	82.5	81.9	72.3	85.7	85.7	81.4	81.9
62	HM 8	86.4	74.6	82.9	86.1	-	75.2	81.0	82.3	67.0	80.0	78.4	76.9	79.5
63	HM 9	85.7	81.1	80.6	83.5	79.1	79.6	81.6	83.3	67.7	76.6	78.2	76.4	79.2
	Loc. Mean	86.0	72.8	83.6	86.0	81.2	81.9	81.9	81.0	69.6	80.5	82.1	78.3	80.7
	C.D. (5%)	2.38	3.49	3.19	2.53	1.26	1.31	3.48	0.82	2.19	-	2.84	3.52	1.74
	C.V. (%)	1.71	2.97	2.36	1.82	1.01	0.99	3.73	0.63	1.95	-	2.14	3.22	3.65
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	-	0.00	0.01	0.00

Table No. 2 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)															
	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1 NMH-3095	58.7	59.7	74.3	64.3	38.3	54.2	59.8	37.2	72.2	52.4	56.3	48.9	55.2	52.7	41.1	50.8
2 PFMH- 96 I 41	69.8	44.4	70.1	61.5	51.7	58.3	75.1	62.2	74.3	64.3	63.2	53.9	58.3	69.6	48.3	58.7
3 PFMH- 96 I 26	68.3	51.4	74.3	64.6	44.4	58.9	63.5	60.0	67.4	58.8	66.0	53.9	56.3	64.3	38.9	55.9
4 PFMH- 96 N 46 (W)	70.6	52.1	68.1	63.6	62.2	65.5	73.9	63.3	72.2	67.4	61.8	56.1	60.4	62.5	36.7	55.5
5 Bisco -2668	62.7	46.5	65.3	58.2	55.6	61.3	72.6	58.9	66.7	63.0	66.7	55.0	64.6	65.2	48.9	60.1
6 KDMH 176	70.6	44.4	70.1	61.7	49.4	58.3	70.8	61.1	68.8	61.7	64.6	55.0	61.5	54.5	41.7	55.4
7 Safal X-2	72.2	39.6	73.6	61.8	55.6	56.5	75.7	66.1	68.1	64.4	64.6	55.0	61.5	68.8	48.9	59.7
8 X8B684	71.4	50.7	72.9	65.0	51.1	64.9	74.5	58.3	79.2	65.6	64.6	55.6	62.5	65.2	46.1	58.8
9 X8B685	69.0	41.0	74.3	61.4	58.9	59.5	72.6	58.3	66.0	63.1	63.2	52.2	56.3	65.2	35.0	54.4
10 KMH-48	68.3	48.6	75.0	64.0	58.9	60.7	76.3	58.3	69.4	64.7	61.8	52.8	61.5	67.9	40.0	56.8
11 P3540	63.5	50.7	75.0	63.1	66.7	60.7	73.3	61.7	70.8	66.6	68.8	52.2	61.5	75.9	41.7	60.0
12 Hy. P3293	69.0	56.3	68.8	64.7	47.8	63.7	74.5	60.6	71.5	63.6	68.1	54.4	59.4	58.0	44.4	56.9
13 Hy. P3396	69.8	67.4	66.0	67.7	43.9	59.5	72.0	51.7	73.6	60.1	72.9	55.0	59.4	67.9	42.2	59.5
14 X35A173	68.3	50.7	65.3	61.4	57.8	60.1	73.9	57.2	67.4	63.3	65.3	55.6	57.3	52.7	37.2	53.6
15 X35A174	68.3	54.9	73.6	65.6	63.9	64.3	75.7	58.9	73.6	67.3	66.7	56.1	54.2	57.1	43.3	55.5
16 JKMH-7014	68.3	62.5	74.3	68.4	56.7	60.7	70.8	61.1	74.3	64.7	56.3	55.0	54.2	59.8	41.7	53.4
17 JKMH-7004	68.3	59.7	68.1	65.3	56.1	58.9	76.3	55.0	66.7	62.6	64.6	59.4	54.2	59.8	46.1	56.8
18 S 6217	68.3	75.7	73.6	72.5	52.2	60.7	76.9	53.3	78.5	64.3	63.9	57.8	61.5	56.3	40.0	55.9
19 S 6304	64.3	76.4	68.1	69.6	61.1	64.3	75.1	58.9	68.1	65.5	55.6	56.1	52.1	61.6	41.1	53.3
20 JH 31404	63.5	53.5	69.4	62.1	60.0	61.3	74.5	60.6	65.3	64.3	66.0	55.6	56.3	71.4	47.2	59.3
21 NMH-1242	69.8	47.9	70.1	62.6	55.6	58.3	75.7	62.2	64.6	63.3	65.3	55.6	58.3	71.4	44.4	59.0
22 NMH-589 (Suvarna)	70.6	58.3	67.4	65.4	52.2	59.5	67.2	53.3	70.8	60.6	64.6	51.7	60.4	53.6	45.0	55.0
23 VMH-4106	61.1	60.4	67.4	63.0	57.2	60.1	69.0	58.3	65.3	62.0	65.3	51.7	63.5	57.1	28.9	53.3
24 KH-B63	66.7	58.3	69.4	64.8	61.1	61.9	73.3	61.1	70.8	65.6	46.5	54.4	49.0	65.2	46.7	52.4
25 KH-B52	64.3	72.9	72.9	70.0	49.4	57.7	72.0	53.9	75.0	61.6	63.9	53.3	56.3	60.7	46.7	56.2
26 KH-B55	69.8	68.1	66.7	68.2	52.2	56.0	75.1	61.1	64.6	61.8	64.6	55.6	57.3	65.2	44.4	57.4
27 KNMH-401061	65.9	54.9	66.7	62.5	39.4	57.1	68.4	56.7	71.5	58.6	68.1	54.4	54.2	64.3	36.1	55.4
28 CMH08-284	66.7	55.6	74.3	65.5	57.8	60.1	73.3	52.8	69.4	62.7	60.4	56.7	50.0	54.5	40.0	52.3
29 CMH08-292	67.5	66.0	68.1	67.2	49.4	57.1	72.6	54.4	70.1	60.8	65.3	55.0	57.3	58.9	43.9	56.1
30 CMH08-350	70.6	55.6	70.8	65.7	44.4	61.9	73.3	55.6	66.0	60.2	63.9	57.8	57.3	63.4	40.6	56.6
31 CMH08-433	65.9	75.0	68.8	69.9	61.7	59.5	75.7	52.2	73.6	64.5	59.0	55.0	46.9	59.8	39.4	52.0
32 Yuvraj Gold	67.5	71.5	61.1	66.7	61.1	60.1	73.3	50.6	72.2	63.5	66.7	55.6	50.0	67.0	50.0	57.8
33 Titan	62.7	51.4	63.9	59.3	54.4	60.1	70.8	60.0	68.1	62.7	64.6	51.7	61.5	67.0	41.7	57.3
34 IMH-111	64.3	39.6	63.9	55.9	52.8	57.7	74.5	54.4	69.4	61.8	70.1	55.0	55.2	67.9	46.7	59.0
35 IMH-666	67.5	65.3	64.6	65.8	59.4	54.2	73.3	55.0	72.2	62.8	61.8	57.2	60.4	60.7	50.6	58.1
36 SMH-9	61.1	47.2	68.1	58.8	53.3	54.2	73.3	38.9	72.9	58.5	64.6	53.9	62.5	68.8	40.0	57.9

Table No. 2 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)															
	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
37 AMH-2002	69.8	57.6	72.2	66.6	59.4	61.9	73.3	60.6	66.7	64.4	62.5	55.0	65.6	58.9	50.6	58.5
38 EHL 161708	66.7	41.0	72.2	60.0	51.7	62.5	70.2	58.9	68.8	62.4	59.0	56.1	56.3	62.5	41.7	55.1
39 EHL 163909	66.7	52.1	76.4	65.0	60.0	65.5	67.2	60.0	65.3	63.6	52.1	56.1	45.8	66.1	47.8	53.6
40 EHL 164810	67.5	36.8	67.4	57.2	64.4	63.1	72.0	62.2	65.3	65.4	63.2	48.9	56.3	70.5	44.4	56.7
41 EHL 164910	64.3	43.8	62.5	56.8	52.8	63.7	75.1	57.2	68.1	63.4	66.0	55.0	61.5	66.1	39.4	57.6
42 L230	71.4	53.5	68.8	64.6	58.9	57.7	73.9	60.0	76.4	65.4	62.5	56.1	62.5	56.3	45.0	56.5
43 EH-2074	53.2	54.2	70.8	59.4	39.4	63.7	56.8	26.1	72.9	51.8	45.8	42.2	56.3	53.6	32.2	46.0
44 EC-3161	61.9	62.5	63.9	62.8	30.6	61.9	58.6	30.6	65.3	49.4	63.2	50.6	46.9	48.2	33.9	48.5
45 BH41001	66.7	52.1	74.3	64.4	61.1	59.5	73.3	53.3	77.1	64.9	63.9	55.0	62.5	64.3	47.2	58.6
46 BH41009	50.8	49.3	68.1	56.1	32.2	57.7	28.1	25.0	69.4	42.5	62.5	37.2	56.3	34.8	27.2	43.6
47 BIO-688	64.3	73.6	69.4	69.1	45.0	58.3	73.9	58.3	75.0	62.1	61.8	52.8	61.5	66.1	35.6	55.5
48 BIO-151	60.3	70.8	71.5	67.6	57.2	57.7	70.2	60.6	68.8	62.9	67.4	57.8	58.3	67.9	31.7	56.6
49 HKH - 411	33.3	50.7	65.3	49.8	20.6	55.4	31.7	11.7	69.4	37.8	22.2	22.2	43.8	17.0	37.2	28.5
50 HKH - 412	43.7	52.8	66.7	54.4	24.4	54.8	20.1	10.0	63.9	34.6	35.4	18.3	24.0	17.9	36.7	26.4
51 HKH - 414	66.7	70.8	71.5	69.7	52.8	61.3	72.0	38.3	70.8	59.1	59.7	52.2	51.0	53.6	35.6	50.4
52 HKH - 316	64.3	56.9	71.5	64.3	50.0	60.7	71.4	43.9	65.3	58.3	57.6	49.4	55.2	56.3	36.1	50.9
53 REH 2009-15	59.5	57.6	72.2	63.1	57.2	59.5	73.9	59.4	74.3	64.9	64.6	53.3	56.3	59.8	32.8	53.4
54 REH 2009-18	65.1	50.7	75.0	63.6	55.0	60.1	72.0	53.3	77.1	63.5	60.4	52.2	56.3	59.8	32.2	52.2
55 REH 2009-20	60.3	48.6	73.6	60.8	51.7	65.5	70.2	58.3	75.7	64.3	61.8	48.3	60.4	62.5	33.9	53.4
56 MMH-09-1	66.7	47.9	63.9	59.5	42.8	64.3	69.6	45.6	71.5	58.7	64.6	56.7	61.5	64.3	35.6	56.5
57 MMH-09-2	68.3	47.9	68.1	61.4	56.1	58.3	76.3	56.7	70.1	63.5	56.3	54.4	60.4	65.2	33.9	54.0
58 MMH-09-3	68.3	50.7	70.1	63.0	45.6	63.1	69.6	50.0	66.0	58.8	54.9	52.2	50.0	63.4	39.4	52.0
59 MMH-09-4	69.8	55.6	69.4	64.9	48.3	60.7	71.4	55.6	66.0	60.4	67.4	56.1	55.2	53.6	40.6	54.6
CHECKS																
60 Navjot	69.8	54.2	72.2	65.4	48.9	62.5	73.3	55.6	63.9	60.8	55.6	55.6	51.0	69.6	45.0	55.4
61 BIO 9637	61.9	49.3	70.8	60.7	43.9	61.3	70.8	45.0	68.8	58.0	65.3	53.3	64.6	61.6	32.2	55.4
62 HM 8	34.9	72.9	75.0	60.9	7.8	57.7	5.5	3.3	68.8	28.6	61.8	11.7	15.6	10.7	31.1	26.2
63 HM 9	54.8	51.4	75.0	60.4	28.9	60.1	43.3	38.3	73.6	48.9	53.5	45.6	44.8	33.9	28.9	41.3
Loc. Mean	64.5	55.5	69.9	63.3	50.8	60.1	68.3	52.1	70.1	60.3	61.4	52.0	55.7	59.1	40.4	53.7
C.D. (5%)	5.71	5.17	9.10	12.32	13.68	7.64	6.02	14.80	4.87	9.34	9.50	5.74	9.84	15.57	11.91	7.58
C.V. (%)	5.47	5.76	8.06	12.04	16.67	7.86	5.45	17.58	4.30	12.45	9.58	6.83	8.85	13.17	18.26	11.32
F (Prob.)	0.00	0.00	0.10	0.69	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)						ZN 4						ZN 5	OV'L
	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1 NMH-3095	57.2	59.4	60.6	52.8	60.7	66.0	59.4	61.1	62.5	58.3	61.7	60.9	56.9	
2 PFMH- 96 I 41	63.9	61.1	60.0	62.2	61.9	66.0	62.5	62.5	61.1	74.0	65.6	65.8	62.5	
3 PFMH- 96 I 26	58.3	58.3	61.7	66.7	60.1	66.0	61.8	61.1	62.5	82.3	66.1	68.0	61.3	
4 PFMH- 96 N 46 (W)	40.6	48.9	61.1	63.9	56.5	66.0	56.2	67.4	59.0	80.2	66.1	68.2	61.5	
5 Bisco -2668	64.4	51.7	58.3	66.1	62.5	66.0	61.5	68.8	67.4	71.9	65.6	68.4	62.3	
6 KDMH 176	61.1	56.7	60.6	61.1	64.9	66.7	61.8	67.4	65.3	83.3	64.4	70.1	61.8	
7 Safal X-2	50.0	60.0	57.8	61.7	57.7	67.4	59.1	64.6	61.8	83.3	64.4	68.5	62.4	
8 X8B684	41.1	53.9	58.9	66.7	61.3	65.3	57.9	75.0	64.6	68.8	66.7	68.8	62.6	
9 X8B685	57.2	57.8	59.4	58.9	60.7	66.0	60.0	67.4	63.9	56.3	65.6	63.3	60.2	
10 KMH-48	62.2	57.2	58.3	61.7	60.1	64.6	60.7	68.1	62.5	75.0	66.7	68.1	62.4	
11 P3540	50.0	58.3	60.0	59.4	58.9	66.7	58.9	66.0	61.8	56.3	64.4	62.1	61.9	
12 Hy. P3293	60.0	57.8	57.2	62.2	58.3	66.0	60.3	63.9	62.5	75.0	66.1	66.9	62.0	
13 Hy. P3396	58.3	57.2	57.8	53.3	63.1	66.7	59.4	67.4	63.9	65.6	65.0	65.5	61.7	
14 X35A173	57.8	50.0	59.4	62.8	61.9	65.3	59.5	72.9	62.5	50.0	63.9	62.3	59.8	
15 X35A174	59.4	59.4	58.9	61.1	61.9	66.0	61.1	68.8	62.5	78.1	66.1	68.9	63.2	
16 JKMH-7014	42.2	58.9	57.8	62.2	57.7	66.7	57.6	70.8	61.8	68.8	66.1	66.9	61.2	
17 JKMH-7004	55.6	58.3	58.3	62.8	60.7	66.7	60.4	79.2	62.5	75.0	66.1	70.7	62.5	
18 S 6217	56.7	53.9	61.7	61.1	54.8	66.0	59.0	71.5	63.2	70.8	64.4	67.5	62.7	
19 S 6304	58.3	52.2	61.7	66.1	61.3	66.0	60.9	69.4	58.3	78.1	66.7	68.1	62.6	
20 JH 31404	42.2	58.3	56.1	62.2	58.9	66.0	57.3	74.3	63.9	72.9	63.3	68.6	61.9	
21 NMH-1242	51.7	59.4	59.4	61.7	60.1	66.7	59.8	71.5	57.6	83.3	66.7	69.8	62.5	
22 NMH-589 (Suvarna)	60.0	60.6	59.4	61.1	56.5	64.6	60.4	69.4	60.4	59.4	49.4	59.7	59.8	
23 VMH-4106	62.2	53.3	57.2	60.6	57.7	64.6	59.3	67.4	66.0	65.6	63.3	65.6	60.1	
24 KH-B63	58.9	51.1	58.3	60.0	58.3	66.0	58.8	68.8	63.2	83.3	66.7	70.5	61.7	
25 KH-B52	51.7	51.7	58.3	60.0	56.5	64.6	57.1	70.1	62.5	70.8	66.7	67.5	61.4	
26 KH-B55	56.7	58.9	61.1	61.1	57.1	66.0	60.1	74.3	58.3	80.2	66.1	69.7	62.6	
27 KNMH-401061	58.3	54.4	61.1	56.1	63.7	66.0	59.9	63.2	59.0	63.5	66.1	63.0	59.5	
28 CMH08-284	46.1	53.3	56.1	66.7	63.1	66.7	58.7	60.4	63.2	67.7	66.7	64.5	60.1	
29 CMH08-292	43.3	55.6	58.3	63.3	60.1	66.0	57.8	72.9	57.6	75.0	65.0	67.6	61.0	
30 CMH08-350	55.0	59.4	61.7	66.7	65.5	65.3	62.3	67.4	60.4	65.6	65.6	64.7	61.5	
31 CMH08-433	50.0	50.0	58.3	65.0	56.0	66.0	57.5	62.5	62.5	57.3	66.1	62.1	60.3	
32 Yuvraj Gold	55.0	47.8	60.6	62.8	56.5	65.3	58.0	72.2	57.6	66.7	65.6	65.5	61.6	
33 Titan	39.4	52.2	56.7	60.0	60.7	65.3	55.7	63.9	63.2	79.2	63.3	67.4	60.1	
34 IMH-111	51.7	53.3	60.0	60.6	60.7	64.6	58.5	59.0	62.5	68.8	65.0	63.8	59.9	
35 IMH-666	53.3	58.3	57.8	63.9	63.7	66.7	60.6	72.2	59.7	76.0	65.0	68.2	62.6	
36 SMH-9	52.2	41.7	58.3	62.8	57.7	63.2	56.0	66.0	59.0	68.8	66.1	65.0	58.9	

Table No. 2 (Continued)

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)							ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean
	ARBH	HYDE	KARI	KOLH	MAND	COIM								
37 AMH-2002	47.2	55.6	60.0	61.7	61.3	65.3	58.5	68.1	63.2	78.1	66.7	69.0	62.7	
38 EHL 161708	48.3	53.3	57.8	65.0	57.1	64.6	57.7	56.9	63.2	62.5	63.3	61.5	59.1	
39 EHL 163909	50.0	57.2	60.0	58.3	57.1	65.3	58.0	63.2	64.6	83.3	66.7	69.4	61.2	
40 EHL 164810	48.9	60.6	55.6	62.2	59.5	65.3	58.7	63.9	59.0	83.3	66.1	68.1	61.1	
41 EHL 164910	56.7	47.8	58.3	62.2	57.7	63.9	57.8	54.9	57.6	77.1	65.6	63.8	59.9	
42 L230	47.2	52.8	58.3	58.9	58.9	64.6	56.8	68.8	58.3	81.3	63.9	68.1	61.6	
43 EH-2074	51.1	51.1	61.1	50.6	62.5	65.3	56.9	67.4	59.0	26.0	59.4	53.0	53.1	
44 EC-3161	60.6	52.2	60.0	57.8	60.1	62.5	58.9	52.8	57.6	39.6	61.7	52.9	54.0	
45 BH41001	48.9	52.2	56.7	65.0	60.7	66.7	58.4	63.2	62.5	82.3	64.4	68.1	62.3	
46 BH41009	62.2	53.3	62.8	43.9	54.2	58.3	55.8	58.3	66.0	38.5	50.0	53.2	49.8	
47 BIO-688	50.0	62.2	55.6	64.4	57.7	65.3	59.2	78.5	61.1	49.0	66.1	63.7	61.1	
48 BIO-151	51.7	48.9	56.1	66.7	61.3	65.3	58.3	68.8	59.7	46.9	65.0	60.1	60.5	
49 HKH - 411	50.6	61.7	56.1	42.2	-	27.8	47.7	69.4	53.5	43.8	34.4	50.3	41.8	
50 HKH - 412	54.4	49.4	58.3	41.7	-	36.8	48.1	63.9	62.5	29.2	36.1	47.9	41.0	
51 HKH - 414	45.6	41.7	57.8	62.2	58.9	66.0	55.4	66.0	59.0	64.6	66.7	64.1	58.5	
52 HKH - 316	51.1	50.6	60.0	58.9	57.7	66.0	57.4	66.7	58.3	52.1	63.3	60.1	57.5	
53 REH 2009-15	57.2	43.9	62.8	61.1	60.7	66.7	58.7	61.8	60.4	46.9	65.6	58.7	59.5	
54 REH 2009-18	58.3	60.0	60.6	61.1	56.0	66.0	60.3	65.3	63.2	61.5	66.7	64.1	60.3	
55 REH 2009-20	52.8	59.4	58.3	59.4	61.3	65.3	59.4	67.4	60.4	67.7	63.3	64.7	60.3	
56 MMH-09-1	52.2	58.9	56.7	66.7	61.9	64.6	60.2	63.9	59.0	71.9	63.9	64.7	59.8	
57 MMH-09-2	56.1	51.1	57.2	58.9	64.3	65.3	58.8	64.6	60.4	65.6	65.0	63.9	60.0	
58 MMH-09-3	56.1	54.4	58.9	63.3	58.3	66.0	59.5	59.0	68.8	82.3	61.7	67.9	59.7	
59 MMH-09-4	51.1	53.3	58.3	62.8	57.1	65.3	58.0	77.1	63.2	55.2	66.7	65.5	60.0	
CHECKS														
60 Navjot	48.9	61.1	55.0	65.6	61.9	63.9	59.4	61.1	61.8	75.0	66.7	66.1	60.8	
61 BIO 9637	43.3	57.8	56.7	57.8	54.2	64.6	55.7	58.3	63.2	66.7	64.4	63.2	58.1	
62 HM 8	54.4	33.9	58.3	50.6	-	16.0	42.6	65.3	60.4	10.4	13.3	37.4	37.2	
63 HM 9	50.0	40.0	58.3	53.9	62.5	63.9	54.8	45.8	55.6	50.0	51.1	50.6	50.6	
Loc. Mean	53.1	54.2	58.8	60.5	59.7	63.6	58.2	66.2	61.4	65.8	62.6	64.0	59.3	
C.D. (5%)	18.62	8.69	5.27	7.41	5.48	3.13	5.77	7.81	6.79	15.21	5.13	11.67	3.97	
C.V. (%)	21.69	9.92	5.54	7.58	5.96	3.05	8.72	7.30	6.85	11.56	5.07	13.08	11.57	
F (Prob.)	0.77	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	

TABLE No. 3

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN TRIAL No. TR63 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		ALMO		BAJA		BARA		KANG		ZN 1 MEAN		DELH		KARN		LUDH		PANT		KANP		ZN 2 MEAN	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1	KDMH 755	9512	6	10532	3	2925	21	7095	12	7516	10	8061	1	3865	11	8993	6	11082	2	10582	5	8516	3
2	X7D610	11114	2	11548	1	4639	13	8097	4	8849	2	7939	2	3001	21	11251	3	10085	6	9074	11	8270	5
3	X8F984	10338	3	10330	4	2641	22	7212	10	7630	9	7427	3	3435	15	10736	4	12485	1	10337	7	8884	1
4	FH 3513	7829	19	8493	16	6144	7	5951	19	7104	16	5745	15	4223	5	7756	11	7380	20	10923	4	7205	8
5	KMH-128	8209	13	8836	11	4626	14	7332	9	7251	13	4957	22	2875	24	6320	22	7045	21	10433	6	6326	18
6	JKMH-7037	8527	9	8936	9	3744	16	6607	16	6954	17	4094	25	3309	16	6783	19	7861	18	11586	1	6727	14
7	Hy. P 1635	9575	5	7413	21	5365	9	8443	1	7699	7	7209	5	4123	7	9735	5	9811	7	11466	2	8469	4
8	X8B561	11827	1	10017	6	8050	1	6894	14	9197	1	7285	4	3173	18	11650	2	10619	3	11376	3	8821	2
9	Hy. 31Y45	9684	4	10893	2	3403	20	8060	5	8010	4	5676	18	4799	1	11922	1	10146	5	7824	14	8073	6
10	JH 31204	8513	10	8343	17	4665	12	7630	8	7288	12	5715	17	3018	20	8515	7	9314	9	6469	25	6606	15
11	JH 31403	8144	15	8739	12	5069	11	6600	17	7138	15	7084	6	4135	6	8441	8	7922	17	6747	22	6866	10
12	KH-101-Gold	8856	7	8731	14	5290	10	6709	15	7396	11	6421	10	4768	2	7066	14	9168	10	6599	23	6804	12
13	Sun - Vaaman	8818	8	9666	7	6838	4	8189	3	8378	3	6520	9	4073	8	8276	9	9102	12	9464	10	7487	7
14	Sun - 306	7505	21	7373	22	5722	8	7171	11	6943	18	4987	21	2932	23	5788	23	9096	13	7065	19	5974	23
15	KNMH-4010141	8328	12	10238	5	6530	5	5684	20	7695	8	6745	7	3846	12	7449	13	9401	8	7081	18	6904	9
16	L210	6281	24	6849	25	4499	15	5376	22	5752	22	4368	24	3436	14	5376	24	5564	24	8104	13	5369	24

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		ALMO		BAJA		BARA		KANG		ZN 1 MEAN		DELH		KARN		LUDH		PANT		KANP		ZN 2 MEAN	
17	EH-2094	7788	20	8856	10	1867	26	6462	18	6243	20	5852	14	2798	25	8063	10	8700	14	6889	21	6461	16
18	VEH-10-1	8503	11	8235	18	3638	17	6994	13	6842	19	5715	16	3946	9	6749	20	5427	25	9893	8	6346	17
19	WH-2051	5356	25	6548	26	6284	6	5683	21	5968	21	4838	23	3112	19	5203	25	6289	23	7082	17	5305	25
20	WH-2058	4512	26	6922	24	3565	18	3665	25	4666	26	3503	26	3182	17	4319	26	7404	19	7033	20	5088	26
21	REH 2009-11	8043	17	7576	19	7511	3	8370	2	7875	6	6063	12	3589	13	6993	15	10191	4	7340	16	6835	11
22	REH 2009-12	7843	18	8524	15	7909	2	7759	7	8009	5	5966	13	3919	10	6812	18	9137	11	8155	12	6798	13
23	HKH - 317	8091	16	9300	8	3460	19	7922	6	7193	14	6723	8	2965	22	6850	17	8091	16	6283	26	6183	22
24	HKH - 318	8153	14	7346	23	2615	23	3399	26	5378	24	5405	20	2580	26	6905	16	8555	15	7593	15	6208	21
CHECKS																							
25	JH-3459	6409	23	7515	20	2349	25	5111	23	5346	25	5548	19	4319	4	6478	21	5131	26	9694	9	6234	20
26	Prakash	7136	22	8732	13	2386	24	4242	24	5624	23	6156	11	4629	3	7680	12	6469	22	6527	24	6292	19
	Location Mean	8265		8711		4682		6641		7075		6000		3617		7773		8518		8524		6887	
	Mean Stand	22		26		29		32		28		32		34		37		30		35		34	
	C.D. (5%)	1698		1834		436		1884		1463		1237		394		1347		2285		1844		1421	
	C.V. (%)	12.52		12.83		5.68		17.29		-		12.56		6.63		10.56		16.35		13.19		-	
	F (Prob)	0		0		0		0.012		-		0		0		0		0		0		-	
	Plot Size	3.6		4.2		4.8		4.8		-		6		5.6		5.46		6		4.8		-	
AGRONOMY DATA																							
	Sowing Date	28-06		17-06		16-06		23-06		-		7-12		26-06		24-06		16-06		14-07		-	
	Harvest Date	23-10		28-10		28-09		12-10		-		23-10		28-09		10-02		28-09		10-10		-	
	Irrigation Nos	-		3		-		-		-		-		4		3		-		-		-	
	Fertilizer Applied N	80		120		80		120		-		150		150		90		120		120		-	
	Fertilizer Applied P	60		60		60		60		-		75		60		30		60		60		-	
	Fertilizer Applied K	40		40		40		40		-		75		60		-		40		40		-	
LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 39.2 %: RANC 22.9 %																							

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		BAHR	R	DHOL	R	VARA	R	RANC	R	AMBI	R	ZN 3 MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R
1	KDMH 755	8881	16	4209	7	8701	5	8352	9	5250	5	7611	6	12153	1	7122	8	5649	17	11094	4
2	X7D610	13126	1	5210	1	8811	4	10796	2	6120	1	9352	2	11232	2	6469	14	6572	6	12788	1
3	X8F984	12480	4	4123	8	10162	2	8528	4	5189	7	9277	3	5574	20	7833	5	5912	11	9852	9
4	FH 3513	9658	12	4525	4	5429	14	7811	12	4625	15	6570	13	9265	3	6911	11	5142	22	9635	11
5	KMH-128	9504	14	4682	2	3756	25	7406	16	4327	17	5862	21	7095	13	9382	1	6442	8	8541	18
6	JKMH-7037	9776	11	4475	5	5013	16	6667	24	4044	18	6278	16	7920	7	6452	15	6680	5	9237	14
7	Hy. P 1635	10712	6	2898	22	10253	1	8673	3	5134	8	8700	4	7412	9	5909	18	7137	1	11458	3
8	X8B561	12883	2	3815	11	7593	6	12080	1	5500	3	8659	5	8571	5	5095	24	5690	16	12708	2
9	Hy. 31Y45	12586	3	4582	3	9571	3	8464	6	5968	2	9375	1	6308	17	6999	10	6241	9	8734	17
10	JH 31204	10306	8	2364	26	6963	8	6939	23	4704	14	7324	8	4869	21	6578	13	6969	3	9449	12
11	JH 31403	9813	10	3507	16	5952	12	8361	8	5235	6	7000	9	4234	26	4962	25	6529	7	9155	15
12	KH-101-Gold	8357	19	3848	10	6097	10	7539	14	4828	13	6427	15	7132	12	5397	21	5353	18	10654	8
13	Sun - Vaaman	11614	5	3542	14	6220	9	8318	10	4538	16	7457	7	7370	10	5675	19	6935	4	10978	7
14	Sun - 306	9529	13	3128	19	4660	19	7076	21	4016	19	6068	17	6276	18	7554	6	5836	13	10979	6
15	KNMH-4010141	10004	9	3530	15	4976	17	8494	5	5074	9	6685	12	7276	11	5280	22	5752	15	11067	5
16	L210	7705	23	3105	20	4819	18	6105	25	3847	22	5457	22	4700	23	4836	26	5847	12	8009	19

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3									
		BAHR	R	DHOL	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R
17	EH-2094	10460	7	4385	6	5510	13	7790	13	4988	11	6986	10	7710	8	5575	20	5116	23	9038	16
18	VEH-10-1	8556	18	2872	23	5336	15	8402	7	3831	23	5908	20	4669	24	6602	12	7058	2	9690	10
19	WH-2051	6547	26	2604	25	4423	23	7166	20	3637	25	4869	25	4859	22	8367	2	5205	20	7538	20
20	WH-2058	7933	22	2698	24	4509	22	5451	26	3916	21	5452	23	4604	25	6105	17	5165	21	5476	22
21	REH 2009-11	8320	20	3814	12	7100	7	8037	11	4942	12	6787	11	6583	16	6259	16	4558	25	-	-
22	REH 2009-12	9467	15	3020	21	6073	11	7383	17	3925	20	6488	14	6654	15	7913	3	4816	24	-	-
23	HKH - 317	6817	24	3961	9	4624	20	7465	15	3828	24	5090	24	8667	4	7221	7	4371	26	-	-
24	HKH - 318	6760	25	3711	13	2973	26	7037	22	3257	26	4330	26	8547	6	5163	23	6036	10	-	-
CHECKS																					
25	JH-3459	8789	17	3472	17	4333	24	7215	19	4994	10	6039	18	6773	14	7851	4	5768	14	9329	13
26	Prakash	8150	21	3219	18	4524	21	7265	18	5306	4	5993	19	5794	19	7087	9	5307	19	7489	21
	Location Mean	9567		3665		6091		7878		4655		6771		7009		6561		5849		9677	
	Mean Stand	31		30		33		32		30		31		33		34		35		36	
	C.D. (5%)	1060		2355		1162		2960		1507		1243		1612		1936		405		1642	
	C.V. (%)	6.76		39.15		11.62		22.9		19.73		-		14.02		17.98		4.22		10.29	
	F (Prob)	0		0.111		0		0		0		-		0		0.001		0		0	
	Plot Size	4.8		6		4.8		5.6		4.8		-		6		6		6		4.8	
AGRONOMY DATA																					
	Sowing Date	17-07		22-07		6-07		5-07		9-07		-		14-07		19-06		16-07		7-09	
	Harvest Date	22-10		-		3-10		13-10		-		-		11-11		15-10		-		31-12	
	Irrigation Nos	-		-		1		-		-		-		3		-		-		-	
	Fertilizer Applied N	120		150		100		120		100		-		150		180		200		100	
	Fertilizer Applied P	60		70		40		60		50		-		75		60		80		50	
	Fertilizer Applied K	60		50		40		40		30		-		37.5		50		60		30	

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		MAND		COIM		ZN 4 MEAN		UDAI		BANS		GODH		CHHI		JHAB		ZN 5 MEAN		OV'L MEAN	
1	KDMH 755	6909	5	9398	8	8721	2	4322	4	4998	8	5712	11	8337	14	3471	10	5368	9	7593	4
2	X7D610	7441	2	10977	2	9246	1	1652	24	4320	19	6028	8	10781	3	4612	1	5479	4	8160	1
3	X8F984	5683	20	9992	4	7474	9	1279	26	5766	2	7231	2	9504	6	3406	12	5437	6	7600	3
4	FH 3513	6169	13	8642	11	7627	8	4963	3	5186	4	5011	17	7484	20	3926	3	5314	11	6804	8
5	KMH-128	7662	1	8991	10	8019	4	3337	15	5367	3	3881	21	7833	16	4196	2	4922	16	6563	14
6	JKMH-7037	6454	10	6408	22	7192	13	3241	16	4457	16	3776	22	7777	17	3871	5	4624	21	6372	18
7	Hy. P 1635	5771	16	9220	9	7818	7	2749	18	4455	17	7175	3	9128	8	3871	4	5475	5	7544	6
8	X8B561	6414	11	11121	1	8267	3	3533	10	4445	18	5730	10	11483	1	3373	14	5713	3	8045	2
9	Hy. 31Y45	6552	9	9782	5	7436	10	2008	23	5789	1	8022	1	9903	4	3557	9	5856	2	7584	5
10	JH 31204	5744	17	7251	20	6810	18	5277	2	5072	5	5697	12	7358	22	3767	7	5434	7	6617	12
11	JH 31403	7245	3	9584	6	6952	17	4033	6	4884	11	6502	4	8710	11	2961	23	5418	8	6638	11
12	KH-101-Gold	6163	14	7678	18	7063	15	3407	13	3799	25	6214	6	8535	13	3355	15	5062	15	6547	15
13	Sun - Vaaman	6632	7	10034	3	7937	5	2645	19	4993	9	6143	7	8775	10	3119	21	5135	14	7244	7
14	Sun - 306	6915	4	9532	7	7849	6	3956	7	5056	6	4604	18	9679	5	3221	17	5303	12	6498	16
15	KNMH-4010141	6336	12	8160	14	7312	11	2906	17	4728	14	4557	19	8561	12	3425	11	4836	18	6670	9
16	L210	5342	22	6069	24	5801	25	1437	25	4256	21	4068	20	6672	24	3145	20	3916	24	5244	24

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		MAND		COIM		ZN 4 MEAN		UDAI		BANS		GODH		CHHI		JHAB		ZN 5 MEAN		OV'L MEAN	
17	EH-2094	6823	6	8508	12	7128	14	7577	1	4738	13	5777	9	11172	2	2925	25	6438	1	6661	10
18	VEH-10-1	5718	18	8260	13	7000	16	3507	11	4517	15	5350	13	7553	19	3611	8	4907	17	6233	19
19	WH-2051	5700	19	5930	25	6266	24	2126	22	4013	24	2847	25	5584	25	2922	26	3498	25	5221	25
20	WH-2058	4092	24	5090	26	5089	26	2504	21	3599	26	2958	24	4551	26	3208	18	3364	26	4687	26
21	REH 2009-11	6625	8	8058	16	6416	23	4071	5	4780	12	5240	14	9350	7	3259	16	5340	10	6583	13
22	REH 2009-12	5390	21	8113	15	6577	20	3380	14	4952	10	5234	15	7428	21	3179	19	4834	19	6479	17
23	HKH - 317	-		6938	21	6799	19	3804	8	4067	23	3763	23	8324	15	3861	6	4764	20	5999	20
24	HKH - 318	-		6206	23	6488	21	2598	20	4157	22	1454	26	8786	9	2942	24	3988	23	5306	23
CHECKS																					
25	JH-3459	6128	15	7336	19	7197	12	3780	9	4261	20	5014	16	6776	23	3116	22	4589	22	5948	21
26	Prakash	5042	23	8014	17	6456	22	3466	12	5041	7	6461	5	7756	18	3381	13	5221	13	5947	22
	Location Mean	6206		8280		7264		3368		4681		5171		8377		3449		5009		6595	
	Mean Stand	34		30		34		32		30		30		36		31		32		32	
	C.D. (5%)	705		1321		1270		399		805		949		1200		399		751		1220	
	C.V. (%)	6.91		9.72		-		7.23		10.48		11.19		8.73		7.05		-		-	
	F (Prob)	0		0		-		0		0		0		0		0		-		-	
	Plot Size	5.6		4.8		-		4.8		4.8		4.8		6		4.8		-		-	
AGRONOMY DATA																					
	Sowing Date	13-07		20-07		-		3-07		9-07		7-07		29-06		7-07		-		-	
	Harvest Date	3-12		2-11		-		6-10		22-10		13-10		28-10		9-10		-		-	
	Irrigation Nos	6		9		-		-		1		-		-		-		-		-	
	Fertilizer Applied N	150		150		-		90		120		150		120		120		-		-	
	Fertilizer Applied P	75		75		-		60		40		50		60		60		-		-	
	Fertilizer Applied K	40		75		-		-		-		50		40		40		-		-	

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE JH-3459														
		ALMO	BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
1	KDMH 755	48.4	40.1	24.5	38.8	40.6	45.3	-	38.8	116	9.2	36.6	1	21.2	100.8	15.8
2	X7D610	73.4	53.7	97.5	58.4	65.5	43.1	-	73.7	96.6	-	32.7	49.3	50.1	103.4	49.6
3	X8F984	61.3	37.5	12.4	41.1	42.7	33.9	-	65.7	143.3	6.6	42.5	42	18.8	134.5	18.2
4	FH 3513	22.2	13	161.6	16.4	32.9	3.6	-	19.7	43.8	12.7	15.6	9.9	30.3	25.3	8.3
5	KMH-128	28.1	17.6	96.9	43.4	35.6	-	-	-	37.3	7.6	1.5	8.1	34.9	-	2.7
6	JKMH-7037	33.1	18.9	59.4	29.3	30.1	-	-	4.7	53.2	19.5	7.9	11.2	28.9	15.7	-
7	Hy. P 1635	49.4	-	128.4	65.2	44	30	-	50.3	91.2	18.3	35.9	21.9	-	136.6	20.2
8	X8B561	84.6	33.3	242.7	34.9	72	31.3	-	79.9	107	17.3	41.5	46.6	9.9	75.3	67.4
9	Hy. 31Y45	51.1	44.9	44.9	57.7	49.8	2.3	11.1	84	97.7	-	29.5	43.2	32	120.9	17.3
10	JH 31204	32.8	11	98.6	49.3	36.3	3	-	31.5	81.5	-	6	17.3	-	60.7	-
11	JH 31403	27.1	16.3	115.8	29.1	33.5	27.7	-	30.3	54.4	-	10.1	11.6	1	37.4	15.9
12	KH-101-Gold	38.2	16.2	125.2	31.3	38.4	15.7	10.4	9.1	78.7	-	9.2	-	10.8	40.7	4.5
13	Sun - Vaaman	37.6	28.6	191.1	60.2	56.7	17.5	-	27.8	77.4	-	20.1	32.1	2	43.6	15.3
14	Sun - 306	17.1	-	143.6	40.3	29.9	-	-	-	77.3	-	-	8.4	-	7.6	-
15	KNMH-4010141	30	36.2	178	11.2	43.9	21.6	-	15	83.2	-	10.8	13.8	1.7	14.9	17.7
16	L210	-	-	91.5	5.2	7.6	-	-	-	8.4	-	-	-	-	11.2	-
17	EH-2094	21.5	17.8	-	26.4	16.8	5.5	-	24.5	69.6	-	3.6	19	26.3	27.2	8
18	VEH-10-1	32.7	9.6	54.9	36.8	28	3	-	4.2	5.8	2	1.8	-	-	23.2	16.5
19	WH-2051	-	-	167.5	11.2	11.6	-	-	-	22.6	-	-	-	-	2.1	-
20	WH-2058	-	-	51.7	-	-	-	-	-	44.3	-	-	-	-	4.1	-
21	REH 2009-11	25.5	0.8	219.8	63.8	47.3	9.3	-	8	98.6	-	9.6	-	9.9	63.9	11.4
22	REH 2009-12	22.4	13.4	236.7	51.8	49.8	7.5	-	5.2	78.1	-	9	7.7	-	40.2	2.3
23	HKH - 317	26.3	23.8	47.3	55	34.6	21.2	-	5.8	57.7	-	-	-	14.1	6.7	3.5
24	HKH - 318	27.2	-	11.3	-	0.6	-	-	6.6	66.7	-	-	-	6.9	-	-
CHECKS																
25	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Prakash	11.4	16.2	1.5	-	5.2	11	7.2	18.6	26.1	-	0.9	-	-	4.4	0.7

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE JH-3459														OV'L MEAN	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
1	KDMH 755	5.1	26	79.4	-	-	18.9	12.7	28.1	21.2	14.4	17.3	13.9	23	11.4	17	27.7
2	X7D610	22.5	54.9	65.8	-	13.9	37.1	21.4	49.6	28.5	-	1.4	20.2	59.1	48	19.4	37.2
3	X8F984	3.9	53.6	-	-	2.5	5.6	-	36.2	3.8	-	35.3	44.2	40.3	9.3	18.5	27.8
4	FH 3513	-	8.8	36.8	-	-	3.3	0.7	17.8	6	31.3	21.7	-	10.5	26	15.8	14.4
5	KMH-128	-	-	4.8	19.5	11.7	-	25	22.6	11.4	-	25.9	-	15.6	34.6	7.3	10.3
6	JKMH-7037	-	4	16.9	-	15.8	-	5.3	-	-	-	4.6	-	14.8	24.2	0.8	7.1
7	Hy. P 1635	2.8	44.1	9.4	-	23.7	22.8	-	25.7	8.6	-	4.5	43.1	34.7	24.2	19.3	26.8
8	X8B561	10.1	43.4	26.5	-	-	36.2	4.7	51.6	14.9	-	4.3	14.3	69.5	8.3	24.5	35.3
9	Hy. 31Y45	19.5	55.2	-	-	8.2	-	6.9	33.4	3.3	-	35.9	60	46.2	14.1	27.6	27.5
10	JH 31204	-	21.3	-	-	20.8	1.3	-	-	-	39.6	19	13.6	8.6	20.9	18.4	11.2
11	JH 31403	4.8	15.9	-	-	13.2	-	18.2	30.6	-	6.7	14.6	29.7	28.5	-	18	11.6
12	KH-101-Gold	-	6.4	5.3	-	-	14.2	0.6	4.7	-	-	-	23.9	26	7.7	10.3	10.1
13	Sun - Vaaman	-	23.5	8.8	-	20.2	17.7	8.2	36.8	10.3	-	17.2	22.5	29.5	0.1	11.9	21.8
14	Sun - 306	-	0.5	-	-	1.2	17.7	12.8	29.9	9	4.7	18.6	-	42.8	3.4	15.6	9.2
15	KNMH-4010141	1.6	10.7	7.4	-	-	18.6	3.4	11.2	1.6	-	11	-	26.3	9.9	5.4	12.1
16	L210	-	-	-	-	1.4	-	-	-	-	-	-	-	-	0.9	-	-
17	EH-2094	-	15.7	13.8	-	-	-	11.3	16	-	100.5	11.2	15.2	64.9	-	40.3	12
18	VEH-10-1	-	-	-	-	22.4	3.9	-	12.6	-	-	6	6.7	11.5	15.9	6.9	4.8
19	WH-2051	-	-	-	6.6	-	-	-	-	-	-	-	-	-	-	-	-
20	WH-2058	-	-	-	-	-	-	-	-	-	-	-	-	-	2.9	-	-
21	REH 2009-11	-	12.4	-	-	-	-	8.1	9.8	-	7.7	12.2	4.5	38	4.6	16.4	10.7
22	REH 2009-12	-	7.4	-	0.8	-	-	-	10.6	-	-	16.2	4.4	9.6	2	5.3	8.9
23	HKH - 317	-	-	28	-	-	-	-	-	-	0.6	-	-	22.8	23.9	3.8	0.9
24	HKH - 318	-	-	26.2	-	4.6	-	-	-	-	-	-	-	29.7	-	-	-
CHECKS																	
25	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
26	Prakash	6.2	-	-	-	-	-	-	9.3	-	-	18.3	28.9	14.5	8.5	13.8	-

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash														
		ALMO	BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC
1	KDMH 755	33.3	20.6	22.6	67.3	33.6	30.9	-	17.1	71.3	62.1	35.3	9	30.8	92.3	15
2	X7D610	55.7	32.2	94.5	90.9	57.3	29	-	46.5	55.9	39	31.4	61.1	61.9	94.8	48.6
3	X8F984	44.9	18.3	10.7	70	35.7	20.6	-	39.8	93	58.4	41.2	53.1	28.1	124.6	17.4
4	FH 3513	9.7	-	157.6	40.3	26.3	-	-	1	14.1	67.4	14.5	18.5	40.6	20	7.5
5	KMH-128	15	1.2	93.9	72.8	28.9	-	-	-	8.9	59.8	0.5	16.6	45.5	-	1.9
6	JKMH-7037	19.5	2.3	57	55.8	23.6	-	-	-	21.5	77.5	6.9	20	39	10.8	-
7	Hy. P 1635	34.2	-	124.9	99	36.9	17.1	-	26.8	51.7	75.7	34.6	31.4	-	126.6	19.4
8	X8B561	65.7	14.7	237.5	62.5	63.5	18.3	-	51.7	64.2	74.3	40.2	58.1	18.5	67.8	66.3
9	Hy. 31Y45	35.7	24.7	42.7	90	42.4	-	3.7	55.2	56.8	19.9	28.3	54.4	42.3	111.6	16.5
10	JH 31204	19.3	-	95.5	79.9	29.6	-	-	10.9	44	-	5	26.5	-	53.9	-
11	JH 31403	14.1	0.1	112.5	55.6	26.9	15.1	-	9.9	22.5	3.4	9.1	20.4	9	31.6	15.1
12	KH-101-Gold	24.1	-	121.7	58.2	31.5	4.3	3	-	41.7	1.1	8.1	2.5	19.5	34.8	3.8
13	Sun - Vaaman	23.6	10.7	186.7	93	49	5.9	-	7.8	40.7	45	19	42.5	10.1	37.5	14.5
14	Sun - 306	5.2	-	139.8	69	23.4	-	-	-	40.6	8.2	-	16.9	-	3	-
15	KNMH-4010141	16.7	17.2	173.7	34	36.8	9.6	-	-	45.3	8.5	9.7	22.8	9.7	10	16.9
16	L210	-	-	88.6	26.7	2.3	-	-	-	-	24.2	-	-	-	6.5	-
17	EH-2094	9.1	1.4	-	52.3	11	-	-	5	34.5	5.6	2.7	28.4	36.2	21.8	7.2
18	VEH-10-1	19.1	-	52.5	64.9	21.7	-	-	-	-	51.6	0.9	5	-	17.9	15.7
19	WH-2051	-	-	163.4	34	6.1	-	-	-	-	8.5	-	-	-	-	-
20	WH-2058	-	-	49.4	-	-	-	-	-	14.5	7.8	-	-	-	-	-
21	REH 2009-11	12.7	-	214.9	97.3	40	-	-	-	57.5	12.5	8.6	2.1	18.5	56.9	10.6
22	REH 2009-12	9.9	-	231.5	82.9	42.4	-	-	-	41.3	24.9	8	16.2	-	34.2	1.6
23	HKH - 317	13.4	6.5	45	86.7	27.9	9.2	-	-	25.1	-	-	-	23.1	2.2	2.7
24	HKH - 318	14.3	-	9.6	-	-	-	-	-	32.3	16.3	-	-	15.3	-	-
	CHECKS															
25	JH-3459	-	-	-	20.5	-	-	-	-	-	48.5	-	7.8	7.8	-	-
26	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 3 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash														OV'L MEAN	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
1	KDMH 755	-	27	109.8	0.5	6.5	48.1	37	17.3	35.1	24.7	-	-	7.5	2.7	2.8	27.7
2	X7D610	15.3	56	93.9	-	23.8	70.7	47.6	37	43.2	-	-	-	39	36.4	4.9	37.2
3	X8F984	-	54.8	-	10.5	11.4	31.6	12.7	24.7	15.8	-	14.4	11.9	22.5	0.7	4.1	27.8
4	FH 3513	-	9.6	59.9	-	-	28.6	22.3	7.8	18.1	43.2	2.9	-	-	16.1	1.8	14.4
5	KMH-128	-	-	22.5	32.4	21.4	14	51.9	12.2	24.2	-	6.5	-	1	24.1	-	10.4
6	JKMH-7037	-	4.7	36.7	-	25.9	23.3	28	-	11.4	-	-	-	0.3	14.5	-	7.1
7	Hy. P 1635	-	45.2	27.9	-	34.5	53	14.4	15	21.1	-	-	11	17.7	14.5	4.9	26.9
8	X8B561	3.7	44.5	47.9	-	7.2	69.7	27.2	38.8	28.1	1.9	-	-	48.1	-	9.4	35.3
9	Hy. 31Y45	12.5	56.4	8.9	-	17.6	16.6	29.9	22.1	15.2	-	14.8	24.2	27.7	5.2	12.2	27.5
10	JH 31204	-	22.2	-	-	31.3	26.2	13.9	-	5.5	52.2	0.6	-	-	11.4	4.1	11.3
11	JH 31403	-	16.8	-	-	23	22.2	43.7	19.6	7.7	16.4	-	0.6	12.3	-	3.8	11.6
12	KH-101-Gold	-	7.2	23.1	-	0.9	42.3	22.2	-	9.4	-	-	-	10	-	-	10.1
13	Sun - Vaaman	-	24.4	27.2	-	30.7	46.6	31.5	25.2	23	-	-	-	13.1	-	-	21.8
14	Sun - 306	-	1.3	8.3	6.6	10	46.6	37.1	18.9	21.6	14.1	0.3	-	24.8	-	1.6	9.3
15	KNMH-4010141	-	11.5	25.6	-	8.4	47.8	25.6	1.8	13.3	-	-	-	10.4	1.3	-	12.2
16	L210	-	-	-	-	10.2	6.9	5.9	-	-	-	-	-	-	-	-	-
17	EH-2094	-	16.6	33.1	-	-	20.7	35.3	6.2	10.4	118.6	-	-	44	-	23.3	12
18	VEH-10-1	-	-	-	-	33	29.4	13.4	3.1	8.4	1.2	-	-	-	6.8	-	4.8
19	WH-2051	-	-	-	18	-	0.7	13	-	-	-	-	-	-	-	-	-
20	WH-2058	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
21	REH 2009-11	-	13.2	13.6	-	-	-	31.4	0.5	-	17.5	-	-	20.6	-	2.3	10.7
22	REH 2009-12	-	8.3	14.8	11.6	-	-	6.9	1.2	1.9	-	-	-	-	-	-	9
23	HKH - 317	-	-	49.6	1.9	-	-	-	-	5.3	9.8	-	-	7.3	14.2	-	0.9
24	HKH - 318	-	-	47.5	-	13.7	-	-	-	0.5	-	-	-	13.3	-	-	-
	CHECKS																
25	JH-3459	-	0.8	16.9	10.8	8.7	24.6	21.5	-	11.5	9	-	-	-	-	-	0
26	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No.3 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING														
		ALMO	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
1	KDMH 755	60.7	65.0	53.0	64.7	60.8	56.7	51.7	51.7	57.3	53.0	54.1	53.0	53.7	55.0	54.0
2	X7D610	58.7	62.3	54.0	59.3	58.6	53.7	52.0	51.7	58.3	56.0	54.3	50.7	54.3	53.7	54.0
3	X8F984	57.3	60.3	54.0	57.7	57.3	52.7	52.3	48.3	56.7	53.7	52.7	51.7	49.3	50.7	52.3
4	FH 3513	56.7	59.7	51.0	63.3	57.7	50.3	53.7	48.3	55.3	54.3	52.4	50.7	48.0	51.3	51.0
5	KMH-128	54.3	60.3	51.0	51.3	54.3	51.0	52.7	45.7	54.0	55.7	51.8	48.3	48.3	51.0	50.0
6	JKMH-7037	57.7	60.0	53.0	54.3	56.3	51.0	51.0	49.0	55.7	54.0	52.1	51.7	48.0	50.3	51.7
7	Hy. P 1635	57.7	61.3	53.0	54.7	56.7	50.0	52.3	47.7	54.3	54.7	51.8	50.7	50.0	49.3	53.0
8	X8B561	58.0	61.0	54.0	59.0	58.0	54.3	50.0	52.0	56.7	53.0	53.2	51.0	54.3	54.7	52.3
9	Hy. 31Y45	58.7	61.0	54.0	63.7	59.3	54.7	50.3	50.3	58.0	47.0	52.1	50.7	53.3	51.7	52.7
10	JH 31204	54.7	60.0	52.0	51.7	54.6	50.5	52.0	47.3	53.0	51.0	50.8	51.3	49.7	52.7	50.3
11	JH 31403	57.3	61.3	53.0	56.7	57.1	50.0	53.3	46.7	54.3	47.0	50.3	50.3	49.3	49.7	51.0
12	KH-101-Gold	58.3	62.7	53.0	63.3	59.3	52.0	50.7	49.3	56.3	47.0	51.1	51.3	50.0	53.3	53.3
13	Sun - Vaaman	56.3	61.3	55.0	57.7	57.6	54.0	51.7	50.7	57.0	50.0	52.7	49.7	52.0	55.0	53.0
14	Sun - 306	54.7	59.7	55.0	50.7	55.0	52.3	53.0	48.0	55.0	46.0	50.9	48.3	49.3	52.7	52.3
15	KNMH-4010141	59.7	62.7	53.0	60.0	58.8	56.7	52.7	54.0	58.7	52.0	54.8	52.3	54.7	59.3	53.7
16	L210	57.7	61.0	53.0	58.7	57.6	51.7	51.7	48.3	55.7	49.0	51.3	50.7	48.7	50.7	50.0
17	EH-2094	61.3	64.3	53.0	59.7	59.6	55.3	53.0	52.7	59.0	51.0	54.2	53.3	55.3	57.0	54.7
18	VEH-10-1	57.7	61.3	55.0	55.7	57.4	52.3	51.7	49.3	56.0	47.3	51.3	52.7	51.3	53.3	50.7
19	WH-2051	56.7	59.7	52.0	51.7	55.0	50.7	54.0	47.7	55.0	51.0	51.7	47.7	48.7	51.0	50.3
20	WH-2058	54.0	59.3	51.0	50.7	53.8	50.0	52.3	46.0	55.0	45.0	49.7	49.7	50.0	50.3	49.7
21	REH 2009-11	58.0	63.3	55.0	58.3	58.7	53.3	51.0	51.0	58.3	53.0	53.3	51.3	52.3	53.3	53.0
22	REH 2009-12	57.3	62.3	55.0	51.3	56.5	53.0	51.7	49.7	57.7	50.0	52.4	51.7	52.3	52.7	51.7
23	HKH - 317	59.7	60.3	55.0	53.3	57.1	53.0	52.3	48.0	58.0	45.0	51.3	49.3	55.0	52.3	53.0
24	HKH - 318	60.3	62.3	55.0	53.7	57.8	56.0	51.3	51.0	53.0	49.0	52.1	51.7	52.0	54.3	55.7
CHECKS																
25	JH-3459	55.3	60.3	51.0	56.7	55.8	50.7	51.7	47.0	54.0	52.0	51.1	52.0	53.0	50.0	49.7
26	Prakash	54.3	60.0	53.0	51.7	54.8	50.0	56.0	45.3	52.3	50.0	50.7	47.7	50.0	52.7	49.3
	Loc. Mean	57.4	61.3	53.3	56.5	57.1	52.5	52.2	49.1	55.9	50.6	52.1	50.7	51.3	52.6	52.0
	C.D. (5%)	1.44	2.01	0.00	1.30	3.04	1.75	3.29	1.71	2.51	1.32	2.58	1.06	3.45	1.78	1.55
	C.V. (%)	1.53	2.00	0.00	1.40	3.78	2.04	3.84	2.13	2.74	1.59	3.95	1.27	4.10	2.07	1.82
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00

Table No.3 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING														OV'L Mean	
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 Mean
1	KDMH 755	55.7	54.3	59.7	54.3	55.3	65.7	54.3	53.7	57.2	56.7	39.3	51.3	52.3	53.0	50.5	55.2
2	X7D610	55.7	53.7	60.0	50.7	54.3	63.0	53.0	54.3	55.9	55.3	41.0	51.0	51.0	53.7	50.4	54.5
3	X8F984	54.3	51.7	59.0	53.7	53.0	65.3	52.3	52.3	55.9	54.0	40.0	49.0	51.0	52.0	49.2	53.3
4	FH 3513	51.0	50.4	56.0	53.3	54.0	59.3	49.7	49.7	53.7	53.7	41.0	48.0	48.0	49.0	47.9	52.3
5	KMH-128	50.7	49.7	55.7	52.0	54.7	61.3	48.3	48.7	53.4	51.7	41.0	47.0	49.3	47.3	47.3	51.3
6	JKMH-7037	52.3	50.8	55.0	50.7	53.7	62.3	50.3	49.7	53.6	53.0	40.3	48.3	47.7	49.0	47.7	52.0
7	Hy. P 1635	50.3	50.7	55.3	51.7	54.7	58.0	50.7	49.3	53.3	53.3	39.0	46.3	50.3	47.7	47.3	51.8
8	X8B561	53.7	53.2	59.0	52.0	54.3	65.7	53.7	52.3	56.2	53.3	41.7	50.3	50.7	51.0	49.4	53.9
9	Hy. 31Y45	55.3	52.7	60.0	54.0	55.7	62.0	54.0	53.3	56.5	54.3	40.3	50.7	50.7	54.0	50.0	54.0
10	JH 31204	50.3	50.9	57.0	51.0	54.3	59.0	51.0	49.7	53.7	52.3	41.7	47.0	47.3	49.0	47.5	51.4
11	JH 31403	50.7	50.2	57.0	52.0	53.3	60.7	52.3	53.0	54.7	52.7	40.5	46.7	51.0	51.0	48.4	52.0
12	KH-101-Gold	52.3	52.1	58.0	52.3	55.0	61.0	53.0	54.0	55.6	52.7	39.7	48.3	51.0	53.3	49.0	53.3
13	Sun - Vaaman	52.7	52.5	56.7	50.3	53.3	58.0	51.0	50.3	53.3	54.3	41.7	48.7	50.7	49.7	49.0	52.8
14	Sun - 306	51.0	50.7	56.7	51.7	53.3	61.3	51.0	50.7	54.1	52.3	40.7	48.0	51.0	54.0	49.2	51.9
15	KNMH-4010141	55.7	55.1	60.3	51.3	53.7	63.7	55.3	56.3	56.8	53.3	41.0	52.7	54.3	53.7	51.0	55.2
16	L210	50.0	50.0	56.3	52.3	54.0	60.0	49.3	50.0	53.7	54.3	42.7	46.3	50.7	48.0	48.4	52.0
17	EH-2094	55.3	55.1	59.7	51.0	53.3	64.7	50.3	54.7	55.6	50.3	41.0	51.3	53.0	53.7	49.9	54.7
18	VEH-10-1	52.0	52.0	59.7	50.3	53.3	61.3	51.0	53.3	54.8	53.3	40.0	48.7	51.3	49.7	48.6	52.7
19	WH-2051	49.7	49.5	56.0	51.7	55.0	57.3	49.0	49.7	53.1	52.7	40.0	46.7	50.3	49.3	47.8	51.3
20	WH-2058	49.0	49.7	54.7	50.0	54.0	57.0	47.0	47.3	51.7	52.3	40.0	44.0	50.0	50.0	47.3	50.3
21	REH 2009-11	54.3	52.9	57.7	50.7	55.7	-	52.3	52.0	53.7	53.3	40.7	50.3	53.7	49.0	49.4	53.4
22	REH 2009-12	52.0	52.1	58.0	48.0	55.7	-	51.7	51.7	53.0	53.7	41.0	48.0	51.0	49.7	48.7	52.4
23	HKH - 317	53.0	52.5	56.7	48.0	56.0	-	-	54.0	53.7	55.7	43.3	48.0	51.7	50.3	49.8	52.7
24	HKH - 318	57.0	54.1	56.3	49.0	55.3	-	-	54.3	53.8	55.7	41.3	50.7	55.0	48.0	50.1	53.4
CHECKS																	
25	JH-3459	51.0	51.1	54.7	50.3	54.3	60.0	50.3	50.7	53.4	52.0	40.0	47.7	49.7	48.7	47.6	51.7
26	Prakash	49.3	49.8	53.7	50.7	53.3	58.0	50.3	49.3	52.6	52.0	39.0	46.3	47.0	49.3	46.7	50.8
	Loc. Mean	52.5	51.8	57.3	51.3	54.3	61.1	51.3	51.7	54.3	53.4	40.7	48.5	50.8	50.5	48.8	52.7
	C.D. (5%)	1.88	1.68	1.51	1.77	1.32	3.52	2.69	0.98	2.17	0.84	1.27	1.85	1.64	2.28	1.86	1.00
	C.V. (%)	2.19	2.59	1.61	2.10	1.49	4.15	3.46	1.16	3.50	0.96	1.90	2.32	1.97	2.75	3.05	3.42
	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. 3 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED				ZN 1					ZN 2					
		ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	VARA	RANC
1	KDMH 755	60.0	62.0	52.0	60.7	58.7	54.3	49.7	51.3	53.0	48.7	51.4	51.0	53.0	52.0	50.0
2	X7D610	57.7	59.3	53.0	55.3	56.3	52.3	49.7	51.3	54.7	51.0	51.8	48.3	52.7	50.0	50.0
3	X8F984	56.7	57.0	53.0	54.7	55.3	51.7	50.3	48.3	52.7	48.7	50.3	49.7	48.0	48.0	49.0
4	FH 3513	56.3	57.0	50.0	59.3	55.7	48.7	51.0	47.7	51.0	49.7	49.6	48.7	46.7	47.3	47.7
5	KMH-128	53.0	56.3	50.0	48.3	51.9	49.0	50.7	44.7	49.0	51.0	48.9	46.3	47.3	45.7	46.0
6	JKMH-7037	57.0	56.7	52.0	50.7	54.1	49.3	48.7	47.7	52.0	49.3	49.4	49.7	46.7	47.0	47.7
7	Hy. P 1635	56.7	57.7	52.0	50.7	54.3	49.0	50.0	47.3	50.0	49.7	49.2	48.7	47.7	46.7	49.0
8	X8B561	57.3	57.7	53.0	54.7	55.7	52.7	47.7	51.0	52.7	48.3	50.5	49.0	52.3	51.0	49.0
9	Hy. 31Y45	58.7	57.7	54.0	59.7	57.5	53.7	48.0	49.7	54.0	43.0	49.7	48.7	52.0	49.0	49.3
10	JH 31204	54.0	57.0	52.0	48.7	52.9	48.5	50.0	46.3	47.7	47.0	47.9	49.3	48.0	46.7	46.3
11	JH 31403	56.3	58.0	52.0	52.7	54.8	48.0	51.0	46.0	50.0	42.0	47.4	48.7	47.7	46.0	47.0
12	KH-101-Gold	57.0	59.7	52.0	59.3	57.0	49.3	48.3	48.3	52.0	42.0	48.0	49.3	49.0	48.3	49.3
13	Sun - Vaaman	55.3	58.0	54.0	54.7	55.5	52.5	49.7	49.7	53.0	44.0	49.8	47.7	50.3	50.3	45.7
14	Sun - 306	53.3	56.3	54.0	47.0	52.7	50.7	51.0	47.0	50.7	42.0	48.3	46.7	47.3	48.0	48.3
15	KNMH-4010141	58.7	60.3	52.0	57.0	57.0	54.7	50.3	53.7	54.7	48.0	52.3	50.3	54.0	54.3	49.7
16	L210	56.0	57.3	52.0	54.7	55.0	49.7	49.3	47.3	51.0	45.0	48.5	48.7	47.3	45.0	46.0
17	EH-2094	60.0	61.3	52.0	56.7	57.5	53.7	50.7	52.0	54.7	47.0	51.6	51.3	53.7	53.0	50.7
18	VEH-10-1	56.7	58.3	54.0	51.7	55.2	50.7	49.0	48.3	51.0	42.0	48.2	50.7	49.7	48.7	46.7
19	WH-2051	55.3	56.3	51.0	48.7	52.8	49.0	52.0	46.7	50.7	47.0	49.1	45.7	47.7	46.7	46.3
20	WH-2058	53.0	56.0	50.0	47.7	51.7	48.3	50.0	45.0	49.7	41.0	46.8	47.7	49.0	44.7	45.3
21	REH 2009-11	57.3	60.0	54.0	54.7	56.5	51.7	48.7	50.3	54.3	48.0	50.6	49.3	50.7	49.7	49.0
22	REH 2009-12	56.7	59.0	54.0	48.3	54.5	51.3	49.3	48.7	53.7	44.0	49.4	49.7	51.0	47.3	47.7
23	HKH - 317	58.0	56.7	54.0	50.3	54.8	51.3	50.0	48.3	54.0	41.0	48.9	47.3	53.7	48.0	49.0
24	HKH - 318	59.3	59.7	54.0	48.7	55.4	54.0	48.3	50.0	51.0	45.0	49.7	49.7	51.3	50.0	51.7
	CHECKS															
25	JH-3459	54.7	56.3	50.0	52.7	53.4	49.7	49.7	46.0	49.7	48.0	48.6	50.3	50.7	46.7	45.7
26	Prakash	53.3	56.3	52.0	48.7	52.6	48.3	54.0	45.3	47.7	45.0	48.1	45.7	48.0	48.3	45.3
	Loc. Mean	56.5	58.0	52.4	52.9	54.9	50.8	49.9	48.4	51.7	46.1	49.4	48.8	49.8	48.4	48.0
	C.D. (5%)	1.58	2.03	-	1.29	2.91	1.62	3.46	1.54	2.60	1.37	2.56	1.03	2.74	1.50	2.39
	C.V. (%)	1.70	2.13	-	1.49	3.76	1.94	4.23	1.93	3.07	1.81	4.13	1.29	3.35	1.89	3.03
	F (Prob.)	0.00	0.00	-	0.00	0.00	0.00	0.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED											ZN 5 Mean	OV'L Mean		
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS			GODH	CHHI
1	KDMH 755	53.0	51.8	58.3	53.0	52.3	64.7	52.3	51.7	55.4	54.3	36.0	50.3	51.7	48.1	53.1
2	X7D610	52.7	50.7	59.3	50.0	51.3	62.0	51.7	52.3	54.4	52.7	37.3	49.7	51.7	47.8	52.3
3	X8F984	51.7	49.3	58.0	51.7	50.0	64.3	51.3	49.7	54.2	51.7	36.3	48.0	51.0	46.8	51.3
4	FH 3513	48.0	47.7	54.0	51.0	51.3	58.3	48.7	47.7	51.8	51.7	38.0	47.0	47.3	46.0	50.2
5	KMH-128	47.7	46.6	53.3	49.0	51.7	60.3	47.0	46.7	51.3	50.0	37.7	47.7	47.3	45.7	49.0
6	JKMH-7037	49.3	48.1	54.0	49.0	50.0	61.3	48.7	47.7	51.8	51.7	36.7	47.0	48.3	45.9	49.9
7	Hy. P 1635	47.3	47.9	52.7	49.0	52.0	57.0	49.0	47.3	51.2	51.7	35.7	45.3	50.3	45.8	49.7
8	X8B561	50.7	50.4	58.0	50.3	51.3	64.7	52.3	50.3	54.5	51.7	38.3	49.0	50.7	47.4	51.8
9	Hy. 31Y45	53.0	50.4	58.7	51.3	52.7	61.0	52.7	51.3	54.6	52.7	36.3	49.7	50.7	47.3	52.0
10	JH 31204	47.3	47.5	55.0	48.3	51.7	58.0	49.7	47.7	51.7	51.0	37.7	46.0	47.7	45.6	49.2
11	JH 31403	48.7	47.6	56.0	49.3	51.0	59.7	49.7	51.0	52.8	51.0	36.7	45.7	50.7	46.0	49.8
12	KH-101-Gold	49.7	49.1	57.3	49.3	52.7	60.0	51.0	52.0	53.7	51.7	36.3	47.3	51.0	46.6	50.9
13	Sun - Vaaman	49.7	48.7	55.0	47.7	50.7	57.0	49.7	48.3	51.4	52.3	38.7	47.7	50.7	47.3	50.5
14	Sun - 306	48.3	47.7	55.3	49.3	50.3	60.3	49.0	48.7	52.2	50.3	37.3	47.0	51.0	46.4	49.6
15	KNMH-4010141	53.0	52.3	58.7	49.0	51.0	62.7	54.3	54.3	55.0	52.0	38.0	51.0	53.7	48.7	53.1
16	L210	47.0	46.8	55.0	49.0	51.0	59.0	48.0	48.0	51.7	51.7	39.7	45.0	50.7	46.8	49.7
17	EH-2094	52.3	52.2	58.3	48.7	51.0	63.7	49.0	52.7	53.9	48.7	37.7	49.7	52.0	47.0	52.5
18	VEH-10-1	49.0	48.9	58.3	47.7	50.7	60.3	50.0	51.3	53.1	51.3	33.7	47.3	51.0	45.8	50.3
19	WH-2051	46.7	46.6	54.0	48.3	52.7	56.3	47.7	47.7	51.1	51.3	36.3	45.0	49.3	45.5	49.1
20	WH-2058	46.0	46.5	52.0	47.3	51.0	56.0	46.7	45.3	49.7	51.0	36.7	42.7	49.0	44.8	48.0
21	REH 2009-11	51.3	50.0	57.7	49.7	53.0	-	50.7	49.7	52.1	50.7	37.7	48.3	51.7	47.1	51.2
22	REH 2009-12	49.0	48.9	57.0	46.7	53.0	-	50.3	49.3	51.3	52.0	37.7	47.0	51.0	46.9	50.2
23	HKH - 317	50.0	49.6	55.7	47.0	53.7	-	-	52.0	52.1	54.3	40.0	47.0	51.7	48.3	50.6
24	HKH - 318	53.7	51.3	55.3	46.0	52.3	-	-	51.7	51.3	52.3	38.0	49.0	54.3	48.4	51.2
CHECKS																
25	JH-3459	48.0	48.3	53.7	43.0	51.3	59.0	48.3	48.7	50.7	50.0	37.0	46.3	49.7	45.8	49.4
26	Prakash	46.7	46.8	52.7	49.0	50.3	57.0	48.7	47.3	50.8	50.7	36.0	45.3	47.0	44.8	48.7
	Loc. Mean	49.6	48.9	55.9	48.8	51.5	60.1	49.9	49.6	52.5	51.6	37.2	47.3	50.4	46.6	50.5
	C.D. (5%)	1.84	1.62	1.76	2.29	1.14	3.52	2.58	0.95	2.29	0.93	1.56	1.95	1.55	1.91	1.03
	C.V. (%)	2.26	2.64	1.92	2.86	1.35	4.22	3.41	1.16	3.82	1.10	2.56	2.52	1.87	2.91	3.61
	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)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK															
		ALMO	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1	KDMH 755	106.0	98.7	96.0	98.3	99.8	101.0	85.0	80.3	84.7	87.8	84.7	87.0	85.7	93.3	85.3	87.2
2	X7D610	105.0	96.0	96.0	95.3	98.1	100.3	86.7	81.3	89.0	89.3	86.7	88.7	86.0	95.3	85.0	88.3
3	X8F984	101.3	95.0	96.0	91.3	95.9	98.0	85.7	77.7	85.3	86.7	83.3	75.3	82.3	94.7	77.3	82.6
4	FH 3513	97.3	94.3	92.0	90.3	93.5	97.0	85.3	77.3	87.0	86.7	82.3	81.7	82.7	94.3	83.0	84.8
5	KMH-128	100.0	93.7	92.0	89.7	93.8	100.0	84.3	76.3	87.7	87.1	85.3	85.3	80.0	93.0	82.3	85.2
6	JKMH-7037	99.3	93.0	94.0	90.7	94.3	96.3	85.0	78.3	87.7	86.8	80.3	81.0	78.3	95.0	80.0	82.9
7	Hy. P 1635	97.0	91.3	94.0	88.3	92.7	97.7	84.7	77.7	86.7	86.7	80.3	80.3	76.0	94.3	79.0	82.0
8	X8B561	104.0	91.3	94.0	95.3	96.2	99.7	85.3	81.7	84.3	87.8	84.3	87.3	86.0	94.7	84.0	87.3
9	Hy. 31Y45	105.7	96.3	96.0	94.0	98.0	96.0	85.3	79.0	73.0	83.3	85.0	87.7	83.0	96.0	86.3	87.6
10	JH 31204	98.3	91.0	93.0	88.3	92.7	99.5	85.3	78.0	73.0	84.0	81.7	82.7	82.3	92.7	80.3	83.9
11	JH 31403	100.0	91.7	93.0	91.3	94.0	100.7	85.3	78.0	74.0	84.5	85.3	86.0	83.0	94.0	80.3	85.7
12	KH-101-Gold	105.0	96.7	93.0	98.7	98.3	99.7	85.0	79.7	74.7	84.7	85.0	84.0	85.3	94.0	86.3	86.9
13	Sun - Vaaman	99.3	94.0	98.0	97.7	97.3	100.5	85.7	80.0	73.7	85.0	83.7	85.7	84.7	94.7	83.0	86.3
14	Sun - 306	99.3	91.7	98.0	90.7	94.9	102.3	86.0	78.0	73.0	84.8	84.3	83.3	82.0	94.3	80.0	84.8
15	KNMH-4010141	104.7	94.3	94.0	93.7	96.7	101.7	86.0	82.3	75.7	86.4	87.0	85.7	88.0	95.0	84.3	88.0
16	L210	100.7	92.7	94.0	87.7	93.8	99.0	84.3	77.7	70.0	82.8	81.3	82.3	84.7	93.0	79.0	84.1
17	EH-2094	105.7	97.7	94.0	95.3	98.2	101.3	87.0	82.0	77.0	86.8	85.0	86.0	86.7	95.0	83.7	87.3
18	VEH-10-1	101.3	93.3	98.0	91.0	95.9	99.7	85.3	78.7	77.0	85.2	84.7	85.0	85.7	95.0	82.3	86.5
19	WH-2051	100.0	92.3	92.0	94.0	94.6	100.0	85.3	77.7	78.0	85.3	81.0	81.7	81.0	93.3	77.7	82.9
20	WH-2058	97.3	91.0	92.0	88.3	92.2	96.3	85.0	76.3	74.3	83.0	79.3	73.3	80.7	92.3	78.0	80.7
21	REH 2009-11	105.0	97.0	96.0	91.3	97.3	100.7	85.7	80.3	70.0	84.2	82.7	85.7	84.7	95.0	86.7	86.9
22	REH 2009-12	103.0	99.3	96.0	91.3	97.4	101.3	86.3	79.3	73.7	85.2	81.0	85.3	85.0	94.3	86.7	86.5
23	HKH - 317	106.7	95.3	98.0	90.3	97.6	101.3	85.0	79.3	72.0	84.4	85.0	89.7	83.3	96.7	88.7	88.7
24	HKH - 318	110.0	99.3	97.0	91.7	99.5	101.0	87.7	82.0	71.0	85.4	85.0	87.7	86.7	96.3	88.7	88.9
CHECKS																	
25	JH-3459	99.3	91.7	92.0	91.0	93.5	102.3	86.0	78.0	75.3	85.4	84.7	84.0	81.0	92.7	86.0	85.7
26	Prakash	98.0	94.7	92.0	92.0	94.2	100.3	85.7	76.7	76.0	84.7	81.3	82.7	84.3	94.0	81.0	84.7
	Loc. Mean	101.9	94.4	94.6	92.2	95.8	99.8	85.5	79.0	77.8	85.5	83.5	84.0	83.4	94.3	82.9	85.6
	C.D. (5%)	1.90	4.66	0.56	2.31	2.97	2.81	2.60	2.08	1.95	4.92	1.28	9.04	1.99	1.57	0.88	2.46
	C.V. (%)	1.14	3.01	0.36	1.53	2.20	1.72	1.85	1.61	1.53	4.08	0.94	6.56	1.46	1.01	0.65	2.29
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.83	0.00	0.00	0.70	0.00	0.16	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK										ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	KDMH 755	81.0	83.7	73.3	94.0	98.0	95.7	87.6	86.3	70.7	79.7	87.0	80.9	88.5
2	X7D610	81.3	84.3	70.0	91.3	99.0	96.7	87.1	82.7	72.7	80.7	87.7	80.9	88.6
3	X8F984	80.3	83.7	71.0	94.3	96.7	94.0	86.7	82.3	69.7	78.7	87.0	79.4	86.1
4	FH 3513	78.7	82.7	70.7	88.3	87.0	89.3	82.8	86.7	71.3	78.0	84.0	80.0	85.3
5	KMH-128	78.0	89.3	74.7	90.0	93.0	87.3	85.4	87.7	72.7	78.3	87.0	81.4	86.4
6	JKMH-7037	76.7	87.0	71.0	91.3	90.0	89.3	84.2	81.3	71.3	78.7	83.7	78.8	85.2
7	Hy. P 1635	76.7	84.0	70.3	87.0	92.0	88.7	83.1	80.3	70.7	77.3	80.0	77.1	84.1
8	X8B561	79.3	84.7	72.3	93.7	98.3	94.3	87.1	85.3	72.3	79.7	87.3	81.2	87.8
9	Hy. 31Y45	79.7	86.7	69.3	91.0	98.0	95.3	86.7	80.3	69.0	79.3	87.7	79.1	86.9
10	JH 31204	77.3	85.3	71.3	88.0	87.7	89.3	83.2	84.3	72.7	77.7	82.3	79.3	84.4
11	JH 31403	77.3	85.7	71.0	89.7	93.0	95.3	85.3	84.3	71.7	78.0	86.7	80.2	85.9
12	KH-101-Gold	78.3	85.3	71.3	89.7	99.3	95.7	86.6	87.7	70.7	79.0	87.7	81.2	87.5
13	Sun - Vaaman	77.3	82.7	71.7	87.0	93.0	90.0	83.6	81.7	72.7	78.7	86.0	79.7	86.1
14	Sun - 306	77.3	84.0	72.7	90.0	94.3	90.0	84.7	85.0	71.0	78.0	85.7	79.9	85.7
15	KNMH-4010141	80.3	83.3	72.0	91.7	95.3	99.3	87.0	90.7	72.7	80.7	87.7	82.9	88.1
16	L210	77.0	86.0	70.3	89.0	89.0	90.0	83.6	81.7	74.3	77.3	84.7	79.5	84.6
17	EH-2094	79.7	83.3	74.7	93.0	96.3	97.3	87.4	81.7	71.0	80.0	87.7	80.1	87.9
18	VEH-10-1	79.7	84.7	71.0	90.0	93.7	95.7	85.8	81.7	70.3	79.0	88.3	79.8	86.6
19	WH-2051	76.7	85.7	70.3	86.3	89.0	89.3	82.9	82.7	71.0	77.7	85.0	79.1	84.7
20	WH-2058	75.3	83.0	72.3	87.0	91.3	86.7	82.6	80.3	70.3	76.3	83.3	77.6	83.1
21	REH 2009-11	78.0	85.0	74.7	-	92.7	93.0	84.7	88.7	71.3	79.3	88.0	81.8	86.9
22	REH 2009-12	78.3	81.7	71.0	-	95.0	92.3	83.7	84.7	72.3	78.0	87.0	80.5	86.5
23	HKH - 317	77.0	80.3	70.3	-	-	95.7	80.8	86.3	75.0	78.3	89.0	82.2	86.8
24	HKH - 318	76.7	83.3	72.7	-	-	97.0	82.4	86.3	73.0	81.3	90.3	82.8	87.8
CHECKS														
25	JH-3459	75.3	83.3	72.0	89.0	92.3	90.0	83.7	81.3	70.0	78.0	85.0	78.6	85.2
26	Prakash	74.0	87.0	70.3	87.0	95.0	88.7	83.7	86.0	71.3	78.7	85.7	80.4	85.3
	Loc. Mean	78.0	84.4	71.6	89.9	93.7	92.5	84.7	84.2	71.6	78.7	86.2	80.2	86.2
	C.D. (5%)	2.67	2.86	5.87	3.01	5.37	1.91	3.03	0.82	1.75	1.31	1.22	2.35	1.41
	C.V. (%)	2.08	2.06	4.99	2.41	3.79	1.26	3.14	0.60	1.49	1.02	0.87	2.08	2.82
	F (Prob.)	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

Table No. 3(Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST															
		ALMO	BAJA	BARA	KANG	ZN 1			ZN 2				ZN 3				
					Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	VARA	RANC	Mean	
1	KDMH 755	34.3	21.9	22.0	30.0	27.1	33.0	30.9	29.3	22.2	15.0	26.1	25.7	23.8	29.2	24.0	25.7
2	X7D610	35.9	23.2	22.7	28.4	27.6	31.1	30.5	29.7	19.1	15.0	25.1	25.7	25.7	30.8	23.0	26.3
3	X8F984	31.9	23.1	24.0	28.8	26.9	27.9	30.7	25.9	18.0	15.0	23.5	26.2	20.7	29.6	23.5	25.0
4	FH 3513	31.4	20.8	22.7	28.9	26.0	28.4	28.8	24.2	18.3	15.0	22.9	24.0	18.7	27.8	24.6	23.8
5	KMH-128	30.3	23.0	23.0	29.0	26.3	29.9	29.1	26.5	18.0	15.0	23.7	24.9	21.3	35.2	22.7	26.0
6	JKMH-7037	34.1	24.2	22.3	28.5	27.3	30.5	32.2	25.1	18.1	15.0	24.2	23.8	19.3	30.9	24.2	24.5
7	Hy. P 1635	32.1	24.0	24.0	27.6	26.9	27.2	31.8	25.8	17.3	-	25.5	23.8	18.6	27.3	22.6	23.1
8	X8B561	34.2	23.8	24.0	27.5	27.4	33.6	31.1	28.3	17.0	-	27.5	25.5	26.7	35.3	23.0	27.6
9	Hy. 31Y45	34.3	22.0	24.3	30.2	27.7	32.9	28.5	26.5	20.8	15.0	24.7	25.5	27.0	30.8	23.7	26.7
10	JH 31204	31.0	20.9	24.7	27.6	26.1	32.6	27.2	25.4	18.1	15.0	23.7	24.2	18.6	33.2	23.6	24.9
11	JH 31403	32.8	24.5	23.7	29.5	27.6	28.9	27.1	25.7	19.2	15.0	23.2	23.2	20.9	32.9	22.4	24.8
12	KH-101-Gold	34.0	24.8	23.0	29.9	27.9	35.3	29.8	26.6	23.1	15.0	25.9	25.6	19.1	32.6	25.3	25.6
13	Sun - Vaaman	34.3	24.3	24.0	31.3	28.5	37.9	28.5	28.6	23.9	15.0	26.8	24.7	21.1	31.2	23.9	25.2
14	Sun - 306	32.5	20.3	24.7	28.8	26.6	29.9	32.8	28.6	19.3	15.0	25.1	24.8	21.0	36.4	25.7	27.0
15	KNMH-4010141	34.3	24.5	23.0	28.3	27.5	32.1	31.6	30.2	19.4	15.0	25.6	24.8	23.9	34.7	23.5	26.7
16	L210	30.4	21.7	22.0	26.4	25.1	31.8	27.9	23.1	17.6	15.0	23.1	23.2	19.4	30.6	22.6	23.9
17	EH-2094	37.4	24.1	24.0	28.4	28.5	34.4	33.1	32.5	26.0	15.0	28.2	23.9	26.4	32.7	21.9	26.2
18	VEH-10-1	31.9	23.3	23.0	28.5	26.7	31.0	30.6	25.1	18.7	15.0	24.1	24.2	22.9	32.6	20.9	25.1
19	WH-2051	31.4	26.0	24.0	28.9	27.6	27.8	30.9	23.6	18.7	15.0	23.2	24.3	19.5	28.2	23.3	23.8
20	WH-2058	30.3	23.4	22.7	26.0	25.6	28.8	31.8	23.7	20.2	15.0	23.9	22.9	18.4	28.1	22.9	23.1
21	REH 2009-11	36.4	23.6	24.7	29.8	28.6	31.1	29.5	29.3	19.1	15.0	24.8	25.1	19.4	32.1	24.4	25.2
22	REH 2009-12	34.7	23.8	23.7	31.3	28.4	32.2	30.8	26.6	19.4	15.0	24.8	23.5	25.1	35.0	24.4	27.0
23	HKH - 317	36.4	21.7	23.7	29.8	27.9	32.3	31.6	27.1	20.4	15.0	25.3	23.7	25.8	31.5	24.0	26.2
24	HKH - 318	35.8	21.4	23.3	28.1	27.2	30.6	28.9	27.8	17.5	15.0	24.0	24.7	23.5	35.6	23.7	26.9
CHECKS																	
25	JH-3459	35.3	22.9	24.7	27.1	27.5	27.1	29.2	26.8	17.4	15.0	23.1	23.8	22.2	30.6	24.3	25.2
26	Prakash	32.2	22.7	22.7	26.4	26.0	30.5	26.3	25.2	19.3	15.0	23.3	22.7	23.7	32.1	24.0	25.6
	Loc. Mean	33.4	23.0	23.5	28.7	27.2	31.1	30.0	26.8	19.4	15.0	24.6	24.4	22.0	31.8	23.5	25.4
	C.D. (5%)	2.16	2.20	1.14	2.89	1.87	3.14	0.00	1.75	2.44	-	2.78	0.50	0.00	2.18	1.64	2.65
	C.V. (%)	3.94	5.82	2.97	6.15	4.90	6.15	0.00	3.99	7.66	-	8.99	1.26	0.00	4.17	4.26	7.41
	F (Prob.)	0.00	0.00	0.00	0.04	0.02	0.00	0.00	0.00	0.00	-	0.01	0.00	0.00	0.00	0.00	0.04

Table No. 3(Continued)

SI No.	PEDIGREE	MOISTURE % AT HARVEST									ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	GODH			CHHI
1	KDMH 755	25.3	19.9	12.9	14.7	15.9	21.7	18.4	21.3	16.6	18.8	18.9	23.1
2	X7D610	26.4	18.9	13.1	14.3	16.2	18.5	17.9	16.1	16.5	19.9	17.5	22.7
3	X8F984	23.7	17.9	13.4	13.7	15.4	18.8	17.1	15.6	16.6	18.1	16.7	21.7
4	FH 3513	25.1	21.5	13.2	14.0	14.6	14.2	17.1	21.2	16.9	18.0	18.7	21.5
5	KMH-128	27.4	21.6	13.2	13.0	15.8	18.0	18.2	21.4	17.6	18.0	19.0	22.4
6	JKMH-7037	27.9	21.1	13.0	13.6	16.3	15.2	17.8	19.4	16.9	18.9	18.4	22.3
7	Hy. P 1635	22.8	18.9	12.9	12.5	15.6	17.0	16.6	20.4	15.0	16.2	17.2	21.6
8	X8B561	28.1	20.7	13.0	12.7	15.3	18.5	18.0	21.3	16.9	18.8	19.0	23.6
9	Hy. 31Y45	25.1	17.3	12.9	12.5	15.5	17.0	16.7	22.0	17.4	18.8	19.4	22.7
10	JH 31204	24.5	19.9	12.4	13.0	14.6	16.7	16.8	21.8	17.1	17.3	18.7	21.8
11	JH 31403	26.9	20.0	12.7	12.5	15.2	19.6	17.8	22.1	18.5	18.1	19.6	22.3
12	KH-101-Gold	27.3	19.2	12.9	13.8	15.6	19.1	18.0	21.3	16.7	19.2	19.0	23.1
13	Sun - Vaaman	26.2	19.7	12.7	12.8	15.6	17.3	17.4	21.4	16.9	17.8	18.7	23.1
14	Sun - 306	26.1	24.9	12.8	12.9	14.7	15.5	17.8	20.7	18.2	18.6	19.2	22.9
15	KNMH-4010141	28.2	22.2	12.6	13.6	14.8	17.1	18.1	21.0	16.7	18.0	18.6	23.1
16	L210	24.0	19.7	12.9	14.3	14.7	15.5	16.8	19.3	16.5	18.0	17.9	21.2
17	EH-2094	29.0	19.2	13.1	14.1	15.3	16.4	17.8	16.1	16.7	18.6	17.1	23.5
18	VEH-10-1	23.6	21.3	12.7	12.9	15.6	17.6	17.3	19.4	20.2	18.8	19.4	22.2
19	WH-2051	22.8	20.1	12.6	12.8	15.3	17.1	16.8	22.3	18.1	16.9	19.1	21.8
20	WH-2058	24.0	24.4	12.4	12.3	15.0	14.8	17.1	18.1	16.6	16.8	17.1	21.3
21	REH 2009-11	24.8	22.4	13.2	-	16.0	16.9	18.6	16.9	16.9	18.4	17.4	23.1
22	REH 2009-12	25.2	20.7	13.0	-	15.9	19.1	18.8	21.7	16.5	18.9	19.0	23.6
23	HKH - 317	27.0	19.7	12.8	-	-	16.9	19.1	21.4	15.1	17.5	18.0	23.7
24	HKH - 318	27.4	21.9	13.2	-	-	17.5	20.0	20.7	17.2	19.5	19.1	23.7
CHECKS													
25	JH-3459	25.9	23.9	12.9	13.1	15.1	17.6	18.1	20.5	18.3	17.3	18.7	22.3
26	Prakash	25.1	19.2	12.2	12.3	15.0	14.3	16.3	17.5	16.2	16.9	16.8	21.4
	Loc. Mean	25.7	20.6	12.9	13.2	15.4	17.2	17.7	20.0	17.0	18.2	18.4	22.5
	C.D. (5%)	1.43	2.11	0.97	1.03	0.36	0.76	1.76	0.48	1.28	0.94	2.26	1.09
	C.V. (%)	3.39	6.24	4.60	5.62	1.53	2.70	8.72	1.46	4.58	3.17	7.48	8.16
	F (Prob.)	0.00	0.00	0.85	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.27	0.00

Table No. 3 (Continued)

SI No	PEDIGREE	PLANT HEIGHT (cm)				ZN 1					ZN 2					
		ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	VARA	RANC
1	KDMH 755	246.7	228.3	136.6	249.3	215.2	200.0	193.3	230.0	234.0	99.0	191.3	182.3	147.3	190.0	216.7
2	X7D610	281.7	241.7	205.7	262.7	247.9	200.3	198.3	228.3	243.3	95.7	193.2	197.7	174.5	196.3	231.7
3	X8F984	265.0	229.0	185.7	258.3	234.5	203.3	186.7	226.7	247.3	96.3	192.1	195.0	181.2	201.3	209.0
4	FH 3513	221.7	189.3	150.1	227.0	197.0	154.0	190.0	195.0	202.0	90.3	166.3	182.0	149.3	158.8	192.3
5	KMH-128	210.0	195.0	154.6	217.3	194.2	149.7	181.7	191.7	204.0	102.0	165.8	175.3	154.3	148.8	196.3
6	JKMH-7037	241.7	210.7	189.2	246.3	222.0	174.0	180.0	201.7	219.3	93.0	173.6	175.0	152.3	165.0	222.7
7	Hy. P 1635	256.7	235.7	222.4	260.0	243.7	205.7	236.7	243.3	247.0	95.3	205.6	207.7	172.5	195.0	227.4
8	X8B561	276.7	246.7	222.8	250.0	249.0	222.3	203.3	220.0	258.7	89.3	198.7	209.0	172.2	218.8	236.4
9	Hy. 31Y45	258.3	240.0	206.8	258.0	240.8	188.3	200.0	220.0	240.7	172.3	204.3	179.0	165.0	190.0	220.5
10	JH 31204	245.0	216.0	191.5	244.3	224.2	191.0	190.0	220.0	218.3	182.0	200.3	193.0	158.2	180.0	193.0
11	JH 31403	241.7	228.3	205.8	230.3	226.5	193.0	193.3	208.3	230.7	186.0	202.3	186.0	164.8	183.8	207.5
12	KH-101-Gold	255.0	233.3	206.9	246.7	235.5	185.0	210.0	215.0	231.0	191.0	206.4	197.0	155.5	183.8	210.1
13	Sun - Vaaman	221.7	196.7	184.5	234.3	209.3	177.5	196.7	196.7	217.0	173.0	192.2	182.7	138.7	172.5	217.8
14	Sun - 306	233.3	192.7	197.6	236.3	215.0	168.7	170.0	201.7	206.3	177.3	184.8	176.0	142.8	158.8	159.9
15	KNMH-4010141	270.0	239.3	213.5	227.7	237.6	219.7	193.3	248.3	262.3	182.0	221.1	189.0	153.5	208.8	201.0
16	L210	246.7	221.0	200.9	255.0	230.9	202.7	200.0	236.7	237.3	188.3	213.0	185.0	166.3	181.3	230.1
17	EH-2094	258.3	228.3	233.2	246.0	241.5	189.3	193.3	235.0	254.0	185.7	211.5	201.7	161.3	191.3	228.4
18	VEH-10-1	258.3	238.3	204.2	254.3	238.8	203.7	203.3	238.3	238.0	192.7	215.2	198.7	175.5	198.8	222.9
19	WH-2051	241.7	217.3	215.3	222.3	224.1	179.0	206.7	213.3	212.7	181.0	198.5	190.0	143.7	182.5	196.3
20	WH-2058	243.3	193.3	194.9	238.7	217.6	167.0	206.7	215.0	196.7	165.3	190.1	163.0	143.3	166.3	194.7
21	REH 2009-11	251.7	248.3	232.4	261.0	248.3	187.0	200.0	228.3	229.3	178.3	204.6	174.3	177.0	191.3	221.3
22	REH 2009-12	240.0	205.3	202.5	254.7	225.6	187.0	203.3	213.3	223.0	178.7	201.1	232.0	173.3	185.0	202.9
23	HKH - 317	218.3	215.7	147.9	237.7	204.9	169.7	170.0	196.7	205.3	186.0	185.5	177.0	173.7	167.5	175.8
24	HKH - 318	235.0	210.0	196.0	257.3	224.6	150.3	173.3	191.7	202.0	182.3	179.9	196.3	150.2	175.0	193.4
CHECKS																
25	JH-3459	225.0	199.3	204.7	221.3	212.6	178.3	186.7	220.0	211.0	196.7	198.5	182.3	131.8	167.5	208.1
26	Prakash	230.0	222.7	211.6	239.0	225.8	196.0	186.7	213.3	218.7	189.3	200.8	181.7	156.8	185.0	220.2
	Loc. Mean	245.1	220.1	196.8	243.7	226.4	186.3	194.4	217.2	226.5	155.7	196.0	188.8	159.0	182.4	209.1
	C.D. (5%)	9.60	23.62	14.64	21.41	18.68	18.17	24.10	27.53	15.18	15.43	27.72	36.06	30.10	10.77	38.26
	C.V. (%)	2.39	6.54	4.54	5.36	5.86	5.95	7.56	7.73	4.09	6.04	11.27	11.65	11.54	3.60	11.16
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.25	0.07	0.00	0.04

Table No. 3 (Continued)

SI No	PEDIGREE	PLANT HEIGHT (cm)														OV'L Mean	
		AMBI	ZN 3				ZN 4				ZN 5						
			Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	
1	KDMH 755	242.5	195.8	186.0	233.0	155.0	153.3	208.7	184.7	186.8	191.7	172.1	166.0	218.3	143.2	178.3	192.3
2	X7D610	271.1	214.2	182.5	229.0	188.3	196.7	241.0	207.0	207.4	189.3	193.8	187.0	246.7	165.5	196.5	210.2
3	X8F984	253.7	208.0	161.5	221.0	168.3	168.3	221.0	195.2	189.2	210.0	193.7	191.0	236.7	145.7	195.4	202.0
4	FH 3513	190.6	174.6	154.0	218.3	106.7	143.3	175.7	161.0	159.8	165.0	172.0	143.0	190.0	154.5	164.9	171.0
5	KMH-128	195.6	174.1	153.0	225.3	150.0	146.7	189.3	158.8	170.5	181.7	168.8	137.0	180.0	159.1	165.3	173.0
6	JKMH-7037	201.4	183.3	169.5	205.7	131.7	140.0	206.0	143.1	166.0	200.0	183.5	155.0	198.3	161.6	179.7	182.7
7	Hy. P 1635	249.9	210.5	181.5	223.3	140.0	156.7	218.0	175.5	182.5	188.3	207.1	185.0	233.3	161.8	195.1	205.0
8	X8B561	273.5	222.0	195.0	231.3	196.7	191.7	236.3	201.7	208.8	240.0	213.6	191.0	251.7	141.0	207.5	215.6
9	Hy. 31Y45	260.0	202.9	164.5	242.7	170.0	175.0	217.0	196.2	194.2	210.0	205.4	186.3	225.0	140.4	193.4	205.3
10	JH 31204	223.4	189.5	172.0	191.3	133.3	158.3	203.3	164.4	170.5	208.3	160.3	169.3	220.0	157.6	183.1	191.4
11	JH 31403	238.2	196.1	152.5	218.0	168.3	160.0	211.7	182.3	182.1	185.0	178.7	166.0	230.0	141.7	180.3	195.7
12	KH-101-Gold	235.8	196.4	148.5	201.3	165.0	158.3	203.3	160.4	172.8	195.0	188.8	166.0	218.3	147.0	183.0	196.3
13	Sun - Vaaman	210.5	184.4	147.5	209.7	130.0	156.7	198.7	170.8	168.9	180.0	159.1	154.7	195.0	149.3	167.6	182.9
14	Sun - 306	208.4	169.2	155.5	222.3	131.7	143.3	193.7	173.1	169.9	185.0	161.9	150.3	190.0	150.5	167.6	179.5
15	KNMH-4010141	248.8	200.2	173.0	240.7	168.3	165.0	215.7	198.5	193.5	200.0	212.1	176.3	243.3	151.6	196.7	208.1
16	L210	222.1	196.9	182.0	200.3	188.3	176.7	223.7	177.1	191.4	215.0	199.8	181.3	213.3	157.9	193.5	203.6
17	EH-2094	256.3	207.8	190.0	208.3	165.0	168.3	222.7	206.9	193.5	205.0	213.8	189.7	231.7	146.5	197.3	208.4
18	VEH-10-1	253.5	209.9	176.5	216.0	160.0	183.3	228.7	184.9	191.6	185.0	198.6	172.3	230.0	156.9	188.6	206.9
19	WH-2051	226.2	187.7	159.5	206.7	166.7	161.7	202.7	181.1	179.7	146.7	170.4	150.0	203.3	142.2	162.5	188.7
20	WH-2058	215.6	176.6	159.0	209.7	125.0	145.0	195.3	152.9	164.5	185.0	185.3	142.7	190.0	163.0	173.2	182.3
21	REH 2009-11	220.1	196.8	161.0	222.3	168.3	-	226.0	179.7	191.5	205.0	198.8	171.3	231.7	157.4	192.8	205.1
22	REH 2009-12	221.7	203.0	154.0	217.3	125.0	-	210.3	178.9	177.1	200.0	188.1	171.0	213.3	153.6	185.2	197.3
23	HKH - 317	208.7	180.5	170.5	191.0	145.0	-	-	161.8	167.1	173.3	162.3	153.7	196.7	151.3	167.5	180.7
24	HKH - 318	201.3	183.3	169.5	202.3	138.3	-	-	163.5	168.4	145.0	182.0	145.0	208.3	140.7	164.2	183.0
CHECKS																	
25	JH-3459	223.5	182.7	159.0	200.7	126.7	145.0	191.0	176.2	166.4	186.7	172.2	149.3	203.3	138.6	170.0	184.2
26	Prakash	232.8	195.3	176.0	201.3	140.0	150.0	199.0	187.3	175.6	171.7	215.4	163.3	228.3	150.0	185.8	194.6
	Loc. Mean	230.2	193.9	167.4	215.0	152.0	136.3	193.8	177.8	180.4	190.3	186.8	165.9	216.4	151.1	182.1	194.1
	C.D. (5%)	21.47	15.10	15.97	20.96	11.02	21.85	15.55	5.97	13.67	16.14	19.68	22.75	11.48	9.44	15.76	8.31
	C.V. (%)	5.69	6.21	5.81	5.95	4.42	9.78	4.89	2.05	6.63	5.17	6.42	8.36	3.24	3.81	6.90	7.70
	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. 3 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)				ZN 1					ZN 2				ZN 3	
		ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	VARA	RANC	AMBI	Mean
1	KDMH 755	135.0	137.0	55.7	126.7	113.6	108.7	100.0	114.0	187.7	127.6	75.3	100.0	114.3	102.8	98.1
2	X7D610	138.3	123.7	75.4	115.0	113.1	93.7	96.7	104.7	208.0	125.8	79.7	90.0	105.3	89.1	91.0
3	X8F984	131.7	113.7	63.3	106.3	103.7	99.0	96.7	111.3	192.7	124.9	79.0	88.8	98.0	82.5	87.1
4	FH 3513	125.0	93.7	64.9	107.7	97.8	84.0	106.7	108.0	190.3	122.3	72.0	76.3	89.0	61.5	74.7
5	KMH-128	90.0	81.7	52.9	77.0	75.4	73.0	83.3	90.7	209.3	114.1	71.3	62.5	84.7	51.9	67.6
6	JKMH-7037	150.0	127.3	101.8	117.3	124.1	96.7	93.3	110.7	196.7	124.3	90.0	83.8	118.7	76.9	92.3
7	Hy. P 1635	136.7	131.0	93.5	113.7	118.7	98.7	136.7	116.0	197.0	137.1	72.3	97.5	112.1	86.6	92.1
8	X8B561	126.7	112.7	89.9	99.0	107.1	100.7	116.7	114.7	177.0	127.3	80.0	95.0	103.2	96.1	93.6
9	Hy. 31Y45	131.7	130.3	84.7	112.0	114.7	89.3	106.7	108.0	79.7	95.9	86.7	77.5	110.7	92.8	91.9
10	JH 31204	125.0	116.7	90.2	102.7	108.6	95.0	103.3	106.7	71.3	94.1	74.0	86.3	92.3	81.9	83.6
11	JH 31403	143.3	139.0	76.4	102.0	115.2	108.7	111.7	116.0	87.0	105.8	75.7	150.0	103.2	105.3	108.6
12	KH-101-Gold	141.7	148.3	85.3	124.0	124.8	99.3	116.7	109.3	80.0	101.3	74.0	107.5	113.2	100.1	98.7
13	Sun - Vaaman	106.7	114.0	88.9	88.7	99.6	79.5	96.7	96.7	81.0	88.5	65.0	85.0	99.5	68.1	79.4
14	Sun - 306	116.7	89.0	103.8	99.0	102.1	80.7	80.0	92.3	69.0	80.5	79.0	75.0	81.2	69.8	76.3
15	KNMH-4010141	138.3	136.7	89.1	105.7	117.4	122.7	103.3	115.7	76.7	104.6	79.7	113.8	97.7	96.6	96.9
16	L210	141.7	105.3	90.2	115.0	113.1	105.3	96.7	114.0	81.0	99.2	52.3	96.3	111.0	75.3	83.7
17	EH-2094	143.3	116.7	88.8	110.7	114.9	97.3	96.7	116.0	83.7	98.4	78.7	98.8	108.9	95.1	95.4
18	VEH-10-1	141.7	142.0	76.6	120.0	120.1	105.3	105.0	112.7	92.3	103.8	83.7	102.5	101.3	91.7	94.8
19	WH-2051	138.3	123.3	85.3	104.3	112.8	92.3	113.3	95.3	71.3	93.1	73.0	85.0	81.7	83.2	80.7
20	WH-2058	128.3	100.7	82.0	96.7	101.9	82.0	118.3	87.3	76.7	91.1	77.0	85.0	94.5	72.1	82.2
21	REH 2009-11	128.3	142.0	87.4	127.3	121.3	91.0	103.3	110.7	89.3	98.6	68.0	95.0	99.2	75.3	84.4
22	REH 2009-12	125.0	97.7	89.3	113.3	106.3	92.0	103.3	101.3	74.3	92.7	93.0	85.0	90.5	71.3	85.0
23	HKH - 317	96.7	110.7	56.5	92.7	89.1	78.7	81.7	80.0	93.3	83.4	59.0	71.3	72.9	56.5	64.9
24	HKH - 318	130.0	124.3	85.6	132.0	118.0	80.7	93.3	97.0	86.3	89.3	77.3	87.5	84.7	64.0	78.4
CHECKS																
25	JH-3459	120.0	119.0	97.5	97.0	108.4	99.7	103.3	103.3	95.0	100.3	82.7	93.8	98.3	93.9	92.2
26	Prakash	121.7	123.3	90.3	102.0	109.3	105.7	100.0	105.3	82.0	98.3	72.7	102.5	101.8	93.3	92.6
	Loc. Mean	128.9	119.2	82.5	108.0	109.7	94.6	102.4	105.3	116.5	104.7	75.8	92.0	98.8	82.1	87.2
	C.D. (5%)	7.90	20.36	7.01	18.25	15.61	12.48	22.54	10.76	22.19	39.15	22.69	19.24	20.87	12.91	14.11
	C.V. (%)	3.73	10.41	5.18	10.31	10.11	8.05	13.42	6.23	11.62	26.54	18.25	12.76	12.88	9.59	11.50
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.30	0.00	0.00	0.00	0.00

Table No. 3 (Continued)

SI No.	PEDIGREE	EAR HEIGHT (cm)					ZN 4		BANS	GODH	CHHI	ZN 5		OV'L Mean
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI				Mean	Mean	
1	KDMH 755	106.5	56.7	88.3	106.3	103.7	92.3	96.7	93.9	81.3	108.3	95.1	104.7	
2	X7D610	94.0	58.3	88.3	119.0	106.1	93.1	110.0	98.9	81.3	106.7	99.2	103.9	
3	X8F984	78.0	51.7	81.7	105.7	96.2	82.6	106.7	102.1	90.0	106.7	101.4	99.1	
4	FH 3513	74.0	31.7	76.7	90.3	84.7	71.5	80.0	77.0	64.7	91.7	78.3	88.1	
5	KMH-128	75.5	51.7	78.3	88.0	71.3	73.0	101.7	101.8	51.7	73.3	82.1	82.0	
6	JKMH-7037	88.0	53.3	76.7	96.0	76.1	78.0	101.7	103.0	82.0	105.0	97.9	102.1	
7	Hy. P 1635	90.0	43.3	81.7	107.3	93.1	83.1	95.0	102.3	91.7	115.0	101.0	105.3	
8	X8B561	98.0	65.0	100.0	108.3	99.8	94.2	101.7	97.6	81.0	106.7	96.7	103.3	
9	Hy. 31Y45	79.0	53.3	91.7	105.0	99.8	85.8	83.3	85.4	114.7	110.0	98.4	96.8	
10	JH 31204	80.5	43.3	85.0	98.3	82.7	78.0	101.7	90.6	78.0	101.7	93.0	90.8	
11	JH 31403	81.5	61.7	90.0	109.3	107.3	90.0	93.3	88.3	90.3	111.7	95.9	102.5	
12	KH-101-Gold	71.0	66.7	81.7	102.3	84.1	81.1	98.3	90.4	83.3	108.3	95.1	99.3	
13	Sun - Vaaman	70.5	53.3	86.7	93.3	86.5	78.1	83.3	74.0	63.7	90.0	77.8	84.3	
14	Sun - 306	84.5	71.7	71.7	93.7	82.9	80.9	108.3	84.0	63.3	90.0	86.4	85.0	
15	KNMH-4010141	92.5	60.0	86.7	110.7	110.5	92.1	95.0	109.8	81.3	113.3	99.9	101.7	
16	L210	97.5	75.0	95.0	104.0	96.3	93.6	80.0	82.1	80.7	96.7	84.9	94.8	
17	EH-2094	100.0	46.7	83.3	107.7	103.7	88.3	88.3	133.7	90.3	106.7	104.8	99.8	
18	VEH-10-1	91.0	56.7	95.0	110.3	94.5	89.5	83.3	107.3	80.7	110.0	95.3	100.2	
19	WH-2051	82.5	61.7	76.7	99.3	95.8	83.2	93.3	75.7	69.7	96.7	83.8	90.4	
20	WH-2058	77.0	61.7	66.7	95.3	78.1	75.7	93.3	97.0	59.7	91.7	85.4	86.7	
21	REH 2009-11	73.5	58.3	-	112.3	90.5	83.7	86.7	105.5	83.0	115.0	97.5	97.1	
22	REH 2009-12	72.0	41.7	-	98.3	95.2	76.8	95.0	92.1	74.0	98.3	89.9	90.1	
23	HKH - 317	83.5	25.0	-	-	76.9	61.8	90.0	83.9	59.7	81.7	78.8	76.3	
24	HKH - 318	86.0	35.0	-	-	89.3	70.1	81.7	77.2	60.0	91.7	77.6	87.6	
CHECKS														
25	JH-3459	85.0	43.3	80.0	96.3	100.1	81.0	85.0	94.0	72.0	101.7	88.2	93.4	
26	Prakash	92.5	46.7	85.0	102.0	103.7	86.0	91.7	108.0	81.7	116.7	99.5	96.6	
	Loc. Mean	84.8	52.8	84.0	102.5	92.6	82.4	93.3	94.5	77.3	101.7	91.7	94.7	
	C.D. (5%)	13.25	6.73	16.61	11.61	3.11	9.99	21.38	20.73	22.83	9.48	13.49	9.19	
	C.V. (%)	9.53	7.77	14.26	7.49	2.05	9.66	13.98	13.38	18.01	5.69	10.44	16.01	
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.00	

Table No. 3(Continued)

SI No	PEDIGREE	GRAIN SHELLING %															
		ALMO	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean
1	KDMH 755	83.5	86.1	83.8	79.0	83.1	81.4	76.0	86.5	88.9	76.0	81.8	75.9	76.0	83.2	81.7	79.2
2	X7D610	84.6	83.4	75.3	77.5	80.2	81.2	71.0	86.4	83.3	74.7	79.3	77.4	76.0	85.0	79.6	79.5
3	X8F984	88.2	83.8	72.4	82.5	81.7	84.1	71.0	83.8	87.5	76.3	80.5	81.2	79.0	85.6	83.5	82.3
4	FH 3513	84.6	81.4	74.2	75.0	78.8	84.8	85.0	85.6	83.5	75.0	82.8	77.8	78.3	83.4	75.8	78.8
5	KMH-128	87.8	87.1	77.0	84.0	83.9	86.6	72.0	88.4	85.7	75.3	81.6	81.1	75.5	86.0	76.5	79.7
6	JKMH-7037	85.8	83.7	77.3	83.5	82.6	84.6	73.0	86.8	82.3	76.0	80.5	76.7	76.0	84.8	79.2	79.2
7	Hy. P 1635	84.9	84.9	77.0	85.5	83.1	83.9	82.0	85.6	80.0	77.0	81.7	77.0	76.8	82.8	78.2	78.7
8	X8B561	87.7	85.1	74.9	81.0	82.2	87.9	76.0	87.6	86.7	73.0	82.2	80.9	78.3	87.1	78.5	81.2
9	Hy. 31Y45	87.1	86.1	72.5	83.5	82.3	86.4	73.0	90.1	89.5	71.0	82.0	79.9	80.5	86.7	82.4	82.4
10	JH 31204	86.5	85.7	77.7	86.0	84.0	82.7	72.0	86.6	86.7	74.0	80.4	80.0	76.0	84.2	77.6	79.5
11	JH 31403	86.0	84.1	77.2	77.5	81.2	83.5	74.0	86.8	85.7	75.0	81.0	76.1	75.0	82.4	80.1	78.4
12	KH-101-Gold	85.9	84.0	78.1	83.5	82.8	85.0	82.0	86.9	87.5	72.0	82.7	77.9	80.5	86.6	80.3	81.3
13	Sun - Vaaman	85.4	84.6	72.2	85.5	81.9	84.2	76.0	84.1	84.3	73.0	80.3	81.2	76.0	84.1	76.0	79.3
14	Sun - 306	86.9	86.1	76.4	82.5	83.0	84.3	78.0	83.2	88.9	75.0	81.9	76.6	76.8	85.7	78.5	79.4
15	KNMH-4010141	83.3	82.1	75.0	79.0	79.8	82.2	78.0	83.9	87.5	76.0	81.5	78.0	75.5	84.1	83.5	80.3
16	L210	86.9	87.2	72.3	80.0	81.6	85.1	76.0	83.0	85.7	74.0	80.8	80.8	78.5	80.5	83.2	80.7
17	EH-2094	84.5	84.4	71.4	73.0	78.3	82.9	72.0	85.0	88.2	72.0	80.0	77.2	76.5	82.5	74.7	77.7
18	VEH-10-1	84.9	87.0	71.4	81.5	81.2	84.3	72.0	85.2	78.6	74.0	78.8	74.7	75.0	85.6	77.4	78.2
19	WH-2051	86.9	85.1	73.3	82.5	81.9	85.5	78.0	83.6	84.0	70.0	80.2	77.9	77.0	86.5	79.2	80.2
20	WH-2058	86.7	85.2	77.7	72.5	80.5	84.6	80.0	84.5	84.6	70.0	80.7	80.9	75.8	81.3	79.3	79.3
21	REH 2009-11	83.1	80.9	84.0	84.0	83.0	83.8	80.0	84.3	80.0	73.0	80.2	78.3	76.0	84.4	77.8	79.1
22	REH 2009-12	85.8	84.5	87.2	83.5	85.3	85.7	72.0	80.4	80.0	74.0	78.4	75.6	76.5	85.8	77.4	78.8
23	HKH - 317	83.6	79.8	71.1	86.0	80.1	83.7	78.0	80.3	78.5	75.0	79.1	76.3	75.0	82.2	77.6	77.8
24	HKH - 318	82.4	82.0	79.6	78.5	80.6	83.0	76.0	88.5	-	73.0	80.1	79.3	75.5	82.5	68.9	76.5
CHECKS																	
25	JH-3459	84.1	79.7	73.0	76.0	78.2	85.9	80.0	88.4	83.1	72.0	81.9	76.1	75.8	81.7	80.0	78.4
26	Prakash	88.1	87.5	82.0	77.5	83.8	85.8	83.0	88.0	84.6	71.0	82.5	75.8	75.5	87.3	77.5	79.0
	Loc. Mean	85.6	84.3	76.3	80.8	81.7	84.4	76.4	85.5	84.6	73.7	80.9	78.1	76.7	84.3	78.6	79.4
	C.D. (5%)	0.77	-	0.93	3.51	4.34	2.27	-	3.32	-	0.89	3.59	1.00	1.14	2.93	7.37	2.88
	C.V. (%)	0.55	-	0.74	2.65	3.77	1.64	-	2.37	-	0.73	3.54	0.78	0.90	2.12	5.72	2.57
	F (Prob.)	0.00	0.00	0.00	0.00	0.16	0.00	-	0.00	0.00	0.00	0.64	0.00	0.00	0.00	0.15	0.03

Table No. 3(Continued)

SI No	PEDIGREE	GRAIN SHELLING %											ZN 5 Mean	OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI			JHAB
1	KDMH 755	83.1	76.7	83.5	89.3	78.8	83.0	82.4	80.4	66.6	79.0	79.5	83.6	77.8	80.9
2	X7D610	84.6	71.7	84.0	85.4	77.8	84.4	81.3	80.5	65.8	77.9	78.5	83.4	77.2	79.6
3	X8F984	83.4	78.8	85.9	84.9	77.5	85.1	82.6	74.8	71.2	78.6	84.7	78.2	77.5	80.9
4	FH 3513	84.0	71.6	81.7	87.8	78.5	82.2	81.0	81.3	69.2	82.7	79.5	82.3	79.0	80.2
5	KMH-128	86.3	82.9	85.1	84.7	85.1	86.7	85.1	82.0	70.7	84.5	86.0	80.2	80.7	82.4
6	JKMH-7037	84.4	70.6	85.9	85.1	81.6	84.6	82.0	81.6	68.9	79.7	79.9	81.0	78.2	80.5
7	Hy. P 1635	83.2	65.3	86.1	84.0	79.3	85.8	80.6	78.4	70.6	79.3	82.9	81.2	78.5	80.5
8	X8B561	87.3	79.1	83.7	87.8	81.3	87.1	84.4	80.0	68.6	81.1	85.8	83.3	79.8	82.1
9	Hy. 31Y45	87.1	73.4	86.2	84.7	83.1	86.7	83.5	74.6	70.1	82.6	83.6	78.8	77.9	81.6
10	JH 31204	84.8	70.8	87.9	86.3	85.1	84.1	83.2	81.7	71.1	80.1	79.4	82.3	78.9	81.2
11	JH 31403	83.5	74.0	85.8	85.7	83.8	85.9	83.1	80.3	71.6	77.0	83.4	81.3	78.7	80.6
12	KH-101-Gold	83.9	73.6	86.7	84.9	78.1	80.5	81.3	81.1	65.6	82.2	81.2	83.4	78.7	81.3
13	Sun - Vaaman	84.3	78.4	83.3	86.1	81.3	81.6	82.5	70.8	66.1	81.8	82.1	80.0	76.2	80.1
14	Sun - 306	84.1	79.1	82.7	86.3	76.4	82.8	81.9	81.6	70.3	73.9	82.6	84.2	78.5	80.9
15	KNMH-4010141	81.1	65.1	81.1	81.1	78.8	77.3	77.4	81.2	69.9	76.9	81.3	81.7	78.2	79.3
16	L210	84.8	70.1	82.6	84.0	78.1	84.9	80.7	81.1	70.7	83.9	85.0	86.3	81.4	81.0
17	EH-2094	82.3	65.2	82.8	81.4	78.0	81.0	78.4	82.8	67.7	79.9	85.0	78.1	78.7	78.7
18	VEH-10-1	84.4	85.1	86.8	84.2	79.3	84.7	84.1	81.8	70.1	86.5	81.0	82.0	80.3	80.7
19	WH-2051	85.4	77.6	83.4	87.5	83.1	87.0	84.0	80.1	68.6	79.3	81.4	81.7	78.2	81.0
20	WH-2058	84.7	77.5	83.7	82.6	74.1	84.1	81.1	81.1	68.2	79.6	84.5	80.1	78.7	80.1
21	REH 2009-11	82.2	71.5	84.4	-	81.0	80.2	79.9	76.7	69.4	80.3	80.9	80.7	77.6	79.9
22	REH 2009-12	81.6	75.5	84.4	-	80.1	84.8	81.3	80.7	68.7	78.9	79.4	80.4	77.6	80.1
23	HKH - 317	82.8	72.4	82.2	-	-	80.5	79.5	82.1	70.4	79.5	79.6	84.2	79.2	79.1
24	HKH - 318	82.2	73.8	83.6	-	-	78.5	79.5	79.9	68.6	68.1	80.1	77.7	74.9	78.2
CHECKS															
25	JH-3459	83.9	82.5	86.7	82.2	84.5	84.9	84.1	81.6	69.4	79.5	82.3	82.2	79.0	80.6
26	Prakash	86.2	80.2	86.6	83.7	80.5	85.4	83.8	74.3	69.9	85.2	87.1	84.5	80.2	82.0
	Loc. Mean	84.1	74.7	84.5	85.0	80.2	83.6	81.9	79.7	69.2	79.9	82.2	81.6	78.5	80.5
	C.D. (5%)	1.01	4.71	3.38	2.63	1.36	1.04	2.97	0.57	1.91	3.92	3.21	4.22	3.23	1.54
	C.V. (%)	0.74	3.84	2.44	2.23	1.12	0.76	3.17	0.43	1.68	2.99	2.38	3.15	3.28	3.38
	F (Prob.)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.14	0.00

Table No. 3 (Continued)

SI No.	PEDIGREE	STAND AT HARVEST ('000/ha)														
		ALMO	BAJA	BARA	KANG	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC
1	KDMH 755	63.9	57.9	45.1	61.1	57.0	57.2	61.3	61.7	51.1	75.7	61.4	64.6	53.3	67.4	56.0
2	X7D610	63.9	66.7	67.4	65.3	65.8	56.1	60.7	75.7	38.9	74.3	61.1	69.4	55.0	66.7	63.7
3	X8F984	63.9	69.0	48.6	74.3	64.0	55.0	57.7	72.0	64.4	76.4	65.1	66.0	56.1	64.6	63.1
4	FH 3513	64.8	65.9	59.7	76.4	66.7	62.8	63.1	75.1	63.9	75.0	68.0	66.0	55.0	76.4	64.3
5	KMH-128	63.9	68.3	56.3	63.9	63.1	54.4	64.9	75.1	55.0	77.1	65.3	63.2	54.4	68.8	45.8
6	JKMH-7037	65.7	67.5	58.3	70.8	65.6	60.0	64.9	73.9	62.8	77.1	67.7	65.3	56.7	77.8	68.5
7	Hy. P 1635	60.2	69.8	63.9	51.4	61.3	62.2	61.9	70.8	58.3	77.8	66.2	66.7	56.7	75.7	66.1
8	X8B561	66.7	68.3	71.5	68.1	68.6	60.6	62.5	76.3	57.8	77.8	67.0	66.7	54.4	72.2	63.7
9	Hy. 31Y45	66.7	65.1	68.1	68.1	67.0	60.6	61.9	74.5	58.3	75.7	66.2	67.4	52.8	73.6	59.5
10	JH 31204	62.0	54.8	70.8	67.4	63.7	69.2	58.9	72.6	56.1	74.3	66.2	63.2	56.1	79.9	65.5
11	JH 31403	63.0	63.5	68.8	68.1	65.8	56.7	59.5	74.5	54.4	69.4	62.9	68.1	54.4	75.0	63.1
12	KH-101-Gold	64.8	65.1	65.3	67.4	65.6	50.6	61.9	61.7	45.6	73.6	58.7	59.0	55.6	72.9	64.3
13	Sun - Vaaman	60.2	62.7	66.7	67.4	64.2	57.5	58.3	70.8	47.2	75.7	61.9	68.8	55.6	77.1	53.6
14	Sun - 306	59.3	64.3	69.4	76.4	67.3	55.6	60.7	73.3	53.3	46.5	57.9	47.9	53.3	72.2	55.4
15	KNMH-4010141	66.7	63.5	66.0	65.3	65.4	61.1	63.7	75.1	60.0	72.2	66.4	64.6	55.6	70.8	64.9
16	L210	65.7	61.9	62.5	71.5	65.4	53.9	65.5	70.2	62.8	75.7	65.6	63.9	52.2	71.5	57.7
17	EH-2094	57.4	59.5	41.0	72.2	57.5	23.3	56.0	44.6	32.8	75.0	46.3	65.3	37.2	59.0	39.3
18	VEH-10-1	65.7	74.6	65.3	62.5	67.0	58.3	63.1	73.9	57.2	77.1	65.9	63.9	55.0	75.7	64.9
19	WH-2051	54.6	61.9	70.8	61.1	62.1	45.6	59.5	67.2	46.1	68.8	57.4	64.6	54.4	73.6	48.2
20	WH-2058	61.1	63.5	60.4	70.1	63.8	53.9	61.9	65.9	47.2	75.7	60.9	68.1	52.8	69.4	49.4
21	REH 2009-11	61.1	55.6	72.9	69.4	64.8	48.3	60.7	72.0	35.6	75.0	58.3	59.0	50.0	68.1	60.7
22	REH 2009-12	61.1	59.5	71.5	63.2	63.8	57.8	61.9	75.7	42.2	75.7	62.7	61.1	53.9	78.5	67.3
23	HKH - 317	60.2	58.7	54.2	65.3	59.6	32.2	56.5	36.0	15.6	68.8	41.8	60.4	17.8	46.5	47.6
24	HKH - 318	18.5	47.6	34.0	74.3	43.6	21.1	56.0	19.5	6.7	75.0	35.7	56.9	6.7	11.1	13.1
CHECKS																
25	JH-3459	63.0	58.7	52.1	68.8	60.6	53.9	63.7	73.3	62.8	74.3	65.6	59.7	56.1	72.2	66.7
26	Prakash	61.1	65.1	56.3	70.1	63.1	56.1	61.3	69.0	54.4	70.8	62.3	62.5	54.4	68.8	49.4
	Loc. Mean	61.0	63.0	61.0	67.7	63.2	53.2	61.1	67.3	49.6	73.5	60.9	63.5	50.6	68.7	57.0
	C.D. (5%)	5.58	9.01	4.98	15.14	10.00	16.83	7.49	7.78	14.68	9.78	9.74	14.49	6.06	9.57	11.47
	C.V. (%)	5.58	8.71	4.97	13.64	11.24	19.29	7.47	7.05	18.04	8.11	12.74	13.91	7.30	8.50	12.27
	F (Prob.)	0.00	0.00	0.00	0.45	0.02	0.00	0.46	0.00	0.00	0.00	0.00	0.73	0.00	0.00	0.00

Table No. 3 (Continued)

SI No.	PEDIGREE	STAND AT HARVEST ('000/ha)															
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	JHAB	ZN 5 Mean	OV'L Mean
1	KDMH 755	56.3	59.5	51.7	57.2	57.8	69.4	58.9	65.3	60.1	75.7	63.2	53.5	63.9	55.6	62.4	60.2
2	X7D610	72.2	65.4	62.8	56.7	57.8	80.6	63.1	65.3	64.4	79.2	57.6	62.5	65.0	68.1	66.5	64.6
3	X8F984	72.9	64.5	53.3	53.9	57.8	81.3	64.3	66.0	62.8	67.4	63.2	70.8	63.3	63.9	65.7	64.4
4	FH 3513	79.9	68.3	60.6	55.0	54.4	81.3	65.5	66.0	63.8	84.7	64.6	61.1	65.6	63.9	68.0	66.8
5	KMH-128	73.6	61.2	62.2	60.6	57.8	78.5	62.5	66.7	64.7	67.4	61.1	73.6	63.3	68.1	66.7	64.3
6	JKMH-7037	77.1	69.1	55.6	60.6	58.9	75.0	58.9	61.8	61.8	67.4	65.3	78.5	65.6	63.9	68.1	66.3
7	Hy. P 1635	70.8	67.2	58.3	56.1	61.7	81.3	61.3	65.3	64.0	59.7	63.2	74.3	63.9	63.9	65.0	64.8
8	X8B561	77.1	66.8	57.2	51.7	60.6	69.4	64.9	66.7	61.7	71.5	60.4	63.9	63.9	63.2	64.6	65.5
9	Hy. 31Y45	59.0	62.5	60.6	60.6	55.6	75.0	59.5	66.0	62.9	66.0	66.0	72.9	66.7	62.5	66.8	64.9
10	JH 31204	72.9	67.5	56.7	56.7	60.6	77.1	56.5	65.3	62.1	81.9	63.2	80.6	61.1	69.4	71.2	66.1
11	JH 31403	70.1	66.1	60.0	49.4	58.3	80.6	64.3	66.0	63.1	75.7	61.1	72.2	61.1	58.3	65.7	64.6
12	KH-101-Gold	51.4	60.6	60.6	60.6	58.9	68.8	56.5	66.0	61.9	77.1	62.5	64.6	65.0	62.5	66.3	62.5
13	Sun - Vaaman	50.0	61.0	57.2	60.6	60.6	74.3	61.3	65.3	63.2	54.9	61.8	57.6	64.4	68.1	61.4	62.3
14	Sun - 306	66.0	59.0	55.6	61.1	58.9	74.3	65.5	65.3	63.4	67.4	63.2	67.4	65.6	61.1	64.9	62.4
15	KNMH-4010141	75.7	66.3	59.4	55.6	56.7	72.9	62.5	66.0	62.2	72.9	61.8	68.8	66.1	73.6	68.6	65.7
16	L210	78.5	64.8	56.1	47.2	58.3	74.3	61.9	65.3	60.5	69.4	63.2	63.9	65.0	61.1	64.5	64.0
17	EH-2094	45.8	49.3	51.1	57.2	60.6	75.0	60.1	66.0	61.7	64.6	65.3	55.6	62.2	73.6	64.3	56.0
18	VEH-10-1	68.8	65.6	64.4	57.2	61.7	77.1	64.9	66.7	65.3	46.5	63.2	78.5	62.8	66.7	63.5	65.4
19	WH-2051	70.1	62.2	58.3	55.0	55.6	75.0	64.3	63.2	61.9	51.4	63.9	49.3	65.6	55.6	57.1	60.1
20	WH-2058	58.3	59.6	58.9	54.4	58.9	58.3	58.9	63.2	58.8	45.8	61.8	47.9	62.2	66.7	56.9	59.8
21	REH 2009-11	60.4	59.6	20.6	52.8	57.2	-	57.1	65.3	50.6	50.7	59.7	58.3	63.9	58.3	58.2	58.0
22	REH 2009-12	63.2	64.8	31.1	56.1	62.2	-	56.0	63.9	53.9	79.9	61.1	74.3	64.4	63.2	68.6	62.7
23	HKH - 317	12.5	37.0	51.1	57.8	58.3	-	-	23.6	47.7	29.9	63.9	19.4	29.4	66.7	41.9	44.9
24	HKH - 318	9.0	19.4	57.8	56.7	59.4	-	-	17.4	47.8	60.4	62.5	4.9	12.2	65.3	41.1	36.8
CHECKS																	
25	JH-3459	62.5	63.4	55.6	60.6	61.7	79.9	57.1	66.7	63.6	79.9	66.0	71.5	62.8	70.8	70.2	64.8
26	Prakash	66.7	60.4	54.4	55.0	59.4	72.9	59.5	63.9	60.9	72.2	60.4	53.5	61.7	66.7	62.9	61.8
	Loc. Mean	62.3	60.4	55.0	56.4	58.8	75.1	61.1	61.8	60.6	66.1	62.7	61.5	60.6	64.6	63.1	61.5
	C.D. (5%)	13.06	9.70	12.78	9.28	5.38	10.82	4.72	4.28	7.96	7.89	5.52	12.60	5.35	8.76	12.16	4.45
	C.V. (%)	12.78	12.80	14.16	10.04	5.58	10.38	5.11	4.23	11.50	7.28	5.37	12.49	5.38	8.26	15.36	13.03
	F (Prob.)	0.00	0.00	0.00	0.30	0.35	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.01	0.00	0.00

TABLE No. 4

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, BHUBNESHWAR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN IET, TRIAL No. TR64 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																											
		ALMO					BAJA					BARA					KANG					ZN 1 MEAN					ZN 2 MEAN		
1	FH 3510	10349	2	10211	2	4043	6	7873	1	8119	3	6164	7	3710	4	6638	6	9011	6	3431	3	5791	5						
2	FH 3520	8815	6	8589	6	4454	4	6677	5	7134	6	6656	4	4066	1	6374	7	8980	7	4908	2	6197	2						
3	FH 3521	8666	7	7386	7	3143	8	5990	8	6296	8	5636	9	3402	9	5092	11	7737	12	1641	12	4702	12						
4	FH 3525	10076	3	9642	4	4559	3	6570	6	7712	4	7235	2	3702	5	7347	2	8482	10	2565	8	5866	4						
5	33H25	9885	4	9902	3	2231	12	6845	4	7216	5	6347	6	3973	3	4553	12	8233	11	2836	7	5188	10						
6	Hy. P 1453	11163	1	11386	1	5906	2	7425	3	8970	1	7485	1	388	12	9058	1	9910	2	3139	4	5996	3						
7	KH-9888	9610	5	9354	5	6363	1	7612	2	8235	2	6931	3	3491	6	7039	4	10553	1	3125	5	6228	1						
8	DH-192	7618	12	7101	9	2697	11	4895	12	5578	12	5463	10	3465	7	5494	10	8702	9	1654	11	4956	11						
9	DH-193	7697	11	6294	12	2785	10	5581	11	5589	11	5386	11	4011	2	5819	8	9167	4	2298	10	5336	9						
10	DH-194	7978	10	6988	11	4224	5	6031	7	6305	7	5711	8	2985	11	5819	9	8786	8	5525	1	5765	6						
	CHECKS																												
11	Vivek QPM 9	8200	9	7095	10	3245	7	5672	9	6053	9	5131	12	3136	10	6767	5	9286	3	2939	6	5452	8						
12	Vivek Hybrid 9	8553	8	7184	8	2827	9	5604	10	6042	10	6358	5	3438	8	7071	3	9131	5	2405	9	5681	7						
	Location Mean	9051		8428		3873		6398		6937		6209		3314		6423		8998		3039		5596							
	Mean Stand	23		31		31		32		29		34		34		37		37		33		35							
	C.D. (5%)	1035		1389		640		1403		1117		1162		568		1506		2575		810		1324							
	C.V. (%)	6.73		9.71		9.73		12.92		-		11.02		10.1		13.81		16.85		15.69		-							
	F (Prob)	0		0		0		0.155		-		0.002		0		0		0.878		0		-							
	Plot Size	3.6		4.2		4.8		4.8		-		6		5.6		5.46		6		6		-							
	AGRONOMY DATA																												
	Sowing Date	28-06		19-06		7-06		23-06		-		7-12		26-06		28-06		16-06		14-07		-							
	Harvest Date	20-10		12-10		10-05		11-10		-		15-10		27-09		10-06		28-09		20-11		-							
	Irrigation Nos	-		3		-		-		-		-		4		2		-		-		-							
	Fertilizer Applied N	80		120		80		120		-		150		150		80		120		120		-							
	Fertilizer Applied P	60		60		60		60		-		75		60		40		60		60		-							
	Fertilizer Applied K	40		40		40		40		-		75		60		-		40		40		-							

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DHOL 25.4 %

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3							
		BAHR	R	DHOL	R	BHUB	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R
1	FH 3510	5267	3	2555	7	5495	3	4990	7	7571	5	6935	2	6052	2	8500	4	9332	10	4656	10
2	FH 3520	4918	5	2226	11	5075	4	3716	11	6537	7	6025	4	5254	8	7621	7	9995	6	4670	9
3	FH 3521	4470	10	2477	9	4923	7	3600	12	6350	9	5201	10	4909	11	7490	8	9589	8	4116	12
4	FH 3525	5099	4	2243	10	4802	8	5737	4	7952	3	6143	3	5947	4	8754	3	9528	9	4700	8
5	33H25	4890	6	2681	5	4704	10	5933	3	9050	2	5640	5	6043	3	8282	5	10951	2	5440	3
6	Hy. P 1453	5653	1	4123	1	6046	1	7447	1	10973	1	7070	1	7438	1	10249	1	11871	1	4632	11
7	KH-9888	5339	2	2508	8	4710	9	5259	6	7840	4	5167	11	5663	5	8804	2	10422	5	4867	6
8	DH-192	4707	8	2865	3	4022	12	4823	8	5957	10	3898	12	4682	12	7644	6	9141	11	5498	1
9	DH-193	3889	12	2100	12	5007	6	5308	5	5927	11	5606	6	5147	9	6533	10	10795	3	4770	7
10	DH-194	4888	7	3022	2	4658	11	6072	2	5819	12	5223	9	5332	7	7438	9	9590	7	5442	2
CHECKS																					
11	Vivek QPM 9	4624	9	2629	6	5509	2	4028	9	7363	6	5304	8	5366	6	6456	11	9129	12	4882	5
12	Vivek Hybrid 9	4462	11	2801	4	5034	5	3827	10	6352	8	5498	7	5035	10	6136	12	10445	4	5048	4
	Location Mean	4851		2686		4999		5062		7308		5642		5572		7825		10066		4893	
	Mean Stand	31		33		30		36		32		34		33		36		34		36	
	C.D. (5%)	632		1159		270		916		1443		1722		997		2542		1784		505	
	C.V. (%)	7.67		25.4		3.18		10.66		11.63		17.97		-		19.13		10.44		6.08	
	F (Prob)	0.001		0.094		0		0		0		0.038		-		0.097		0.093		0	
	Plot Size	9.6		6		4.8		4.8		5.6		4.8		-		6		6		6	
AGRONOMY DATA																					
	Sowing Date	25-03		16-07		29-07		6-07		28-06		12-07		-		14-07		19-06		16-07	
	Harvest Date	1-11		-		27-10		30-09		6-10		-		-		29-10		10-10		-	
	Irrigation Nos	-		-		-		1		-		-		-		3		-		-	
	Fertilizer Applied N	120		150		120		100		120		100		-		150		180		200	
	Fertilizer Applied P	60		70		60		40		60		50		-		75		60		80	
	Fertilizer Applied K	60		50		60		40		40		30		-		37.5		50		60	

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		KOLH		MAND		COIM		ZN 4 MEAN		UDAI		BANS		GODH		CHHI		ZN 5 MEAN		OV'L MEAN	
1	FH 3510	9241	6	6318	5	8748	4	7799	5	4730	3	4817	4	5736	2	9141	5	6106	1	6788	3
2	FH 3520	8184	8	6726	2	7320	9	7419	7	4399	7	4327	6	4672	6	9663	2	5765	5	6390	6
3	FH 3521	9441	5	6550	3	6371	12	7260	8	4303	9	4028	8	4596	9	5945	12	4718	12	5653	11
4	FH 3525	9459	4	6519	4	7972	6	7822	4	4487	5	4560	5	4910	5	9321	3	5820	4	6672	4
5	33H25	11861	1	5526	9	8977	3	8506	2	4071	11	3556	12	6169	1	9002	6	5699	7	6619	5
6	Hy. P 1453	10587	2	7180	1	11249	1	9295	1	4841	1	4853	3	3220	12	11266	1	6045	2	7625	1
7	KH-9888	9761	3	4923	11	10013	2	8132	3	3980	12	3844	9	5083	4	9188	4	5524	8	6803	2
8	DH-192	4928	12	5262	10	6389	11	6477	12	4101	10	3786	10	4612	7	6529	11	4757	11	5349	12
9	DH-193	5904	11	5650	8	7537	8	6865	11	4637	4	3749	11	4405	10	7175	10	4992	10	5664	10
10	DH-194	7270	10	4107	12	7766	7	6935	9	4788	2	4035	7	3709	11	7688	9	5055	9	5939	9
CHECKS																					
11	Vivek QPM 9	8070	9	5959	6	6974	10	6911	10	4481	6	5405	1	5259	3	8727	7	5968	3	5985	8
12	Vivek Hybrid 9	8663	7	5788	7	8466	5	7424	6	4338	8	5262	2	4606	8	8659	8	5716	6	6048	7
	Location Mean	8614		5876		8148		7570		4430		4352		4748		8525		5514		6295	
	Mean Stand	38		34		32		35		36		30		34		39		35		34	
	C.D. (5%)	1387		595		1072		1314		288		646		1289		771		748		1123	
	C.V. (%)	9.48		5.96		7.75		-		3.83		8.74		15.98		5.32		-		-	
	F (Prob)	0		0		0				0.011		0		0.009		0					
	Plot Size	4.8		5.6		4.8		-		4.8		4.8		4.8		6		-		-	
AGRONOMY DATA																					
	Sowing Date	7-09		13-07		6-07		-		4-07		9-07		7-07		29-06		-		-	
	Harvest Date	4-12		3-12		20-10		-		6-10		22-10		13-10		19-10		-		-	
	Irrigation Nos	-		6		9		-		-		1		-		-		-		-	
	Fertilizer Applied N	100		150		150		-		90		120		150		120		-		-	
	Fertilizer Applied P	50		75		75		-		60		40		50		60		-		-	
	Fertilizer Applied K	30		40		75		-		-		-		50		40		-		-	

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9															
		ALMO	BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	26.2	43.9	24.6	38.8	34.1	20.1	18.3	-	-	16.8	6.2	13.9	-	-	23.9	2.8
2	FH 3520	7.5	21.1	37.2	17.7	17.9	29.7	29.7	-	-	67	13.7	6.3	-	-	-	-
3	FH 3521	5.7	4.1	-	5.6	4	9.8	8.5	-	-	-	-	-	-	-	-	-
4	FH 3525	22.9	35.9	40.5	15.8	27.4	41	18.1	8.6	-	-	7.6	10.3	-	-	42.4	8
5	33H25	20.6	39.6	-	20.7	19.2	23.7	26.7	-	-	-	-	5.7	2	-	47.3	22.9
6	Hy. P 1453	36.1	60.5	82	30.9	48.2	45.9	-	33.9	6.7	6.8	10	22.3	56.9	9.8	84.9	49
7	KH-9888	17.2	31.8	96.1	34.2	36	35.1	11.3	4	13.6	6.3	14.2	15.5	-	-	30.5	6.5
8	DH-192	-	0.1	-	-	-	6.5	10.5	-	-	-	-	1.8	9	-	19.7	-
9	DH-193	-	-	-	-	-	5	27.9	-	-	-	-	-	-	-	31.8	-
10	DH-194	-	-	30.2	6.3	4.2	11.3	-	-	-	88	5.7	5.7	14.9	-	50.8	-
CHECKS																	
11	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	Vivek Hybrid 9	4.3	1.3	-	-	-	23.9	9.6	4.5	-	-	4.2	-	6.5	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9															
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN	OV'L MEAN	
1	FH 3510	30.7	12.8	31.7	2.2	-	14.5	6	25.4	12.8	5.6	-	9.1	4.7	2.3	13.4	
2	FH 3520	13.6	-	18	9.5	-	1.4	12.9	5	7.3	-	-	-	10.7	-	6.8	
3	FH 3521	-	-	16	5	-	17	9.9	-	5	-	-	-	-	-	-	
4	FH 3525	15.8	10.8	35.6	4.4	-	17.2	9.4	14.3	13.2	0.1	-	-	6.8	-	11.5	
5	33H25	6.3	12.6	28.3	20	11.4	47	-	28.7	23.1	-	-	17.3	3.1	-	10.6	
6	Hy. P 1453	33.3	38.6	58.8	30	-	31.2	20.5	61.3	34.5	8	-	-	29.1	1.3	27.4	
7	KH-9888	-	5.5	36.4	14.2	-	21	-	43.6	17.7	-	-	-	5.3	-	13.7	
8	DH-192	-	-	18.4	0.1	12.6	-	-	-	-	-	-	-	-	-	-	
9	DH-193	5.7	-	1.2	18.3	-	-	-	8.1	-	3.5	-	-	-	-	-	
10	DH-194	-	-	15.2	5.1	11.5	-	-	11.4	0.3	6.9	-	-	-	-	-	
CHECKS																	
11	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	Vivek Hybrid 9	3.6	-	-	14.4	3.4	7.4	-	21.4	7.4	-	-	-	-	-	1.1	

TABLE No. 4 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9															
		ALMO	BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	21	42.2	43	40.5	34.4	-	7.9	-	-	42.7	1.9	18	-	9.2	30.4	19.2
2	FH 3520	3.1	19.6	57.5	19.1	18.1	4.7	18.3	-	-	104.1	9.1	10.2	-	0.8	-	2.9
3	FH 3521	1.3	2.8	11.2	6.9	4.2	-	-	-	-	-	-	0.2	-	-	-	-
4	FH 3525	17.8	34.2	61.2	17.2	27.6	13.8	7.7	3.9	-	6.7	3.3	14.3	-	-	49.9	25.2
5	33H25	15.6	37.8	-	22.1	19.4	-	15.6	-	-	17.9	-	9.6	-	-	55	42.5
6	Hy. P 1453	30.5	58.5	108.9	32.5	48.5	17.7	-	28.1	8.5	30.5	5.6	26.7	47.2	20.1	94.6	72.8
7	KH-9888	12.4	30.2	125.1	35.8	36.3	9	1.6	-	15.6	29.9	9.6	19.6	-	-	37.4	23.4
8	DH-192	-	-	-	-	-	-	0.8	-	-	-	-	5.5	2.3	-	26	-
9	DH-193	-	-	-	-	-	-	16.7	-	0.4	-	-	-	-	-	38.7	-
10	DH-194	-	-	49.4	7.6	4.4	-	-	-	-	129.7	1.5	9.5	7.9	-	58.7	-
CHECKS																	
11	Vivek QPM 9	-	-	14.8	1.2	0.2	-	-	-	1.7	22.2	-	3.6	-	9.4	5.3	15.9
12	Vivek Hybrid 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9															
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN	OV'L MEAN	
1	FH 3510	26.1	20.2	38.5	-	-	6.7	9.2	3.3	5	9	-	24.5	5.6	6.8	12.2	
2	FH 3520	9.6	4.4	24.2	-	-	-	16.2	-	-	1.4	-	1.4	11.6	0.9	5.7	
3	FH 3521	-	-	22.1	-	-	9	13.2	-	-	-	-	-	-	-	-	
4	FH 3525	11.7	18.1	42.7	-	-	9.2	12.6	-	5.4	3.4	-	6.6	7.6	1.8	10.3	
5	33H25	2.6	20	35	4.8	7.7	36.9	-	6	14.6	-	-	33.9	4	-	9.4	
6	Hy. P 1453	28.6	47.7	67	13.7	-	22.2	24.1	32.9	25.2	11.6	-	-	30.1	5.7	26.1	
7	KH-9888	-	12.5	43.5	-	-	12.7	-	18.3	9.5	-	-	10.4	6.1	-	12.5	
8	DH-192	-	-	24.6	-	8.9	-	-	-	-	-	-	0.1	-	-	-	
9	DH-193	2	2.2	6.5	3.3	-	-	-	-	-	6.9	-	-	-	-	-	
10	DH-194	-	5.9	21.2	-	7.8	-	-	-	-	10.4	-	-	-	-	-	
CHECKS																	
11	Vivek QPM 9	-	6.6	5.2	-	-	-	3	-	-	3.3	2.7	14.2	0.8	4.4	-	
12	Vivek Hybrid 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table No. 4 (Continued)

		DAYS TO 50% SILKING															
Sl		ZN 1										ZN 2					
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	52.3	58.3	53.0	49.7	53.3	50.0	49.7	47.7	53.3	50.0	50.1	49.3	49.0	47.0	51.0	49.3
2	FH 3520	51.3	56.3	54.0	49.3	52.8	49.3	51.0	46.7	51.7	50.0	49.7	47.7	47.7	45.7	50.7	49.0
3	FH 3521	52.3	60.0	54.3	51.3	54.5	49.7	50.3	48.3	51.7	51.0	50.2	49.3	47.0	45.3	51.7	49.0
4	FH 3525	49.7	57.3	53.3	48.7	52.3	46.3	46.3	43.3	50.0	51.0	47.4	43.0	46.3	43.3	47.7	48.3
5	33H25	52.0	55.7	53.7	53.3	53.7	51.7	50.3	48.3	53.0	50.0	50.7	47.3	48.7	46.7	51.7	49.0
6	Hy. P 1453	53.3	59.3	55.0	52.0	54.9	51.0	51.0	48.0	55.0	52.0	51.4	50.7	49.7	47.3	51.7	49.3
7	KH-9888	51.7	58.3	53.0	52.3	53.8	49.3	49.3	47.0	55.3	53.0	50.8	47.7	49.7	46.3	49.7	49.3
8	DH-192	51.7	57.3	54.7	49.3	53.3	49.0	51.0	45.0	52.3	50.0	49.5	44.3	47.0	44.0	50.7	49.7
9	DH-193	51.3	59.7	53.0	48.7	53.2	48.0	47.7	46.3	51.3	49.0	48.5	45.7	47.3	43.0	49.3	49.0
10	DH-194	50.7	58.0	55.0	49.3	53.3	48.0	46.3	44.3	51.3	48.0	47.6	45.3	46.0	44.3	49.3	48.3
CHECKS																	
11	Vivek QPM 9	48.0	53.3	54.0	49.7	51.3	47.7	50.3	44.0	51.3	53.0	49.3	47.0	47.3	44.7	48.3	46.7
12	Vivek Hybrid 9	48.3	53.3	52.0	49.7	50.8	49.3	47.3	44.3	52.0	50.0	48.6	46.3	47.7	47.0	49.0	47.3
	Loc. Mean	51.1	57.3	53.8	50.3	53.1	49.1	49.2	46.1	52.4	50.6	49.5	47.0	47.8	45.4	50.1	48.7
	C.D. (5%)	0.93	2.78	0.92	1.59	1.90	2.04	4.55	1.68	1.96	-	1.50	0.93	2.50	1.85	1.83	1.30
	C.V. (%)	1.07	2.86	1.01	1.86	2.48	2.45	5.46	2.15	2.22	-	2.37	1.17	3.08	2.41	2.16	1.58
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	-	0.00	0.00	0.07	0.00	0.00	0.00

		DAYS TO 50% SILKING															
Sl		ZN 3								ZN 4				ZN 5		OV'L	
No	PEDIGREE	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	46.7	48.7	55.0	47.3	53.0	54.3	48.7	50.7	51.5	51.7	36.7	48.0	49.0	46.3	50.0	
2	FH 3520	47.0	47.9	52.7	48.3	52.7	52.0	48.0	49.3	50.5	48.3	39.3	45.7	47.0	45.1	49.2	
3	FH 3521	46.0	48.1	53.7	48.0	49.3	52.0	47.0	49.0	49.8	51.7	38.0	47.0	45.7	45.6	49.5	
4	FH 3525	45.3	45.7	52.3	48.0	49.3	52.0	47.7	49.3	49.8	49.7	36.7	45.0	46.3	44.4	47.9	
5	33H25	47.0	48.4	53.7	47.0	48.7	53.7	49.7	52.3	50.8	51.3	37.3	47.7	47.3	45.9	49.9	
6	Hy. P 1453	48.3	49.5	54.3	48.7	52.0	54.3	49.0	52.7	51.8	51.7	37.3	48.7	47.0	46.2	50.8	
7	KH-9888	46.7	48.2	51.7	47.7	54.7	54.0	48.0	51.3	51.2	50.0	37.3	45.7	47.0	45.0	49.8	
8	DH-192	43.7	46.6	53.3	48.0	48.3	51.3	46.7	48.7	49.4	48.3	38.0	44.7	47.0	44.5	48.6	
9	DH-193	43.0	46.2	50.7	49.3	44.3	53.7	46.7	48.0	48.8	48.3	39.3	44.7	46.0	44.6	48.1	
10	DH-194	44.0	46.2	51.0	48.7	47.0	53.3	45.7	49.0	49.1	47.0	36.7	44.0	46.0	43.4	47.9	
CHECKS																	
11	Vivek QPM 9	42.7	46.1	50.7	49.3	47.3	52.0	45.3	48.3	48.8	48.3	40.0	45.0	46.0	44.8	48.0	
12	Vivek Hybrid 9	42.0	46.6	52.3	48.0	50.0	51.0	46.3	45.7	48.9	45.7	37.7	45.0	47.3	43.9	47.8	
	Loc. Mean	45.2	47.3	52.6	48.2	49.7	52.8	47.4	49.5	50.0	49.3	37.9	45.9	46.8	45.0	49.0	
	C.D. (5%)	1.18	1.27	3.31	1.67	1.57	2.06	1.14	1.13	1.71	1.15	1.78	1.44	1.26	1.90	0.71	
	C.V. (%)	1.54	2.32	3.72	2.04	1.87	2.30	1.42	1.35	2.96	1.38	2.78	1.85	1.60	2.93	2.61	
	F (Prob.)	0.00	0.00	0.16	0.17	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.09	0.00	

Table No. 4 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED															
		ZN 1					ZN 2										
		ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	51.3	56.0	52.0	46.7	51.5	47.3	47.7	47.0	49.0	46.0	47.4	47.3	48.0	44.0	46.3	45.0
2	FH 3520	51.0	54.0	52.3	46.3	50.9	48.0	49.0	46.3	47.0	46.0	47.3	46.0	45.7	44.7	46.3	45.0
3	FH 3521	51.0	57.3	52.0	48.3	52.2	47.0	48.3	47.3	48.3	47.0	47.6	47.3	45.0	42.7	45.3	44.3
4	FH 3525	49.3	55.3	53.0	45.7	50.8	44.3	44.0	43.0	45.3	45.0	44.3	41.3	44.7	41.3	42.7	44.7
5	33H25	51.3	53.3	52.0	49.7	51.6	50.3	48.0	47.3	49.0	45.0	47.9	45.3	47.7	45.3	48.7	44.7
6	Hy. P 1453	52.3	57.3	53.0	46.7	52.3	50.0	48.7	47.0	51.3	47.0	48.8	48.7	48.7	45.3	48.0	45.3
7	KH-9888	51.3	54.3	51.0	47.3	51.0	47.7	47.3	45.3	51.3	47.0	47.7	45.7	48.3	44.7	46.0	44.7
8	DH-192	50.7	54.0	54.0	46.3	51.3	47.3	45.3	44.0	48.0	44.0	45.7	42.3	44.7	42.7	46.7	45.3
9	DH-193	50.7	57.3	51.0	45.7	51.2	46.3	44.7	45.3	47.0	44.0	45.5	43.7	45.0	41.3	43.7	44.3
10	DH-194	49.7	55.3	53.0	46.3	51.1	45.0	44.3	43.3	46.7	43.0	44.5	43.3	44.3	42.7	44.7	44.0
	CHECKS																
11	Vivek QPM 9	48.0	50.0	52.0	46.7	49.2	45.0	44.3	43.3	47.0	48.0	45.5	45.3	46.3	43.3	43.3	43.0
12	Vivek Hybrid 9	48.0	49.7	51.0	46.7	48.8	46.3	45.3	44.0	47.7	44.0	45.5	44.7	45.7	45.7	43.3	43.3
	Loc. Mean	50.4	54.5	52.2	46.9	51.0	47.1	46.4	45.3	48.1	45.5	46.5	45.1	46.2	43.6	45.4	44.5
	C.D. (5%)	1.00	2.14	0.28	1.54	2.09	1.69	3.10	1.86	1.81	-	1.40	1.07	2.60	1.40	1.42	1.19
	C.V. (%)	1.17	2.32	0.32	1.95	2.85	2.12	3.95	2.42	2.22	-	2.36	1.41	3.33	1.89	1.85	1.59
	F (Prob.)	0.00	0.00	0.00	0.00	0.05	0.00	0.01	0.00	0.00	-	0.00	0.00	0.01	0.00	0.00	0.01

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED															
		ZN 3					ZN 4										
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	44.0	45.8	53.3	44.7	50.0	53.3	47.7	48.7	49.6	49.3	33.7	47.0	47.3	44.3	47.7	
2	FH 3520	44.0	45.3	51.3	44.7	49.3	51.0	47.3	47.3	48.5	45.7	36.3	44.7	46.0	43.2	47.0	
3	FH 3521	43.3	44.7	50.0	45.7	46.3	51.0	45.7	47.0	47.6	48.3	34.7	45.3	45.3	43.4	47.0	
4	FH 3525	42.3	42.8	51.3	46.3	46.7	51.0	47.0	47.3	48.3	46.3	33.3	43.3	45.3	42.1	45.6	
5	33H25	44.3	46.0	54.0	46.3	46.3	52.7	48.3	50.7	49.7	48.7	34.3	46.7	47.3	44.3	47.9	
6	Hy. P 1453	46.0	47.0	54.0	45.0	50.0	53.3	50.3	50.7	50.6	49.7	34.0	47.7	47.0	44.6	48.7	
7	KH-9888	44.0	45.6	51.7	46.3	51.7	53.0	47.3	49.3	49.9	46.7	34.3	44.7	47.0	43.2	47.5	
8	DH-192	41.0	43.8	51.7	46.0	46.3	50.3	45.3	46.7	47.7	45.7	35.0	43.7	45.7	42.5	46.1	
9	DH-193	40.7	43.1	49.7	47.3	42.0	52.7	44.7	46.0	47.1	46.0	36.0	43.7	45.7	42.8	45.8	
10	DH-194	41.3	43.4	49.3	46.3	44.7	52.3	44.0	46.7	47.2	44.3	33.3	42.0	45.3	41.3	45.4	
	CHECKS																
11	Vivek QPM 9	40.3	43.6	50.0	46.3	44.7	51.0	44.3	46.3	47.1	44.7	36.3	44.0	44.3	42.3	45.5	
12	Vivek Hybrid 9	40.0	43.8	51.3	46.0	47.7	50.0	44.7	43.7	47.2	43.3	34.7	43.7	45.7	41.8	45.4	
	Loc. Mean	42.6	44.6	51.5	45.9	47.1	51.8	46.4	47.5	48.4	46.6	34.7	44.7	46.0	43.0	46.6	
	C.D. (5%)	0.83	1.34	3.46	1.83	1.50	2.06	1.14	1.06	1.67	1.09	1.59	1.52	0.85	1.80	0.72	
	C.V. (%)	1.15	2.61	3.97	2.36	1.88	2.34	1.45	1.32	2.99	1.38	2.70	2.00	1.09	2.91	2.79	
	F (Prob.)	0.00	0.00	0.10	0.17	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	

Table No. 4 (Continued)

		DAYS TO 75% DRY HUSK														
Sl		ZN 1					ZN 2									
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	96.7	86.7	95.0	86.3	91.2	98.3	83.0	77.7	73.0	83.0	82.0	80.0	83.0	81.3	84.0
2	FH 3520	94.0	91.3	96.0	88.3	92.4	97.3	83.0	76.3	71.0	81.9	79.3	80.0	80.0	78.3	83.0
3	FH 3521	96.3	93.7	97.0	90.3	94.3	97.3	84.0	77.3	70.0	82.2	79.3	81.0	81.3	81.3	83.3
4	FH 3525	93.0	83.3	94.3	87.0	89.4	94.7	84.0	74.0	70.0	80.7	76.7	75.7	79.7	76.0	83.0
5	33H25	94.3	87.7	94.7	86.7	90.8	98.7	83.3	77.0	75.0	83.5	78.3	78.0	78.3	78.7	84.7
6	Hy. P 1453	100.7	89.7	98.0	85.7	93.5	98.3	83.7	78.3	72.0	83.1	78.7	80.0	80.7	81.3	87.3
7	KH-9888	95.0	89.0	95.0	87.3	91.6	96.7	84.0	77.7	71.0	82.3	77.0	78.7	78.0	79.3	83.7
8	DH-192	93.0	86.3	95.7	86.0	90.3	97.3	83.3	76.0	73.3	82.5	72.7	76.0	78.0	79.7	84.7
9	DH-193	95.7	88.3	95.0	86.7	91.4	96.3	83.7	77.3	73.0	82.6	74.3	77.0	76.3	80.0	82.7
10	DH-194	93.7	83.7	98.0	86.0	90.3	96.3	84.3	74.3	72.0	81.8	75.3	76.0	79.3	81.0	82.3
CHECKS																
11	Vivek QPM 9	91.3	86.3	93.0	84.3	88.8	96.0	83.7	74.0	70.0	80.9	79.7	78.0	79.3	77.7	82.3
12	Vivek Hybrid 9	92.3	88.0	90.0	85.7	89.0	98.3	83.3	75.0	71.3	82.0	75.0	77.3	80.3	79.0	82.7
	Loc. Mean	94.7	87.8	95.1	86.7	91.1	97.1	83.6	76.3	71.8	82.2	77.4	78.1	79.5	79.5	83.6
	C.D. (5%)	1.52	3.53	2.16	2.51	2.63	2.21	1.97	1.44	0.82	1.59	1.08	2.80	2.04	2.71	2.04
	C.V. (%)	0.95	2.37	1.34	1.71	2.01	1.35	1.39	1.12	0.67	1.34	0.82	2.12	1.51	2.01	1.44
	F (Prob.)	0.00	0.00	0.00	0.01	0.00	0.03	0.94	0.00	0.00	0.03	0.00	0.01	0.00	0.01	0.00

		DAYS TO 75% DRY HUSK															
Sl		ZN 3					ZN 4					ZN 5					OV'L
No	PEDIGREE	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	79.3	81.6	75.0	87.3	69.7	83.3	91.0	90.0	82.7	78.3	70.0	78.7	86.7	78.4	83.2	
2	FH 3520	82.3	80.5	72.7	83.3	69.3	81.3	90.3	87.3	80.7	77.7	72.0	77.3	85.7	78.2	82.4	
3	FH 3521	83.7	81.7	73.7	83.7	69.0	82.0	91.3	87.3	81.2	78.3	72.0	79.3	86.0	78.9	83.3	
4	FH 3525	82.3	78.9	72.3	83.7	70.7	82.0	91.3	88.7	81.4	75.3	70.7	76.7	85.7	77.1	81.3	
5	33H25	79.0	79.5	73.7	82.0	69.7	83.0	89.7	92.0	81.7	83.3	70.3	77.0	82.7	78.3	82.4	
6	Hy. P 1453	83.0	81.8	74.3	86.3	69.7	83.7	94.0	92.0	83.3	78.0	70.0	78.3	87.0	78.3	83.8	
7	KH-9888	83.3	80.0	71.7	86.3	71.0	83.3	88.7	90.7	81.9	77.7	70.7	76.7	83.7	77.2	82.3	
8	DH-192	80.0	78.5	73.3	83.7	71.7	81.3	87.3	87.0	80.7	77.3	70.7	75.7	80.3	76.0	81.3	
9	DH-193	77.0	77.9	70.7	84.3	72.0	83.3	88.0	86.3	80.8	77.7	71.7	76.0	80.7	76.5	81.4	
10	DH-194	80.3	79.1	71.0	84.3	69.3	83.0	89.0	87.7	80.7	79.0	70.3	76.0	80.7	76.5	81.4	
CHECKS																	
11	Vivek QPM 9	77.3	79.1	70.7	84.3	69.0	82.0	88.0	87.3	80.2	79.0	73.7	77.3	84.7	78.7	81.2	
12	Vivek Hybrid 9	79.7	79.0	72.3	82.7	70.7	81.0	88.7	84.0	79.9	77.7	71.0	78.0	85.3	78.0	81.2	
	Loc. Mean	80.6	79.8	72.6	84.3	70.1	82.4	89.8	88.4	81.3	78.3	71.1	77.3	84.1	77.7	82.1	
	C.D. (5%)	1.55	1.86	3.31	2.26	3.37	1.58	2.02	1.64	1.62	1.47	1.54	1.81	0.77	2.35	0.91	
	C.V. (%)	1.14	2.02	2.70	1.58	2.83	1.13	1.33	1.10	1.72	1.11	1.28	1.38	0.54	2.11	1.95	
	F (Prob.)	0.00	0.00	0.16	0.00	0.64	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.21	0.95	

Table No. 4 (Continued)

MOISTURE % AT HARVEST																
Sl		ZN 1					ZN 2									
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA
1	FH 3510	32.8	23.0	23.7	26.0	26.4	30.5	29.9	23.5	19.8	15.0	23.7	22.2	16.2	18.8	31.3
2	FH 3520	32.8	24.7	22.0	26.2	26.4	28.5	29.6	23.1	17.8	15.0	22.8	21.9	17.5	17.7	28.8
3	FH 3521	32.4	24.4	23.0	29.3	27.3	28.9	30.9	25.6	17.7	15.0	23.6	23.4	16.9	18.2	31.9
4	FH 3525	31.6	22.4	24.0	28.0	26.5	27.8	30.1	22.5	16.4	15.0	22.3	21.6	20.3	18.4	29.2
5	33H25	31.7	21.8	26.0	25.6	26.2	25.4	27.6	21.4	17.8	15.0	21.4	22.5	22.4	18.2	28.3
6	Hy. P 1453	35.0	22.2	22.7	26.9	26.7	31.6	30.5	25.8	18.2	15.0	24.2	22.1	15.9	18.7	31.5
7	KH-9888	32.2	21.3	25.7	25.8	26.3	30.4	30.0	22.3	18.0	15.0	23.1	21.4	20.1	18.4	30.5
8	DH-192	28.7	21.2	24.7	25.4	25.0	30.3	26.8	23.6	18.4	15.0	22.8	21.0	20.3	18.9	29.5
9	DH-193	32.0	23.8	22.3	27.8	26.5	30.5	28.9	23.4	17.3	15.0	23.0	20.7	18.7	18.4	29.9
10	DH-194	32.4	20.0	22.7	24.9	25.0	33.0	27.2	22.7	16.4	15.0	22.8	20.1	17.9	18.2	28.2
CHECKS																
11	Vivek QPM 9	28.1	19.5	22.3	25.9	23.9	29.4	30.0	21.1	16.6	15.0	22.4	22.4	20.3	17.9	26.9
12	Vivek Hybrid 9	29.2	20.4	21.7	26.0	24.3	30.8	28.8	20.5	18.1	15.0	22.6	20.9	17.3	17.8	27.1
	Loc. Mean	31.6	22.0	23.4	26.5	25.9	29.7	29.2	22.9	17.7	15.0	22.9	21.7	18.7	18.3	29.4
	C.D. (5%)	1.94	2.02	1.20	4.65	2.05	2.25	-	1.22	1.77	-	1.63	0.72	0.00	-	1.93
	C.V. (%)	3.62	5.42	3.04	10.37	5.51	4.47	-	3.13	5.90	-	5.58	1.97	0.00	-	3.88
	F (Prob.)	0.00	0.00	0.00	0.77	0.05	0.00	0.00	0.00	0.03	-	0.13	0.00	0.00	0.00	0.00

MOISTURE % AT HARVEST																	
Sl		ZN 3					ZN 4					ZN 5					OV'L
No	PEDIGREE	RANC	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	25.9	22.9	26.3	26.6	12.1	13.4	15.7	17.3	18.5	16.0	16.7	16.1	19.8	17.1	21.6	
2	FH 3520	24.7	22.1	23.6	24.7	12.2	12.8	14.6	19.0	17.8	14.0	16.4	14.5	18.1	15.7	20.8	
3	FH 3521	26.3	23.3	28.7	22.1	12.7	13.1	14.5	16.9	18.0	14.4	16.2	16.7	18.8	16.5	21.6	
4	FH 3525	24.0	22.7	23.1	24.3	12.2	11.8	14.5	16.3	17.0	15.0	16.1	16.9	17.1	16.3	20.8	
5	33H25	25.5	23.4	23.9	21.5	12.7	11.9	15.3	16.3	16.9	15.5	16.3	14.3	15.8	15.5	20.5	
6	Hy. P 1453	23.9	22.4	26.5	24.4	12.7	12.4	15.4	17.1	18.1	14.0	16.6	18.1	19.0	16.9	21.5	
7	KH-9888	24.4	22.9	23.9	21.8	11.4	12.9	14.5	17.4	17.0	14.8	16.2	15.1	18.2	16.1	20.9	
8	DH-192	24.0	22.7	26.2	24.3	12.1	13.3	14.7	16.5	17.8	16.0	16.8	16.2	16.0	16.2	20.8	
9	DH-193	23.3	22.2	23.8	21.8	12.5	13.8	15.6	13.6	16.8	13.8	16.1	14.5	18.9	15.8	20.7	
10	DH-194	24.7	21.8	24.2	20.9	12.5	13.3	13.5	15.6	16.6	15.1	16.7	15.6	16.9	16.1	20.3	
CHECKS																	
11	Vivek QPM 9	23.8	22.3	23.2	24.3	13.1	12.8	15.2	16.9	17.6	13.5	15.6	16.8	17.0	15.7	20.3	
12	Vivek Hybrid 9	25.5	21.7	24.4	23.2	12.2	13.3	14.3	16.0	17.2	16.1	17.0	16.0	15.9	16.2	20.3	
	Loc. Mean	24.6	22.5	24.8	23.3	12.4	12.9	14.8	16.5	17.4	14.8	16.4	15.9	17.6	16.2	20.8	
	C.D. (5%)	2.13	1.71	2.66	2.40	1.14	0.80	0.36	0.93	1.29	0.49	0.60	1.54	0.78	1.48	0.70	
	C.V. (%)	5.11	5.96	6.34	6.09	5.45	3.68	1.43	3.33	6.39	1.96	2.16	5.72	2.61	6.35	5.94	
	F (Prob.)	0.15	0.63	0.01	0.00	0.30	0.00	0.00	0.00	0.10	0.00	0.01	0.00	0.00	0.55	0.00	

Table No. 4 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)															
		ALMO				BAJA				BARA				KANG			
					ZN 1				ZN 2								
					Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC	
1	FH 3510	210.0	190.0	157.7	232.7	197.6	171.0	180.0	170.0	210.7	174.7	181.3	148.3	128.8	159.0	167.5	173.5
2	FH 3520	213.3	182.7	142.4	219.0	189.3	155.7	163.3	166.7	197.0	160.0	168.5	152.0	104.2	163.3	144.0	150.4
3	FH 3521	221.7	183.3	144.5	224.3	193.5	150.7	170.0	165.0	205.0	164.3	171.0	168.0	119.5	144.4	160.0	143.7
4	FH 3525	228.3	213.3	153.2	248.0	210.7	183.7	183.3	188.3	222.7	167.7	189.1	162.7	132.7	149.0	175.3	179.4
5	33H25	243.3	200.0	156.6	247.7	211.9	180.3	166.7	163.3	198.7	177.3	177.3	159.3	144.0	162.7	169.0	179.3
6	Hy. P 1453	273.3	220.0	188.6	257.7	234.9	201.0	185.0	200.0	242.0	163.7	198.3	166.3	160.5	166.5	195.0	184.3
7	KH-9888	245.0	198.3	176.7	245.0	216.3	190.7	173.3	188.3	242.0	167.0	192.3	160.0	157.0	169.5	171.3	182.5
8	DH-192	228.3	202.7	160.2	241.0	208.1	187.0	166.7	166.7	234.0	175.7	186.0	179.7	153.0	169.1	200.0	177.5
9	DH-193	226.7	193.3	158.0	226.3	201.1	183.3	171.7	186.7	224.0	173.0	187.7	163.7	146.3	153.1	166.3	145.9
10	DH-194	218.3	200.0	154.4	239.0	202.9	188.0	166.7	168.3	217.0	162.7	180.5	157.3	138.0	154.9	181.3	166.6
CHECKS																	
11	Vivek QPM 9	228.3	195.0	148.7	232.3	201.1	182.0	176.7	188.3	224.0	174.0	189.0	181.3	152.8	167.1	182.5	172.6
12	Vivek Hybrid 9	225.0	193.3	155.4	232.3	201.5	179.3	166.7	168.3	230.7	178.7	184.7	156.0	156.7	149.9	173.8	176.5
	Loc. Mean	230.1	197.7	158.0	237.1	205.7	179.4	172.5	176.7	220.6	169.9	183.8	162.9	141.1	159.1	173.8	169.4
	C.D. (5%)	10.10	22.40	3.75	18.24	9.51	18.27	20.58	14.81	18.82	8.25	11.42	29.39	15.36	6.65	9.90	27.38
	C.V. (%)	2.59	6.69	1.40	4.54	3.21	6.01	7.05	4.95	5.04	2.87	4.88	0.66	6.43	2.47	3.36	9.55
	F (Prob.)	0.00	0.07	0.00	0.01	0.00	0.00	0.43	0.00	0.00	0.00	0.00	0.49	0.00	0.00	0.00	0.04

Sl No	PEDIGREE	PLANT HEIGHT (cm)																
		AMBI				ZN 3				ZN 4				ZN 5				OV'L
					Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean
1	FH 3510	222.3	166.6	166.0	208.3	158.3	138.3	182.0	141.1	165.7	175.0	140.6	162.7	186.7	166.2	174.2		
2	FH 3520	206.7	153.4	152.5	184.3	155.0	128.3	183.7	139.3	157.2	182.7	139.2	140.3	166.7	157.2	163.7		
3	FH 3521	215.3	158.5	149.5	187.7	153.3	128.3	177.3	131.8	154.7	165.0	149.1	138.0	170.0	155.5	165.2		
4	FH 3525	219.5	169.8	176.0	222.3	158.3	141.7	202.7	165.3	177.7	184.3	162.6	156.3	196.7	175.0	182.9		
5	33H25	223.7	173.0	177.5	220.3	143.3	153.3	189.3	160.3	174.0	180.0	162.1	173.7	208.3	181.0	181.6		
6	Hy. P 1453	241.4	185.7	193.5	241.7	156.7	163.3	217.3	182.9	192.6	193.3	167.2	169.7	223.3	188.4	198.2		
7	KH-9888	236.8	179.5	197.0	225.3	153.3	150.0	196.7	172.3	182.4	178.3	161.9	168.7	225.0	183.5	189.3		
8	DH-192	221.3	183.4	165.5	201.3	155.0	131.7	203.0	148.7	167.5	188.3	150.6	164.7	205.0	177.2	183.1		
9	DH-193	232.3	167.9	174.0	217.0	171.7	141.7	199.3	160.1	177.3	166.7	155.5	161.7	181.7	166.4	179.2		
10	DH-194	226.5	170.8	159.0	216.3	145.0	130.0	191.0	166.3	167.9	188.3	163.2	147.3	201.7	175.1	177.9		
CHECKS																		
11	Vivek QPM 9	233.5	181.7	168.5	217.3	156.7	145.0	207.3	160.3	175.9	178.3	175.5	166.3	196.7	179.2	184.5		
12	Vivek Hybrid 9	226.5	173.2	165.5	220.7	150.0	145.0	182.7	175.8	173.3	203.3	137.3	171.3	196.7	177.2	180.7		
	Loc. Mean	225.5	172.0	170.4	213.6	154.7	141.4	194.4	158.7	172.2	182.0	155.4	160.1	196.5	173.5	180.0		
	C.D. (5%)	33.59	10.65	8.76	11.62	8.77	21.64	17.81	6.56	9.90	9.22	28.31	17.99	9.13	15.10	5.00		
	C.V. (%)	8.80	5.35	3.04	3.21	3.35	9.04	5.41	2.44	4.97	2.99	10.76	6.64	2.75	6.05	4.99		
	F (Prob.)	0.72	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00		144

Table No. 4 (Continued)

		EAR HEIGHT(cm)													
Sl						ZN 1					ZN 2				
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC
1	FH 3510	100.0	81.7	50.3	84.0	79.0	70.7	76.7	86.7	73.7	76.9	61.0	67.3	66.3	67.5
2	FH 3520	110.0	98.3	62.0	89.0	89.8	77.3	80.0	82.7	58.3	74.6	70.0	59.8	67.5	64.1
3	FH 3521	110.0	83.3	52.3	85.7	82.8	64.7	76.7	79.7	62.0	70.7	58.0	54.7	68.8	57.3
4	FH 3525	113.3	108.3	68.3	94.0	96.0	80.0	80.0	87.3	63.3	77.7	73.0	51.0	74.0	69.0
5	33H25	103.3	75.0	51.9	89.7	80.0	77.3	66.7	72.7	71.3	72.0	73.0	60.7	73.8	63.8
6	Hy. P 1453	131.7	103.3	71.0	108.3	103.6	93.7	86.7	86.0	67.0	83.3	74.0	64.0	85.5	87.5
7	KH-9888	123.3	100.0	81.3	94.7	99.8	93.7	86.7	96.3	70.3	86.8	63.0	75.3	85.0	77.2
8	DH-192	120.0	108.3	76.5	101.3	101.6	102.3	78.3	106.0	80.3	91.7	87.0	85.2	106.3	73.7
9	DH-193	120.0	111.7	76.0	97.0	101.2	94.7	86.7	100.0	73.7	88.7	68.7	72.9	91.3	70.2
10	DH-194	106.7	116.7	70.8	98.0	98.0	102.0	80.0	95.0	66.3	85.8	71.3	72.3	91.3	72.9
CHECKS															
11	Vivek QPM 9	105.0	98.3	59.4	85.3	87.0	82.3	90.0	91.3	68.0	82.9	72.0	68.6	91.3	67.3
12	Vivek Hybrid 9	111.7	97.0	68.9	88.0	91.4	74.0	73.3	90.3	70.3	77.0	68.0	66.1	78.8	71.8
	Loc. Mean	112.9	98.5	65.7	92.9	92.5	84.4	80.1	89.5	68.7	80.7	69.9	66.5	81.6	70.2
	C.D. (5%)	7.62	19.70	4.25	18.06	8.43	13.75	15.83	10.66	10.73	9.56	24.50	5.50	8.35	12.34
	C.V. (%)	3.99	11.81	3.82	11.48	6.33	9.62	11.67	7.03	9.22	8.23	20.70	4.88	6.04	10.38
	F (Prob.)	0.00	0.01	0.00	0.23	0.00	0.00	0.20	0.00	0.03	0.00	0.65	0.00	0.00	0.01

		EAR HEIGHT(cm)														
Sl						ZN 3					ZN 4				ZN 5	OV'L
No	PEDIGREE	AMBI	Mean	ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	64.7	65.4	74.0	53.3	71.7	84.7	71.6	71.1	78.3	55.5	64.0	68.3	66.6	71.4	
2	FH 3520	64.1	65.1	80.5	56.7	65.0	88.7	69.7	72.1	85.0	74.0	56.3	73.3	72.2	74.2	
3	FH 3521	64.2	60.6	63.5	36.7	65.0	84.3	61.8	62.3	70.0	63.1	54.7	65.0	63.2	67.3	
4	FH 3525	68.7	67.1	84.0	55.0	70.0	99.3	77.4	77.1	83.3	70.5	60.3	83.3	74.4	77.9	
5	33H25	57.9	65.8	78.0	36.7	76.7	92.3	77.1	72.2	80.0	59.1	66.7	71.7	69.4	71.6	
6	Hy. P 1453	79.2	78.0	97.5	43.3	83.3	106.0	86.3	83.3	96.7	58.9	68.0	96.7	80.1	85.2	
7	KH-9888	81.9	76.5	104.0	45.0	73.3	96.0	82.5	80.2	85.0	72.2	69.3	103.3	82.5	84.5	
8	DH-192	66.5	83.7	87.0	58.3	63.3	102.7	77.9	77.8	90.0	85.4	76.7	101.7	88.4	87.9	
9	DH-193	79.1	76.4	90.0	75.0	73.3	102.0	87.9	85.7	76.7	88.9	74.7	86.7	81.7	86.2	
10	DH-194	64.3	74.4	80.0	36.7	71.7	94.0	84.5	73.4	88.3	82.1	61.3	85.0	79.2	81.4	
CHECKS																
11	Vivek QPM 9	68.1	73.5	85.0	35.0	71.7	100.3	75.0	73.4	85.0	75.4	69.0	83.3	78.2	78.5	
12	Vivek Hybrid 9	68.0	70.5	81.5	65.0	70.0	84.0	87.9	77.7	101.7	63.3	71.7	71.7	77.1	78.3	
	Loc. Mean	68.9	71.4	83.8	49.7	71.3	94.5	78.3	75.5	85.0	70.7	66.1	82.5	76.1	78.7	
	C.D. (5%)	19.52	8.44	9.01	6.54	17.11	11.83	3.53	9.84	8.07	8.94	11.00	9.29	11.80	4.14	
	C.V. (%)	16.73	9.27	6.36	7.76	14.18	7.39	2.66	10.22	5.61	7.47	9.83	6.65	10.78	8.85	
	F (Prob.)	0.33	0.00	0.00	0.00	0.57	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.00	

Table No. 4 (Continued)

		GRAIN SHELLING %														
Sl		ZN 1					ZN 2									
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC
1	FH 3510	86.7	85.1	88.1	83.5	85.8	82.4	74.0	87.5	86.3	75.0	81.0	83.0	77.1	75.8	84.2
2	FH 3520	84.2	78.7	77.1	80.0	80.0	83.1	78.0	84.9	86.7	74.0	81.3	79.1	78.3	75.0	85.1
3	FH 3521	83.9	78.6	61.0	82.0	76.4	81.2	69.0	79.9	78.6	73.0	76.3	83.6	77.0	75.0	83.0
4	FH 3525	87.7	84.2	83.5	85.5	85.2	84.9	75.0	88.5	86.7	71.0	81.2	82.9	77.5	76.0	81.2
5	33H25	87.4	86.0	74.5	82.0	82.4	86.3	80.0	87.0	84.6	76.0	82.8	86.4	76.8	77.3	85.4
6	Hy. P 1453	87.9	88.4	81.0	85.5	85.7	85.0	8.0	86.8	88.2	73.0	68.2	87.6	79.4	79.5	88.2
7	KH-9888	87.2	85.9	83.5	86.0	85.6	85.9	75.0	86.3	85.0	72.0	80.8	85.1	77.7	78.3	91.3
8	DH-192	86.6	86.5	55.5	76.0	76.2	86.2	75.0	91.6	85.6	77.0	83.1	84.8	78.8	78.5	85.7
9	DH-193	88.0	82.3	84.0	76.0	82.6	84.8	83.0	89.1	84.6	72.0	82.7	84.3	80.0	77.0	87.4
10	DH-194	86.7	82.7	82.9	84.0	84.1	86.2	78.0	87.8	85.7	72.0	81.9	86.9	79.3	76.0	87.0
CHECKS																
11	Vivek QPM 9	87.9	83.3	88.4	82.0	85.4	84.0	78.0	86.6	84.7	74.0	81.5	77.3	76.8	75.5	85.5
12	Vivek Hybrid 9	87.3	86.0	77.3	85.0	83.9	82.6	83.0	89.3	83.8	70.5	81.8	84.8	79.4	76.8	85.0
	Loc. Mean	86.8	84.0	78.1	82.3	82.8	84.4	71.3	87.1	85.0	73.3	80.2	83.8	78.2	76.7	85.7
	C.D. (5%)	0.62	-	3.40	3.23	7.34	1.98	-	1.80	0.00	0.24	11.88	2.72	0.00	1.25	1.69
	C.V. (%)	0.42	-	2.57	2.32	6.17	1.39	-	1.22	0.00	0.20	11.61	1.92	0.00	0.96	1.17
	F (Prob.)	0.00	0.00	0.00	0.00	0.08	0.00	-	0.00	0.00	0.00	0.46	0.00	0.00	0.00	0.00

		GRAIN SHELLING %															
Sl		ZN 3					ZN 4					ZN 5					OV'L
No	PEDIGREE	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	84.0	80.8	79.1	83.6	80.8	84.3	81.7	85.7	82.5	86.3	71.6	83.9	85.3	81.8	82.3	
2	FH 3520	81.4	79.8	75.8	83.5	84.1	82.5	77.5	82.0	80.9	84.8	69.6	80.4	85.8	80.2	80.5	
3	FH 3521	78.6	79.4	75.4	82.5	83.7	83.0	79.8	81.0	80.9	79.9	70.1	80.5	79.3	77.4	78.3	
4	FH 3525	81.1	79.8	80.3	86.1	80.5	87.0	81.2	83.8	83.1	83.1	68.7	82.9	83.9	79.6	81.8	
5	33H25	83.5	81.8	82.0	83.8	83.7	87.9	77.0	87.6	83.7	79.9	71.1	85.6	85.5	80.5	82.4	
6	Hy. P 1453	79.7	82.9	80.8	85.5	81.2	82.5	81.9	86.6	83.1	84.9	72.7	73.2	82.7	78.4	79.6	
7	KH-9888	77.3	81.9	80.6	81.9	78.6	86.7	78.3	86.7	82.1	83.9	70.6	82.0	81.0	79.4	81.9	
8	DH-192	81.6	81.9	82.9	78.8	80.6	83.8	81.6	88.0	82.6	86.9	72.0	85.0	87.8	82.9	81.5	
9	DH-193	81.0	81.9	79.1	83.3	84.2	81.9	83.1	87.2	83.1	84.1	68.2	85.7	86.8	81.2	82.4	
10	DH-194	78.4	81.5	81.7	83.1	89.0	85.0	79.8	85.7	84.1	86.9	71.6	84.7	85.8	82.3	82.8	
CHECKS																	
11	Vivek QPM 9	82.2	79.5	79.6	82.2	85.9	85.0	82.3	84.6	83.3	80.0	72.6	82.6	80.9	79.0	81.7	
12	Vivek Hybrid 9	83.7	81.9	80.3	84.1	87.2	86.0	77.2	83.7	83.1	81.0	71.9	80.3	87.7	80.2	82.2	
	Loc. Mean	81.0	81.1	79.8	83.2	83.3	84.6	80.1	85.2	82.7	83.4	70.9	82.2	84.4	80.2	81.5	
	C.D. (5%)	8.34	2.61	0.99	2.56	1.80	3.39	0.88	1.24	2.63	1.67	1.40	5.44	2.96	3.62	2.91	
	C.V. (%)	6.07	2.52	0.73	1.82	1.27	2.37	0.65	0.86	2.75	1.18	1.17	3.91	2.07	3.14	6.29	
	F (Prob.)	0.82	0.10	0.00	0.00	0.00	0.02	0.00	0.00	0.36	0.00	0.00	0.01	0.00	0.13	0.00	

Table No. 4 (Continued)

		STAND AT HARVEST ('000/ha)															
Sl		ZN 1										ZN 2					
No	PEDIGREE	ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3510	63.9	73.0	60.4	69.4	66.7	62.8	58.9	69.0	65.6	57.2	62.7	31.9	52.2	63.9	77.8	56.5
2	FH 3520	65.7	78.6	59.0	68.1	67.8	62.2	63.1	73.9	64.4	57.2	64.2	30.9	58.9	63.2	80.6	57.7
3	FH 3521	63.9	72.2	64.6	71.5	68.1	57.2	61.3	71.4	63.9	53.9	61.5	31.9	52.8	65.3	81.9	57.7
4	FH 3525	63.0	86.5	72.2	70.1	73.0	57.8	61.9	75.1	66.1	51.1	62.4	34.0	58.3	60.4	74.3	63.1
5	33H25	66.7	88.9	69.4	60.4	71.4	55.0	60.7	66.5	65.0	54.4	60.3	33.7	52.8	65.3	78.5	60.7
6	Hy. P 1453	63.0	67.5	71.5	65.3	66.8	55.6	59.5	66.5	61.1	58.9	60.3	33.7	55.0	59.0	74.3	65.5
7	KH-9888	62.0	61.1	77.8	66.0	66.7	50.6	60.7	65.3	51.1	57.8	57.1	31.3	52.8	60.4	65.3	48.8
8	DH-192	63.0	68.3	69.4	67.4	67.0	53.3	58.9	65.9	56.1	52.2	57.3	31.6	55.0	61.1	78.5	54.8
9	DH-193	63.9	73.0	56.9	62.5	64.1	57.2	59.5	67.8	51.7	53.9	58.0	31.3	53.9	60.4	74.3	53.6
10	DH-194	66.7	81.7	63.2	66.7	69.6	58.9	59.5	70.8	66.7	59.4	63.1	30.9	53.9	60.4	75.7	64.3
CHECKS																	
11	Vivek QPM 9	64.8	70.6	51.4	59.7	61.6	55.0	60.1	60.4	60.6	53.9	58.0	34.7	54.4	60.4	77.8	52.4
12	Vivek Hybrid 9	63.0	73.8	56.9	62.5	64.1	48.9	59.5	65.9	59.4	52.2	57.2	35.4	55.0	63.2	71.5	56.0
	Loc. Mean	64.1	74.6	64.4	65.8	67.2	56.2	60.3	68.2	61.0	55.2	60.2	32.6	54.6	61.9	75.9	57.6
	C.D. (5%)	4.20	10.17	5.65	17.37	8.44	6.85	6.33	8.84	8.41	3.56	4.00	2.85	5.90	5.40	8.64	7.93
	C.V. (%)	3.86	8.05	5.18	15.59	8.72	7.20	6.20	7.65	8.15	3.81	5.22	5.15	6.38	5.15	6.73	8.13
	F (Prob.)	0.37	0.00	0.00	0.93	0.36	0.01	0.96	0.11	0.01	0.00	0.00	0.02	0.40	0.27	0.05	0.01

		STAND AT HARVEST ('000/ha)															
Sl		ZN 3						ZN 4						ZN 5		OV'L	
No	PEDIGREE	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	FH 3510	79.9	60.4	65.0	57.8	56.7	83.3	60.1	66.7	64.9	72.2	66.0	73.6	65.0	69.2	64.4	
2	FH 3520	78.5	61.6	66.1	53.9	60.0	68.1	62.5	66.7	62.9	72.9	63.9	68.8	65.0	67.6	64.4	
3	FH 3521	79.9	61.6	62.8	60.0	57.8	83.3	61.3	66.7	65.3	75.0	64.6	72.2	64.4	69.1	64.7	
4	FH 3525	85.4	62.6	65.6	60.0	61.1	83.3	65.5	66.7	67.0	72.2	64.6	81.3	66.7	71.2	66.7	
5	33H25	72.9	60.6	61.7	52.8	60.6	81.3	60.1	65.3	63.6	76.4	60.4	79.2	65.6	70.4	64.6	
6	Hy. P 1453	79.2	61.1	47.2	57.2	59.4	79.9	58.9	65.3	61.3	73.6	65.3	77.1	63.9	70.0	63.3	
7	KH-9888	64.6	53.9	65.0	60.6	60.6	76.4	56.5	65.3	64.1	74.3	58.3	65.3	62.2	65.0	60.8	
8	DH-192	61.8	57.1	63.3	58.3	62.2	81.3	58.3	65.3	64.8	73.6	58.3	56.9	66.7	63.9	61.7	
9	DH-193	68.1	56.9	58.9	53.9	58.9	81.9	63.7	65.3	63.8	77.1	59.0	61.8	61.7	64.9	61.2	
10	DH-194	62.5	57.9	64.4	53.9	59.4	78.5	63.7	66.0	64.3	75.0	66.7	81.3	66.1	72.3	64.6	
CHECKS																	
11	Vivek QPM 9	54.2	55.7	59.4	53.3	59.4	78.5	63.1	64.6	63.1	75.0	66.0	67.4	62.2	67.6	60.8	
12	Vivek Hybrid 9	62.5	57.3	47.8	48.9	60.0	83.3	57.7	68.1	61.0	78.5	65.3	74.3	66.1	71.0	61.4	
	Loc. Mean	70.8	58.9	60.6	55.9	59.7	79.9	61.0	66.0	63.8	74.7	63.2	71.6	64.6	68.5	63.2	
	C.D. (5%)	13.08	5.33	19.72	7.90	5.56	9.39	6.89	2.73	4.30	5.65	3.97	17.35	3.87	5.73	2.37	
	C.V. (%)	10.91	7.82	19.22	8.35	5.50	6.94	6.68	2.44	5.82	4.47	3.71	14.31	3.53	5.81	6.74	
	F (Prob.)	0.00	0.03	0.52	0.11	0.81	0.10	0.24	0.40	0.30	0.47	0.00	0.13	0.11	0.08	0.00	

TABLE No. 5

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, UDHAMPUR, DELHI, KARNAL, KANPUR, BAHRAICH, DHOLI, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN AET 1st YEAR TRIAL No. TR65 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		BAJA				BARA				KANG				UDHA				ZN 1		ZN 2	
		R		R	R		R	R		R	R		R	R	MEAN	R	MEAN	R	R		R
1	DMRNSCH2	9618	27	3490	26	8057	21	4291	17	6364	26	5048	30	3780	33	7974	28	5601	32	7823	33
2	Bisco-74	13294	4	4763	15	7141	30	5245	3	7611	9	5533	25	4566	18	7412	35	5837	31	10029	14
3	X8B562	11886	15	6443	2	9621	9	2878	35	7707	7	8012	2	4416	21	9411	6	7280	4	10096	13
4	KMH-3670	12863	7	3426	29	7165	29	3650	31	6776	21	6301	18	4589	17	7872	31	6254	24	13082	1
5	KMH-548	12034	14	5983	3	11284	2	3868	27	8292	4	4777	32	5153	12	8727	14	6219	26	10212	11
6	JKMH 7005	9914	26	5962	4	9533	10	5176	4	7646	8	6288	19	3973	28	8497	20	6252	25	9509	18
7	JKMH 8033	9476	29	2492	33	7638	26	4353	15	5990	31	7226	5	4114	24	8685	16	6675	17	9078	25
8	PRO 378	13123	6	6530	1	11352	1	3883	26	8722	2	6738	10	4333	23	10039	2	7037	8	10003	15
9	NK 6246	12157	13	5171	9	8787	16	3756	29	7468	17	6152	21	6200	2	9302	9	7218	5	9968	16
10	NK 6267/NH 6267	13794	3	5498	7	8157	20	4257	19	7926	6	8327	1	6110	3	7850	32	7429	2	12439	2
11	NMH-731	12267	11	5133	10	8587	17	4275	18	7565	12	6721	12	5228	8	7898	30	6616	18	10953	5
12	NMH-958	13275	5	4973	12	8825	15	6314	1	8347	3	5271	28	6610	1	9094	12	6992	9	10662	9
13	NMH-920	13811	2	4223	20	10855	3	4130	21	8255	5	6276	20	5868	5	8972	13	7039	7	11910	3
14	IDX 2901	11228	16	5678	5	9034	12	4063	23	7501	15	6368	16	5171	11	8695	15	6745	15	9609	17
15	C1945	10615	18	3346	32	7963	23	3286	34	6302	27	7022	6	4381	22	9369	8	6924	10	9275	21
16	KH-404	10037	25	3367	30	6495	34	4463	12	6091	30	6085	23	4730	16	7706	34	6174	27	9068	26
17	MAIZE POLO	10603	19	3469	28	8298	19	4367	14	6684	22	5962	24	4563	19	8609	19	6378	22	8737	28
18	BMH-107	7635	35	2484	34	8409	18	4986	8	5878	33	4247	35	3881	31	7837	33	5322	35	8292	30
19	BMH-109	9584	28	2280	35	6181	35	4511	11	5639	35	5029	31	3900	30	9406	7	6112	28	9293	20
20	CMH 08-156	10501	20	4996	11	6731	33	4350	16	6645	24	6972	7	3950	29	9221	10	6714	16	10252	10
21	CMH 08-154	10268	22	3352	31	9902	8	4244	20	6942	20	6721	11	4519	20	8394	24	6545	20	9160	22
22	CMH 08-282	10693	17	4192	21	10463	5	5090	7	7610	10	7597	3	4103	25	8667	18	6789	13	9114	24

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DHOL 20.9 %
MONITORING REPORT IS NOT SATISFACTORY FOR PANTNAGAR

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								ZN 1		DELH		KARN		KANP		ZN 2		BAHR	
		BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	DELH	R	KARN	R	KANP	R	MEAN	R	BAHR	R
23	Laxmi Gold	8040	33	3958	23	7691	25	4113	22	5950	32	4442	33	3873	32	8344	26	5553	33	10938	6
24	JH-11662(1R) 2009	9357	30	3768	25	7950	24	3597	32	6168	29	5341	27	4067	27	8676	17	6028	30	10896	7
25	JH-12114 (2R)	12605	8	4186	22	7063	31	5121	6	7244	18	6799	9	5137	13	8397	23	6778	14	7905	32
26	JH-11858 (2R) 2009	12559	9	3487	27	9440	11	4429	13	7479	16	6865	8	3777	34	8253	27	6298	23	9306	19
27	BIO-265	12343	10	5631	6	6864	32	3994	24	7208	19	6339	17	5004	14	9123	11	6822	12	10161	12
28	OM 7878	10186	24	4567	17	7526	27	3893	25	6543	25	5393	26	5472	7	9741	4	6869	11	8424	29
29	Amar 6669	8683	32	4416	18	8008	22	3581	33	6172	28	6091	22	5209	10	8451	22	6584	19	9115	23
30	KF-105	7943	34	3824	24	7175	28	3742	30	5671	34	4403	34	5489	6	8359	25	6084	29	6517	35
31	MCH 40	13872	1	5233	8	10834	4	6065	2	9001	1	7432	4	6074	4	9904	3	7804	1	11430	4
CHECKS																					
32	PMH 1	9085	31	4795	14	8967	13	3762	28	6652	23	6420	15	5212	9	9588	5	7073	6	7980	31
33	PMH 3	10396	21	4930	13	9986	7	4818	10	7533	14	6690	13	4794	15	10771	1	7418	3	8832	27
34	Seedtec 2324	12216	12	4355	19	8919	14	4878	9	7592	11	6571	14	4093	26	8495	21	6387	21	7034	34
35	BIO 9681	10225	23	4753	16	10069	6	5174	5	7555	13	5084	29	3524	35	7952	29	5520	34	10833	8
	Location Mean	11034		4433		8599		4360		7107		6187		4739		8734		6553		9655	
	Mean Stand	49		26		60		47		45		52		70		76		66		61	
	C.D. (5%)	1701		499		640		653		873		1568		766		897		1077		2629	
	C.V. (%)	9.46		6.9		4.57		9.2		-		15.55		9.92		6.3		-		16.7	
	F (Prob)	0		0		0		0		-		0		0		0		-		0	
	Plot Size	7.2		4.8		9.6		9.6		-		12		11.2		6		-		9.6	
AGRONOMY DATA																					
	Sowing Date	18-06		7-09		15-06		1-07		-		12-07		26-06		14-07		-		26-07	
	Harvest Date	30-10		15-11		12-10		12-10		-		1-11		28-09		20-11		-		12-11	
	Irrigation Nos	3		-		-		-		-		-		4		-		-		-	
	Fertilizer Applied N	120		80		120		80		-		150		150		120		-		120	
	Fertilizer Applied P	60		60		60		60		-		75		60		60		-		60	
	Fertilizer Applied K	40		40		40		40		-		75		60		40		-		60	

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		DHOL		VARA		RANC		AMBI		ZN 3 MEAN		ARBH		HYDE		KARI		KOLH		MAND	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
1	DMRNSCH2	4957	29	6906	23	7301	31	4810	28	6710	32	5796	27	7182	19	9279	13	8502	19	5142	34
2	Bisco-74	5356	24	6776	25	10170	11	4817	27	7948	14	9065	9	7823	11	9197	18	9437	10	7058	18
3	X8B562	7632	1	7471	14	11473	2	6135	2	8794	5	9491	6	6567	26	8168	30	9612	8	7996	10
4	KMH-3670	5075	27	6890	24	10275	8	5448	15	8924	4	9833	3	6913	22	6744	34	11409	1	8990	4
5	KMH-548	6849	6	8345	5	9429	17	5978	4	8491	8	10026	2	6915	21	7302	32	9852	6	6913	19
6	JKMH 7005	6997	4	5507	33	9883	12	5469	13	7592	21	7935	13	6259	32	9285	12	8200	25	7766	11
7	JKMH 8033	5393	23	8139	7	8023	29	5119	21	7590	22	3333	35	7303	15	8253	29	7631	30	8405	6
8	PRO 378	6560	10	8012	8	10711	3	5037	24	8441	10	9667	4	9129	3	9450	8	9250	11	8205	8
9	NK 6246	6357	13	5617	31	9727	13	5453	14	7691	20	6953	19	8235	5	9639	5	9531	9	9458	3
10	NK 6267/NH 6267	7426	2	8660	2	10620	4	7007	1	9682	1	5810	26	8608	4	9278	14	9873	5	8513	5
11	NMH-731	5873	18	7695	11	9663	16	6008	3	8580	7	7768	14	7682	13	9607	7	10520	3	8229	7
12	NMH-958	5955	16	7785	10	10202	10	5277	19	8481	9	8662	10	8196	6	8253	28	7924	26	5695	32
13	NMH-920	6757	7	8513	3	10254	9	5622	10	9075	3	9373	7	6598	25	8670	24	10667	2	6761	22
14	IDX 2901	6862	5	7398	15	9084	22	5864	6	7989	13	6737	23	8033	8	9386	11	8380	21	6130	29
15	C1945	6200	14	7015	22	9162	21	4842	26	7573	24	4908	32	6301	28	8560	26	7610	31	7102	17
16	KH-404	4635	30	6750	26	7173	32	4397	34	6847	31	6080	25	7978	9	8629	25	7790	27	5232	33
17	MAIZE POLO	3900	33	5332	34	5062	35	5443	16	6143	34	6779	21	7143	20	8958	21	7760	29	7665	13
18	BMH-107	3559	34	5591	32	7047	33	4219	35	6287	33	4945	31	5205	35	7054	33	6200	34	4696	35
19	BMH-109	4611	31	7162	18	8876	25	4977	25	7577	23	4624	33	6703	24	8974	20	8275	24	6853	21
20	CMH 08-156	7114	3	8370	4	10452	6	5592	11	8666	6	9592	5	7214	17	9616	6	9127	13	9650	2
21	CMH 08-154	5419	22	7955	9	8945	24	5054	23	7778	18	7447	16	8036	7	9250	15	7786	28	7249	16
22	CMH 08-282	5872	19	7267	17	9364	19	5551	12	7824	16	5135	30	9171	2	10015	4	8309	23	6872	20

TABLE No. 5 (Cont..)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																																							
S1		DHOL				VARA				RANC				AMBI				ZN 3				ARBH				HYDE				KARI				KOLH				MAND			
No	PEDIGREE	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R				
23	Laxmi Gold	4543	32	4280	35	8332	27	5158	20	7177	29	5407	28	6300	29	9218	17	7452	32	6363	27																				
24	JH-11662(1R) 2009	6690	8	7366	16	10405	7	4807	29	8368	11	7207	17	6561	27	9185	19	8545	18	6123	30																				
25	JH-12114 (2R)	6358	12	6133	30	7884	30	5693	9	6904	30	6313	24	7208	18	10353	2	9194	12	7498	15																				
26	JH-11858 (2R) 2009	6105	15	6310	29	9674	15	4757	31	7512	26	6753	22	7848	10	9233	16	8900	16	7618	14																				
27	BIO-265	5879	17	7133	19	9043	23	5306	18	7911	15	9070	8	6286	31	8888	22	8370	22	6488	26																				
28	OM 7878	5658	20	6526	27	9205	20	5844	8	7500	27	8481	11	5958	34	5075	35	8916	15	8145	9																				
29	Amar 6669	6513	11	7045	21	8145	28	5062	22	7342	28	7567	15	7230	16	7863	31	7330	33	6724	23																				
30	KF-105	3551	35	6384	28	6207	34	4621	33	5932	35	4299	34	6852	23	8394	27	5375	35	6322	28																				
31	MCH 40	5595	21	7687	12	11698	1	5848	7	9166	2	10783	1	7516	14	8710	23	9740	7	7743	12																				
CHECKS																																									
32	PMH 1	4971	28	8921	1	9396	18	4660	32	7739	19	8044	12	6293	30	12273	1	8570	17	11064	1																				
33	PMH 3	5208	25	8263	6	10555	5	5422	17	8268	12	6814	20	7689	12	9425	9	8394	20	6535	25																				
34	Seedtec 2324	6661	9	7516	13	9675	14	5966	5	7548	25	7053	18	9339	1	10046	3	10123	4	5746	31																				
35	BIO 9681	5123	26	7113	20	8560	26	4775	30	7820	17	5306	29	6065	33	9399	10	8988	14	6595	24																				
	Location Mean	5778		7138		9191		5315		7825		7230		7267		8904		8673		7244																					
	Mean Stand	63		70		36		53		55		65		71		72		77		67																					
	C.D. (5%)	1971		731		1946		1229		1634		1257		1713		788		1345		815																					
	C.V. (%)	20.93		6.28		12.99		14.19		-		10.67		14.47		5.43		9.52		6.91																					
	F (Prob)	0		0		0		0.002		-		0		0		0		0		0																					
	Plot Size	12		9.6		5.6		12		-		12		12		12		12		11.2																					
AGRONOMY DATA																																									
	Sowing Date	22-07		5-07		10-07		6-07		-		5-08		21-06		16-07		8-07		23-07																					
	Harvest Date	-		7-10		20-10		-		-		22-12		15-11		-		1-12		12-10																					
	Irrigation Nos	-		2		-		-		-		4		-		-		-		6																					
	Fertilizer Applied N	150		120		120		120		-		150		180		200		120		150																					
	Fertilizer Applied P	70		60		60		60		-		75		60		80		60		75																					
	Fertilizer Applied K	50		40		40		40		-		37.5		50		60		40		40																					

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		COIM		ZN 4		UDAI		BANS		GODH		CHHI		JHAB		ZN 5		OV'L	
			R	MEAN	R		R		R		R		R		R	MEAN	R	MEAN	R
1	DMRNSCH2	10359	28	7710	29	4849	18	5602	3	5343	19	8102	25	4884	8	5756	15	6552	29
2	Bisco-74	11592	12	9029	9	3858	33	4289	23	7696	1	7497	30	4145	23	5497	22	7336	15
3	X8B562	12096	9	8988	10	5298	7	5469	6	6229	7	10907	4	5828	1	6746	1	7977	4
4	KMH-3670	12903	5	9465	5	4479	21	4935	11	4609	28	8492	22	4325	19	5368	27	7509	11
5	KMH-548	12887	6	8983	11	4201	26	5536	5	5322	20	8619	19	4349	18	5605	18	7623	8
6	JKMH 7005	11568	14	8502	17	4237	24	4974	10	4820	24	8840	18	4732	10	5521	21	7197	21
7	JKMH 8033	11597	11	7754	28	6516	1	4638	18	5135	22	9555	14	4198	21	6008	9	6859	25
8	PRO 378	13290	1	9832	1	4262	23	4921	12	5675	13	11286	2	5071	5	6243	4	8180	2
9	NK 6246	11532	15	9225	7	4899	17	5165	8	5533	15	9056	15	4890	7	5909	10	7599	9
10	NK 6267/NH 6267	11511	17	8932	12	5829	3	5539	4	6854	4	10082	8	4445	15	6550	3	8139	3
11	NMH-731	12319	8	9354	6	4985	11	4864	15	6403	6	10940	3	3897	30	6218	5	7802	6
12	NMH-958	11739	10	8412	19	3641	34	4516	21	7181	2	7721	29	3975	28	5407	25	7536	10
13	NMH-920	12742	7	9135	8	4150	27	4896	13	6120	8	10006	9	4951	6	6025	7	7971	5
14	IDX 2901	11038	20	8284	23	4934	13	4626	19	4787	25	8523	21	5185	4	5611	17	7271	17
15	C1945	11214	19	7616	32	4093	30	4022	29	5818	10	8478	23	5493	2	5581	19	6812	27
16	KH-404	10100	30	7635	31	4935	12	4188	24	4978	23	7363	31	4738	9	5240	29	6467	31
17	MAIZE POLO	11585	13	8315	20	4934	14	4861	16	3165	35	6446	34	4076	24	4696	33	6537	30
18	BMH-107	8527	34	6104	35	4383	22	3474	35	3589	34	8034	27	3260	35	4548	34	5636	35
19	BMH-109	11512	16	7823	27	4095	29	3671	32	5381	17	6825	33	3611	33	4717	32	6442	32
20	CMH 08-156	13267	2	9744	2	4924	15	4612	20	4576	29	9812	11	3965	29	5578	20	7625	7
21	CMH 08-154	10841	22	8435	18	6227	2	4054	28	5456	16	9017	16	4187	22	5788	14	7185	22
22	CMH 08-282	10227	29	8288	22	5588	6	5626	2	6575	5	9901	10	5327	3	6604	2	7493	13

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		COIM		ZN 4		UDAI		BANS		GODH		CHHI		JHAB		ZN 5		OV'L	
		R	MEAN	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
23	Laxmi Gold	9573	31	7385	33	4136	28	3550	33	3600	33	6223	35	4205	20	4343	35	6145	33
24	JH-11662(1R) 2009	9536	33	7860	26	4679	19	3866	31	4521	30	11776	1	4397	16	5848	12	6938	23
25	JH-12114 (2R)	11362	18	8655	15	5720	5	3990	30	5641	14	10364	7	4349	17	6013	8	7223	19
26	JH-11858 (2R) 2009	10759	24	8518	16	4579	20	3523	34	6084	9	10764	5	3586	34	5707	16	7205	20
27	BIO-265	13061	3	8694	14	3586	35	4465	22	5369	18	8205	24	4708	11	5267	28	7247	18
28	OM 7878	10752	25	7888	25	4210	25	4889	14	4187	32	8963	17	3778	31	5205	30	6824	26
29	Amar 6669	10613	26	7888	24	3918	32	5008	9	5687	12	7805	28	4685	12	5421	24	6738	28
30	KF-105	8037	35	6546	34	5818	4	4067	27	4297	31	7287	32	4047	26	5103	31	5884	34
31	MCH 40	13044	4	9589	3	4080	31	5724	1	6966	3	9645	13	4479	14	6179	6	8387	1
CHECKS																			
32	PMH 1	10592	27	9472	4	5296	8	5419	7	5197	21	9789	12	3730	32	5886	11	7502	12
33	PMH 3	10992	21	8308	21	4994	9	4177	25	4640	27	10603	6	4646	13	5812	13	7471	14
34	Seedtec 2324	10814	23	8854	13	4988	10	4810	17	4729	26	8573	20	4022	27	5424	23	7271	16
35	BIO 9681	9541	32	7649	30	4923	16	4124	26	5798	11	8096	26	4064	25	5401	26	6862	24
	Location Mean	11232		8425		4750		4631		5370		8960		4407		5624		7184	
	Mean Stand	63		69		76		63		71		77		61		70		62	
	C.D. (5%)	613		1089		307		1368		761		862		736		807		1083	
	C.V. (%)	3.35		-		3.97		18.12		8.7		5.9		10.25		-		-	
	F (Prob)	0		-		0		0.01		0		0		0		-		-	
	Plot Size	9.6		-		9.6		9.6		9.6		12		9.6		-		-	
AGRONOMY DATA																			
	Sowing Date	6-07		-		6-07		17-07		8-07		28-06		8-07		-		-	
	Harvest Date	5-11		-		10-10		23-10		13-10		24-10		18-10		-		-	
	Irrigation Nos	9		-		-		-		-		-		-		-		-	
	Fertilizer Applied N	150		-		90		120		100		120		120		-		-	
	Fertilizer Applied P	75		-		60		40		50		60		60		-		-	
	Fertilizer Applied K	75		-		-		-		50		40		40		-		-	

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1														
		BAJA	BARA	KANG	UDHA	ZN 1 MEAN	DELH	KARN	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	DMRNSCH2	5.9	-	-	14.1	-	-	-	-	-	-	-	-	3.2	-	
2	Bisco-74	46.3	-	-	39.4	14.4	-	-	-	-	25.7	7.7	-	8.2	3.4	2.7
3	X8B562	30.8	34.4	7.3	-	15.9	24.8	-	-	2.9	26.5	53.5	-	22.1	31.7	13.6
4	KMH-3670	41.6	-	-	-	1.9	-	-	-	-	63.9	2.1	-	9.4	16.9	15.3
5	KMH-548	32.5	24.8	25.8	2.8	24.7	-	-	-	-	28	37.8	-	0.4	28.3	9.7
6	JKMH 7005	9.1	24.3	6.3	37.6	14.9	-	-	-	-	19.2	40.8	-	5.2	17.4	-
7	JKMH 8033	4.3	-	-	15.7	-	12.6	-	-	-	13.8	8.5	-	-	9.9	-
8	PRO 378	44.4	36.2	26.6	3.2	31.1	5	-	4.7	-	25.4	32	-	14	8.1	9.1
9	NK 6246	33.8	7.8	-	-	12.3	-	19	-	2	24.9	27.9	-	3.5	17	-
10	NK 6267/NH 6267	51.8	14.7	-	13.2	19.2	29.7	17.2	-	5	55.9	49.4	-	13	50.4	25.1
11	NMH-731	35	7	-	13.7	13.7	4.7	0.3	-	-	37.3	18.2	-	2.8	28.9	10.9
12	NMH-958	46.1	3.7	-	67.9	25.5	-	26.8	-	-	33.6	19.8	-	8.6	13.2	9.6
13	NMH-920	52	-	21.1	9.8	24.1	-	12.6	-	-	49.3	35.9	-	9.1	20.7	17.3
14	IDX 2901	23.6	18.4	0.8	8	12.8	-	-	-	-	20.4	38	-	-	25.8	3.2
15	C1945	16.8	-	-	-	-	9.4	-	-	-	16.2	24.7	-	-	3.9	-
16	KH-404	10.5	-	-	18.6	-	-	-	-	-	13.6	-	-	-	-	-
17	MAIZE POLO	16.7	-	-	16.1	0.5	-	-	-	-	9.5	-	-	-	16.8	-
18	BMH-107	-	-	-	32.5	-	-	-	-	-	3.9	-	-	-	-	-
19	BMH-109	5.5	-	-	19.9	-	-	-	-	-	16.5	-	-	-	6.8	-
20	CMH 08-156	15.6	4.2	-	15.6	-	8.6	-	-	-	28.5	43.1	-	11.2	20	12
21	CMH 08-154	13	-	10.4	12.8	4.3	4.7	-	-	-	14.8	9	-	-	8.5	0.5
22	CMH 08-282	17.7	-	16.7	35.3	14.4	18.3	-	-	-	14.2	18.1	-	-	19.1	1.1
23	Laxmi Gold	-	-	-	9.3	-	-	-	-	-	37.1	-	-	-	10.7	-
24	JH-11662(1R) 2009	3	-	-	-	-	-	-	-	-	36.5	34.6	-	10.7	3.2	8.1
25	JH-12114 (2R)	38.8	-	-	36.1	8.9	5.9	-	-	-	-	27.9	-	-	22.2	-
26	JH-11858 (2R)2009	38.2	-	5.3	17.7	12.4	6.9	-	-	-	16.6	22.8	-	3	2.1	-
27	BIO-265	35.9	17.4	-	6.2	8.4	-	-	-	-	27.3	18.3	-	-	13.9	2.2
28	OM 7878	12.1	-	-	3.5	-	-	5	1.6	-	5.6	13.8	-	-	25.4	-
29	Amar 6669	-	-	-	-	-	-	-	-	-	14.2	31	-	-	8.6	-
30	KF-105	-	-	-	-	-	-	5.3	-	-	-	-	-	-	-	-
31	MCH 40	52.7	9.1	20.8	61.2	35.3	15.8	16.5	3.3	10.3	43.2	12.6	-	24.5	25.5	18.4
	CHECKS															
32	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	PMH 3	14.4	2.8	11.4	28.1	13.2	4.2	-	12.3	4.9	10.7	4.8	-	12.3	16.4	6.8
34	Seedtec 2324	34.5	-	-	29.7	14.1	2.4	-	-	-	-	34	-	3	28	-
35	BIO 9681	12.6	-	12.3	37.5	13.6	-	-	-	-	35.8	3.1	-	-	2.5	1

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1											ZN 5 MEAN	OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI			JHAB
1	DMRNSCH2	-	14.1	-	-	-	-	-	-	3.4	2.8	-	31	-	-
2	Bisco-74	12.7	24.3	-	10.1	-	9.4	-	-	-	48.1	-	11.1	-	-
3	X8B562	18	4.4	-	12.2	-	14.2	-	0.1	0.9	19.9	11.4	56.3	14.6	6.3
4	KMH-3670	22.2	9.9	-	33.1	-	21.8	-	-	-	-	-	16	-	0.1
5	KMH-548	24.6	9.9	-	15	-	21.7	-	-	2.1	2.4	-	16.6	-	1.6
6	JKMH 7005	-	-	-	-	-	9.2	-	-	-	-	-	26.9	-	-
7	JKMH 8033	-	16	-	-	-	9.5	-	23	-	-	-	12.6	2.1	-
8	PRO 378	20.2	45.1	-	7.9	-	25.5	3.8	-	-	9.2	15.3	36	6.1	9
9	NK 6246	-	30.9	-	11.2	-	8.9	-	-	-	6.5	-	31.1	0.4	1.3
10	NK 6267/NH 6267	-	36.8	-	15.2	-	8.7	-	10.1	2.2	31.9	3	19.2	11.3	8.5
11	NMH-731	-	22.1	-	22.8	-	16.3	-	-	-	23.2	11.8	4.5	5.6	4
12	NMH-958	7.7	30.2	-	-	-	10.8	-	-	-	38.2	-	6.6	-	0.4
13	NMH-920	16.5	4.8	-	24.5	-	20.3	-	-	-	17.8	2.2	32.8	2.4	6.3
14	IDX 2901	-	27.7	-	-	-	4.2	-	-	-	-	-	39	-	-
15	C1945	-	0.1	-	-	-	5.9	-	-	-	12	-	47.3	-	-
16	KH-404	-	26.8	-	-	-	-	-	-	-	-	-	27	-	-
17	MAIZE POLO	-	13.5	-	-	-	9.4	-	-	-	-	-	9.3	-	-
18	BMH-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	BMH-109	-	6.5	-	-	-	8.7	-	-	-	3.5	-	-	-	-
20	CMH 08-156	19.3	14.6	-	6.5	-	25.3	2.9	-	-	-	0.2	6.3	-	1.6
21	CMH 08-154	-	27.7	-	-	-	2.4	-	17.6	-	5	-	12.3	-	-
22	CMH 08-282	-	45.7	-	-	-	-	-	5.5	3.8	26.5	1.1	42.8	12.2	-
23	Laxmi Gold	-	0.1	-	-	-	-	-	-	-	-	-	12.7	-	-
24	JH-11662(1R) 2009	-	4.3	-	-	-	-	-	-	-	-	20.3	17.9	-	-
25	JH-12114 (2R)	-	14.5	-	7.3	-	7.3	-	8	-	8.6	5.9	16.6	2.2	-
26	JH-11858 (2R)2009	-	24.7	-	3.9	-	1.6	-	-	-	17.1	10	-	-	-
27	BIO-265	12.8	-	-	-	-	23.3	-	-	-	3.3	-	26.2	-	-
28	OM 7878	5.4	-	-	4	-	1.5	-	-	-	-	-	1.3	-	-
29	Amar 6669	-	14.9	-	-	-	0.2	-	-	-	9.4	-	25.6	-	-
30	KF-105	-	8.9	-	-	-	-	-	9.9	-	-	-	8.5	-	-
31	MCH 40	34.1	19.4	-	13.7	-	23.1	1.2	-	5.6	34.1	-	20.1	5	11.8
	CHECKS														
32	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
33	PMH 3	-	22.2	-	-	-	3.8	-	-	-	-	8.3	24.6	-	-
34	Seedtec 2324	-	48.4	-	18.1	-	2.1	-	-	-	-	-	7.9	-	-
35	BIO 9681	-	-	-	4.9	-	-	-	-	-	11.6	-	9	-	-

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3														
		BAJA	BARA	KANG	UDHA	ZN 1 MEAN	DELH	KARN	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	DMRNSCH2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	Bisco-74	27.9	-	-	8.8	1	-	-	-	-	13.5	2.8	-	-	-	-
3	X8B562	14.3	30.7	-	-	2.3	19.8	-	-	-	14.3	46.5	-	8.7	13.2	6.4
4	KMH-3670	23.7	-	-	-	-	-	-	-	-	48.1	-	-	-	0.5	7.9
5	KMH-548	15.8	21.4	13	-	10.1	-	7.5	-	-	15.6	31.5	1	-	10.3	2.7
6	JKMH 7005	-	20.9	-	7.4	1.5	-	-	-	-	7.7	34.3	-	-	0.9	-
7	JKMH 8033	-	-	-	-	-	-	8	-	-	2.8	3.6	-	-	-	-
8	PRO 378	26.2	32.5	13.7	-	15.8	0.7	-	-	-	13.3	26	-	1.5	-	2.1
9	NK 6246	16.9	4.9	-	-	-	-	29.3	-	-	12.9	22.1	-	-	0.6	-
10	NK 6267/NH 6267	32.7	11.5	-	-	5.2	24.5	27.4	-	0.1	40.8	42.6	4.8	0.6	29.2	17.1
11	NMH-731	18	4.1	-	-	0.4	0.5	9.1	-	-	24	12.8	-	-	10.8	3.8
12	NMH-958	27.7	0.9	-	31	10.8	-	37.9	-	-	20.7	14.3	-	-	-	2.6
13	NMH-920	32.9	-	8.7	-	9.6	-	22.4	-	-	34.8	29.7	3	-	3.7	9.8
14	IDX 2901	8	15.2	-	-	-	-	7.9	-	-	8.8	31.8	-	-	8.1	-
15	C1945	2.1	-	-	-	-	5	-	-	-	5	19.1	-	-	-	-
16	KH-404	-	-	-	-	-	-	-	-	-	2.7	-	-	-	-	-
17	MAIZE POLO	2	-	-	-	-	-	-	-	-	-	-	-	-	0.4	-
18	BMH-107	-	-	-	3.5	-	-	-	-	-	-	-	-	-	-	-
19	BMH-109	-	-	-	-	-	-	-	-	-	5.2	-	-	-	-	-
20	CMH 08-156	1	1.3	-	-	-	4.2	-	-	-	16.1	36.6	1.3	-	3.1	4.8
21	CMH 08-154	-	-	-	-	-	0.5	-	-	-	3.7	4.1	-	-	-	-
22	CMH 08-282	2.9	-	4.8	5.6	1	13.6	-	-	-	3.2	12.8	-	-	2.4	-
23	Laxmi Gold	-	-	-	-	-	-	-	-	-	23.8	-	-	-	-	-
24	JH-11662(1R) 2009	-	-	-	-	-	-	-	-	-	23.4	28.5	-	-	-	1.2
25	JH-12114 (2R)	21.3	-	-	6.3	-	1.6	7.2	-	-	-	22.1	-	-	5	-
26	JH-11858 (2R) 2009	20.8	-	-	-	-	2.6	-	-	-	5.4	17.2	-	-	-	-
27	BIO-265	18.7	14.2	-	-	-	-	4.4	-	-	15	12.9	-	-	-	-
28	OM 7878	-	-	-	-	-	-	14.1	-	-	-	8.6	-	-	7.8	-
29	Amar 6669	-	-	-	-	-	-	8.7	-	-	3.2	25.1	-	-	-	-
30	KF-105	-	-	-	-	-	-	14.5	-	-	-	-	-	-	-	-
31	MCH 40	33.4	6.2	8.5	25.9	19.5	11.1	26.7	-	5.2	29.4	7.4	-	10.8	7.9	10.9
	CHECKS															
32	PMH 1	-	-	-	-	-	-	8.7	-	-	-	-	8	-	-	-
33	PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Seedtec 2324	17.5	-	-	1.2	0.8	-	-	-	-	-	27.9	-	-	10	-
35	BIO 9681	-	-	0.8	7.4	0.3	-	-	-	-	22.7	-	-	-	-	-

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 3											ZN 5 MEAN	OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI			JHAB
1	DMRNSCH2	-	-	-	1.3	-	-	-	-	34.1	15.1	-	5.1	-	-
2	Bisco-74	33	1.7	-	12.4	8	5.5	8.7	-	2.7	65.9	-	-	-	-
3	X8B562	39.3	-	-	14.5	22.4	10	8.2	6.1	30.9	34.2	2.9	25.4	16.1	6.8
4	KMH-3670	44.3	-	-	35.9	37.6	17.4	13.9	-	18.2	-	-	-	-	0.5
5	KMH-548	47.1	-	-	17.4	5.8	17.2	8.1	-	32.5	14.7	-	-	-	2
6	JKMH 7005	16.4	-	-	-	18.8	5.2	2.3	-	19.1	3.9	-	1.9	-	-
7	JKMH 8033	-	-	-	-	28.6	5.5	-	30.5	11	10.7	-	-	3.4	-
8	PRO 378	41.9	18.7	0.3	10.2	25.6	20.9	18.3	-	17.8	22.3	6.4	9.2	7.4	9.5
9	NK 6246	2	7.1	2.3	13.5	44.7	4.9	11	-	23.7	19.2	-	5.3	1.7	1.7
10	NK 6267/NH 6267	-	12	-	17.6	30.3	4.7	7.5	16.7	32.6	47.7	-	-	12.7	8.9
11	NMH-731	14	-	1.9	25.3	25.9	12.1	12.6	-	16.5	38	3.2	-	7	4.4
12	NMH-958	27.1	6.6	-	-	-	6.8	1.2	-	8.1	54.8	-	-	-	0.9
13	NMH-920	37.5	-	-	27.1	3.5	15.9	9.9	-	17.2	31.9	-	6.6	3.7	6.7
14	IDX 2901	-	4.5	-	-	-	0.4	-	-	10.8	3.2	-	11.6	-	-
15	C1945	-	-	-	-	8.7	2	-	-	-	25.4	-	18.2	-	-
16	KH-404	-	3.8	-	-	-	-	-	-	0.3	7.3	-	2	-	-
17	MAIZE POLO	-	-	-	-	17.3	5.4	0.1	-	16.4	-	-	-	-	-
18	BMH-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	BMH-109	-	-	-	-	4.9	4.7	-	-	-	16	-	-	-	-
20	CMH 08-156	40.8	-	2	8.7	47.7	20.7	17.3	-	10.4	-	-	-	-	2.1
21	CMH 08-154	9.3	4.5	-	-	10.9	-	1.5	24.7	-	17.6	-	-	-	-
22	CMH 08-282	-	19.3	6.3	-	5.2	-	-	11.9	34.7	41.7	-	14.7	13.6	0.3
23	Laxmi Gold	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	JH-11662(1R) 2009	5.8	-	-	1.8	-	-	-	-	-	-	11.1	-	0.6	-
25	JH-12114 (2R)	-	-	9.8	9.5	14.7	3.4	4.2	14.5	-	21.6	-	-	3.5	-
26	JH-11858 (2R)2009	-	2.1	-	6	16.6	-	2.5	-	-	31.1	1.5	-	-	-
27	BIO-265	33.1	-	-	-	-	18.8	4.6	-	6.9	15.7	-	1.3	-	-
28	OM 7878	24.5	-	-	6.2	24.6	-	-	-	17	-	-	-	-	-
29	Amar 6669	11	-	-	-	2.9	-	-	-	19.9	22.6	-	0.8	-	-
30	KF-105	-	-	-	-	-	-	-	16.5	-	-	-	-	-	-
31	MCH 40	58.2	-	-	16	18.5	18.7	15.4	-	37.1	50.1	-	-	6.3	12.3
	CHECKS														
32	PMH 1	18	-	30.2	2.1	69.3	-	14	6	29.8	12	-	-	1.3	0.4
33	PMH 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-
34	Seedtec 2324	3.5	21.5	6.6	20.6	-	-	6.6	-	15.2	1.9	-	-	-	-
35	BIO 9681	-	-	-	7.1	0.9	-	-	-	-	24.9	-	-	-	-

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324													
		BAJA	BARA	KANG	UDHA	ZN 1 MEAN	DELH	KARN	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI
1	DMRNSCH2	-	-	-	-	-	-	-	-	-	11.2	-	-	-	-
2	Bisco-74	8.8	9.4	-	7.5	0.2	-	11.6	-	-	42.6	-	-	5.1	5.3
3	X8B562	-	48	7.9	-	1.5	21.9	7.9	10.8	14	43.5	14.6	-	18.6	16.5
4	KMH-3670	5.3	-	-	-	-	-	12.1	-	-	86	-	-	6.2	18.2
5	KMH-548	-	37.4	26.5	-	9.2	-	25.9	2.7	-	45.2	2.8	11	-	12.5
6	JKMH 7005	-	36.9	6.9	6.1	0.7	-	-	0	-	35.2	5	-	2.1	0.6
7	JKMH 8033	-	-	-	-	-	10	0.5	2.2	4.5	29.1	-	8.3	-	0.6
8	PRO 378	7.4	49.9	27.3	-	14.9	2.5	5.9	18.2	10.2	42.2	-	6.6	10.7	11.8
9	NK 6246	-	18.7	-	-	-	-	51.5	9.5	13	41.7	-	-	0.5	1.9
10	NK 6267/NH 6267	12.9	26.3	-	-	4.4	26.7	49.3	-	16.3	76.8	11.5	15.2	9.8	28.3
11	NMH-731	0.4	17.9	-	-	-	2.3	27.7	-	3.6	55.7	-	2.4	-	13.7
12	NMH-958	8.7	14.2	-	29.4	9.9	-	61.5	7	9.5	51.6	-	3.6	5.4	12.4
13	NMH-920	13.1	-	21.7	-	8.7	-	43.4	5.6	10.2	69.3	1.4	13.3	6	20.2
14	IDX 2901	-	30.4	1.3	-	-	-	26.3	2.3	5.6	36.6	3	-	-	5.8
15	C1945	-	-	-	-	-	6.9	7	10.3	8.4	31.9	-	-	-	0.3
16	KH-404	-	-	-	-	-	-	15.5	-	-	28.9	-	-	-	-
17	MAIZE POLO	-	-	-	-	-	-	11.5	1.3	-	24.2	-	-	-	-
18	BMH-107	-	-	-	2.2	-	-	-	-	-	17.9	-	-	-	-
19	BMH-109	-	-	-	-	-	-	-	10.7	-	32.1	-	-	-	0.4
20	CMH 08-156	-	14.7	-	-	-	6.1	-	8.5	5.1	45.8	6.8	11.4	8	14.8
21	CMH 08-154	-	-	11	-	-	2.3	10.4	-	2.5	30.2	-	5.8	-	3.1
22	CMH 08-282	-	-	17.3	4.4	0.2	15.6	0.2	2	6.3	29.6	-	-	-	3.7
23	Laxmi Gold	-	-	-	-	-	-	-	-	-	55.5	-	-	-	-
24	JH-11662(1R) 2009	-	-	-	-	-	-	-	2.1	-	54.9	0.4	-	7.5	10.9
25	JH-12114 (2R)	3.2	-	-	5	-	3.5	25.5	-	6.1	12.4	-	-	-	-
26	JH-11858 (2R) 2009	2.8	-	5.8	-	-	4.5	-	-	-	32.3	-	-	-	-
27	BIO-265	1	29.3	-	-	-	-	22.3	7.4	6.8	44.5	-	-	-	4.8
28	OM 7878	-	4.9	-	-	-	-	33.7	14.7	7.5	19.8	-	-	-	-
29	Amar 6669	-	1.4	-	-	-	-	27.3	-	3.1	29.6	-	-	-	-
30	KF-105	-	-	-	-	-	-	34.1	-	-	-	-	-	-	-
31	MCH 40	13.6	20.2	21.5	24.3	18.6	13.1	48.4	16.6	22.2	62.5	-	2.3	20.9	21.4
	CHECKS														
32	PMH 1	-	10.1	0.5	-	-	-	27.3	12.9	10.8	13.4	-	18.7	-	2.5
33	PMH 3	-	13.2	12	-	-	1.8	17.1	26.8	16.2	25.6	-	9.9	9.1	9.5
34	Seedtec 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	BIO 9681	-	9.1	12.9	6.1	-	-	-	-	-	54	-	-	-	3.6

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324												OV'L MEAN	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB		ZN 5 MEAN
1	DMRNSCH2	-	-	-	-	-	-	-	-	16.5	13	-	21.4	6.1	-
2	Bisco-74	28.5	-	-	-	22.8	7.2	2	-	-	62.7	-	3.1	1.3	0.9
3	X8B562	34.6	-	-	-	39.2	11.9	1.5	6.2	13.7	31.7	27.2	44.9	24.4	9.7
4	KMH-3670	39.4	-	-	12.7	56.4	19.3	6.9	-	2.6	-	-	7.5	-	3.3
5	KMH-548	42.2	-	-	-	20.3	19.2	1.5	-	15.1	12.5	0.5	8.1	3.3	4.8
6	JKMH 7005	12.5	-	-	-	35.1	7	-	-	3.4	1.9	3.1	17.6	1.8	-
7	JKMH 8033	-	-	-	-	46.3	7.2	-	30.6	-	8.6	11.5	4.4	10.8	-
8	PRO 378	37.1	-	-	-	42.8	22.9	11.1	-	2.3	20	31.7	26.1	15.1	12.5
9	NK 6246	-	-	-	-	64.6	6.6	4.2	-	7.4	17	5.6	21.6	8.9	4.5
10	NK 6267/NH 6267	-	-	-	-	48.2	6.4	0.9	16.9	15.2	44.9	17.6	10.5	20.7	11.9
11	NMH-731	10.1	-	-	3.9	43.2	13.9	5.7	-	1.1	35.4	27.6	-	14.6	7.3
12	NMH-958	22.8	-	-	-	-	8.6	-	-	-	51.8	-	-	-	3.6
13	NMH-920	32.9	-	-	5.4	17.7	17.8	3.2	-	1.8	29.4	16.7	23.1	11.1	9.6
14	IDX 2901	-	-	-	-	6.7	2.1	-	-	-	1.2	-	28.9	3.4	-
15	C1945	-	-	-	-	23.6	3.7	-	-	-	23	-	36.6	2.9	-
16	KH-404	-	-	-	-	-	-	-	-	-	5.3	-	17.8	-	-
17	MAIZE POLO	-	-	-	-	33.4	7.1	-	-	1.1	-	-	1.3	-	-
18	BMH-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	BMH-109	-	-	-	-	19.3	6.4	-	-	-	13.8	-	-	-	-
20	CMH 08-156	36	-	-	-	67.9	22.7	10.1	-	-	-	14.5	-	2.8	4.9
21	CMH 08-154	5.6	-	-	-	26.2	0.3	-	24.8	-	15.4	5.2	4.1	6.7	-
22	CMH 08-282	-	-	-	-	19.6	-	-	12	17	39	15.5	32.4	21.7	3.1
23	Laxmi Gold	-	-	-	-	10.7	-	-	-	-	-	-	4.5	-	-
24	JH-11662(1R) 2009	2.2	-	-	-	6.6	-	-	-	-	-	37.4	9.3	7.8	-
25	JH-12114 (2R)	-	-	3.1	-	30.5	5.1	-	14.7	-	19.3	20.9	8.1	10.8	-
26	JH-11858 (2R) 2009	-	-	-	-	32.6	-	-	-	-	28.6	25.6	-	5.2	-
27	BIO-265	28.6	-	-	-	12.9	20.8	-	-	-	13.5	-	17	-	-
28	OM 7878	20.2	-	-	-	41.7	-	-	-	1.6	-	4.6	-	-	-
29	Amar 6669	7.3	-	-	-	17	-	-	-	4.1	20.2	-	16.5	-	-
30	KF-105	-	-	-	-	10	-	-	16.7	-	-	-	0.6	-	-
31	MCH 40	52.9	-	-	-	34.7	20.6	8.3	-	19	47.3	12.5	11.3	13.9	15.3
	CHECKS														
32	PMH 1	14	-	22.2	-	92.5	-	7	6.2	12.7	9.9	14.2	-	8.5	3.2
33	PMH 3	-	-	-	-	13.7	1.7	-	0.1	-	-	23.7	15.5	7.1	2.8
34	Seedtec 2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
35	BIO 9681	-	-	-	-	14.8	-	-	-	-	22.6	-	1	-	-

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681														
		BAJA	BARA	KANG	UDHA	ZN 1 MEAN	DELH	KARN	KANP	ZN 2 MEAN	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 MEAN
1	DMRNSCH2	-	-	-	-	-	-	7.3	0.3	1.5	-	-	-	-	0.7	-
2	Bisco-74	30	0.2	-	1.4	0.7	8.8	29.6	-	5.8	-	4.5	-	18.8	0.9	1.6
3	X8B562	16.2	35.6	-	-	2	57.6	25.3	18.4	31.9	-	49	5	34	28.5	12.5
4	KMH-3670	25.8	-	-	-	-	23.9	30.2	-	13.3	20.8	-	-	20	14.1	14.1
5	KMH-548	17.7	25.9	12.1	-	9.8	-	46.2	9.8	12.7	-	33.7	17.3	10.2	25.2	8.6
6	JKMH 7005	-	25.4	-	0	1.2	23.7	12.7	6.9	13.3	-	36.6	-	15.5	14.5	-
7	JKMH 8033	-	-	-	-	-	42.1	16.7	9.2	20.9	-	5.3	14.4	-	7.2	-
8	PRO 378	28.3	37.4	12.7	-	15.4	32.5	22.9	26.3	27.5	-	28	12.7	25.1	5.5	7.9
9	NK 6246	18.9	8.8	-	-	-	21	75.9	17	30.8	-	24.1	-	13.6	14.2	-
10	NK 6267/NH 6267	34.9	15.7	-	-	4.9	63.8	73.4	-	34.6	14.8	44.9	21.8	24.1	46.8	23.8
11	NMH-731	20	8	-	-	0.1	32.2	48.4	-	19.9	1.1	14.6	8.2	12.9	25.8	9.7
12	NMH-958	29.8	4.6	-	22	10.5	3.7	87.6	14.4	26.7	-	16.2	9.4	19.2	10.5	8.5
13	NMH-920	35.1	-	7.8	-	9.3	23.5	66.5	12.8	27.5	9.9	31.9	19.7	19.8	17.8	16
14	IDX 2901	9.8	19.5	-	-	-	25.3	46.7	9.3	22.2	-	33.9	4	6.1	22.8	2.2
15	C1945	3.8	-	-	-	-	38.1	24.3	17.8	25.4	-	21	-	7	1.4	-
16	KH-404	-	-	-	-	-	19.7	34.2	-	11.8	-	-	-	-	-	-
17	MAIZE POLO	3.7	-	-	-	-	17.3	29.5	8.3	15.6	-	-	-	-	14	-
18	BMH-107	-	-	-	-	-	-	10.1	-	-	-	-	-	-	-	-
19	BMH-109	-	-	-	-	-	-	10.7	18.3	10.7	-	-	0.7	3.7	4.2	-
20	CMH 08-156	2.7	5.1	-	-	-	37.2	12.1	16	21.6	-	38.9	17.7	22.1	17.1	10.8
21	CMH 08-154	0.4	-	-	-	-	32.2	28.2	5.6	18.6	-	5.8	11.8	4.5	5.8	-
22	CMH 08-282	4.6	-	3.9	-	0.7	49.4	16.4	9	23	-	14.6	2.2	9.4	16.2	0
23	Laxmi Gold	-	-	-	-	-	-	9.9	4.9	0.6	1	-	-	-	8	-
24	JH-11662(1R) 2009	-	-	-	-	-	5.1	15.4	9.1	9.2	0.6	30.6	3.6	21.6	0.7	7
25	JH-12114 (2R)	23.3	-	-	-	-	33.7	45.8	5.6	22.8	-	24.1	-	-	19.2	-
26	JH-11858 (2R) 2009	22.8	-	-	-	-	35	7.2	3.8	14.1	-	19.1	-	13	-	-
27	BIO-265	20.7	18.5	-	-	-	24.7	42	14.7	23.6	-	14.7	0.3	5.6	11.1	1.2
28	OM 7878	-	-	-	-	-	6.1	55.3	22.5	24.4	-	10.4	-	7.5	22.4	-
29	Amar 6669	-	-	-	-	-	19.8	47.8	6.3	19.3	-	27.1	-	-	6	-
30	KF-105	-	-	-	-	-	-	55.8	5.1	10.2	-	-	-	-	-	-
31	MCH 40	35.7	10.1	7.6	17.2	19.1	46.2	72.3	24.6	41.4	5.5	9.2	8.1	36.7	22.5	17.2
	CHECKS															
32	PMH 1	-	0.9	-	-	-	26.3	47.9	20.6	28.1	-	-	25.4	9.8	-	-
33	PMH 3	1.7	3.7	-	-	-	31.6	36	35.5	34.4	-	1.7	16.2	23.3	13.6	5.7
34	Seedtec 2324	19.5	-	-	-	0.5	29.3	16.1	6.8	15.7	-	30	5.7	13	25	-
35	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 5 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681													
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB	ZN 5 MEAN	OV'L MEAN
1	DMRNSCH2	9.2	18.4	-	-	-	8.6	0.8	-	35.8	-	0.1	20.2	6.6	-
2	Bisco-74	70.9	29	-	5	7	21.5	18	-	4	32.7	-	2	1.8	6.9
3	X8B562	78.9	8.3	-	6.9	21.2	26.8	17.5	7.6	32.6	7.4	34.7	43.4	24.9	16.3
4	KMH-3670	85.3	14	-	26.9	36.3	35.2	23.7	-	19.7	-	4.9	6.4	-	9.4
5	KMH-548	89	14	-	9.6	4.8	35.1	17.4	-	34.2	-	6.5	7	3.8	11.1
6	JKMH 7005	49.6	3.2	-	-	17.7	21.3	11.2	-	20.6	-	9.2	16.4	2.2	4.9
7	JKMH 8033	-	20.4	-	-	27.4	21.6	1.4	32.4	12.5	-	18	3.3	11.2	-
8	PRO 378	82.2	50.5	0.5	2.9	24.4	39.3	28.5	-	19.3	-	39.4	24.8	15.6	19.2
9	NK 6246	31.1	35.8	2.5	6	43.4	20.9	20.6	-	25.3	-	11.9	20.3	9.4	10.7
10	NK 6267/NH 6267	9.5	41.9	-	9.8	29.1	20.7	16.8	18.4	34.3	18.2	24.5	9.4	21.3	18.6
11	NMH-731	46.4	26.7	2.2	17	24.8	29.1	22.3	1.3	18	10.4	35.1	-	15.1	13.7
12	NMH-958	63.3	35.1	-	-	-	23	10	-	9.5	23.9	-	-	0.1	9.8
13	NMH-920	76.7	8.8	-	18.7	2.5	33.6	19.4	-	18.7	5.6	23.6	21.8	11.6	16.2
14	IDX 2901	27	32.5	-	-	-	15.7	8.3	0.2	12.2	-	5.3	27.6	3.9	6
15	C1945	-	3.9	-	-	7.7	17.5	-	-	-	0.3	4.7	35.1	3.3	-
16	KH-404	14.6	31.5	-	-	-	5.9	-	0.3	1.6	-	-	16.6	-	-
17	MAIZE POLO	27.8	17.8	-	-	16.2	21.4	8.7	0.2	17.9	-	-	0.3	-	-
18	BMH-107	-	-	-	-	-	-	-	-	-	-	-	-	-	-
19	BMH-109	-	10.5	-	-	3.9	20.7	2.3	-	-	-	-	-	-	-
20	CMH 08-156	80.8	19	2.3	1.5	46.3	39.1	27.4	0	11.8	-	21.2	-	3.3	11.1
21	CMH 08-154	40.4	32.5	-	-	9.9	13.6	10.3	26.5	-	-	11.4	3	7.2	4.7
22	CMH 08-282	-	51.2	6.6	-	4.2	7.2	8.4	13.5	36.4	13.4	22.3	31.1	22.3	9.2
23	Laxmi Gold	1.9	3.9	-	-	-	0.3	-	-	-	-	-	3.4	-	-
24	JH-11662(1R) 2009	35.8	8.2	-	-	-	-	2.8	-	-	-	45.5	8.2	8.3	1.1
25	JH-12114 (2R)	19	18.9	10.1	2.3	13.7	19.1	13.1	16.2	-	-	28	7	11.3	5.3
26	JH-11858 (2R) 2009	27.3	29.4	-	-	15.5	12.8	11.4	-	-	4.9	33	-	5.7	5
27	BIO-265	70.9	3.7	-	-	-	36.9	13.7	-	8.3	-	1.3	15.8	-	5.6
28	OM 7878	59.8	-	-	-	23.5	12.7	3.1	-	18.6	-	10.7	-	-	-
29	Amar 6669	42.6	19.2	-	-	2	11.2	3.1	-	21.4	-	-	15.3	0.4	-
30	KF-105	-	13	-	-	-	-	-	18.2	-	-	-	-	-	-
31	MCH 40	103.2	23.9	-	8.4	17.4	36.7	25.4	-	38.8	20.1	19.1	10.2	14.4	22.2
	CHECKS														
32	PMH 1	51.6	3.8	30.6	-	67.8	11	23.8	7.6	31.4	-	20.9	-	9	9.3
33	PMH 3	28.4	26.8	0.3	-	-	15.2	8.6	1.5	1.3	-	31	14.3	7.6	8.9
34	Seedtec 2324	32.9	54	6.9	12.6	-	13.3	15.7	1.3	16.6	-	5.9	-	0.4	6
35	BIO 9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 5 (Continued)

Sl No	DAYS TO 50% SILKING															
	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean	
1	DMRNSCH2	62.0	62.0	62.7	62.7	62.3	55.0	56.7	55.3	55.7	50.7	52.7	57.7	52.3	53.3	53.3
2	Bisco-74	66.3	63.0	66.0	64.3	64.9	58.0	56.0	58.0	57.3	54.3	55.0	58.3	55.3	57.3	56.1
3	X8B562	66.7	63.0	65.0	64.7	64.8	56.7	56.7	59.3	57.6	53.7	55.3	56.3	55.0	54.0	54.9
4	KMH-3670	64.3	63.0	63.7	63.7	63.7	55.7	55.0	59.3	56.7	54.0	55.7	61.3	54.0	55.3	56.1
5	KMH-548	66.7	64.0	65.7	64.3	65.2	56.3	57.0	59.0	57.4	55.3	55.3	56.7	54.7	56.0	55.6
6	JKMH 7005	66.3	63.0	61.7	66.3	64.3	57.7	57.7	58.7	58.0	54.3	55.3	60.0	56.7	56.3	56.5
7	JKMH 8033	62.0	58.0	57.7	61.3	59.8	53.0	55.0	58.3	55.4	52.3	52.0	53.0	51.7	54.0	52.6
8	PRO 378	62.7	57.0	61.7	62.3	60.9	55.0	54.7	59.0	56.2	51.3	53.7	55.3	52.0	55.0	53.5
9	NK 6246	66.0	59.0	61.7	64.7	62.8	56.3	55.3	54.7	55.4	53.7	54.0	57.7	54.0	55.0	54.9
10	NK 6267/NH 6267	68.7	66.0	64.7	66.3	66.4	58.7	56.7	59.3	58.2	55.3	55.7	60.7	57.7	58.3	57.5
11	NMH-731	62.0	60.0	61.7	62.3	61.5	54.3	55.3	56.3	55.3	53.0	54.7	58.3	52.7	53.3	54.4
12	NMH-958	65.3	59.0	67.7	62.0	63.5	56.3	58.0	56.0	56.8	52.3	53.3	56.7	54.3	55.0	54.3
13	NMH-920	67.0	64.0	61.7	65.0	64.4	54.7	56.7	55.3	55.6	51.0	54.3	54.7	54.0	55.7	53.9
14	IDX 2901	66.7	64.0	66.7	65.0	65.6	57.0	56.7	59.0	57.6	55.3	53.7	59.7	56.7	55.3	56.1
15	C1945	65.0	67.0	67.7	66.0	66.4	56.3	57.0	58.7	57.3	53.3	55.0	57.3	55.3	55.7	55.3
16	KH-404	65.3	62.0	61.0	64.0	63.1	57.7	55.7	58.7	57.3	52.3	55.0	56.7	54.0	55.3	54.7
17	MAIZE POLO	67.7	63.0	64.7	65.0	65.1	58.7	55.0	59.3	57.7	53.7	56.3	59.3	54.0	54.7	55.6
18	BMH-107	61.3	59.0	60.0	63.3	60.9	54.0	56.7	59.7	56.8	52.3	54.7	56.7	52.7	53.7	54.0
19	BMH-109	65.7	66.0	61.0	63.0	63.9	56.0	59.3	58.0	57.8	53.7	63.0	57.0	52.7	54.3	56.1
20	CMH 08-156	66.0	66.0	63.7	64.0	64.9	53.7	56.7	57.3	55.9	52.7	54.7	57.7	54.3	55.7	55.0
21	CMH 08-154	64.3	65.0	64.7	65.0	64.8	54.0	57.3	53.7	55.0	50.3	52.0	55.3	51.7	56.0	53.1
22	CMH 08-282	64.0	61.0	64.7	63.0	63.2	54.3	57.7	58.0	56.7	51.0	52.0	58.0	51.7	56.0	53.7
23	Laxmi Gold	65.7	61.0	62.7	63.3	63.2	55.0	54.3	58.0	55.8	53.7	56.7	59.3	57.0	56.7	56.7
24	JH-11662(1R) 2009	72.7	64.0	70.7	66.0	68.3	59.3	57.3	58.3	58.3	53.3	55.7	60.0	56.7	53.7	55.9
25	JH-12114 (2R)	61.7	59.0	61.0	61.3	60.8	55.7	58.3	57.7	57.2	51.7	51.0	55.3	52.3	53.7	52.8
26	JH-11858 (2R) 2009	66.7	65.0	68.7	66.3	66.7	59.3	55.7	56.0	57.0	56.3	54.7	61.7	57.7	56.3	57.3
27	BIO-265	72.7	61.0	71.7	65.7	67.7	56.0	57.3	55.7	56.3	56.3	55.3	60.0	57.0	57.7	57.3
28	OM 7878	65.7	65.0	60.7	65.0	64.1	57.0	56.0	55.7	56.2	56.0	56.0	61.7	54.3	55.0	56.6
29	Amar 6669	65.3	66.0	62.0	64.0	64.3	53.7	54.7	57.7	55.3	53.3	53.3	57.0	56.7	54.3	54.9
30	KF-105	60.0	55.0	58.0	61.7	58.7	53.0	55.7	54.3	54.3	50.3	52.7	53.7	48.7	52.7	51.6
31	MCH 40	65.7	61.0	60.7	60.7	62.0	54.7	54.0	59.3	56.0	52.3	54.7	56.7	55.7	55.3	54.9
CHECKS																
32	PMH 1	65.7	63.0	64.7	66.0	64.8	58.0	55.7	56.3	56.7	53.3	55.0	55.7	52.7	55.0	54.3
33	PMH 3	68.0	64.0	66.7	65.0	65.9	58.3	58.0	59.3	58.6	53.7	57.3	59.3	55.7	56.0	56.4
34	Seedtec 2324	65.0	59.0	67.7	65.3	64.3	57.7	56.7	59.3	57.9	53.3	54.7	56.7	52.7	56.0	54.7
35	BIO 9681	59.3	57.0	60.0	61.3	59.4	53.3	55.0	54.7	54.3	52.3	51.0	54.7	50.7	53.3	52.4
	Loc. Mean	65.3	62.1	63.7	64.0	63.8	56.0	56.3	57.5	56.6	53.2	54.6	57.6	54.1	55.2	54.9
	C.D. (5%)	2.51	-	1.30	2.70	2.62	3.08	3.71	2.22	2.40	1.15	4.60	2.73	2.61	1.49	1.68
	C.V. (%)	2.36	-	1.25	2.59	2.93	3.37	4.05	2.37	2.60	1.32	5.17	2.91	2.96	1.61	2.45
	F (Prob.)	0.00	-	0.00	0.00	0.00	0.00	0.63	0.00	0.03	0.00	0.03	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	DAYS TO 50% SILKING												ZN 5	OV'L	
	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB			Mean
1	DMRNSCH2	59.0	55.3	54.3	63.0	54.3	58.7	57.4	53.7	56.5	52.7	52.3	55.3	54.1	56.4
2	Bisco-74	59.7	57.7	61.3	63.3	57.3	60.0	59.9	56.3	56.7	55.0	55.7	56.3	56.0	58.8
3	X8B562	60.0	55.7	60.7	63.3	56.7	58.7	59.2	57.7	56.7	56.3	55.0	56.7	56.5	58.4
4	KMH-3670	60.7	55.7	60.0	64.7	56.3	58.3	59.3	54.7	54.3	57.0	55.0	55.0	55.2	58.1
5	KMH-548	58.7	54.0	61.0	63.7	57.0	59.0	58.9	55.7	55.3	55.7	55.0	55.7	55.5	58.3
6	JKMH 7005	60.0	54.7	60.7	64.7	55.7	59.0	59.1	56.0	56.0	58.7	55.0	55.7	56.3	58.7
7	JKMH 8033	58.0	52.3	59.7	62.7	55.3	54.3	57.1	52.3	55.0	54.3	52.0	54.0	53.5	55.6
8	PRO 378	56.0	51.0	54.7	62.0	53.7	54.7	55.3	53.0	55.0	54.7	52.3	54.3	53.9	55.7
9	NK 6246	60.0	52.7	60.3	63.0	57.7	58.7	58.7	54.3	54.7	57.0	55.3	54.7	55.2	57.4
10	NK 6267/NH 6267	61.0	54.7	60.0	66.7	61.3	65.0	61.4	57.7	54.7	57.7	57.3	55.3	56.5	60.0
11	NMH-731	59.0	55.0	60.7	62.0	57.3	56.0	58.3	53.0	57.0	53.0	53.7	54.3	54.2	56.7
12	NMH-958	58.3	57.0	54.0	63.3	56.7	59.0	58.1	54.7	56.0	53.7	55.0	53.3	54.5	57.3
13	NMH-920	59.7	54.7	61.3	62.3	56.7	57.3	58.7	55.3	54.7	56.0	55.0	54.7	55.1	57.5
14	IDX 2901	60.3	56.3	60.3	64.7	59.3	59.3	60.1	55.7	53.7	54.3	55.7	55.0	54.9	58.7
15	C1945	60.3	53.3	61.0	63.3	56.3	59.3	58.9	55.0	54.0	56.0	54.3	52.7	54.4	58.3
16	KH-404	59.7	55.3	59.3	62.7	57.0	57.7	58.6	54.3	55.0	55.0	55.0	53.3	54.5	57.5
17	MAIZE POLO	61.3	55.7	61.0	63.3	57.0	59.3	59.6	54.3	55.3	57.3	57.0	54.7	55.7	58.6
18	BMH-107	58.7	53.0	58.3	63.7	55.0	54.0	57.1	53.7	55.7	55.3	52.7	53.3	54.1	56.4
19	BMH-109	61.0	56.0	54.3	64.0	58.0	57.0	58.4	54.7	55.7	57.0	55.0	58.7	56.2	58.3
20	CMH 08-156	58.0	54.7	61.3	62.0	55.7	57.0	58.1	54.0	56.3	55.0	52.7	56.3	54.9	57.6
21	CMH 08-154	57.0	56.0	55.0	63.0	54.0	55.7	56.8	52.3	55.3	51.3	52.3	55.0	53.3	56.4
22	CMH 08-282	57.3	55.7	53.7	62.3	56.0	57.0	57.0	54.3	54.7	53.7	52.3	54.0	53.8	56.6
23	Laxmi Gold	60.7	56.3	60.7	63.0	56.0	59.0	59.3	55.3	55.3	56.3	55.0	56.0	55.6	58.1
24	JH-11662(1R) 2009	60.7	53.0	60.3	65.0	55.3	58.0	58.7	54.7	56.3	57.3	55.0	55.3	55.7	59.1
25	JH-12114 (2R)	55.3	51.3	53.0	62.0	52.7	53.7	54.7	51.3	55.7	52.7	51.7	56.3	53.5	55.4
26	JH-11858 (2R) 2009	60.0	54.3	60.3	64.3	58.7	59.0	59.4	57.3	56.0	56.3	56.0	59.3	57.0	59.4
27	BIO-265	60.3	55.0	60.3	63.3	59.0	60.3	59.7	55.7	55.7	56.0	57.0	55.0	55.9	59.3
28	OM 7878	61.0	55.3	60.7	64.0	58.0	59.0	59.7	55.0	55.7	57.3	56.0	55.0	55.8	58.5
29	Amar 6669	60.3	55.3	60.7	63.7	57.0	58.7	59.3	55.3	56.3	55.3	54.3	53.3	54.9	57.8
30	KF-105	54.0	51.7	55.3	63.0	53.3	51.7	54.8	51.0	56.0	53.0	52.3	54.7	53.4	54.4
31	MCH 40	57.0	53.0	61.0	63.0	56.7	56.3	57.8	54.3	54.7	55.7	53.3	52.0	54.0	56.9
CHECKS															
32	PMH 1	58.3	55.3	53.7	62.7	54.0	55.3	56.6	54.0	56.0	56.0	52.7	53.7	54.5	57.1
33	PMH 3	61.0	54.3	54.7	63.0	58.3	58.3	58.3	55.0	55.0	55.7	56.3	54.0	55.2	58.6
34	Seedtec 2324	59.0	53.3	54.3	63.0	56.3	58.0	57.3	54.7	55.7	56.0	55.0	55.3	55.3	57.6
35	BIO 9681	56.7	53.3	54.7	62.7	53.7	54.0	55.8	52.7	55.7	52.7	52.7	54.0	53.5	55.0
	Loc. Mean	59.1	54.5	58.4	63.3	56.4	57.6	58.2	54.5	55.5	55.3	54.4	54.9	54.9	57.6
	C.D. (5%)	1.63	2.81	1.45	1.33	1.98	0.90	1.72	1.31	1.96	2.46	1.17	2.65	1.48	0.91
	C.V. (%)	1.70	3.16	1.53	1.29	2.15	0.96	2.60	1.48	2.17	2.72	1.32	2.96	2.16	1.63
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED														
		BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean
1	DMRNSCH2	58.7	62.0	58.7	57.3	59.2	53.0	53.7	50.7	52.4	48.7	51.3	53.7	48.7	50.3	50.5
2	Bisco-74	63.7	63.0	62.0	59.7	62.1	55.7	54.3	53.0	54.3	52.3	53.7	54.3	51.7	54.7	53.3
3	X8B562	63.7	63.0	62.0	59.7	62.1	54.7	54.3	54.7	54.6	51.7	53.7	53.0	51.0	51.3	52.1
4	KMH-3670	60.3	63.0	59.7	58.3	60.3	54.3	52.7	54.7	53.9	52.0	54.0	54.3	50.3	52.3	52.6
5	KMH-548	64.0	64.0	61.7	59.3	62.3	54.7	54.7	54.3	54.6	53.3	53.7	53.3	50.7	54.0	53.0
6	JKMH 7005	64.0	63.0	57.7	61.3	61.5	55.0	55.0	54.3	54.8	52.3	54.7	56.0	52.3	53.7	53.8
7	JKMH 8033	58.7	57.0	54.7	57.0	56.8	51.7	53.0	53.7	52.8	50.7	50.3	49.7	47.7	51.0	49.9
8	PRO 378	59.7	56.0	57.7	57.7	57.8	54.0	51.7	54.0	53.2	49.3	52.0	52.3	47.7	52.3	50.7
9	NK 6246	63.0	58.0	57.7	60.0	59.7	54.3	53.0	50.3	52.6	51.7	52.3	53.3	50.3	52.0	51.9
10	NK 6267/NH 6267	65.7	65.0	61.0	62.0	63.4	56.7	54.0	54.3	55.0	53.3	54.3	56.7	53.7	55.3	54.7
11	NMH-731	58.7	59.0	57.7	57.3	58.2	53.0	53.3	52.0	52.8	51.3	53.0	55.0	49.0	50.7	51.8
12	NMH-958	62.7	58.0	63.7	58.3	60.7	54.0	55.7	51.3	53.7	50.3	51.7	53.0	51.0	52.3	51.7
13	NMH-920	64.7	63.0	57.7	60.3	61.4	53.3	53.7	50.3	52.4	49.7	53.7	51.0	50.3	53.3	51.6
14	IDX 2901	64.0	65.0	62.7	60.3	63.0	54.7	54.7	54.3	54.6	53.7	52.3	55.7	51.7	53.0	53.3
15	C1945	62.7	67.0	63.7	61.0	63.6	54.3	55.0	54.0	54.4	51.3	53.7	54.0	51.3	53.3	52.7
16	KH-404	62.7	61.0	57.7	59.3	60.2	55.7	53.3	54.0	54.3	50.3	53.3	52.3	50.0	52.3	51.7
17	MAIZE POLO	64.7	62.0	60.7	60.7	62.0	55.0	53.0	54.7	54.2	51.7	54.7	54.7	50.3	53.0	52.9
18	BMH-107	58.0	58.0	57.0	57.7	57.7	52.7	54.0	55.0	53.9	50.3	53.0	54.0	49.7	50.7	51.5
19	BMH-109	62.3	65.0	57.7	58.0	60.8	54.3	56.7	53.0	54.7	51.7	55.3	52.0	49.7	51.3	52.0
20	CMH 08-156	63.3	65.0	59.7	59.7	61.9	54.3	54.3	52.3	53.7	50.7	52.7	53.7	54.0	53.0	52.8
21	CMH 08-154	61.0	65.0	60.7	60.3	61.8	53.0	54.3	48.7	52.0	48.3	50.3	52.3	48.0	53.0	50.4
22	CMH 08-282	61.3	60.0	61.7	58.7	60.4	53.0	53.0	53.0	53.0	49.0	50.7	54.3	48.3	53.0	51.1
23	Laxmi Gold	63.0	60.0	58.7	58.3	60.0	54.0	52.0	53.3	53.1	51.7	55.0	54.3	52.7	54.0	53.5
24	JH-11662(1R) 2009	69.7	63.0	66.7	61.0	65.1	56.7	54.7	53.3	54.9	51.3	55.0	57.7	52.3	50.7	53.4
25	JH-12114 (2R)	58.3	57.0	56.7	56.3	57.1	53.3	55.3	53.3	54.0	49.7	50.0	50.7	48.3	50.7	49.9
26	JH-11858 (2R) 2009	63.7	65.0	64.7	62.0	63.8	57.3	53.0	54.7	55.0	53.3	53.7	56.0	53.0	53.7	53.9
27	BIO-265	69.7	60.0	67.7	62.0	64.8	57.3	54.7	51.3	54.4	54.3	54.3	55.3	52.7	55.0	54.3
28	OM 7878	63.0	65.0	56.7	60.3	61.3	54.3	53.7	51.0	53.0	53.7	54.0	56.0	51.0	52.3	53.4
29	Amar 6669	62.7	65.0	58.7	59.0	61.3	52.7	52.3	52.7	52.6	51.7	52.3	53.3	52.3	51.3	52.2
30	KF-105	56.0	54.0	54.7	57.0	55.4	51.7	53.7	49.3	51.6	48.3	51.3	50.3	45.0	49.7	48.9
31	MCH 40	62.7	60.0	56.7	56.0	58.8	53.3	52.0	54.7	53.3	50.3	54.0	53.7	51.3	52.3	52.3
CHECKS																
32	PMH 1	62.7	62.0	60.7	60.7	61.5	55.0	52.7	51.7	53.1	51.3	53.0	52.3	49.3	52.7	51.7
33	PMH 3	65.0	63.0	62.7	60.0	62.7	55.0	56.0	54.7	55.2	51.7	55.0	55.0	52.0	53.3	53.4
34	Seedtec 2324	62.0	58.0	63.7	60.0	60.9	55.0	54.0	54.3	54.4	51.3	53.3	53.3	49.0	53.3	52.1
35	BIO 9681	56.0	56.0	56.0	56.3	56.1	51.7	53.0	49.7	51.4	50.3	49.3	50.3	47.0	50.3	49.5
	Loc. Mean	62.3	61.4	59.9	59.2	60.7	54.2	53.8	52.9	53.7	51.2	53.0	53.6	50.4	52.4	52.1
	C.D. (5%)	2.71	-	1.27	2.80	2.69	1.72	3.64	1.59	2.15	0.96	2.87	1.82	2.41	1.34	1.35
	C.V. (%)	2.66	-	1.30	2.90	3.15	1.95	4.15	1.84	2.45	1.15	3.32	2.09	2.94	1.57	1.64
	F (Prob.)	0.00	-	0.00	0.00	0.00	0.00	0.74	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No		DAYS TO 50% POLLEN SHED						ZN 4					ZN 5		OV'L
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	DMRNSCH2	57.7	53.3	51.7	62.0	52.7	56.0	55.6	50.7	52.5	49.3	52.0	51.1	53.8	
2	Bisco-74	58.0	54.3	58.7	62.3	55.7	57.3	57.7	53.3	52.7	51.0	55.0	53.0	56.2	
3	X8B562	58.3	54.7	57.7	62.3	55.0	56.7	57.4	55.0	52.7	51.3	53.3	53.1	55.9	
4	KMH-3670	59.0	51.3	57.3	63.7	54.3	55.0	56.8	51.0	51.0	51.7	53.0	51.7	55.2	
5	KMH-548	57.7	59.7	59.0	62.7	55.7	56.3	58.5	53.0	51.7	52.0	54.3	52.8	56.3	
6	JKMH 7005	60.3	55.0	58.0	63.7	54.7	57.0	58.1	53.7	52.0	53.7	55.0	53.6	56.5	
7	JKMH 8033	56.3	49.7	57.7	61.7	52.7	52.3	55.1	49.7	51.3	49.3	52.0	50.6	53.1	
8	PRO 378	55.3	50.7	51.7	61.0	52.0	52.7	53.9	51.0	51.0	50.0	52.3	51.1	53.3	
9	NK 6246	58.3	50.0	57.7	62.0	55.0	55.3	56.4	52.0	51.0	51.7	54.3	52.3	54.7	
10	NK 6267/NH 6267	60.3	54.7	57.3	65.7	60.0	62.3	60.1	55.0	50.7	54.0	55.7	53.8	57.6	
11	NMH-731	58.3	51.3	57.7	61.0	54.7	54.0	56.2	50.3	53.3	49.3	52.3	51.3	54.2	
12	NMH-958	56.7	54.3	51.3	62.3	53.7	56.0	55.7	51.7	52.0	49.7	53.3	51.7	54.7	
13	NMH-920	59.0	52.7	58.7	61.3	55.0	55.7	57.1	52.7	51.0	51.0	53.7	52.1	55.1	
14	IDX 2901	58.7	54.7	57.3	63.7	55.7	57.3	57.9	53.0	51.0	50.7	55.0	52.4	56.3	
15	C1945	58.7	51.3	58.3	62.3	55.0	57.3	57.2	52.7	50.7	52.7	53.0	52.3	56.1	
16	KH-404	57.7	54.3	57.3	61.7	55.0	54.7	56.8	45.3	51.3	51.0	54.7	50.6	54.8	
17	MAIZE POLO	59.0	53.3	58.0	62.3	54.7	57.0	57.4	51.7	52.0	53.0	55.0	52.9	56.0	
18	BMH-107	55.7	50.3	55.3	62.7	53.3	52.0	54.9	51.0	52.0	50.7	52.7	51.6	53.9	
19	BMH-109	59.7	54.0	52.3	63.0	54.7	55.0	56.4	51.7	52.3	52.3	53.3	52.4	55.2	
20	CMH 08-156	58.0	52.3	58.7	61.0	55.3	55.0	56.7	51.7	52.7	51.0	52.7	52.0	55.5	
21	CMH 08-154	56.7	54.0	52.3	62.0	53.3	53.3	55.3	50.0	51.7	48.3	52.0	50.5	54.0	
22	CMH 08-282	57.7	52.7	51.0	61.3	54.0	55.0	55.3	52.3	51.3	49.3	52.3	51.3	54.2	
23	Laxmi Gold	60.7	54.7	58.7	62.0	55.0	56.7	57.9	52.7	51.7	51.3	55.0	52.7	55.7	
24	JH-11662(1R) 2009	60.3	51.0	58.0	64.0	53.7	55.7	57.1	52.7	52.7	53.7	55.0	53.5	56.8	
25	JH-12114 (2R)	54.7	49.0	50.3	61.0	51.7	51.7	53.1	49.3	52.0	48.0	51.7	50.3	52.7	
26	JH-11858 (2R) 2009	59.7	54.0	57.7	63.3	56.7	57.0	58.1	54.3	52.7	52.3	55.0	53.6	56.9	
27	BIO-265	59.3	52.7	58.0	62.3	58.0	58.3	58.1	53.7	52.0	52.3	55.7	53.4	57.1	
28	OM 7878	59.7	53.3	58.3	63.0	55.7	56.0	57.7	51.0	52.0	53.0	55.0	52.8	55.8	
29	Amar 6669	58.3	52.7	57.7	62.7	55.7	56.0	57.2	52.7	52.3	51.3	53.3	52.4	55.3	
30	KF-105	53.7	47.3	52.7	62.0	52.0	49.7	52.9	48.7	52.3	48.3	52.0	50.3	51.8	
31	MCH 40	56.7	51.3	57.7	62.0	54.7	55.0	56.2	51.7	51.0	51.0	52.7	51.6	54.6	
	CHECKS														
32	PMH 1	58.3	52.0	50.7	61.7	53.7	53.3	54.9	52.0	52.7	51.7	52.7	52.3	54.7	
33	PMH 3	60.0	51.3	52.0	62.0	55.0	56.0	56.1	52.7	51.3	51.0	54.3	52.3	55.9	
34	Seedtec 2324	57.3	52.3	51.3	62.0	53.7	55.3	55.3	52.3	52.0	51.7	53.7	52.4	55.0	
35	BIO 9681	55.7	50.3	52.3	61.7	52.0	51.7	53.9	49.7	52.0	48.0	52.3	50.5	52.3	
	Loc. Mean	58.0	52.6	55.7	62.3	54.6	55.3	56.4	51.8	51.8	51.0	53.6	52.1	55.1	
	C.D. (5%)	1.68	4.45	1.24	1.33	1.38	1.02	1.72	3.35	1.70	2.18	1.18	1.61	0.89	
	C.V. (%)	1.78	5.19	1.37	1.31	1.56	1.13	2.68	3.97	2.01	2.63	1.35	2.21	2.73	
	F (Prob.)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	0.00	

Table No. 5 (Continued)

Sl No	DAYS TO 75% DRY HUSK															
	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean	
1	DMRNSCH2	100.3	106.0	102.0	86.0	98.6	111.7	89.0	89.7	96.8	86.7	89.0	91.3	96.7	92.0	91.1
2	Bisco-74	107.7	106.0	104.0	85.7	100.8	114.7	88.3	91.7	98.2	89.7	91.0	90.0	95.7	91.7	91.6
3	X8B562	107.3	107.0	105.0	84.7	101.0	114.0	92.0	92.3	99.4	89.3	94.0	89.0	96.7	91.0	92.0
4	KMH-3670	106.7	106.0	102.7	85.0	100.1	113.0	90.3	93.0	98.8	89.7	94.7	93.0	96.7	94.3	93.7
5	KMH-548	106.3	109.0	105.7	85.0	101.5	113.3	92.3	91.7	99.1	92.0	92.3	88.0	96.7	93.0	92.4
6	JKMH 7005	103.3	106.0	102.7	85.3	99.3	114.3	91.3	90.7	98.8	84.3	90.7	91.3	97.3	95.0	91.7
7	JKMH 8033	98.0	103.0	97.0	84.7	95.7	110.3	91.7	93.7	98.6	84.3	90.0	87.3	96.3	84.0	88.4
8	PRO 378	101.0	103.0	102.0	85.3	97.8	112.7	92.0	91.0	98.6	84.7	88.7	87.0	96.3	91.0	89.5
9	NK 6246	106.0	102.0	102.0	85.7	98.9	114.0	93.0	88.7	98.6	89.3	90.3	92.3	97.3	90.3	91.9
10	NK 6267/NH 6267	105.0	110.0	105.0	86.3	101.6	115.0	91.0	95.3	100.4	90.7	91.3	92.0	95.7	90.3	92.0
11	NMH-731	104.3	105.0	99.0	86.0	98.6	111.3	93.0	84.7	96.3	91.7	95.0	92.0	97.0	89.3	93.0
12	NMH-958	108.3	100.0	105.0	84.7	99.5	113.3	92.3	90.0	98.6	88.0	91.3	92.0	96.7	94.0	92.4
13	NMH-920	101.7	108.0	103.7	87.7	100.3	113.3	90.3	91.0	98.2	90.7	93.3	92.3	96.3	90.0	92.5
14	IDX 2901	105.7	108.0	104.7	85.0	100.8	113.7	90.7	94.0	99.4	88.0	90.0	90.3	96.7	93.3	91.7
15	C1945	104.7	112.0	105.0	86.0	101.9	113.7	92.3	92.0	99.3	89.7	91.3	90.3	97.0	90.7	91.8
16	KH-404	103.3	104.0	103.7	87.0	99.5	114.3	90.7	93.7	99.6	85.7	91.0	89.7	95.3	93.0	90.9
17	MAIZE POLO	106.0	104.0	106.7	85.3	100.5	114.7	94.0	94.0	100.9	87.7	91.0	91.7	95.3	91.7	91.5
18	BMH-107	99.0	102.0	101.7	85.0	96.9	111.3	89.3	92.7	97.8	88.7	88.3	90.7	94.7	91.3	90.7
19	BMH-109	105.7	110.0	102.0	86.3	101.0	113.3	93.0	91.0	99.1	90.7	94.3	90.7	96.0	92.3	92.8
20	CMH 08-156	101.0	110.0	101.7	85.7	99.6	114.0	92.7	93.0	99.9	84.7	85.0	74.3	96.7	84.0	84.9
21	CMH 08-154	96.0	108.0	100.7	85.0	97.4	111.0	90.7	88.3	96.7	83.7	85.3	87.7	96.0	88.7	88.3
22	CMH 08-282	98.7	102.0	99.7	85.0	96.3	112.7	91.0	92.7	98.8	84.7	84.7	86.3	95.3	90.0	88.2
23	Laxmi Gold	102.0	102.0	101.7	85.3	97.8	112.7	91.0	92.7	98.8	88.7	91.0	92.0	95.3	94.7	92.3
24	JH-11662(1R) 2009	108.3	108.0	106.0	87.0	102.3	115.0	92.3	93.3	100.2	89.3	91.7	91.3	96.7	92.7	92.3
25	JH-12114 (2R)	95.3	102.0	101.0	84.7	95.8	113.0	90.7	93.0	98.9	84.7	85.0	86.3	97.0	90.0	88.6
26	JH-11858 (2R) 2009	104.7	108.0	104.0	87.0	100.9	115.0	92.7	93.7	100.4	88.3	89.3	93.0	96.7	91.0	91.7
27	BIO-265	116.3	103.0	107.7	86.3	103.3	114.7	95.3	86.0	98.7	90.0	94.0	92.0	97.0	88.0	92.2
28	OM 7878	106.7	109.0	101.0	84.7	100.3	114.3	93.0	87.7	98.3	88.7	93.0	91.3	96.0	88.0	91.4
29	Amar 6669	102.0	109.0	103.0	84.7	99.7	110.3	92.0	89.0	97.1	88.0	93.7	89.3	96.0	89.0	91.2
30	KF-105	97.3	98.0	101.0	85.3	95.4	110.0	90.0	89.7	96.6	83.3	86.7	87.0	94.7	89.3	88.2
31	MCH 40	105.7	103.0	103.7	86.7	99.8	111.7	89.7	93.3	98.2	85.3	88.3	88.7	98.0	91.0	90.3
CHECKS																
32	PMH 1	97.7	105.0	100.0	86.0	97.2	114.7	90.7	89.0	98.1	83.0	86.0	85.0	98.0	90.7	88.5
33	PMH 3	101.0	108.0	105.7	86.3	100.3	114.7	92.0	92.3	99.7	87.3	91.7	89.0	97.0	89.3	90.9
34	Seedtec 2324	105.7	102.0	105.7	86.0	99.8	114.7	92.7	92.0	99.8	90.3	91.7	91.3	96.3	90.3	92.0
35	BIO 9681	97.3	100.0	102.0	85.0	96.1	110.3	91.0	93.0	98.1	87.7	88.7	87.7	96.0	90.0	90.0
	Loc. Mean	103.3	105.4	103.0	85.6	99.3	113.2	91.5	91.4	98.7	87.7	90.4	89.5	96.4	90.7	90.9
	C.D. (5%)	2.60	-	1.64	1.72	3.67	2.41	4.86	2.56	2.94	1.40	3.01	5.46	2.02	0.91	2.54
	C.V. (%)	1.55	-	0.98	1.23	2.63	1.31	3.26	1.72	1.83	0.98	2.04	3.75	1.29	0.61	2.24
	F (Prob.)	0.00	-	0.00	0.02	0.00	0.00	0.86	0.00	0.31	0.00	0.00	0.00	0.22	0.00	0.00

Table No. 5 (Continued)

Sl No	DAYS TO 75% DRY HUSK							ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean
	ARBH	HYDE	KARI	KOLH	MAND	COIM								
1	DMRNSCH2	93.0	96.3	80.7	100.0	100.3	108.0	96.4	86.3	89.5	80.7	88.0	86.1	93.8
2	Bisco-74	95.0	99.3	82.7	100.3	103.0	108.7	98.2	89.3	90.7	81.7	91.3	88.3	95.4
3	X8B562	92.3	100.0	81.0	100.3	101.0	108.0	97.1	90.3	90.3	80.7	90.3	87.9	95.3
4	KMH-3670	95.3	94.3	82.0	101.7	104.0	108.0	97.6	87.7	88.0	83.3	90.7	87.4	95.5
5	KMH-548	93.0	96.3	82.7	100.7	103.3	107.3	97.2	89.3	88.7	81.0	90.3	87.3	95.4
6	JKMH 7005	94.0	96.0	82.0	101.3	97.3	108.0	96.4	90.0	87.7	80.7	89.3	86.9	94.5
7	JKMH 8033	91.3	94.3	81.7	99.7	98.0	102.0	94.5	84.3	88.7	79.0	88.0	85.0	92.2
8	PRO 378	91.3	94.7	81.7	99.0	96.7	104.0	94.6	86.0	87.7	78.7	89.7	85.5	92.9
9	NK 6246	94.3	96.0	82.0	100.0	99.3	107.0	96.4	87.3	89.3	80.7	91.0	87.1	94.5
10	NK 6267/NH 6267	95.0	98.0	82.3	103.3	103.7	111.3	98.9	91.3	88.7	81.3	91.7	88.3	96.1
11	NMH-731	94.3	96.7	82.0	99.0	104.7	104.7	96.9	85.7	91.7	79.3	90.0	86.7	94.4
12	NMH-958	93.0	97.3	82.0	100.3	99.7	108.0	96.7	86.7	91.0	80.3	89.7	86.9	94.7
13	NMH-920	92.7	98.3	81.7	99.3	101.0	105.7	96.4	87.3	90.0	80.7	91.0	87.3	94.8
14	IDX 2901	94.7	99.7	82.7	101.0	101.0	108.0	97.8	89.7	88.0	79.7	91.0	87.1	95.2
15	C1945	95.0	96.3	80.7	100.3	98.0	108.0	96.4	88.3	87.3	81.7	89.3	86.7	95.0
16	KH-404	94.3	99.0	82.7	99.7	101.7	105.7	97.2	87.7	89.7	80.0	89.0	86.6	94.6
17	MAIZE POLO	94.7	98.0	81.0	100.3	101.0	108.0	97.2	88.3	89.0	81.3	90.7	87.3	95.2
18	BMH-107	93.0	95.7	82.0	100.7	99.3	102.0	95.4	87.3	90.3	82.3	88.7	87.2	93.5
19	BMH-109	95.0	98.3	82.7	101.0	103.0	106.0	97.7	87.7	89.7	81.7	90.7	87.4	95.5
20	CMH 08-156	93.0	97.3	82.0	99.0	95.3	105.0	95.3	87.7	88.7	79.7	86.0	85.5	92.6
21	CMH 08-154	92.7	98.3	81.7	100.0	95.0	105.0	95.4	86.3	89.0	79.3	86.7	85.3	92.5
22	CMH 08-282	92.3	100.3	82.0	99.3	97.0	105.7	96.1	87.0	88.3	80.7	87.0	85.8	92.8
23	Laxmi Gold	93.3	99.0	81.7	100.3	99.7	108.0	97.0	88.0	89.7	81.3	90.3	87.3	94.6
24	JH-11662(1R) 2009	94.7	101.0	82.0	102.0	98.0	106.0	97.3	86.3	89.7	80.3	91.0	86.8	95.6
25	JH-12114 (2R)	93.0	95.7	82.3	99.0	96.0	102.0	94.7	75.0	89.3	77.0	88.7	82.5	91.8
26	JH-11858 (2R) 2009	93.7	98.7	82.0	101.3	99.3	108.0	97.2	90.7	89.3	82.0	90.7	88.2	95.4
27	BIO-265	94.7	96.7	82.0	100.3	104.3	109.3	97.9	88.0	89.3	80.7	91.7	87.4	95.8
28	OM 7878	95.7	99.3	81.7	101.0	102.7	107.3	97.9	88.0	91.3	81.3	90.0	87.7	95.1
29	Amar 6669	94.3	99.3	83.0	100.7	104.7	108.0	98.3	88.0	89.0	80.0	88.3	86.3	94.6
30	KF-105	93.0	93.3	80.7	100.0	97.0	100.0	94.0	84.7	89.7	79.3	87.0	85.2	91.7
31	MCH 40	92.0	95.7	82.7	100.0	101.0	106.0	96.2	86.3	89.7	81.0	89.7	86.7	94.0
CHECKS														
32	PMH 1	92.7	97.0	81.0	99.7	96.0	104.0	95.1	88.0	90.0	80.3	86.3	86.2	92.8
33	PMH 3	95.3	97.3	82.0	100.0	98.0	108.0	96.8	88.3	88.3	80.0	91.0	86.9	94.7
34	Seedtec 2324	93.0	96.0	82.7	100.0	99.7	108.0	96.6	87.7	90.0	80.0	90.3	87.0	94.8
35	BIO 9681	92.7	95.7	82.0	99.7	99.7	102.0	95.3	86.3	89.7	79.7	89.0	86.2	93.0
	Loc. Mean	93.6	97.3	81.9	100.3	100.0	106.3	96.6	87.3	89.3	80.5	89.5	86.7	94.3
	C.D. (5%)	2.53	1.74	1.47	1.44	3.35	1.10	1.75	5.22	2.52	2.36	1.34	2.13	1.15
	C.V. (%)	1.66	1.10	1.10	0.88	2.05	0.63	1.59	3.67	1.73	1.80	0.92	1.75	2.07
	F (Prob.)	0.03	0.00	0.10	0.00	0.00	0.00	0.00	0.01	0.18	0.01	0.00	0.00	0.00

Table No.5 (Continued)

Sl No	MOISTURE % AT HARVEST														
	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	ZN 3 Mean	
1	DMRNSCH2	23.6	21.7	27.1	25.5	24.4	28.0	31.9	15.0	25.0	25.1	26.0	33.2	24.7	27.2
2	Bisco-74	24.2	25.3	29.8	25.5	26.2	32.4	32.8	15.0	26.7	27.2	28.8	31.5	24.2	27.9
3	X8B562	23.4	22.0	30.2	24.5	25.0	28.4	32.6	15.0	25.3	27.0	27.6	35.3	24.0	28.5
4	KMH-3670	25.8	23.3	31.1	27.5	26.9	28.5	31.8	15.0	25.1	20.6	29.3	38.5	24.7	28.3
5	KMH-548	26.1	22.0	26.3	24.5	24.7	27.2	32.5	15.0	24.9	27.6	30.1	38.4	26.0	30.5
6	JKMH 7005	23.7	24.7	29.6	24.5	25.6	26.2	33.5	15.0	24.9	27.0	26.5	35.3	25.6	28.6
7	JKMH 8033	24.2	23.0	27.4	24.0	24.6	23.9	31.2	15.0	23.4	26.2	25.3	30.8	25.5	26.9
8	PRO 378	23.0	24.0	31.9	25.0	26.0	29.0	32.6	15.0	25.5	27.2	26.9	34.1	24.5	28.2
9	NK 6246	22.6	22.3	28.7	26.0	24.9	28.9	32.6	15.0	25.5	28.2	30.0	35.5	24.5	29.5
10	NK 6267/NH 6267	23.0	22.0	29.1	26.0	25.0	31.4	32.4	15.0	26.3	27.5	26.8	34.8	25.0	28.5
11	NMH-731	22.6	23.3	27.1	26.0	24.7	29.8	30.8	15.0	25.2	27.0	30.0	35.6	25.4	29.5
12	NMH-958	25.5	25.0	28.5	25.0	26.0	25.7	31.6	15.0	24.1	26.7	30.6	32.6	25.7	28.9
13	NMH-920	22.8	21.7	26.5	26.5	24.4	27.4	34.5	15.0	25.6	26.6	26.0	31.6	25.4	27.4
14	IDX 2901	25.2	23.0	27.7	25.0	25.2	29.3	33.1	15.0	25.8	27.2	25.7	33.3	24.5	27.7
15	C1945	23.8	26.0	27.7	26.0	25.9	28.9	33.7	15.0	25.9	26.5	25.7	34.3	25.5	28.0
16	KH-404	23.1	22.3	32.6	25.5	25.9	29.0	32.5	15.0	25.5	27.1	29.3	33.8	25.1	28.8
17	MAIZE POLO	24.9	25.3	29.5	26.0	26.4	30.5	31.5	15.0	25.7	27.2	28.5	34.5	55.6	36.5
18	BMH-107	22.0	25.0	28.1	24.0	24.8	25.8	30.0	15.0	23.6	25.6	26.9	32.5	25.3	27.6
19	BMH-109	23.2	22.0	22.0	25.5	23.2	22.6	32.7	15.0	23.4	28.1	27.2	32.9	25.0	28.3
20	CMH 08-156	23.2	23.0	29.8	25.5	25.4	26.4	32.0	15.0	24.5	24.9	26.5	34.1	24.8	27.6
21	CMH 08-154	23.7	22.7	27.1	26.0	24.9	28.6	32.8	15.0	25.5	25.8	26.9	32.4	25.5	27.6
22	CMH 08-282	25.6	25.0	27.6	25.0	25.8	28.3	32.8	15.0	25.4	25.5	27.6	32.7	25.2	27.7
23	Laxmi Gold	21.4	22.3	25.3	24.5	23.4	24.3	33.4	15.0	24.2	26.0	28.9	33.8	25.5	28.5
24	JH-11662(1R) 2009	23.7	26.0	30.2	25.5	26.4	29.5	32.5	15.0	25.7	26.6	27.5	35.0	24.1	28.3
25	JH-12114 (2R)	23.1	24.7	28.1	25.5	25.3	28.2	32.8	15.0	25.3	28.1	26.8	34.0	24.3	28.3
26	JH-11858 (2R) 2009	23.1	24.0	31.0	25.5	25.9	30.5	33.1	15.0	26.2	26.6	25.9	36.3	23.9	28.2
27	BIO-265	23.0	25.0	31.7	25.5	26.3	27.7	32.4	15.0	25.0	26.8	28.2	33.6	25.2	28.5
28	OM 7878	25.1	25.7	29.6	26.0	26.6	30.3	31.1	15.0	25.5	25.9	29.5	35.0	25.2	28.9
29	Amar 6669	23.1	24.0	30.5	25.0	25.6	27.8	32.0	15.0	24.9	25.2	28.1	32.3	25.2	27.7
30	KF-105	20.4	25.7	32.4	24.5	25.7	24.8	31.4	15.0	23.7	24.9	21.3	32.8	24.5	25.9
31	MCH 40	23.9	25.0	29.1	25.5	25.9	28.8	32.7	15.0	25.5	25.4	27.4	33.8	25.1	27.9
CHECKS															
32	PMH 1	25.6	24.7	27.0	24.5	25.4	27.7	31.1	15.0	24.6	24.8	29.2	29.6	23.9	26.9
33	PMH 3	22.9	23.3	27.5	26.0	24.9	31.5	31.0	15.0	25.8	26.5	25.5	34.3	26.0	28.1
34	Seedtec 2324	24.2	24.0	29.9	26.0	26.0	28.4	32.4	15.0	25.3	27.0	26.2	35.6	25.3	28.5
35	BIO 9681	21.4	23.7	29.0	24.5	24.6	22.8	30.9	15.0	22.9	25.8	22.3	29.9	24.5	25.6
	Loc. Mean	23.6	23.8	28.7	25.4	25.4	27.9	32.2	15.0	25.1	26.3	27.3	33.8	25.8	28.3
	C.D. (5%)	1.75	1.13	2.56	0.90	1.98	3.34	-	-	2.33	1.99	-	0.00	8.71	4.10
	C.V. (%)	4.55	2.93	5.47	2.18	5.57	7.34	-	-	5.70	4.65	-	0.00	20.72	11.68
	F (Prob.)	0.00	0.00	0.00	0.00	0.09	0.00	0.00	-	0.33	0.00	0.00	0.00	0.00	0.13

Table No.5 (Continued)

Sl No	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean	
1	DMRNSCH2	15.4	22.2	14.2	13.4	17.2	21.4	17.3	16.1	16.9	20.8	19.4	18.3	21.8
2	Bisco-74	14.9	24.8	13.9	15.8	17.8	25.1	18.7	18.1	17.0	20.3	20.0	18.8	23.0
3	X8B562	15.6	24.3	12.8	14.2	16.5	27.3	18.4	16.6	17.2	20.7	21.0	18.8	22.7
4	KMH-3670	15.9	24.2	12.9	14.3	17.5	23.3	18.0	17.9	17.4	23.5	20.1	19.7	23.0
5	KMH-548	14.8	24.7	13.5	14.3	15.8	28.7	18.6	15.7	17.0	23.5	20.0	19.0	23.0
6	JKMH 7005	15.8	23.8	13.5	14.0	16.0	26.8	18.3	17.8	17.0	18.0	21.3	18.5	22.6
7	JKMH 8033	10.8	21.2	13.4	13.6	14.9	23.4	16.2	14.4	16.5	18.1	17.5	16.6	21.0
8	PRO 378	18.6	23.7	13.3	13.2	17.2	23.3	18.2	18.0	17.4	21.1	21.0	19.4	22.8
9	NK 6246	16.1	24.2	13.5	15.1	17.8	25.5	18.7	17.3	17.0	22.0	23.8	20.0	23.2
10	NK 6267/NH 6267	11.7	22.1	13.6	16.4	17.0	24.6	17.5	16.6	17.8	22.3	21.4	19.5	22.7
11	NMH-731	14.1	23.7	13.8	14.4	15.7	26.3	18.0	17.1	17.1	21.5	20.0	18.9	22.7
12	NMH-958	14.6	20.3	14.9	13.9	16.0	28.9	18.1	16.5	17.5	17.5	20.0	17.8	22.5
13	NMH-920	16.2	22.6	14.2	15.7	17.4	24.2	18.4	17.0	16.4	22.7	19.6	18.9	22.4
14	IDX 2901	14.8	23.2	14.0	14.4	15.7	23.3	17.6	17.1	17.2	19.0	18.7	18.0	22.2
15	C1945	13.9	23.9	14.4	14.9	14.5	27.2	18.1	14.7	16.8	18.2	17.5	16.8	22.3
16	KH-404	16.3	18.3	14.5	14.7	15.9	24.5	17.3	17.5	17.4	19.7	21.2	18.9	22.6
17	MAIZE POLO	12.3	24.8	14.4	14.4	17.6	26.4	18.3	17.1	16.5	22.5	20.9	19.2	24.5
18	BMH-107	14.9	19.2	13.2	14.7	14.5	26.3	17.1	16.7	17.3	21.0	17.8	18.2	21.7
19	BMH-109	14.3	23.0	13.8	15.4	14.8	23.9	17.5	17.0	16.7	19.8	17.9	17.9	21.6
20	CMH 08-156	16.0	25.7	13.6	14.7	15.5	22.7	18.0	18.0	17.6	26.5	19.9	20.5	22.6
21	CMH 08-154	15.4	23.7	13.2	14.7	15.2	24.5	17.8	16.0	17.3	23.0	19.9	19.0	22.3
22	CMH 08-282	17.1	22.4	14.1	15.3	15.4	26.5	18.4	16.8	16.9	24.5	20.9	19.8	22.8
23	Laxmi Gold	15.9	23.6	13.8	13.1	16.1	24.1	17.8	16.6	16.9	19.3	19.1	18.0	21.8
24	JH-11662(1R) 2009	15.9	24.0	14.1	14.4	16.4	23.6	18.0	16.6	17.8	21.5	16.9	18.2	22.7
25	JH-12114 (2R)	13.4	23.7	14.7	13.5	15.8	23.0	17.3	17.0	16.6	26.4	20.7	20.2	22.6
26	JH-11858 (2R) 2009	15.8	26.0	14.9	13.7	15.9	26.2	18.7	18.0	16.8	22.7	22.0	19.8	23.2
27	BIO-265	18.5	24.9	14.1	14.8	16.4	24.9	18.9	18.6	17.3	19.5	20.2	18.9	23.0
28	OM 7878	16.0	26.3	14.1	14.4	15.6	25.6	18.6	17.0	17.5	21.3	20.4	19.0	23.1
29	Amar 6669	14.2	24.5	14.3	15.2	14.6	25.7	18.1	16.0	17.2	16.7	18.0	16.9	22.1
30	KF-105	14.4	22.4	14.3	14.9	17.4	22.3	17.6	17.0	16.5	18.1	17.2	17.2	21.5
31	MCH 40	18.0	23.0	14.0	14.6	16.3	22.6	18.1	15.0	17.8	22.8	19.8	18.8	22.6
CHECKS														
32	PMH 1	15.4	24.7	14.0	14.4	15.9	23.7	18.0	16.1	17.8	22.7	20.6	19.3	22.3
33	PMH 3	13.9	22.2	14.8	13.9	15.6	25.6	17.6	18.6	16.2	22.4	22.6	20.0	22.6
34	Seedtec 2324	15.4	26.1	14.1	15.1	15.7	25.9	18.7	16.0	17.4	22.1	19.3	18.7	22.9
35	BIO 9681	14.4	23.1	14.0	15.1	13.4	24.4	17.4	17.0	16.6	17.6	17.2	17.1	21.1
	Loc. Mean	15.1	23.4	13.9	14.5	16.0	24.9	18.0	16.8	17.1	21.1	19.8	18.7	22.5
	C.D. (5%)	1.94	2.73	0.80	0.97	0.71	1.27	1.53	0.40	0.72	2.94	0.96	1.92	1.08
	C.V. (%)	7.85	7.17	3.50	4.13	2.74	3.13	7.46	1.45	2.57	8.55	2.98	7.31	7.91
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT(cm)								ZN 2			ZN 3			
		BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	KANP	Mean	BAHR	DHOL	VARA	RANC	AMBI	Mean
1	DMRNSCH2	244.3	220.3	286.7	203.1	238.6	208.0	203.3	104.0	171.8	199.7	181.5	206.3	205.9	255.1	209.7
2	Bisco-74	271.7	219.2	279.0	195.0	241.2	206.0	216.7	72.7	165.1	190.7	169.3	187.5	199.1	233.1	195.9
3	X8B562	250.0	252.1	333.7	211.4	261.8	233.7	220.0	113.0	188.9	210.0	217.7	208.0	209.6	256.4	220.3
4	KMH-3670	231.0	249.6	292.7	201.2	243.6	208.0	216.7	107.7	177.4	201.3	195.3	213.3	237.4	274.6	224.4
5	KMH-548	230.0	176.8	276.0	183.1	216.5	212.0	193.3	82.3	162.6	166.0	167.3	202.0	196.4	223.1	191.0
6	JKMH 7005	224.0	232.5	271.0	195.3	230.7	206.3	183.3	115.0	168.2	185.7	168.0	186.3	193.5	230.7	192.8
7	JKMH 8033	197.3	215.9	252.0	187.6	213.2	213.0	186.7	78.3	159.3	191.3	185.7	205.5	208.0	219.3	202.0
8	PRO 378	224.3	211.1	260.0	192.9	222.1	194.0	190.0	97.3	160.4	200.7	177.2	187.3	183.5	215.2	192.8
9	NK 6246	226.7	210.8	272.0	197.1	226.6	196.0	196.7	96.0	162.9	179.7	184.8	161.3	190.3	242.3	191.7
10	NK 6267/NH 6267	278.0	224.5	283.7	208.4	248.6	230.7	203.3	94.3	176.1	187.3	187.5	190.0	221.7	270.1	211.3
11	NMH-731	202.7	214.7	280.0	199.1	224.1	225.0	205.0	73.0	167.7	214.0	177.3	211.3	214.2	256.4	214.6
12	NMH-958	243.0	210.2	288.7	216.9	239.7	201.7	200.0	111.3	171.0	197.0	176.7	200.0	203.1	221.0	199.6
13	NMH-920	222.0	223.2	260.0	186.9	223.0	192.0	213.3	97.3	167.6	181.3	166.7	186.3	214.7	219.1	193.6
14	IDX 2901	246.3	206.0	282.7	203.2	234.6	205.3	195.0	93.3	164.6	182.3	178.8	202.5	187.0	237.5	197.6
15	C1945	234.7	185.7	258.0	176.2	213.7	201.0	190.0	101.7	164.2	201.3	171.7	162.5	199.9	229.3	193.0
16	KH-404	229.0	188.2	258.0	201.7	219.2	183.3	186.7	88.7	152.9	177.7	155.8	185.3	184.7	230.9	186.9
17	MAIZE POLO	234.3	160.2	279.0	211.8	221.3	193.0	178.3	85.3	152.2	208.0	147.2	186.3	197.0	218.9	191.5
18	BMH-107	230.7	156.8	265.3	201.2	213.5	200.0	220.0	97.7	172.6	197.0	159.0	203.0	188.6	233.9	196.3
19	BMH-109	228.3	162.3	268.3	206.7	216.4	205.0	196.7	96.0	165.9	215.0	177.8	192.3	210.1	238.2	206.7
20	CMH 08-156	247.3	200.3	309.0	183.2	235.0	241.0	220.0	105.0	188.7	208.7	209.3	235.3	203.7	275.6	226.5
21	CMH 08-154	237.0	207.1	287.0	199.7	232.7	213.0	200.0	111.3	174.8	201.7	182.3	202.8	199.4	259.8	209.2
22	CMH 08-282	270.3	215.6	288.3	206.2	245.1	244.0	216.7	88.0	182.9	212.3	197.2	216.5	211.1	269.5	221.3
23	Laxmi Gold	231.7	219.0	286.0	211.7	237.1	212.3	190.0	87.7	163.3	212.7	180.2	192.3	199.0	230.6	202.9
24	JH-11662(1R) 2009	237.3	211.9	289.3	182.7	230.3	190.3	211.7	110.3	170.8	208.3	171.3	207.5	209.9	240.0	207.4
25	JH-12114 (2R)	226.0	210.7	273.0	216.3	231.5	215.0	201.7	99.7	172.1	193.7	202.0	204.5	198.6	217.0	203.2
26	JH-11858 (2R) 2009	271.0	212.4	290.0	211.5	246.2	218.7	216.7	89.0	174.8	202.0	189.3	188.8	211.2	248.9	208.0
27	BIO-265	251.7	205.1	277.0	209.4	235.8	228.0	230.0	83.7	180.6	201.7	180.8	193.8	215.3	231.3	204.6
28	OM 7878	230.0	201.5	255.0	178.7	216.3	208.3	210.0	86.0	168.1	198.0	182.3	188.8	199.7	242.5	202.3
29	Amar 6669	219.0	207.6	269.3	199.1	223.8	196.3	176.7	91.0	154.7	194.3	176.7	167.5	211.9	235.5	197.2
30	KF-105	203.3	192.0	247.0	196.8	209.8	172.3	163.3	68.0	134.6	200.3	151.5	165.0	184.9	211.2	182.6
31	MCH 40	275.3	207.7	287.0	212.2	245.5	182.7	213.3	37.0	144.3	195.0	177.2	203.8	211.5	251.3	207.7
	CHECKS															
32	PMH 1	227.7	228.0	281.0	213.3	237.5	239.3	206.7	103.0	183.0	205.3	204.2	216.3	222.5	240.1	217.7
33	PMH 3	240.7	217.4	304.0	209.9	243.0	236.7	218.3	118.3	191.1	205.0	183.0	237.5	228.5	249.3	220.7
34	Seedtec 2324	216.7	212.6	281.3	184.7	223.8	199.0	203.3	103.3	168.6	194.3	172.7	210.0	197.1	233.6	201.5
35	BIO 9681	217.7	208.0	274.3	149.3	212.3	183.3	186.7	82.0	150.7	193.3	155.3	175.5	187.9	220.9	186.6
	Loc. Mean	235.7	207.9	278.4	198.4	230.1	208.4	201.7	93.4	167.8	197.5	178.9	196.6	203.9	238.9	203.2
	C.D. (5%)	13.11	8.51	17.39	35.19	21.29	24.59	27.07	16.51	21.41	26.59	25.62	6.91	20.52	27.99	14.16
	C.V. (%)	3.41	2.51	3.83	10.89	6.60	7.24	8.24	10.85	7.83	8.26	8.79	2.16	6.18	7.19	5.57
	F (Prob.)	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	EAR HEIGHT(cm)													ZN 3 Mean	
					ZN 1			ZN 2							
	BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	KANP	Mean	BAHR	VARA	RANC	AMBI		
1	DMRNSCH2	141.0	84.5	145.0	94.7	116.3	96.7	95.0	205.0	132.2	87.7	105.3	91.5	86.1	92.6
2	Bisco-74	164.7	92.2	151.7	90.0	124.6	112.0	120.0	186.3	139.4	81.7	93.0	97.9	82.8	88.8
3	X8B562	129.0	87.9	169.7	103.2	122.4	121.3	110.0	196.3	142.6	97.0	96.3	112.9	94.5	100.2
4	KMH-3670	133.3	83.5	135.7	98.8	112.8	102.7	100.0	197.3	133.3	90.3	101.5	101.8	90.9	96.1
5	KMH-548	117.0	79.3	138.0	85.3	104.9	108.7	95.0	174.7	126.1	88.3	101.3	94.3	82.2	91.5
6	JKMH 7005	126.7	109.4	158.7	93.0	121.9	120.3	83.3	219.0	140.9	82.7	101.3	96.6	81.3	90.5
7	JKMH 8033	132.0	80.2	103.0	80.8	99.0	91.7	90.0	161.0	114.2	78.3	91.8	90.1	68.9	82.3
8	PRO 378	123.7	88.3	133.7	86.8	108.1	93.7	88.3	179.0	120.3	97.7	96.3	87.7	74.0	88.9
9	NK 6246	122.7	84.3	133.0	90.5	107.6	92.3	90.0	187.0	123.1	80.3	87.5	88.1	84.3	85.1
10	NK 6267/NH 6267	172.0	104.5	156.7	109.8	135.8	129.3	106.7	190.0	142.0	96.7	97.5	116.5	113.1	106.0
11	NMH-731	102.3	83.6	137.0	90.2	103.3	109.3	95.0	165.7	123.3	81.7	110.8	90.3	87.9	92.7
12	NMH-958	135.7	83.1	149.0	105.5	118.3	107.7	103.3	200.7	137.2	85.0	107.5	81.6	68.9	85.7
13	NMH-920	113.0	91.4	133.0	83.0	105.1	88.7	100.0	172.0	120.2	77.3	95.0	97.0	71.1	85.1
14	IDX 2901	143.7	91.5	152.0	100.8	122.0	115.3	90.0	189.7	131.7	86.0	116.3	99.7	85.7	96.9
15	C1945	136.7	85.4	131.7	75.5	107.3	116.0	100.0	205.3	140.4	91.3	92.8	104.4	86.9	93.8
16	KH-404	124.7	74.0	146.0	99.2	111.0	100.0	86.7	185.3	124.0	82.7	107.8	87.1	91.5	92.3
17	MAIZE POLO	131.3	70.7	149.0	100.5	112.9	106.0	83.3	161.0	116.8	96.0	102.5	97.8	81.9	94.5
18	BMH-107	122.7	55.3	128.7	96.1	100.7	93.0	81.7	189.7	121.4	77.0	105.3	86.2	70.9	84.8
19	BMH-109	103.3	47.9	116.0	98.6	91.5	95.3	81.7	219.7	132.2	88.7	95.0	93.9	88.8	91.6
20	CMH 08-156	139.7	91.3	166.7	98.1	123.9	131.0	110.0	205.3	148.8	97.7	136.5	102.7	129.1	116.5
21	CMH 08-154	130.7	87.9	142.0	88.0	112.1	94.7	88.3	209.3	130.8	69.3	87.5	85.5	95.3	84.4
22	CMH 08-282	164.0	89.4	164.0	100.3	129.4	124.7	113.3	178.0	138.7	106.3	121.5	111.4	111.3	112.6
23	Laxmi Gold	129.0	90.5	145.0	103.3	116.9	109.3	83.3	199.3	130.7	93.7	97.5	97.7	82.7	92.9
24	JH-11662(1R) 2009	141.3	98.5	165.0	80.7	121.4	112.0	120.0	199.0	143.7	89.0	127.5	110.6	87.9	103.7
25	JH-12114 (2R)	127.0	94.5	139.0	108.7	117.3	105.7	100.0	212.3	139.3	88.0	87.3	80.5	70.7	81.6
26	JH-11858 (2R) 2009	158.0	95.1	165.7	106.3	131.3	108.0	108.3	173.0	129.8	92.3	82.5	95.9	87.7	89.6
27	BIO-265	141.7	80.7	140.0	101.3	115.9	110.3	123.3	168.3	134.0	96.7	96.5	100.1	79.1	93.1
28	OM 7878	128.3	85.4	130.0	85.6	107.3	110.7	100.0	204.7	138.4	71.3	95.0	89.2	88.3	86.0
29	Amar 6669	127.3	91.1	137.0	99.8	113.8	98.3	90.0	212.0	133.4	74.7	82.3	96.7	83.7	84.3
30	KF-105	101.0	78.5	125.0	92.7	99.3	85.7	73.3	169.3	109.4	89.0	80.3	87.9	77.1	83.5
31	MCH 40	157.0	80.2	162.7	104.6	126.1	102.0	103.3	119.3	108.2	74.7	97.5	102.1	84.3	89.7
CHECKS															
32	PMH 1	120.0	102.2	161.0	104.5	121.9	132.7	103.3	188.7	141.6	105.3	115.5	124.9	95.7	110.4
33	PMH 3	138.3	99.5	180.7	104.5	130.7	134.0	115.0	220.7	156.6	98.0	130.0	117.4	98.0	110.9
34	Seedtec 2324	121.7	103.2	164.0	93.4	120.6	116.7	110.0	189.0	138.6	86.3	121.5	92.9	94.2	98.7
35	BIO 9681	99.7	74.8	111.0	81.5	91.7	81.0	83.3	176.7	113.7	87.0	74.3	84.6	60.9	76.7
	Loc. Mean	131.4	86.3	144.7	95.3	114.4	107.3	97.9	188.8	131.3	87.6	101.1	97.0	86.2	93.0
	C.D. (5%)	20.17	3.93	8.44	23.75	15.51	13.86	17.78	12.57	23.00	21.91	6.03	16.95	18.46	12.07
	C.V. (%)	9.42	2.80	3.58	15.29	9.66	7.92	11.15	4.08	10.75	15.35	3.66	10.73	13.14	9.16
	F (Prob.)	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.01	0.14	0.00	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	EAR HEIGHT(cm)					ZN 4					ZN 5	OV'L	
	ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	
1	DMRNSCH2	80.0	61.7	93.3	96.3	104.5	87.2	106.7	90.6	82.0	126.7	101.5	103.7
2	Bisco-74	81.5	63.3	70.0	91.3	103.1	81.9	103.3	86.4	81.7	118.3	97.4	103.6
3	X8B562	72.5	60.0	91.7	88.7	114.8	85.5	110.0	100.9	84.0	128.3	105.8	108.4
4	KMH-3670	75.0	63.3	93.3	101.0	104.3	87.4	101.7	104.8	76.0	125.0	101.9	104.0
5	KMH-548	72.0	65.0	73.3	93.0	96.3	79.9	101.7	95.5	81.3	110.0	97.1	97.6
6	JKMH 7005	74.5	68.3	96.7	91.0	106.8	87.5	102.7	96.2	65.7	120.0	96.1	104.7
7	JKMH 8033	75.5	53.3	81.7	82.3	98.3	78.2	100.0	96.4	76.0	105.0	94.3	91.8
8	PRO 378	76.0	50.0	73.3	94.7	100.0	78.8	100.0	95.5	72.0	113.3	95.2	96.2
9	NK 6246	83.0	68.3	78.3	88.7	92.5	82.2	98.3	98.1	71.3	115.0	95.7	96.7
10	NK 6267/NH 6267	73.5	70.0	85.0	90.0	117.3	87.2	136.7	113.1	89.7	133.3	118.2	115.1
11	NMH-731	85.0	68.3	88.3	92.7	103.5	87.6	105.0	108.6	83.0	115.0	102.9	100.2
12	NMH-958	78.0	60.0	83.3	96.3	104.1	84.3	113.3	93.0	81.7	121.7	102.4	103.0
13	NMH-920	78.0	68.3	83.3	86.3	113.3	85.9	110.0	98.1	72.0	110.0	97.5	97.0
14	IDX 2901	81.5	65.0	75.0	94.0	103.8	83.9	101.7	94.5	76.3	126.7	99.8	104.5
15	C1945	77.5	65.0	66.7	105.7	95.4	82.0	115.0	86.3	76.0	120.0	99.3	101.7
16	KH-404	79.0	55.0	75.0	95.7	104.8	81.9	110.0	78.7	74.3	121.7	96.2	99.0
17	MAIZE POLO	76.0	53.3	68.3	96.7	100.7	79.0	105.0	104.3	77.7	121.7	102.2	99.2
18	BMH-107	76.5	58.3	96.7	93.7	96.8	84.4	98.3	83.1	73.0	103.3	89.4	94.3
19	BMH-109	78.5	61.7	73.3	92.3	102.2	81.6	101.7	80.3	82.0	100.0	91.0	95.0
20	CMH 08-156	78.0	61.7	86.7	95.3	127.3	89.8	133.3	111.8	95.7	141.7	120.6	117.0
21	CMH 08-154	78.0	65.0	96.7	98.7	103.8	88.4	108.3	96.6	78.3	113.3	99.1	100.9
22	CMH 08-282	82.0	85.0	91.7	90.0	120.2	93.8	118.3	97.1	87.0	128.3	107.7	114.2
23	Laxmi Gold	75.0	68.3	83.3	101.7	105.0	86.7	115.0	104.1	91.3	138.3	112.2	105.7
24	JH-11662(1R) 2009	80.5	66.7	93.3	108.3	112.3	92.2	103.3	107.5	81.3	133.3	106.4	110.9
25	JH-12114 (2R)	83.5	68.3	83.3	90.7	98.9	85.0	108.3	94.9	77.7	106.7	96.9	101.3
26	JH-11858 (2R) 2009	81.5	63.3	91.7	94.0	109.6	88.0	105.0	100.7	84.3	126.7	104.2	106.5
27	BIO-265	68.5	58.3	80.0	92.3	116.1	83.0	121.7	112.2	81.7	111.7	106.8	104.0
28	OM 7878	64.5	58.3	75.0	87.7	111.1	79.3	105.0	114.6	78.7	130.0	107.1	100.7
29	Amar 6669	77.5	60.0	78.3	88.7	109.4	82.8	101.7	103.0	83.7	116.7	101.3	100.6
30	KF-105	73.0	48.3	66.7	98.0	96.6	76.5	101.7	83.9	65.7	106.7	89.5	90.0
31	MCH 40	81.0	53.3	83.3	99.7	115.5	86.6	106.7	85.7	76.7	125.0	98.5	100.7
	CHECKS												
32	PMH 1	76.0	68.3	96.7	89.0	114.6	88.9	121.7	113.9	80.3	133.3	112.3	112.4
33	PMH 3	77.0	68.3	91.7	99.7	107.5	88.8	133.3	110.5	97.0	138.3	119.8	118.0
34	Seedtec 2324	80.5	63.3	86.7	99.3	105.2	87.0	120.0	98.7	78.0	113.3	102.5	106.9
35	BIO 9681	75.0	60.0	73.3	89.7	92.1	78.0	91.7	91.2	59.3	88.3	82.6	86.8
	Loc. Mean	77.3	62.7	83.0	94.1	105.9	84.6	109.0	98.0	79.2	119.6	101.5	102.6
	C.D. (5%)	6.07	7.80	17.29	16.61	4.03	7.97	20.16	18.80	17.96	10.82	9.28	6.06
	C.V. (%)	4.82	7.63	12.79	10.84	2.33	7.53	11.35	11.77	13.92	5.55	6.52	9.51
	F (Prob.)	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.08	0.00	0.00	0.00

Table No. 5 (Continued)

Sl No	GRAIN SHELLING %														
	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	VARA	RANC	AMBI	ZN 3 Mean	
1	DMRNSCH2	79.2	71.7	81.5	76.1	77.1	82.7	68.0	75.5	75.4	80.1	82.5	85.2	80.1	82.0
2	Bisco-74	84.9	81.8	84.5	79.0	82.6	85.3	75.0	75.0	78.4	80.0	75.0	86.3	83.8	81.2
3	X8B562	84.8	86.0	87.5	75.8	83.5	86.4	75.0	77.5	79.6	83.0	75.0	87.4	82.6	82.0
4	KMH-3670	83.7	87.8	86.5	71.4	82.3	85.3	80.0	75.0	80.1	76.1	80.0	87.0	82.4	81.4
5	KMH-548	80.5	85.4	84.5	76.8	81.8	85.4	80.0	77.0	80.8	83.5	78.5	85.3	80.6	82.0
6	JKMH 7005	86.2	83.1	86.0	72.7	82.0	87.3	71.0	75.0	77.8	81.0	78.5	85.7	79.7	81.2
7	JKMH 8033	88.2	79.5	85.5	76.9	82.5	88.3	74.0	75.5	79.3	85.2	81.0	90.5	82.9	84.9
8	PRO 378	82.7	87.0	87.5	75.7	83.2	87.9	55.0	77.0	73.3	80.4	83.0	88.3	83.2	83.7
9	NK 6246	89.2	87.8	88.0	74.5	84.9	84.4	81.0	76.5	80.6	81.6	77.5	88.5	83.2	82.7
10	NK 6267/NH 6267	82.7	79.9	84.0	72.7	79.8	85.3	83.0	73.5	80.6	81.4	76.0	85.5	85.2	82.0
11	NMH-731	85.8	84.3	85.5	73.9	82.4	88.1	80.0	74.0	80.7	84.6	78.0	88.0	86.1	84.1
12	NMH-958	85.2	84.1	85.0	79.3	83.4	84.8	80.0	77.5	80.8	81.8	77.5	88.0	82.6	82.5
13	NMH-920	82.9	78.8	87.5	71.2	80.1	83.5	80.0	76.3	79.9	82.2	75.5	84.9	81.2	81.0
14	IDX 2901	79.6	81.8	85.5	75.4	80.6	79.8	72.0	76.5	76.1	82.9	74.0	82.1	78.1	79.3
15	C1945	82.2	75.5	84.5	72.9	78.8	85.0	74.0	78.0	79.0	79.9	76.0	84.3	80.7	80.2
16	KH-404	85.4	77.9	86.5	75.3	81.3	87.4	73.0	75.0	78.5	84.1	76.0	86.7	81.0	81.9
17	MAIZE POLO	82.9	77.5	83.0	77.6	80.3	86.8	76.0	75.5	79.4	82.5	76.0	86.6	83.8	82.2
18	BMH-107	85.2	72.6	84.5	76.7	79.7	87.6	80.0	75.0	80.9	83.4	78.0	86.8	80.6	82.2
19	BMH-109	82.1	70.8	81.5	76.4	77.7	83.6	77.0	77.0	79.2	81.0	78.0	85.5	79.5	81.0
20	CMH 08-156	83.4	83.8	84.0	74.4	81.4	83.7	83.0	78.0	81.6	79.4	77.0	85.0	80.9	80.6
21	CMH 08-154	85.0	83.5	88.0	78.8	83.8	86.7	70.0	77.0	77.9	84.1	82.0	87.2	83.2	84.1
22	CMH 08-282	85.5	83.4	88.5	76.0	83.4	84.6	76.0	77.0	79.2	82.6	80.0	86.2	83.5	83.1
23	Laxmi Gold	83.1	75.7	86.5	74.6	80.0	81.6	72.0	75.5	76.4	78.9	74.0	82.7	81.3	79.2
24	JH-11662(1R) 2009	82.0	84.2	86.5	74.2	81.7	85.7	68.0	75.0	76.2	75.6	74.0	87.0	81.4	79.5
25	JH-12114 (2R)	88.9	84.5	85.0	81.3	84.9	86.8	74.0	76.0	78.9	81.0	77.5	87.3	82.8	82.1
26	JH-11858 (2R) 2009	80.1	75.6	86.0	69.0	77.7	83.9	70.0	74.5	76.1	75.4	72.5	85.5	82.3	78.9
27	BIO-265	86.2	87.7	83.5	72.1	82.4	84.1	76.0	76.5	78.9	82.3	80.0	86.8	81.9	82.7
28	OM 7878	83.3	82.3	86.5	74.5	81.6	84.8	82.0	77.5	81.4	77.8	78.0	86.6	83.4	81.5
29	Amar 6669	83.3	82.7	87.0	75.3	82.1	84.9	72.0	76.0	77.6	77.6	75.0	85.6	81.3	79.9
30	KF-105	78.4	81.6	83.5	75.6	79.8	81.2	83.0	75.5	79.9	77.9	75.0	81.9	80.9	78.9
31	MCH 40	80.0	82.4	88.0	75.7	81.5	87.5	78.0	78.0	81.2	80.8	77.5	87.5	81.5	81.8
CHECKS															
32	PMH 1	85.2	81.8	84.0	75.8	81.7	84.5	80.0	78.0	80.8	79.8	77.0	84.4	82.7	81.0
33	PMH 3	80.7	83.2	88.0	76.2	82.0	85.8	72.0	78.0	78.6	81.6	81.0	87.2	83.3	83.3
34	Seedtec 2324	85.4	85.3	82.5	71.7	81.2	81.0	74.0	75.5	76.8	78.5	81.5	86.7	80.5	81.8
35	BIO 9681	84.9	80.0	88.0	76.7	82.4	83.7	75.0	73.0	77.2	79.6	78.0	84.2	79.0	80.2
	Loc. Mean	83.7	81.5	85.6	75.2	81.5	85.0	75.4	76.1	78.8	80.8	77.6	86.1	81.9	81.6
	C.D. (5%)	-	1.82	2.29	3.55	3.90	1.54	-	0.95	5.89	1.12	-	1.15	4.24	2.59
	C.V. (%)	-	1.37	1.64	2.90	3.41	1.11	-	0.77	4.59	0.85	-	0.82	3.18	2.26
	F (Prob.)	-	0.00	0.00	0.00	0.01	0.00	-	0.00	0.64	0.00	-	0.00	0.19	0.00

Table No. 5 (Continued)

Sl No	GRAIN SHELLING %												ZN 5 Mean	OV'L Mean	
	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	JHAB			
1	DMRNSCH2	78.1	61.6	81.6	87.1	83.3	79.4	78.5	81.2	72.4	81.1	79.5	85.3	79.9	78.8
2	Bisco-74	79.9	70.6	86.1	82.4	82.4	79.1	80.1	82.3	69.7	81.8	78.8	85.3	79.6	80.4
3	X8B562	81.2	63.5	85.4	84.9	83.2	79.1	79.6	84.0	70.3	80.0	79.8	86.4	80.1	80.8
4	KMH-3670	77.9	65.8	85.1	84.7	84.3	79.2	79.5	80.8	69.1	79.8	79.0	84.2	78.6	80.2
5	KMH-548	78.3	67.4	88.3	83.5	69.8	79.8	77.8	77.2	70.5	82.1	80.8	79.7	78.0	79.8
6	JKMH 7005	83.6	69.9	82.4	82.0	83.2	78.5	79.9	81.4	70.6	79.3	81.0	81.7	78.8	80.0
7	JKMH 8033	81.2	67.3	85.3	83.3	83.9	84.3	80.9	86.4	70.9	78.0	85.9	83.3	80.9	81.7
8	PRO 378	83.6	82.7	86.4	83.5	78.6	77.9	82.1	84.1	70.0	75.1	83.8	83.3	79.2	80.7
9	NK 6246	80.5	69.5	87.5	84.3	81.5	81.7	80.8	86.0	72.4	80.6	81.5	82.6	80.6	81.8
10	NK 6267/NH 6267	-	63.5	85.7	85.2	83.2	75.8	78.7	84.0	72.8	83.3	77.0	81.5	79.7	80.0
11	NMH-731	84.1	69.4	86.5	86.2	81.7	81.6	81.6	85.3	69.4	79.7	82.5	83.6	80.1	81.7
12	NMH-958	83.0	67.5	84.6	85.9	84.6	78.3	80.6	77.3	70.8	82.3	81.5	80.4	78.4	81.0
13	NMH-920	78.1	75.1	82.0	85.2	80.0	77.1	79.6	81.6	71.4	75.6	78.1	81.7	77.7	79.5
14	IDX 2901	76.6	69.4	81.6	83.4	81.5	75.3	78.0	82.0	70.0	74.5	77.4	83.9	77.6	78.3
15	C1945	78.9	65.6	83.1	81.6	86.6	78.7	79.1	79.9	69.9	85.6	80.7	85.1	80.2	79.5
16	KH-404	81.3	66.0	85.7	84.3	80.0	80.4	79.6	83.9	70.8	77.1	81.6	84.0	79.5	80.1
17	MAIZE POLO	-	63.6	83.0	82.7	80.0	80.9	78.0	82.1	72.8	80.8	81.7	83.5	80.2	80.0
18	BMH-107	87.8	64.4	85.4	85.1	80.3	83.1	81.0	85.1	70.4	82.9	87.2	82.7	81.7	81.1
19	BMH-109	78.4	74.2	83.5	83.1	80.2	79.1	79.7	80.1	68.4	82.1	81.1	81.6	78.7	79.3
20	CMH 08-156	81.1	68.2	84.3	84.3	82.8	79.7	80.1	81.8	69.4	77.0	79.2	79.3	77.3	80.0
21	CMH 08-154	82.2	72.9	85.1	85.3	84.3	82.1	82.0	84.9	71.1	74.5	79.8	85.2	79.1	81.5
22	CMH 08-282	46.5	77.8	84.8	83.5	81.0	78.9	75.4	83.0	71.1	79.6	80.4	84.0	79.6	79.7
23	Laxmi Gold	74.5	71.6	81.1	84.4	82.9	76.6	78.5	82.4	69.1	65.7	77.8	85.1	76.0	78.0
24	JH-11662(1R) 2009	78.3	68.1	86.3	82.3	81.4	75.5	78.6	76.5	69.2	78.0	77.7	82.3	76.7	78.6
25	JH-12114 (2R)	82.0	71.8	86.3	87.2	84.6	82.4	82.4	79.6	68.2	80.2	84.5	82.7	79.0	81.6
26	JH-11858 (2R) 2009	77.0	71.5	83.2	81.1	81.9	75.0	78.3	81.1	67.7	74.3	77.3	78.2	75.7	77.4
27	BIO-265	80.4	67.2	84.9	85.1	80.8	79.8	79.7	78.1	69.3	82.1	81.9	84.2	79.1	80.5
28	OM 7878	75.6	64.1	84.7	86.1	79.8	77.8	78.0	82.1	70.3	77.4	79.2	82.6	78.3	79.8
29	Amar 6669	81.0	65.8	82.6	85.9	78.2	79.0	78.7	83.0	69.1	82.7	81.4	82.3	79.7	79.6
30	KF-105	66.5	58.0	81.7	78.0	80.0	77.1	73.5	83.0	68.3	77.0	82.7	83.7	78.9	77.7
31	MCH 40	82.3	69.1	85.7	82.6	80.0	78.6	79.7	83.3	71.0	81.5	77.2	84.2	79.4	80.5
CHECKS															
32	PMH 1	80.3	66.1	84.6	88.0	81.6	76.3	79.5	82.1	69.8	78.1	81.7	82.3	78.8	80.2
33	PMH 3	81.9	68.1	86.5	84.1	83.7	80.3	80.8	81.8	68.6	83.5	82.9	85.7	80.5	81.1
34	Seedtec 2324	-	78.5	82.3	83.4	81.7	73.6	79.9	82.0	69.8	76.6	80.6	85.7	78.9	79.8
35	BIO 9681	74.4	67.2	83.6	84.5	74.9	78.4	77.2	82.7	69.3	80.1	78.8	84.0	79.0	79.1
	Loc. Mean	71.9	68.6	84.5	84.1	81.3	78.9	79.3	82.0	70.1	79.1	80.6	83.2	79.0	80.0
	C.D. (5%)	1.58	8.58	2.69	3.48	3.82	1.60	4.31	0.56	2.20	4.30	3.63	4.27	2.95	1.77
	C.V. (%)	1.35	7.68	1.96	2.54	2.89	1.25	4.77	0.42	1.92	3.33	2.76	3.15	2.99	1.75
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.05	0.05	0.00

Table No. 5 (Continued)

Sl No	STAND AT HARVEST ('000/ha)															
	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	VARA	RANC	AMBI	ZN 3 Mean	
1	DMRNSCH2	70.8	36.8	52.1	50.7	52.6	41.1	63.7	128.9	77.9	63.5	51.1	74.3	60.7	46.7	59.3
2	Bisco-74	70.4	43.8	65.6	50.0	57.4	50.6	61.0	126.1	79.2	61.5	54.2	76.0	62.5	43.6	59.6
3	X8B562	72.7	37.5	54.9	54.2	54.8	48.6	66.1	130.0	81.6	65.6	52.5	78.1	68.5	48.3	62.6
4	KMH-3670	69.0	38.9	65.6	39.2	53.2	28.3	64.3	127.8	73.5	66.7	51.1	69.1	63.7	33.6	56.8
5	KMH-548	69.9	46.5	60.1	45.8	55.6	53.6	66.7	127.8	82.7	67.4	55.8	78.5	74.4	50.3	65.3
6	JKMH 7005	70.8	52.1	62.2	43.4	57.1	38.3	64.9	127.8	77.0	65.3	56.1	75.3	57.7	48.3	60.6
7	JKMH 8033	66.7	41.7	56.3	42.4	51.7	41.9	61.3	124.4	75.9	64.2	51.4	71.5	69.0	43.6	60.0
8	PRO 378	70.4	52.1	62.2	53.8	59.6	43.1	67.0	129.4	79.8	64.9	51.9	71.5	66.1	37.8	58.5
9	NK 6246	66.2	47.9	65.6	53.8	58.4	49.2	65.2	127.8	80.7	59.7	51.9	72.6	60.7	45.8	58.2
10	NK 6267/NH 6267	69.9	50.0	61.5	45.1	56.6	44.2	70.5	124.4	79.7	67.4	55.3	75.7	67.3	48.1	62.7
11	NMH-731	69.0	48.6	66.7	51.4	58.9	44.4	60.7	124.4	76.5	66.7	55.6	74.7	65.5	51.7	62.8
12	NMH-958	75.0	45.1	61.1	50.3	57.9	43.1	62.8	128.9	78.2	69.1	54.4	74.0	60.1	41.7	59.9
13	NMH-920	68.1	47.9	57.3	53.1	56.6	37.2	61.6	126.7	75.2	66.3	53.1	70.8	61.3	37.8	57.9
14	IDX 2901	64.8	47.9	64.6	48.3	56.4	48.3	60.1	125.6	78.0	66.0	53.1	74.7	65.5	45.3	60.9
15	C1945	67.1	50.7	62.2	52.8	58.2	46.4	62.8	128.9	79.4	66.0	51.7	75.7	65.5	36.4	59.0
16	KH-404	65.3	48.6	66.7	47.9	57.1	38.3	56.8	123.3	72.8	60.4	47.5	70.1	57.1	40.0	55.0
17	MAIZE POLO	66.7	40.3	61.5	47.2	53.9	42.5	65.2	127.2	78.3	67.7	54.7	76.4	63.7	43.9	61.3
18	BMH-107	60.2	26.4	69.4	47.2	50.8	37.2	62.2	126.1	75.2	57.6	51.9	70.1	60.7	36.7	55.4
19	BMH-109	68.1	45.1	63.2	50.0	56.6	34.7	62.2	129.4	75.5	61.5	51.9	72.6	64.9	44.4	59.1
20	CMH 08-156	74.1	66.7	59.4	48.3	62.1	51.7	61.9	126.1	79.9	64.6	52.5	77.1	64.3	45.8	60.9
21	CMH 08-154	70.4	51.4	67.7	44.8	58.6	39.4	58.6	128.9	75.7	62.8	47.5	71.9	64.9	40.3	57.5
22	CMH 08-282	73.1	66.0	63.5	52.8	63.9	39.4	58.6	128.3	75.5	67.0	52.2	76.0	67.3	41.1	60.7
23	Laxmi Gold	60.2	66.7	62.5	39.6	57.2	46.7	60.7	127.8	78.4	58.7	51.7	69.1	56.0	45.6	56.2
24	JH-11662(1R) 2009	63.0	64.6	65.3	52.1	61.2	22.8	50.6	126.1	66.5	34.0	31.4	55.6	58.9	35.8	43.1
25	JH-12114 (2R)	68.1	65.3	71.9	48.3	63.4	52.5	63.1	127.8	81.1	66.0	51.9	76.4	66.7	47.5	61.7
26	JH-11858 (2R) 2009	66.2	58.3	65.6	53.1	60.8	41.4	58.3	125.6	75.1	66.7	48.1	74.7	70.2	42.2	60.4
27	BIO-265	70.4	72.9	70.5	49.7	65.9	50.0	64.0	123.3	79.1	58.7	52.5	76.7	70.8	47.5	61.3
28	OM 7878	69.0	68.1	51.7	48.6	59.3	41.4	59.8	128.9	76.7	59.7	53.1	75.7	63.1	41.4	58.6
29	Amar 6669	71.8	63.2	62.5	50.3	62.0	38.9	61.9	127.2	76.0	65.3	56.1	69.8	63.7	45.8	60.1
30	KF-105	75.5	52.1	57.3	45.8	57.7	29.7	65.5	127.8	74.3	64.6	55.3	72.6	65.5	49.4	61.5
31	MCH 40	70.4	72.9	61.1	52.8	64.3	59.7	66.1	130.0	85.3	64.9	55.8	74.0	76.2	50.0	64.2
CHECKS																
32	PMH 1	69.4	65.3	62.5	48.3	61.4	45.3	63.1	128.9	79.1	62.8	54.4	69.8	72.0	41.1	60.0
33	PMH 3	72.2	66.7	53.1	51.4	60.9	48.9	67.0	130.0	82.0	61.8	54.7	75.0	69.6	48.1	61.8
34	Seedtec 2324	62.0	66.0	60.4	40.6	57.3	43.9	67.6	128.3	79.9	68.8	54.2	69.4	69.0	46.9	61.7
35	BIO 9681	68.5	68.1	66.7	46.9	62.5	42.2	64.3	125.0	77.2	64.9	52.2	73.3	67.3	42.5	60.0
	Loc. Mean	68.7	53.8	62.3	48.6	58.3	43.0	62.7	127.3	77.7	63.4	52.3	73.1	65.2	43.9	59.6
	C.D. (5%)	4.93	4.39	6.49	8.06	9.68	15.64	8.34	3.72	7.08	4.90	4.80	7.47	8.48	9.25	4.27
	C.V. (%)	4.41	5.01	6.40	10.19	11.83	22.33	8.15	1.79	5.59	4.75	5.64	6.27	7.99	12.91	176.73
	F (Prob.)	0.00	0.00	0.00	0.01	0.35	0.02	0.07	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.00

Table No. 5 (Continued)

Sl No	STAND AT HARVEST ('000/ha)												ZN 5 Mean	OV'L Mean	
	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	JHAB			
1	DMRNSCH2	56.1	65.8	60.0	66.7	57.1	66.7	62.1	82.6	64.6	72.2	65.0	60.8	69.0	63.4
2	Bisco-74	58.9	58.3	61.7	64.7	58.3	66.3	61.4	75.7	66.7	74.7	65.6	66.0	69.7	64.4
3	X8B562	50.8	56.9	60.8	65.3	61.6	66.3	60.3	81.9	61.8	81.6	64.7	70.5	72.1	65.2
4	KMH-3670	51.7	56.7	58.9	64.2	59.5	66.0	59.5	77.8	62.5	68.1	63.9	60.8	66.6	61.2
5	KMH-548	51.1	60.3	58.3	66.7	58.6	66.7	60.3	77.1	69.1	83.3	64.7	69.1	72.7	66.2
6	JKMH 7005	53.3	57.2	58.3	66.7	59.2	66.0	60.1	78.5	64.9	77.4	66.1	56.6	68.7	63.8
7	JKMH 8033	53.9	64.4	62.5	65.6	59.2	66.7	62.0	84.4	69.1	73.3	66.4	61.5	70.9	63.5
8	PRO 378	53.1	61.1	59.7	63.3	60.7	66.3	60.7	78.1	65.6	75.7	63.9	55.9	67.8	64.1
9	NK 6246	51.9	63.6	59.2	62.2	61.0	66.3	60.7	83.0	67.4	74.0	65.6	53.5	68.7	64.1
10	NK 6267/NH 6267	51.9	69.4	62.5	64.7	60.7	66.0	62.5	81.9	64.6	76.0	65.0	60.1	69.5	65.3
11	NMH-731	58.1	64.7	60.3	65.0	59.2	66.3	62.3	79.5	70.5	81.3	66.7	69.1	73.4	66.1
12	NMH-958	60.3	61.7	59.4	65.6	60.4	66.3	62.3	76.4	62.8	80.9	66.4	67.4	70.8	64.9
13	NMH-920	49.4	59.2	58.9	62.2	62.2	66.3	59.7	81.3	62.8	81.3	64.2	67.0	71.3	63.3
14	IDX 2901	65.6	55.8	61.1	63.9	57.7	66.7	61.8	79.2	68.8	75.3	66.4	63.9	70.7	64.7
15	C1945	49.7	63.9	58.3	65.8	59.8	66.0	60.6	81.3	62.5	72.9	65.0	67.0	69.7	64.3
16	KH-404	50.3	60.0	60.6	63.9	59.8	66.0	60.1	80.9	62.2	71.5	64.2	69.1	69.6	62.2
17	MAIZE POLO	57.8	58.6	61.4	63.1	63.7	66.0	61.7	79.5	67.0	76.4	65.6	67.0	71.1	64.5
18	BMH-107	50.6	58.1	60.0	58.9	58.3	65.3	58.5	76.7	65.6	68.1	61.7	68.4	68.1	60.8
19	BMH-109	56.1	54.7	61.1	64.7	61.6	65.3	60.6	79.9	67.7	78.5	63.9	67.0	71.4	63.9
20	CMH 08-156	56.1	56.4	60.6	65.8	64.6	66.0	61.6	82.6	63.9	75.7	65.8	61.5	69.9	65.7
21	CMH 08-154	57.2	61.7	59.7	63.6	58.0	65.3	60.9	81.9	66.3	68.8	63.9	67.0	69.6	63.6
22	CMH 08-282	60.8	60.6	60.8	66.7	59.5	65.6	62.3	78.5	68.8	70.8	64.7	65.6	69.7	65.6
23	Laxmi Gold	54.4	65.3	62.2	61.7	62.5	65.3	61.9	76.4	61.1	74.3	65.3	61.8	67.8	63.3
24	JH-11662(1R) 2009	36.1	63.3	60.3	59.2	63.1	64.6	57.8	79.5	63.9	39.9	38.9	60.1	56.5	56.0
25	JH-12114 (2R)	51.4	55.3	61.4	65.8	65.2	65.3	60.7	83.7	61.1	80.6	66.7	64.9	71.4	66.4
26	JH-11858 (2R) 2009	59.7	59.4	61.9	61.4	61.6	65.3	61.6	77.1	62.5	53.8	65.6	64.6	64.7	63.6
27	BIO-265	55.6	56.1	60.8	63.9	59.5	66.0	60.3	77.1	65.3	74.3	62.8	66.0	69.1	65.8
28	OM 7878	51.1	54.7	56.9	59.2	60.1	66.3	58.1	75.3	67.7	79.9	66.1	68.1	71.4	63.7
29	Amar 6669	53.6	47.2	58.6	63.3	58.0	66.3	57.9	80.9	65.6	77.4	65.3	69.4	71.7	64.4
30	KF-105	51.9	53.6	62.2	66.7	59.2	66.0	59.9	81.6	66.7	79.2	66.4	69.1	72.6	64.5
31	MCH 40	53.1	62.5	61.9	65.6	59.2	66.3	61.4	80.9	69.8	80.9	66.4	63.2	72.2	68.0
32	PMH 1	51.4	56.7	62.2	66.7	58.3	66.3	60.3	78.5	66.3	77.8	62.5	56.3	68.3	64.6
33	PMH 3	58.3	59.2	60.3	66.7	62.8	66.3	62.3	78.8	66.0	78.5	65.3	63.2	70.3	66.3
34	Seedtec 2324	60.3	62.8	60.8	63.9	57.1	63.9	61.5	79.9	66.7	83.0	61.4	61.1	70.4	65.1
35	BIO 9681	50.8	57.2	60.6	64.7	58.9	64.9	59.5	79.9	67.4	68.1	64.4	56.9	67.3	64.2
	Loc. Mean	54.1	59.5	60.4	64.2	60.2	65.9	60.7	79.7	65.6	74.4	64.2	64.0	69.6	64.2
	C.D. (5%)	10.80	9.40	4.04	6.07	3.69	1.36	3.40	3.90	6.35	7.44	3.19	7.53	5.58	2.66
	C.V. (%)	12.26	9.70	4.10	5.81	3.77	1.26	4.91	3.01	5.94	6.13	3.05	7.23	6.41	17.76
	F (Prob.)	0.03	0.04	0.57	0.44	0.00	0.03	0.27	0.00	0.17	0.00	0.00	0.00	0.00	0.00

TABLE No. 6

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI, KANGRA, UDHAMPUR, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, BHUBANESHWAR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN AET 1st YEAR, TRIAL No. TR66 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		BAJA		BARA		KANG		UDHA		ZN 1 MEAN		DELH		KARN		LUDH		PANT		KANP		ZN 2 MEAN	
1	KDMH 017	9772	5	5992	4	10288	1	2212	11	7066	3	7207	2	8280	3	9235	8	9977	2	5325	7	7861	2
2	X8B557	11051	2	7158	2	8070	11	3092	1	7343	2	6256	9	8618	2	9663	5	9766	3	4839	14	7741	3
3	X8B691	9797	4	5052	6	9475	4	2542	4	6717	5	6585	5	9523	1	9581	6	10128	1	5451	5	8367	1
4	KMH-218 Plus	9347	7	4654	8	8746	8	2160	13	6227	8	5659	10	6793	12	9569	7	6981	11	5280	8	6351	11
5	KMH-3426	7828	13	3489	12	6689	14	2351	6	5089	13	7203	3	7872	7	7807	12	5816	13	5404	6	6364	10
6	JH 31292	8870	9	3821	10	8994	6	2449	5	6033	9	6889	4	6820	11	10174	3	8815	5	4978	13	6871	8
7	JH 31285 (1R)	8454	10	4631	9	8315	10	2576	3	5994	11	6527	6	6122	14	8185	11	7347	10	5134	12	6201	13
8	NMH-803	8134	11	5883	5	9857	3	2634	2	6627	6	5501	11	7205	8	8878	9	8422	6	5533	3	7053	6
9	Mukhya-108	11768	1	3750	11	8626	9	2314	7	6615	7	7468	1	7960	5	10346	2	7786	9	5660	1	7135	5
10	Sarpunch-171	10714	3	7499	1	9871	2	2307	8	7598	1	6322	7	7932	6	10365	1	8262	7	5541	2	7245	4
11	HKH-313	3865	15	3307	14	7469	13	2233	10	4218	15	5320	14	5759	15	1121	15	5776	14	5215	9	5583	15
12	VEH-09-2	8056	12	2855	15	9055	5	2260	9	5557	12	5465	12	8133	4	4310	14	6123	12	4500	15	6252	12
13	MCH 42	9307	8	4949	7	7946	12	1840	15	6011	10	5324	13	6547	13	9682	4	8837	4	5466	4	6950	7
14	Navjot	6413	14	3442	13	5447	15	2055	14	4339	14	4905	15	7097	9	5238	13	5389	15	5215	10	5901	14
15	BIO 9637	9590	6	6503	3	8756	7	2202	12	6763	4	6261	8	7073	10	8694	10	7797	8	5137	11	6669	9
	Location Mean	8864		4866		8507		2348		6146		6193		7449		8190		7815		5245		6836	
	Mean Stand	62		44		60		32		49		57		71		72		52		76		66	
	C.D. (5%)	1285		589		1225		372		868		2811		539		2868		2528		442		1170	
	C.V. (%)	8.66		7.23		8.6		9.46		-		27.09		4.32		20.9		19.31		5.03		-	
	F (Prob)	0		0		0.001		0.024		0		0		0		0		0		0		-	
	Plot Size	8.4		9.6		9.6		9.6		-		12		11.2		10.92		12		12		-	
	AGRONOMY DATA																						
	Sowing Date	24-06		15-06		11-06		30-06		-		-		26-06		24-06		16-06		14-07		-	
	Harvest Date	9-11		5-10		9-10		10-10		-		-		27-09		1-10		28-09		30-11		-	
	Irrigation Nos	3		-		-		-		-		-		4		3		-		-		-	
	Fertilizer Applied N	120		80		120		80		-		150		150		90		120		120		-	
	Fertilizer Applied P	60		60		60		60		-		75		60		30		60		60		-	
	Fertilizer Applied K	40		40		40		40		-		75		60		-		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DELH 27.1 %: LUDH 20.9 %: ARBH 22.2 %

TABLE No. 6 (Cont..)

Sl No		GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3									
		BAHR		DHOL		BHUB		VARA		RANC		AMBI		MEAN		ARBH		HYDE		KARI	
1	KDMH 017	9123	2	6278	5	6033	1	6973	8	7877	13	6002	5	7048	6	6678	13	9896	3	8345	3
2	X8B557	8997	4	7472	1	5090	10	6444	11	9208	3	5701	9	7152	4	7548	11	9855	4	5435	15
3	X8B691	9315	1	5638	9	4652	12	6719	10	8533	9	5335	12	6699	9	10330	2	8716	11	6445	12
4	KMH-218 Plus	8861	5	6218	7	5370	7	7273	7	9467	1	5761	8	7158	3	5613	15	8267	12	8115	5
5	KMH-3426	7555	11	6243	6	5370	6	7646	6	8650	7	6507	3	6995	7	9341	3	9276	9	7057	10
6	JH 31292	8767	6	6501	3	6013	2	7660	5	8729	6	6001	6	7278	2	6451	14	8051	14	9257	1
7	JH 31285 (1R)	9007	3	4122	13	4469	13	6834	9	8379	10	5644	10	6409	12	8850	5	8105	13	7660	7
8	NMH-803	8323	9	5197	10	4452	14	7984	2	9235	2	6423	4	6936	8	8886	4	10179	2	5918	14
9	Mukhya-108	8060	10	6839	2	5053	11	7832	4	8900	5	7591	1	7379	1	7757	9	9372	8	6309	13
10	Sarpunch-171	8343	8	5957	8	5521	4	7926	3	7613	14	7170	2	7088	5	7201	12	9437	7	7958	6
11	HKH-313	4958	15	6301	4	5504	5	8590	1	8647	8	4999	15	6500	11	8387	7	6771	15	8134	4
12	VEH-09-2	6219	14	4781	11	5818	3	4996	13	8040	11	5363	11	5869	13	8528	6	9468	6	7112	9
13	MCH 42	8633	7	4766	12	5195	8	6086	12	9069	4	5259	14	6502	10	7873	8	10371	1	8550	2
CHECKS																					
14	Navjot	6239	13	2837	15	4182	15	3334	15	6698	15	5328	13	4770	15	7698	10	9595	5	7250	8
15	BIO 9637	7545	12	3840	14	5120	9	4749	14	7936	12	5801	7	5832	14	11178	1	9236	10	6973	11
	Location Mean	7996		5533		5189		6736		8465		5926		6641		8155		9106		7368	
	Mean Stand	62		56		65		65		65		59		62		60		60		70	
	C.D. (5%)	650		1807		145		1119		1600		1178		1083		3030		1635		972	
	C.V. (%)	4.85		19.5		1.67		9.92		11.28		11.87		-		22.18		10.72		7.87	
	F (Prob)	0		0		0		0		0		0.004		-		0.128		0.001		0	
	Plot Size	9.6		12		9.6		9.6		11.2		12		-		12		12		12	
AGRONOMY DATA																					
	Sowing Date	17-07		22-07		11-07		6-07		2-07		2-07		-		14-07		1-06		16-07	
	Harvest Date	23-10		-		25-10		6-10		12-10		-		-		10-11		25-11		-	
	Irrigation Nos	-		-		-		1		-		-		-		3		-		-	
	Fertilizer Applied N	120		150		120		120		120		120		-		150		180		200	
	Fertilizer Applied P	60		70		60		60		60		60		-		75		60		80	
	Fertilizer Applied K	40		50		60		40		40		40		-		37.5		50		60	

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		KOLH		MAND		COIM		ZN 4		UDAI		BANS		GODH		CHHI		JHAB		ZN 5		OV'L	
1	KDMH 017	8549	8	8810	6	10333	9	9186	4	4280	9	5546	4	4680	11	9779	7	4099	2	5676	7	7324	3
2	X8B557	10116	1	9540	2	10251	12	9039	5	4709	4	5370	8	5305	8	11243	1	5436	1	6413	1	7511	1
3	X8B691	7602	11	9062	4	10442	8	8453	11	4131	12	5969	2	5627	1	10021	5	3817	3	5913	2	7130	4
4	KMH-218 Plus	9019	5	8473	8	10481	7	8871	7	3799	15	5499	5	5594	2	8747	13	3451	5	5418	11	6885	9
5	KMH-3426	7695	10	7371	12	8933	14	8066	14	3920	14	6263	1	5586	3	9930	6	3330	7	5806	3	6556	11
6	JH 31292	7442	13	5562	14	11620	4	8386	12	4017	13	5394	7	5259	9	10637	2	3244	10	5710	6	6909	8
7	JH 31285 (1R)	7781	9	9364	3	10307	10	8644	9	4703	5	5268	10	5390	5	9305	11	3322	8	5598	9	6619	10
8	NMH-803	9437	2	8543	7	10810	6	8977	6	5065	2	5852	3	5428	4	9331	10	3227	11	5781	4	7090	6
9	Mukhya-108	9068	4	8975	5	12512	2	9247	3	4284	8	3813	14	5342	7	8384	14	3309	9	5026	12	7109	5
10	Sarpunch-171	9239	3	8428	9	12597	1	9532	2	4605	7	5470	6	5038	10	10217	4	3382	6	5742	5	7436	2
11	HKH-313	6969	14	-	-	12234	3	8527	10	4652	6	2289	15	4319	13	9443	9	3139	14	4768	14	5935	14
12	VEH-09-2	8903	7	7961	10	10300	11	8749	8	5362	1	4559	11	5372	6	9466	8	3223	12	5596	10	6432	12
13	MCH 42	8975	6	9796	1	10880	5	9714	1	5021	3	5329	9	4418	12	10271	3	3159	13	5639	8	6986	7
	CHECKS																						
14	Navjot	5750	15	5945	13	7048	15	7117	15	4228	11	4436	12	2784	15	5118	15	2873	15	3888	15	5161	15
15	BIO 9637	7483	12	7808	11	8935	13	8087	13	4264	10	4300	13	2923	14	8840	12	3632	4	4792	13	6367	13
	Location Mean	8268		8260		10512		8703		4469		5024		4871		9382		3509		5451		6770	
	Mean Stand	71		67		60		66		74		60		65		71		59		66		62	
	C.D. (5%)	1208		684		1483		1196		227		449		921		1587		553		747		1009	
	C.V. (%)	8.72		4.92		8.42		-		3.03		5.33		11.29		10.1		9.4		-		-	
	F (Prob)	0		0		0		0		0		0		0		0		0		0		0	
	Plot Size	12		11.2		9.6		-		9.6		9.6		9.6		12		9.6		-		-	
	AGRONOMY DATA																						
	Sowing Date	9-07		13-07		6-07		-		3-07		9-07		7-07		29-06		8-07		-		-	
	Harvest Date	4-12		3-12		5-11		-		8-10		23-10		15-10		20-10		15-10		-		-	
	Irrigation Nos	-		6		9		-		-		1		-		-		-		-		-	
	Fertilizer Applied N	120		150		150		-		90		120		100		120		120		-		-	
	Fertilizer Applied P	60		75		75		-		60		40		50		60		60		-		-	
	Fertilizer Applied K	40		40		75		-		-		-		50		40		40		-		-	

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot															
		BAJA	BARA	KANG	UDHA	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	52.4	74.1	88.9	7.7	62.8	46.9	16.7	76.3	85.1	2.1	33.2	46.2	121.3	44.3	109.2	17.6
2	X8B557	72.3	108	48.2	50.5	69.2	27.5	21.4	84.5	81.2	-	31.2	44.2	163.4	21.7	93.3	37.5
3	X8B691	52.8	46.8	74	23.7	54.8	34.2	34.2	82.9	87.9	4.5	41.8	49.3	98.7	11.2	101.6	27.4
4	KMH-218 Plus	45.7	35.2	60.6	5.1	43.5	15.4	-	82.7	29.5	1.2	7.6	42	119.2	28.4	118.2	41.4
5	KMH-3426	22.1	1.4	22.8	14.4	17.3	46.8	10.9	49.1	7.9	3.6	7.9	21.1	120.1	28.4	129.4	29.1
6	JH 31292	38.3	11	65.1	19.2	39	40.5	-	94.2	63.6	-	16.4	40.5	129.1	43.8	129.8	30.3
7	JH 31285 (1R)	31.8	34.6	52.7	25.4	38.1	33.1	-	56.3	36.3	-	5.1	44.4	45.3	6.9	105	25.1
8	NMH-803	26.8	70.9	81	28.2	52.7	12.1	1.5	69.5	56.3	6.1	19.5	33.4	83.2	6.5	139.5	37.9
9	Mukhya-108	83.5	9	58.4	12.6	52.4	52.3	12.2	97.5	44.5	8.5	20.9	29.2	141.1	20.8	134.9	32.9
10	Sarpunch-171	67.1	117.9	81.2	12.3	75.1	28.9	11.8	97.9	53.3	6.3	22.8	33.7	110	32	137.8	13.7
11	HKH-313	-	-	37.1	8.7	-	8.5	-	-	7.2	-	-	-	122.1	31.6	157.7	29.1
12	VEH-09-2	25.6	-	66.2	10	28.1	11.4	14.6	-	13.6	-	6	-	68.5	39.1	49.9	20
13	MCH 42	45.1	43.8	45.9	-	38.5	8.5	-	84.9	64	4.8	17.8	38.4	68	24.2	82.6	35.4
14	Navjot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	BIO 9637	49.5	89	60.8	7.2	55.9	27.7	-	66	44.7	-	13	20.9	35.4	22.4	42.5	18.5

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot															
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	UDAI	BANS	GODH	CHHI	JHAB	ZN 5 MEAN	OV'L MEAN
1	KDMH 017	12.6	47.8	-	3.1	15.1	48.7	48.2	46.6	29.1	1.2	25	68.1	91.1	42.7	46	41.9
2	X8B557	7	49.9	-	2.7	-	75.9	60.5	45.4	27	11.4	21	90.5	119.7	89.2	64.9	45.5
3	X8B691	0.1	40.4	34.2	-	-	32.2	52.4	48.2	18.8	-	34.6	102.1	95.8	32.9	52.1	38.2
4	KMH-218 Plus	8.1	50.1	-	-	11.9	56.9	42.5	48.7	24.6	-	23.9	100.9	70.9	20.1	39.4	33.4
5	KMH-3426	22.1	46.7	21.3	-	-	33.8	24	26.8	13.3	-	41.2	100.6	94	15.9	49.3	27
6	JH 31292	12.6	52.6	-	-	27.7	29.4	-	64.9	17.8	-	21.6	88.9	107.8	12.9	46.9	33.9
7	JH 31285 (1R)	5.9	34.4	15	-	5.7	35.3	57.5	46.2	21.4	11.2	18.7	93.6	81.8	15.6	44	28.3
8	NMH-803	20.6	45.4	15.4	6.1	-	64.1	43.7	53.4	26.1	19.8	31.9	95	82.3	12.3	48.7	37.4
9	Mukhya-108	42.5	54.7	0.8	-	-	57.7	51	77.5	29.9	1.3	-	91.9	63.8	15.2	29.3	37.7
10	Sarpunch-171	34.6	48.6	-	-	9.8	60.7	41.8	78.7	33.9	8.9	23.3	80.9	99.6	17.7	47.7	44.1
11	HKH-313	-	36.3	8.9	-	12.2	21.2	-	73.6	19.8	10	-	55.1	84.5	9.2	22.6	15
12	VEH-09-2	0.6	23.1	10.8	-	-	54.8	33.9	46.2	22.9	26.8	2.8	93	84.9	12.2	43.9	24.6
13	MCH 42	-	36.3	2.3	8.1	17.9	56.1	64.8	54.4	36.5	18.8	20.1	58.7	100.7	9.9	45	35.4
14	Navjot	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
15	BIO 9637	8.9	22.3	45.2	-	-	30.1	31.3	26.8	13.6	0.9	-	5	72.7	26.4	23.3	181.4

TABLE No. 6 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637															
		ZN 1					ZN 2										
		BAJA	BARA	KANG	UDHA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	1.9	-	17.5	0.4	4.5	15.1	17.1	6.2	28	3.7	17.9	20.9	63.5	17.8	46.8	-
2	X8B557	15.2	10.1	-	40.4	8.6	-	21.9	11.2	25.3	-	16.1	19.2	94.6	-	35.7	16
3	X8B691	2.2	-	8.2	15.4	-	5.2	34.6	10.2	29.9	6.1	25.5	23.5	46.8	-	41.5	7.5
4	KMH-218 Plus	-	-	-	-	-	-	-	10.1	-	2.8	-	17.4	61.9	4.9	53.1	19.3
5	KMH-3426	-	-	-	6.7	-	15	11.3	-	-	5.2	-	0.1	62.6	4.9	61	9
6	JH 31292	-	-	2.7	11.2	-	10	-	17	13.1	-	3	16.2	69.3	17.4	61.3	10
7	JH 31285 (1R)	-	-	-	16.9	-	4.2	-	-	-	-	-	19.4	7.3	-	43.9	5.6
8	NMH-803	-	-	12.6	19.6	-	-	1.9	2.1	8	7.7	5.8	10.3	35.3	-	68.1	16.4
9	Mukhya-108	22.7	-	-	5.1	-	19.3	12.5	19	-	10.2	7	6.8	78.1	-	64.9	12.1
10	Sarpunch-171	11.7	15.3	12.7	4.7	12.3	1	12.1	19.2	6	7.9	8.6	10.6	55.1	7.8	66.9	-
11	HKH-313	-	-	-	1.4	-	-	-	-	-	1.5	-	-	64.1	7.5	80.9	9
12	VEH-09-2	-	-	3.4	2.6	-	-	15	-	-	-	-	-	24.5	13.6	5.2	1.3
13	MCH 42 CHECKS	-	-	-	-	-	-	-	11.4	13.3	6.4	4.2	14.4	24.1	1.5	28.2	14.3
14	Navjot	-	-	-	-	-	-	0.3	-	-	1.5	-	-	-	-	-	-
15	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637															
		ZN 3					ZN 4					ZN 5					OV'L
		AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN
1	KDMH 017	3.5	20.8	-	7.1	19.7	14.2	12.8	15.6	13.6	0.4	29	60.1	10.6	12.8	18.5	15
2	X8B557	-	22.6	-	6.7	-	35.2	22.2	14.7	11.8	10.4	24.9	81.5	27.2	49.7	33.8	18
3	X8B691	-	14.9	-	-	-	1.6	16.1	16.9	4.5	-	38.8	92.5	13.4	5.1	23.4	12
4	KMH-218 Plus	-	22.7	-	-	16.4	20.5	8.5	17.3	9.7	-	27.9	91.4	-	-	13.1	8.1
5	KMH-3426	12.2	19.9	-	0.4	1.2	2.8	-	-	-	-	45.7	91.1	12.3	-	21.2	3
6	JH 31292	3.4	24.8	-	-	32.8	-	-	30	3.7	-	25.4	79.9	20.3	-	19.2	8.5
7	JH 31285 (1R)	-	9.9	-	-	9.9	4	19.9	15.4	6.9	10.3	22.5	84.4	5.3	-	16.8	4
8	NMH-803	10.7	18.9	-	10.2	-	26.1	9.4	21	11	18.8	36.1	85.7	5.6	-	20.6	11.4
9	Mukhya-108	30.9	26.5	-	1.5	-	21.2	14.9	40	14.3	0.5	-	82.8	-	-	4.9	11.7
10	Sarpunch-171	23.6	21.5	-	2.2	14.1	23.5	7.9	41	17.9	8	27.2	72.3	15.6	-	19.8	16.8
11	HKH-313	-	11.5	-	-	16.6	-	-	36.9	5.4	9.1	-	47.7	6.8	-	-	-
12	VEH-09-2	-	0.6	-	2.5	2	19	2	15.3	8.2	25.7	6	83.8	7.1	-	16.8	1
13	MCH 42 CHECKS	-	11.5	-	12.3	22.6	19.9	25.5	21.8	20.1	17.7	23.9	51.1	16.2	-	17.7	9.7
14	Navjot	-	-	-	3.9	4	-	-	-	-	-	3.2	-	-	-	-	-
15	BIO 9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 50% SILKING															
		BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	65.7	56.0	55.0	67.0	60.9	56.3	51.3	53.7	59.7	48.7	53.9	52.0	51.3	50.0	54.7	54.0
2	X8B557	66.3	56.0	55.0	65.7	60.8	55.0	52.3	54.3	59.3	53.3	54.9	56.7	53.7	51.7	56.3	55.0
3	X8B691	60.0	56.0	58.7	63.3	59.5	54.0	52.3	51.3	58.0	49.7	53.1	51.7	51.0	50.7	55.7	53.7
4	KMH-218 Plus	63.0	56.0	53.0	66.3	59.6	57.0	50.3	52.7	58.3	49.0	53.5	53.0	53.7	51.0	56.3	54.3
5	KMH-3426	62.3	59.0	56.0	65.3	60.7	54.3	50.3	49.0	57.7	52.0	52.7	51.3	50.7	46.0	55.3	53.3
6	JH 31292	62.3	59.0	59.0	64.3	61.2	57.7	53.0	54.7	60.7	45.0	54.2	56.3	53.3	54.3	55.3	53.7
7	JH 31285 (1R)	60.7	52.0	59.0	62.0	58.4	53.7	51.3	49.3	55.3	50.0	51.9	51.3	52.3	49.7	54.7	51.3
8	NMH-803	62.0	54.0	53.0	63.0	58.0	53.3	51.0	51.0	56.3	53.7	53.1	54.7	52.3	51.0	55.7	53.7
9	Mukhya-108	61.3	54.0	59.0	64.3	59.7	55.3	53.7	51.3	57.7	52.0	54.0	56.0	54.0	50.7	54.7	53.7
10	Sarpunch-171	61.3	54.0	53.7	67.0	59.0	55.7	49.3	51.0	57.0	49.3	52.5	51.7	54.3	48.3	56.3	54.0
11	HKH-313	66.3	54.0	55.0	64.7	60.0	57.3	53.0	52.0	58.7	49.3	54.1	52.3	53.3	46.3	56.3	55.0
12	VEH-09-2	63.7	54.0	57.7	65.7	60.3	57.0	52.0	52.0	58.7	48.3	53.6	54.0	56.3	53.3	59.3	54.3
13	MCH 42	66.3	54.0	58.3	66.0	61.2	57.3	53.0	53.3	59.7	52.7	55.2	54.0	53.0	50.3	55.0	54.7
	CHECKS																
14	Navjot	60.7	53.0	59.0	61.7	58.6	52.7	49.7	50.3	55.3	53.0	52.2	51.3	52.3	49.7	58.7	51.3
15	BIO 9637	60.0	54.0	58.7	63.3	59.0	53.3	51.0	50.0	56.7	52.3	52.7	53.3	53.0	50.7	52.7	51.3
	Loc. Mean	62.8	55.0	56.7	64.6	59.8	55.3	51.6	51.7	57.9	50.6	53.4	53.3	53.0	50.2	55.8	53.6
	C.D. (5%)	1.99	-	1.55	2.94	3.05	3.54	3.60	1.58	2.18	1.40	2.14	1.25	3.73	2.02	1.70	1.34
	C.V. (%)	1.90	-	1.64	2.72	3.57	3.82	4.17	1.83	2.25	1.66	3.16	1.40	4.21	2.41	1.82	1.50
	F (Prob.)	0.00	-	0.00	0.01	0.53	0.06	0.38	0.00	0.00	0.00	0.10	0.00	0.31	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 50% SILKING															
		ZN 3							ZN 4				ZN 5			OV'L	
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean
1	KDMH 017	53.7	52.6	59.7	54.3	57.3	64.0	55.3	56.3	57.8	58.7	50.3	53.3	54.0	54.0	54.1	55.6
2	X8B557	53.0	54.4	58.3	57.3	61.3	64.3	56.0	57.7	59.2	57.3	47.0	55.0	54.7	54.0	53.6	56.4
3	X8B691	50.7	52.2	57.7	55.0	57.3	62.0	54.0	54.3	56.7	48.7	49.7	53.0	53.7	52.3	51.5	54.4
4	KMH-218 Plus	54.0	53.7	58.0	55.3	59.3	64.0	55.3	56.0	58.0	57.0	47.3	54.3	56.7	52.0	53.5	55.5
5	KMH-3426	50.3	51.2	58.3	55.7	59.3	61.3	51.7	54.7	56.8	55.0	48.7	53.7	54.3	53.0	52.9	54.6
6	JH 31292	54.0	54.5	58.7	55.7	56.7	62.7	56.0	57.0	57.8	59.3	46.3	54.7	53.7	53.7	53.5	56.0
7	JH 31285 (1R)	50.0	51.6	59.0	55.0	55.7	60.0	52.7	54.7	56.2	54.7	46.3	51.3	54.0	53.0	51.9	53.8
8	NMH-803	50.0	52.9	58.7	53.7	55.3	62.0	52.7	54.0	56.1	54.7	48.3	55.0	54.0	50.3	52.5	54.4
9	Mukhya-108	52.0	53.5	59.7	58.0	60.7	64.0	56.0	56.7	59.2	55.7	47.7	55.3	54.3	53.3	53.3	55.8
10	Sarpunch-171	51.7	52.7	57.7	55.0	60.3	61.3	55.0	55.7	57.5	55.3	47.7	54.7	55.3	54.0	53.4	54.9
11	HKH-313	56.7	53.3	58.7	55.3	54.0	62.3	-	58.0	57.7	58.3	47.0	56.7	55.0	54.7	54.3	55.6
12	VEH-09-2	50.3	54.6	59.7	55.7	61.0	63.3	56.0	57.0	58.8	55.0	50.0	55.0	55.3	54.7	54.0	56.1
13	MCH 42	54.0	53.5	58.3	55.3	54.3	63.7	54.3	58.3	57.4	55.0	48.3	52.3	53.3	55.0	52.8	55.8
	CHECKS																
14	Navjot	48.7	52.0	59.0	53.0	56.3	59.3	51.0	50.0	54.8	55.3	47.0	53.0	54.3	55.3	53.0	53.9
15	BIO 9637	51.3	52.1	59.7	55.0	56.7	61.7	53.3	54.0	56.7	59.7	46.7	53.0	54.0	53.3	53.3	54.6
	Loc. Mean	52.0	53.0	58.7	55.3	57.7	62.4	50.6	55.6	57.4	56.0	47.9	54.0	54.4	53.5	53.2	55.2
	C.D. (5%)	1.32	1.81	2.29	1.48	1.61	2.80	1.54	0.96	1.60	5.54	1.79	2.31	1.00	2.15	2.01	0.88
	C.V. (%)	1.52	2.97	2.33	1.60	1.67	2.68	1.82	1.03	2.42	5.92	2.23	2.55	1.10	2.40	2.99	2.93
	F (Prob.)	0.00	0.00	0.67	0.00	0.00	0.02	0.00	0.00	0.00	0.06	0.00	0.01	0.00	0.01	0.28	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED															
		BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	63.0	55.0	51.3	62.3	57.9	54.0	48.7	52.7	55.7	44.3	51.1	50.3	50.0	47.3	50.3	50.0
2	X8B557	64.0	56.0	70.0	61.3	62.8	54.0	50.0	53.3	55.7	48.3	52.3	54.7	52.0	47.3	52.7	50.0
3	X8B691	57.3	57.0	63.3	59.7	59.3	53.0	49.7	50.7	54.0	44.7	50.4	49.7	50.0	47.0	52.3	49.7
4	KMH-218 Plus	60.3	54.0	61.3	62.0	59.4	55.0	48.3	52.3	54.3	44.7	50.9	51.3	52.7	47.0	52.0	50.0
5	KMH-3426	59.7	58.0	66.3	61.0	61.3	53.3	47.7	48.0	53.7	47.3	50.0	49.7	49.3	44.0	51.7	49.0
6	JH 31292	59.7	57.0	57.0	60.0	58.4	55.7	51.0	53.3	57.0	42.3	51.9	54.3	52.0	51.0	52.0	49.3
7	JH 31285 (1R)	57.7	51.0	64.7	58.0	57.8	52.3	48.7	48.3	51.7	45.7	49.3	49.3	51.0	47.0	51.0	47.3
8	NMH-803	59.0	53.0	63.0	59.3	58.6	53.0	49.0	50.3	52.3	48.0	50.5	52.7	50.7	47.7	50.7	49.7
9	Mukhya-108	58.3	53.0	59.3	60.3	57.8	53.7	51.7	50.7	53.7	47.3	51.4	54.0	52.7	47.3	50.7	49.7
10	Sarpunch-171	59.0	53.0	54.0	62.7	57.2	54.3	46.7	50.0	52.7	44.7	49.7	49.7	52.7	46.0	52.7	49.3
11	HKH-313	63.3	53.0	58.7	60.7	58.9	55.7	50.7	51.0	55.3	44.3	51.4	50.3	51.3	44.0	52.7	50.0
12	VEH-09-2	61.3	53.0	53.3	61.3	57.3	55.3	49.7	50.7	54.7	43.3	50.7	52.0	54.7	50.7	54.7	50.0
13	MCH 42	63.3	53.0	66.0	61.7	61.0	56.0	50.7	52.3	55.7	47.7	52.5	52.3	51.0	46.7	52.0	50.0
CHECKS																	
14	Navjot	57.7	52.0	57.3	57.7	56.2	50.7	47.3	49.0	51.0	48.3	49.3	49.3	50.3	46.0	50.7	46.7
15	BIO 9637	57.7	53.0	58.3	59.0	57.0	52.0	49.0	49.0	52.7	47.3	50.0	51.3	51.7	47.3	48.3	50.7
	Loc. Mean	60.1	54.1	60.3	60.5	58.7	53.9	49.2	50.8	54.0	45.9	50.8	51.4	51.5	47.1	51.6	49.4
	C.D. (5%)	1.79	-	8.57	2.58	4.29	2.80	3.77	1.56	2.41	1.04	1.91	1.01	3.53	1.80	1.63	3.02
	C.V. (%)	1.78	-	8.51	2.55	5.12	3.11	4.58	1.84	2.67	1.35	2.97	1.17	4.10	2.28	1.88	3.65
	F (Prob.)	0.00	-	0.00	0.01	0.17	0.02	0.33	0.00	0.00	0.00	0.02	0.00	0.29	0.00	0.00	0.44

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
1	KDMH 017	50.7	49.8	57.7	51.7	55.0	63.0	54.7	54.7	56.1	56.3	47.0	49.7	53.3	51.6	53.1
2	X8B557	50.3	51.2	57.3	55.0	58.7	63.3	55.0	55.0	57.4	55.3	44.0	51.0	54.3	51.2	54.7
3	X8B691	48.0	49.4	56.3	52.3	54.7	61.0	53.3	53.0	55.1	46.3	45.7	49.0	53.0	48.5	52.4
4	KMH-218 Plus	52.0	50.8	56.0	53.3	57.0	63.0	54.0	54.0	56.2	55.7	44.0	52.0	55.7	51.8	53.7
5	KMH-3426	48.0	48.6	57.0	53.7	56.3	60.3	50.7	53.0	55.2	53.0	45.3	50.7	54.0	50.8	52.8
6	JH 31292	51.3	51.7	57.3	53.3	54.3	61.7	55.0	55.3	56.2	56.3	43.3	51.7	53.0	51.1	53.8
7	JH 31285 (1R)	47.0	48.8	57.7	53.0	53.3	59.0	50.7	52.3	54.3	51.3	43.3	48.3	53.0	49.0	51.7
8	NMH-803	47.3	49.8	58.7	51.7	52.3	61.0	50.7	52.3	54.4	52.0	44.3	51.0	53.3	50.2	52.5
9	Mukhya-108	49.0	50.6	59.0	55.7	57.3	63.0	54.0	54.7	57.3	55.3	44.3	52.3	53.7	51.4	53.6
10	Sarpunch-171	49.0	49.9	55.7	51.7	58.0	60.3	54.0	53.7	55.6	53.3	44.3	52.3	54.7	51.2	52.6
11	HKH-313	53.7	50.3	57.3	53.0	51.7	61.3	-	56.0	55.9	54.7	43.7	53.3	55.0	51.7	53.4
12	VEH-09-2	48.0	51.7	57.7	53.7	57.7	62.3	54.7	54.3	56.7	52.7	46.3	53.0	54.3	51.6	53.6
13	MCH 42	52.0	50.7	57.0	53.3	51.7	62.7	53.7	56.0	55.7	52.7	45.0	49.0	52.3	49.8	53.7
	CHECKS															
14	Navjot	45.7	48.1	58.3	50.7	54.0	58.3	49.0	48.3	53.1	51.0	44.0	49.3	54.3	49.7	51.1
15	BIO 9637	48.3	49.6	58.7	53.0	54.3	60.7	52.7	51.7	55.2	57.3	43.0	50.3	53.0	50.9	52.4
	Loc. Mean	49.4	50.1	57.4	53.0	55.1	61.4	49.5	53.6	55.6	53.6	44.5	50.9	53.8	50.7	53.0
	C.D. (5%)	0.97	1.65	2.76	1.91	1.45	2.80	1.36	1.10	1.67	5.38	1.63	2.65	1.05	2.36	1.02
	C.V. (%)	1.18	2.86	2.87	2.16	1.57	2.73	1.64	1.23	2.61	6.01	2.20	3.12	1.17	3.26	3.45
	F (Prob.)	0.00	0.00	0.44	0.00	0.00	0.02	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.13	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK														
		BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	96.0	98.0	59.0	87.0	85.0	101.7	85.0	81.7	78.7	86.8	86.3	86.0	90.0	83.7	98.3
2	X8B557	101.3	98.0	59.0	87.7	86.5	101.0	88.3	81.7	81.3	88.1	88.3	90.3	91.0	87.3	99.0
3	X8B691	94.7	98.0	62.7	85.7	85.3	100.0	85.0	81.3	78.3	86.2	83.3	83.7	90.7	85.7	98.0
4	KMH-218 Plus	100.3	98.0	57.0	88.0	85.8	102.3	85.7	82.0	75.7	86.4	86.7	91.7	90.3	87.0	98.3
5	KMH-3426	99.3	100.0	60.0	84.7	86.0	100.3	86.0	80.0	77.0	85.8	87.3	87.3	90.7	87.3	98.0
6	JH 31292	96.3	102.0	63.0	87.3	87.2	103.3	88.0	84.0	73.7	87.2	88.0	88.7	94.0	89.7	98.7
7	JH 31285 (1R)	92.0	93.0	63.0	85.3	83.3	102.0	87.3	80.0	78.7	87.0	86.3	89.3	89.7	86.3	98.3
8	NMH-803	95.7	95.0	57.0	87.0	83.7	99.3	85.7	80.3	81.7	86.8	85.7	89.7	90.0	87.3	98.3
9	Mukhya-108	102.3	95.0	63.0	87.3	86.9	101.3	90.7	83.7	81.0	89.2	86.3	94.3	90.0	89.7	98.7
10	Sarpunch-171	99.3	95.0	57.3	87.3	84.8	101.7	85.7	80.0	76.3	85.9	87.0	90.7	91.7	87.3	101.0
11	HKH-313	105.0	95.0	59.7	86.0	86.4	103.3	87.7	82.7	75.3	87.2	87.7	91.3	87.0	88.0	101.0
12	VEH-09-2	104.3	95.0	61.7	86.7	86.9	102.7	88.7	82.0	75.3	87.2	87.3	93.7	97.0	90.3	103.0
13	MCH 42	102.7	95.0	62.3	86.3	86.6	103.0	87.3	82.0	78.0	87.6	86.7	89.3	90.0	84.7	99.0
CHECKS																
14	Navjot	91.3	92.0	63.0	86.0	83.1	98.0	85.7	79.0	81.7	86.1	83.3	86.3	90.7	84.3	96.7
15	BIO 9637	98.3	94.0	62.7	86.0	85.3	98.0	84.3	80.0	80.3	85.7	83.7	87.3	89.3	83.0	96.3
	Loc. Mean	98.6	96.2	60.7	86.6	85.5	101.2	86.7	81.4	78.2	86.9	86.3	89.3	90.8	86.8	98.8
	C.D. (5%)	2.86	-	1.51	2.39	4.07	5.03	2.40	1.39	2.50	2.78	1.11	3.53	2.21	1.57	1.72
	C.V. (%)	1.73	-	1.49	1.65	3.34	2.97	1.66	1.02	1.92	2.24	0.77	2.36	1.46	1.08	1.04
	F (Prob.)	0.00	0.00	0.00	0.27	0.59	0.46	0.00	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK											OV'L Mean			
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS		GODH	CHHI	ZN 5 Mean
1	KDMH 017	83.3	87.9	80.0	93.7	80.3	96.0	98.7	100.7	91.6	89.7	82.0	82.0	88.7	85.6	87.8
2	X8B557	82.3	89.7	79.3	96.0	81.3	96.3	100.7	104.0	92.9	88.0	80.3	83.3	91.7	85.8	89.1
3	X8B691	80.7	87.0	79.3	93.7	81.0	94.0	99.3	98.7	91.0	86.3	80.3	83.0	88.7	84.6	87.2
4	KMH-218 Plus	87.7	90.3	81.0	95.3	81.7	96.0	100.3	100.7	92.5	90.0	80.0	83.0	90.3	85.8	88.7
5	KMH-3426	81.3	88.7	79.7	93.3	82.0	93.3	100.3	98.7	91.2	86.7	81.3	84.0	90.3	85.6	87.9
6	JH 31292	84.7	90.6	80.7	92.7	82.3	94.7	95.7	102.0	91.3	90.3	78.0	84.0	90.3	85.7	88.8
7	JH 31285 (1R)	84.0	89.0	80.7	92.0	82.0	92.0	97.7	98.7	90.5	86.7	81.3	83.7	90.3	85.5	87.5
8	NMH-803	80.0	88.5	79.3	92.3	79.0	94.0	100.3	98.0	90.5	85.7	78.7	85.0	90.3	84.9	87.3
9	Mukhya-108	88.0	91.2	81.0	90.3	79.0	96.0	103.3	101.3	91.8	89.3	81.3	84.0	93.0	86.9	89.6
10	Sarpunch-171	84.0	90.3	78.7	94.3	79.7	93.3	101.7	100.0	91.3	86.7	79.0	83.3	90.0	84.8	88.0
11	HKH-313	88.3	90.6	80.3	90.7	79.0	94.3	-	105.0	89.9	90.0	81.3	84.0	92.7	87.0	88.5
12	VEH-09-2	88.7	93.3	80.0	92.7	79.3	95.3	104.3	102.0	92.3	87.7	81.3	84.0	93.0	86.5	89.8
13	MCH 42	87.0	89.4	79.7	91.7	79.0	95.7	101.0	104.3	91.9	86.3	80.3	82.3	91.7	85.2	88.6
CHECKS																
14	Navjot	77.3	86.4	80.3	89.3	79.0	91.3	95.0	94.3	88.2	87.7	80.7	83.0	86.0	84.3	85.9
15	BIO 9637	80.7	86.7	81.7	90.0	79.7	93.7	98.0	97.7	90.1	90.3	80.7	82.0	88.7	85.4	86.9
	Loc. Mean	83.9	89.3	80.1	92.5	80.3	94.4	93.1	100.4	91.1	88.1	80.4	83.4	90.4	85.6	88.1
	C.D. (5%)	1.47	2.02	2.03	1.45	4.02	2.80	2.99	1.71	2.36	2.05	1.45	2.23	3.38	2.01	1.16
	C.V. (%)	1.05	1.96	1.51	0.94	2.99	1.77	1.92	1.02	2.25	1.39	1.08	1.60	2.24	1.65	2.31
	F (Prob.)	0.00	0.00	0.26	0.00	0.59	0.02	0.00	0.00	0.03	0.00	0.00	0.33	0.01	0.28	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST															
		BAJA	BARA	KANG	UDHA	ZN 1					ZN 2						
						Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	22.3	22.0	34.7	25.0	26.0	30.5	32.0	29.3	19.1	15.0	25.2	23.7	26.3	17.4	31.6	24.4
2	X8B557	23.4	24.7	35.5	26.0	27.4	25.8	33.1	30.3	19.5	15.0	24.7	27.1	27.7	19.8	35.3	23.9
3	X8B691	20.6	22.3	31.5	24.5	24.7	28.5	31.8	28.9	19.9	15.0	24.8	24.7	26.1	20.4	31.0	25.0
4	KMH-218 Plus	22.1	23.0	31.9	25.0	25.5	32.0	33.8	28.7	18.3	15.0	25.6	26.2	28.7	19.2	33.5	25.1
5	KMH-3426	21.5	24.0	33.2	25.0	25.9	27.6	30.4	27.4	19.2	15.0	23.9	25.4	24.0	19.2	30.1	25.4
6	JH 31292	22.4	22.3	32.4	25.0	25.5	33.0	33.7	33.2	20.6	15.0	27.1	25.0	28.2	19.8	35.0	26.3
7	JH 31285 (1R)	21.4	23.3	32.9	24.5	25.5	29.7	32.8	28.4	18.8	15.0	24.9	25.6	27.2	19.2	30.7	25.1
8	NMH-803	21.0	23.7	33.3	25.0	25.7	22.5	31.6	27.8	16.7	15.0	22.7	26.1	26.1	18.8	29.9	24.4
9	Mukhya-108	21.2	23.0	34.0	25.0	25.8	23.8	33.5	33.1	19.0	15.0	24.9	25.2	29.4	18.7	33.1	26.1
10	Sarpunch-171	21.6	21.3	33.5	24.0	25.1	34.7	34.3	28.5	18.6	15.0	26.2	26.5	28.1	19.8	34.0	26.8
11	HKH-313	23.8	22.0	34.3	24.5	26.1	28.3	34.4	35.0	21.4	15.0	26.8	25.1	30.2	19.7	33.0	25.0
12	VEH-09-2	21.1	23.3	33.0	25.0	25.6	28.8	32.7	32.7	19.1	15.0	25.7	25.3	28.7	19.0	34.4	24.9
13	MCH 42	21.9	23.0	32.3	26.5	25.9	27.6	33.1	31.6	18.5	15.0	25.2	26.5	28.0	19.2	33.9	26.0
	CHECKS																
14	Navjot	17.5	22.7	30.9	24.0	23.8	25.7	30.4	23.9	17.4	15.0	22.5	24.5	18.6	19.2	29.4	24.9
15	BIO 9637	19.3	21.3	33.0	25.5	24.8	24.4	31.7	27.5	18.7	15.0	23.5	24.1	25.9	17.4	28.1	25.0
	Loc. Mean	21.4	22.8	33.1	25.0	25.6	28.2	32.6	29.7	19.0	15.0	24.9	25.4	26.9	19.1	32.2	25.2
	C.D. (5%)	1.35	1.48	3.43	1.02	1.33	4.32	-	1.77	1.87	-	2.39	1.12	0.00	0.00	3.33	1.55
	C.V. (%)	3.77	3.88	6.20	2.45	3.64	9.16	-	3.56	5.88	-	7.56	2.64	0.00	0.00	6.19	3.67
	F (Prob.)	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.00	0.00	-	0.01	0.00	0.00	0.00	0.00	0.04

Table No. 6 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST											ZN 5 Mean	OV'L Mean	
		ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH			CHHI
1	KDMH 017	24.7	27.5	22.6	13.6	14.3	14.5	23.3	19.3	15.5	16.6	17.1	19.9	17.3	22.4
2	X8B557	26.8	23.5	24.4	13.9	13.1	15.8	25.6	19.4	15.7	17.7	17.5	19.9	17.7	23.1
3	X8B691	25.4	23.9	25.4	14.4	14.8	15.8	22.7	19.5	13.0	18.2	16.4	20.2	16.9	22.3
4	KMH-218 Plus	26.5	27.0	24.8	14.0	13.2	16.2	22.0	19.5	14.6	16.7	18.0	19.9	17.3	22.9
5	KMH-3426	24.8	26.8	24.9	14.0	14.1	15.7	22.4	19.6	15.5	17.6	17.4	20.8	17.8	22.3
6	JH 31292	26.9	26.6	25.0	13.7	14.4	15.7	20.9	19.4	14.0	16.4	19.1	22.0	17.8	23.3
7	JH 31285 (1R)	25.6	28.9	26.5	14.4	13.7	15.8	21.5	20.1	14.0	17.7	17.2	20.7	17.4	22.7
8	NMH-803	25.1	27.2	26.4	14.1	14.3	16.1	23.5	20.3	14.9	17.0	16.1	20.2	17.0	22.1
9	Mukhya-108	26.5	26.8	25.2	14.7	15.1	15.7	21.3	19.8	15.5	17.6	16.0	20.4	17.4	22.8
10	Sarpunch-171	27.0	24.6	25.5	14.2	14.2	16.3	21.2	19.3	17.1	18.0	18.4	21.1	18.6	23.2
11	HKH-313	26.6	24.7	23.3	14.0	14.5	-	21.7	19.6	14.1	15.7	18.2	21.2	17.3	23.4
12	VEH-09-2	26.5	27.1	27.5	14.0	13.9	16.5	22.1	20.2	13.4	17.6	17.6	20.1	17.2	23.0
13	MCH 42	26.7	28.0	28.1	13.6	14.6	16.5	23.7	20.7	14.0	17.1	16.4	20.2	16.9	23.1
	CHECKS														
14	Navjot	23.3	27.6	24.3	13.9	14.2	14.2	20.5	19.1	13.3	16.7	17.4	18.2	16.4	21.0
15	BIO 9637	24.1	26.2	20.5	14.1	13.2	15.4	23.2	18.7	15.0	17.1	17.3	18.8	17.1	21.6
	Loc. Mean	25.8	26.4	24.9	14.0	14.1	14.7	22.4	19.6	14.6	17.2	17.3	20.2	17.3	22.6
	C.D. (5%)	1.83	2.12	0.94	0.70	1.00	0.34	1.43	1.47	0.70	0.60	1.42	0.88	1.22	0.82
	C.V. (%)	5.62	4.80	2.26	2.99	4.24	1.38	3.82	6.49	2.85	2.08	4.91	2.59	4.94	6.39
	F (Prob.)	0.00	0.00	0.00	0.17	0.01	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.16	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)				ZN 1						ZN 2					
		BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	222.0	232.2	104.0	163.1	180.3	237.0	206.7	228.3	255.3	78.3	201.1	172.7	185.8	146.7	202.3	236.7
2	X8B557	260.7	264.2	102.0	193.5	205.1	229.3	223.3	236.7	268.3	64.3	204.4	202.3	208.0	161.6	207.5	236.3
3	X8B691	236.3	255.3	101.3	195.0	197.0	227.7	236.7	253.3	267.3	84.0	213.8	201.0	203.2	146.8	225.0	243.6
4	KMH-218 Plus	213.7	239.7	102.0	152.0	176.8	211.7	200.0	218.3	232.3	83.0	189.1	158.3	165.3	136.4	190.0	202.9
5	KMH-3426	229.3	205.7	102.0	131.5	167.1	198.0	173.3	206.7	218.0	76.0	174.4	167.0	172.2	137.6	180.5	209.9
6	JH 31292	261.7	254.1	104.7	185.1	201.4	237.7	226.7	256.7	272.0	89.7	216.5	195.3	204.2	175.0	217.5	239.5
7	JH 31285 (1R)	249.0	237.7	101.7	131.6	180.0	217.3	210.0	240.0	237.3	61.0	193.1	184.0	182.0	155.1	213.8	217.4
8	NMH-803	223.3	235.2	98.3	167.5	181.1	229.0	236.7	195.0	238.7	92.3	198.3	182.7	180.2	137.3	177.8	198.9
9	Mukhya-108	238.3	236.7	102.7	166.5	186.0	217.3	215.0	226.7	243.3	69.7	194.4	179.0	198.5	161.9	207.3	217.9
10	Sarpunch-171	226.7	195.1	100.7	170.0	173.1	206.0	203.3	200.0	227.0	65.7	180.4	175.7	152.0	146.1	182.8	211.0
11	HKH-313	216.3	207.9	102.3	145.6	168.0	177.0	206.7	203.3	205.7	60.3	170.6	161.0	163.8	133.4	188.8	206.4
12	VEH-09-2	219.0	234.5	102.7	149.3	176.4	196.3	193.3	198.3	219.3	78.3	177.1	163.0	161.5	153.6	193.8	201.8
13	MCH 42	241.0	222.3	105.3	177.4	186.5	194.7	203.3	216.7	230.7	80.7	185.2	156.0	165.0	150.9	201.3	211.5
	CHECKS																
14	Navjot	216.7	217.8	101.0	133.0	167.1	228.7	223.3	226.7	243.0	84.7	201.3	158.0	168.3	136.1	175.3	200.1
15	BIO 9637	261.0	232.8	102.3	144.0	185.0	228.3	216.7	235.0	253.3	96.0	205.9	190.7	184.7	161.6	198.8	238.8
	Loc. Mean	234.3	231.4	102.2	160.3	182.1	215.7	211.7	222.8	240.8	77.6	193.7	176.4	179.6	149.3	197.5	218.2
	C.D. (5%)	28.53	12.79	1.92	46.54	19.55	23.30	39.00	28.87	12.19	1.38	14.29	33.05	22.68	8.90	12.57	18.22
	C.V. (%)	7.28	3.30	1.13	17.36	7.52	6.46	11.02	7.75	3.03	1.06	5.82	11.20	7.55	3.56	3.81	4.99
	F (Prob.)	0.01	0.00	0.00	0.09	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)														OV'L Mean	
		ZN 3							ZN 4				ZN 5				
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean
1	KDMH 017	264.6	201.4	176.0	247.3	191.7	171.7	232.7	202.6	203.7	188.3	168.6	170.3	238.3	182.3	189.6	196.4
2	X8B557	304.7	220.1	159.0	249.3	166.7	196.7	245.7	205.5	203.8	178.3	234.7	186.3	251.7	200.9	210.4	209.1
3	X8B691	276.6	216.0	176.4	238.3	171.7	191.7	230.0	199.3	201.2	186.7	217.2	185.3	236.7	191.4	203.5	206.8
4	KMH-218 Plus	251.3	184.0	181.0	235.7	188.3	170.0	203.0	192.5	195.1	195.0	194.7	174.3	200.0	162.5	185.3	186.7
5	KMH-3426	261.8	188.2	180.5	223.3	180.0	180.0	207.7	188.6	193.4	185.0	220.3	166.0	206.7	146.1	184.8	182.8
6	JH 31292	290.9	220.4	153.0	248.7	195.0	190.0	236.7	209.4	205.5	211.7	223.9	192.3	258.3	179.3	213.1	211.9
7	JH 31285 (1R)	285.0	206.2	157.0	238.0	176.7	175.0	222.0	209.7	196.4	191.7	205.6	185.3	241.7	158.9	196.6	195.6
8	NMH-803	272.6	191.6	160.0	236.7	170.0	158.3	217.3	204.7	191.2	180.0	217.2	172.7	230.0	162.7	192.5	191.4
9	Mukhya-108	281.2	207.6	161.0	243.7	141.7	200.0	240.0	208.3	199.1	180.0	208.8	168.7	241.7	176.9	195.2	197.4
10	Sarpunch-171	258.7	187.7	178.6	232.0	151.7	185.0	201.3	188.7	189.6	178.3	185.4	155.3	196.7	142.5	171.6	181.4
11	HKH-313	210.6	177.3	188.0	217.7	150.0	161.7	-	183.1	180.1	200.0	193.8	158.3	198.3	158.4	181.8	175.9
12	VEH-09-2	246.4	186.7	193.5	239.7	195.0	181.7	217.3	182.7	201.6	190.0	210.4	161.7	216.7	160.1	187.8	186.9
13	MCH 42	250.4	189.2	154.0	231.7	175.0	181.7	207.7	195.8	191.0	185.0	203.9	165.7	205.0	157.8	183.5	187.3
	CHECKS																
14	Navjot	247.3	180.8	158.5	224.3	185.0	175.0	216.3	194.7	192.3	195.0	208.7	153.0	226.7	147.0	186.1	186.3
15	BIO 9637	278.4	208.8	162.5	239.3	206.7	188.3	238.3	207.5	207.1	180.0	208.8	189.7	240.0	182.0	200.1	202.5
	Loc. Mean	265.4	197.7	169.3	236.4	176.3	180.4	207.7	198.2	196.7	188.3	206.8	172.3	225.9	167.3	192.1	193.2
	C.D. (5%)	32.71	10.99	17.27	10.95	10.45	26.20	14.08	6.75	14.87	10.32	28.40	25.69	12.65	11.77	15.65	6.69
	C.V. (%)	7.37	4.83	6.10	2.77	3.54	8.68	4.05	2.04	6.56	3.28	8.21	8.91	3.35	4.21	6.43	6.35
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.04	0.00	0.01	0.05	0.00	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	EAR HEIGHT (cm)				ZN 1					ZN 2					ZN 3
		BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	PANT	KANP	Mean	BHUB	VARA	RANC	AMBI	Mean
1	KDMH 017	130.7	134.4	159.3	76.1	125.1	123.7	126.7	114.3	196.0	140.2	57.5	119.8	138.7	106.9	105.7
2	X8B557	126.3	133.9	157.3	90.8	127.1	103.3	126.7	106.7	175.3	128.0	66.9	101.5	109.8	121.9	100.0
3	X8B691	122.3	125.1	144.0	72.5	116.0	123.0	123.3	111.7	174.3	133.1	58.0	107.5	115.9	102.9	96.1
4	KMH-218 Plus	125.3	138.4	135.3	73.3	118.1	124.0	126.7	108.0	164.7	130.8	53.8	110.0	110.7	107.5	95.5
5	KMH-3426	124.7	109.3	125.0	62.2	105.3	101.0	86.7	86.0	188.7	115.6	60.5	100.0	95.1	88.5	86.0
6	JH 31292	146.0	141.8	155.3	86.4	132.4	132.0	123.3	127.3	154.3	134.3	81.7	112.5	118.3	125.9	109.6
7	JH 31285 (1R)	138.7	133.1	150.7	50.7	118.3	130.0	123.3	107.3	161.3	130.5	64.1	110.0	108.9	139.9	105.7
8	NMH-803	111.0	116.5	112.3	63.4	100.8	102.3	113.3	78.7	176.0	117.6	56.1	79.3	93.6	102.9	82.9
9	Mukhya-108	110.7	112.8	114.3	67.6	101.4	101.7	110.0	98.0	186.0	123.9	63.9	95.0	104.6	88.5	88.0
10	Sarpunch-171	121.7	98.8	135.3	69.5	106.3	100.7	103.3	90.7	183.0	119.4	62.1	97.5	102.1	91.1	88.2
11	HKH-313	110.3	110.4	120.0	52.8	98.4	91.7	100.0	81.3	133.7	101.7	57.0	91.3	91.3	75.1	78.7
12	VEH-09-2	106.7	111.7	115.7	57.7	97.9	93.3	106.7	88.7	167.0	113.9	63.1	96.3	92.7	75.5	81.9
13	MCH 42	132.3	109.4	150.0	76.3	117.0	99.0	113.3	95.3	174.3	120.5	61.1	101.3	113.3	100.0	93.9
	CHECKS															
14	Navjot	109.7	117.6	133.0	59.9	105.0	112.7	113.3	110.0	186.7	130.7	56.1	76.3	98.7	100.2	82.8
15	BIO 9637	121.7	109.7	130.0	62.1	105.9	113.0	120.0	104.3	165.7	125.8	62.7	89.0	105.3	91.9	87.2
	Loc. Mean	122.5	120.2	135.8	68.1	111.7	110.1	114.4	100.6	172.5	124.4	61.6	99.1	106.6	101.2	92.1
	C.D. (5%)	17.93	8.64	17.40	32.93	11.95	22.38	30.92	13.52	2.80	15.71	4.65	10.20	15.14	20.83	13.92
	C.V. (%)	8.75	4.30	7.66	28.92	7.50	12.15	16.15	8.04	0.97	8.85	4.51	6.15	8.49	12.30	10.59
	F (Prob.)	0.00	0.00	0.00	0.47	0.00	0.01	0.33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	EAR HEIGHT (cm)					ZN 4					ZN 5	OV'L
		ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean
1	KDMH 017	81.0	75.0	90.0	117.0	116.2	95.8	90.0	82.0	68.0	118.3	89.6	110.5
2	X8B557	79.0	45.0	95.0	126.3	106.2	90.3	80.0	104.5	66.3	106.7	89.4	106.2
3	X8B691	75.5	51.7	86.7	112.0	99.9	85.1	90.0	100.8	76.7	98.3	91.4	103.4
4	KMH-218 Plus	86.5	63.3	91.7	102.7	96.4	88.1	93.3	101.0	79.7	110.0	96.0	104.9
5	KMH-3426	83.5	65.0	93.3	103.3	91.5	87.3	90.0	108.7	70.7	96.7	91.5	96.7
6	JH 31292	71.9	76.7	105.0	119.7	116.5	97.9	110.0	115.4	86.3	136.7	112.1	116.3
7	JH 31285 (1R)	62.0	68.3	90.0	115.0	116.3	90.3	88.3	97.2	86.3	123.3	98.8	107.8
8	NMH-803	74.0	51.7	75.0	107.3	104.7	82.5	81.7	90.4	66.7	93.3	83.0	92.9
9	Mukhya-108	75.5	58.3	98.3	114.0	101.8	89.6	75.0	92.3	66.7	106.7	85.2	97.2
10	Sarpunch-171	94.5	51.7	101.7	100.7	101.4	90.0	81.7	88.4	65.0	101.7	84.2	97.2
11	HKH-313	93.5	48.3	90.0	-	93.8	81.4	95.0	92.3	62.7	95.0	86.3	89.3
12	VEH-09-2	87.0	68.3	90.0	106.3	93.9	89.1	90.0	98.9	69.7	98.3	89.2	94.2
13	MCH 42	64.0	65.0	101.7	106.7	106.3	88.7	85.0	97.0	71.3	103.3	89.2	101.2
	CHECKS												
14	Navjot	64.0	66.7	88.3	108.0	95.9	84.6	98.3	108.7	71.3	110.0	97.1	99.3
15	BIO 9637	82.8	68.3	96.7	114.3	106.1	93.6	81.0	88.9	80.0	110.0	90.0	100.2
	Loc. Mean	78.3	61.6	92.9	103.6	103.1	89.0	88.6	97.8	72.5	107.2	91.5	101.2
	C.D. (5%)	12.61	6.42	21.54	9.14	3.73	11.45	9.12	19.23	11.35	10.96	9.74	5.74
	C.V. (%)	9.63	6.23	13.87	5.28	2.16	10.16	6.16	11.76	9.36	6.11	7.46	9.34
	F (Prob.)	0.00	0.00	0.49	0.00	0.00	0.25	0.00	0.08	0.00	0.00	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	GRAIN SHELLING %				ZN 1					ZN 2					
		BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC
1	KDMH 017	81.7	77.9	83.5	75.9	79.8	86.1	82.0	87.1	85.0	74.0	82.8	79.5	77.6	75.8	85.2
2	X8B557	81.1	84.4	84.5	77.4	81.8	84.1	78.0	85.9	83.6	72.5	80.8	79.3	77.3	77.0	86.4
3	X8B691	81.7	75.2	86.5	79.7	80.8	85.1	80.0	85.5	88.8	74.0	82.7	75.8	77.4	76.0	85.1
4	KMH-218 Plus	80.7	79.2	86.5	76.8	80.8	84.6	75.0	88.1	82.4	74.5	80.9	78.5	77.5	80.3	87.5
5	KMH-3426	80.9	80.0	83.0	76.2	80.0	84.8	81.0	89.3	81.3	74.5	82.2	77.4	77.4	75.8	85.1
6	JH 31292	-	77.1	86.5	75.0	79.5	85.5	70.0	85.7	84.4	73.0	79.7	75.9	78.2	78.0	86.0
7	JH 31285 (1R)	81.9	82.6	86.0	78.7	82.3	86.0	83.0	85.9	85.7	74.5	83.0	77.2	78.0	77.0	84.6
8	NMH-803	87.2	82.1	84.0	76.8	82.5	88.8	78.0	89.1	86.4	76.0	83.7	76.8	79.9	77.3	84.6
9	Mukhya-108	86.3	74.1	86.0	77.8	81.1	85.2	78.0	88.7	89.5	76.0	83.5	79.7	77.2	77.8	86.7
10	Sarpunch-171	79.5	83.3	83.5	74.5	80.2	83.6	78.0	89.3	84.2	75.0	82.0	75.1	79.6	76.3	89.6
11	HKH-313	83.4	74.2	76.0	76.3	77.5	85.3	73.0	83.3	76.9	74.5	78.6	78.8	77.5	75.5	86.8
12	VEH-09-2	82.3	72.1	85.0	76.0	78.9	83.3	83.0	85.4	82.5	73.0	81.4	78.6	78.8	75.5	83.9
13	MCH 42	80.4	73.5	84.0	75.9	78.5	84.5	74.0	88.2	85.5	73.5	81.1	81.6	77.1	77.3	86.3
	CHECKS															
14	Navjot	86.2	78.2	86.5	75.7	81.6	84.9	79.0	88.3	86.7	74.5	82.7	75.6	76.4	78.0	86.3
15	BIO 9637	85.0	81.8	86.5	77.3	82.6	86.8	79.0	88.3	88.9	74.5	83.5	80.8	78.3	75.5	86.7
	Loc. Mean	77.2	78.4	84.5	76.7	80.5	85.2	78.1	87.2	84.8	74.3	81.9	78.0	77.9	76.9	86.1
	C.D. (5%)	-	1.69	3.25	3.75	3.81	2.57	-	2.34	-	0.59	2.83	1.57	0.00	2.29	2.58
	C.V. (%)	-	1.29	2.30	2.92	3.32	1.80	-	1.60	-	0.47	2.73	1.20	0.00	1.79	1.79
	F (Prob.)	0.00	0.00	0.00	0.40	0.23	0.03	-	0.00	0.00	0.00	0.02	0.00	0.00	0.01	0.02

Table No. 6 (Continued)

Sl No	PEDIGREE	GRAIN SHELLING %															
		ZN 3							ZN 4				ZN 5	OV'L			
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean
1	KDMH 017	83.5	80.3	76.8	80.6	85.0	81.4	77.8	81.1	80.4	85.9	69.6	82.1	84.7	85.4	81.5	81.0
2	X8B557	84.0	80.8	86.4	80.6	82.7	82.7	82.7	81.6	82.8	83.9	70.0	83.3	85.4	89.5	82.4	81.8
3	X8B691	79.7	78.8	82.5	76.6	82.3	80.6	81.1	81.1	80.7	85.7	71.8	82.5	85.8	88.1	82.8	81.1
4	KMH-218 Plus	82.0	81.1	75.1	82.3	84.5	83.2	83.9	82.1	81.8	86.0	70.1	84.6	87.4	89.6	83.5	81.7
5	KMH-3426	82.9	79.7	85.6	81.2	83.2	83.7	83.2	79.2	82.7	87.1	70.1	79.6	82.6	84.3	80.7	81.2
6	JH 31292	81.1	79.8	85.0	79.3	82.9	80.0	78.3	81.9	81.2	84.6	71.7	79.0	85.5	86.4	81.4	80.4
7	JH 31285 (1R)	82.6	79.9	86.7	80.8	82.4	83.2	83.5	82.4	83.2	86.3	70.7	77.9	82.7	86.6	80.8	81.9
8	NMH-803	83.9	80.5	85.5	82.6	85.1	83.0	83.8	85.6	84.3	85.6	70.0	82.1	84.1	84.8	81.3	82.5
9	Mukhya-108	83.1	80.9	84.0	83.5	84.2	81.2	83.1	85.5	83.6	85.0	71.2	81.9	84.0	86.2	81.6	82.2
10	Sarpunch-171	80.4	80.2	84.6	78.8	83.1	81.8	78.9	80.4	81.3	84.9	72.0	80.1	85.0	87.8	81.9	81.2
11	HKH-313	83.9	80.5	84.1	81.0	81.8	82.1	-	80.6	81.9	82.0	63.1	80.3	84.1	81.5	78.2	79.4
12	VEH-09-2	79.3	79.2	85.6	78.3	82.4	83.9	83.9	79.6	82.3	85.2	69.3	79.2	86.3	81.6	80.3	80.6
13	MCH 42	82.3	80.9	84.7	84.6	83.6	82.1	84.4	84.4	83.9	86.1	69.2	77.6	84.5	84.0	80.3	81.2
	CHECKS																
14	Navjot	80.0	79.2	84.2	83.3	83.1	82.2	77.9	82.3	82.2	85.7	68.1	84.6	82.2	82.2	80.6	81.3
15	BIO 9637	86.9	81.6	87.0	81.5	85.5	82.1	79.2	84.1	83.2	86.4	69.2	80.2	88.5	87.2	82.3	82.7
	Loc. Mean	82.4	80.2	83.8	81.0	83.5	82.2	76.1	82.1	82.4	85.3	69.7	81.0	84.9	85.7	81.3	81.3
	C.D. (5%)	5.80	1.96	5.90	2.32	3.20	1.97	0.78	1.67	2.34	0.53	1.27	3.46	3.52	5.58	2.25	1.17
	C.V. (%)	4.21	1.92	4.20	1.71	2.29	1.43	0.62	1.22	2.47	0.37	1.09	2.56	2.48	3.90	2.18	2.59
	F (Prob.)	0.45	0.23	0.01	0.00	0.43	0.01	0.00	0.00	0.04	0.00	0.00	0.00	0.05	0.09	0.01	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)															
		BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	KDMH 017	75.8	41.0	53.5	32.6	50.7	55.0	63.4	73.3	51.9	62.8	61.3	62.8	51.4	68.8	74.7	59.5
2	X8B557	76.2	62.8	72.9	38.5	62.6	56.7	65.2	74.8	46.9	62.8	61.3	65.3	49.2	69.4	72.2	61.6
3	X8B691	77.8	49.3	66.0	31.9	56.3	57.2	64.6	76.0	57.2	61.9	63.4	69.8	52.8	67.4	70.5	65.5
4	KMH-218 Plus	77.0	35.4	63.9	34.0	52.6	52.8	65.2	74.8	58.3	61.9	62.6	64.2	47.8	69.8	72.6	58.6
5	KMH-3426	67.5	38.5	69.1	33.7	52.2	32.5	58.9	49.5	23.9	62.5	45.5	64.9	38.6	66.3	62.8	43.5
6	JH 31292	79.4	38.9	59.4	37.5	53.8	50.8	64.9	75.1	44.7	61.9	59.5	63.2	51.9	67.7	76.4	61.3
7	JH 31285 (1R)	79.4	38.9	67.4	32.3	54.5	58.3	64.6	71.7	42.2	62.2	59.8	67.0	53.3	68.1	69.1	65.5
8	NMH-803	77.8	61.5	65.6	31.6	59.1	49.7	65.2	72.0	38.3	64.4	57.9	64.6	47.5	66.7	70.1	60.1
9	Mukhya-108	75.0	45.8	61.8	32.3	53.7	48.1	67.0	69.3	52.5	65.0	60.4	61.8	49.4	66.7	73.3	62.8
10	Sarpunch-171	71.0	48.3	56.3	37.5	53.3	48.6	60.1	69.6	40.8	63.9	56.6	63.5	47.5	67.7	69.8	63.4
11	HKH-313	32.5	37.2	61.1	23.3	38.5	5.3	58.6	9.8	5.6	64.4	28.7	62.5	24.2	65.6	24.7	33.6
12	VEH-09-2	67.5	35.4	55.6	31.3	47.4	42.2	65.8	55.9	30.8	64.4	51.8	62.5	41.4	66.3	64.6	58.0
13	MCH 42	77.0	57.3	68.8	41.7	61.2	58.9	59.2	73.6	53.6	65.0	62.1	62.2	54.2	69.1	72.2	65.2
	CHECKS																
14	Navjot	80.6	50.0	59.7	32.6	55.7	52.2	61.9	74.8	53.3	64.4	61.3	62.2	48.6	67.4	69.1	56.5
15	BIO 9637	86.1	41.0	60.8	28.8	54.2	44.2	61.0	72.0	45.6	62.2	57.0	64.6	47.2	67.4	75.7	53.6
	Loc. Mean	73.4	45.4	62.8	33.3	53.7	47.5	63.0	66.1	43.1	63.3	56.6	64.1	47.0	67.6	67.8	57.9
	C.D. (5%)	6.61	3.85	8.93	10.32	10.23	7.49	6.95	6.31	21.21	1.04	10.75	3.80	7.65	3.30	6.16	8.04
	C.V. (%)	5.39	5.07	8.51	18.53	13.34	9.42	6.59	5.71	29.45	0.98	14.99	3.55	9.73	2.92	5.43	8.30
	F (Prob.)	0.00	0.00	0.00	0.18	0.01	0.00	0.24	0.00	0.00	0.00	0.00	0.01	0.00	0.35	0.00	0.00

Table No. 6 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)															
		ZN 3							ZN 4				ZN 5		OV'L		
	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean	
1	KDMH 017	49.7	61.1	54.2	57.5	58.9	63.9	58.0	65.6	59.7	75.0	66.7	78.5	63.9	68.4	70.5	61.0
2	X8B557	59.7	62.9	42.8	62.2	58.3	59.2	65.8	66.7	59.2	79.9	62.5	81.6	65.3	63.2	70.5	63.1
3	X8B691	55.8	63.6	53.6	52.5	58.3	64.2	64.9	66.3	60.0	77.1	65.6	77.1	65.0	63.5	69.7	62.8
4	KMH-218 Plus	57.2	61.7	54.7	58.9	58.9	59.2	58.0	66.3	59.3	80.6	67.0	83.3	63.3	60.8	71.0	61.7
5	KMH-3426	36.9	52.2	42.5	47.5	59.2	54.7	59.8	65.3	54.8	79.2	62.8	44.8	53.3	58.7	59.8	53.0
6	JH 31292	49.4	61.7	37.5	45.3	59.2	59.7	60.4	66.3	54.7	78.1	62.2	72.2	62.5	64.6	67.9	59.6
7	JH 31285 (1R)	59.7	63.8	39.7	45.0	56.4	53.1	67.9	66.7	54.8	78.1	58.0	77.1	63.9	60.8	67.6	60.2
8	NMH-803	56.7	60.9	58.9	47.8	57.8	59.4	58.3	67.4	58.3	79.9	64.2	78.8	61.9	63.5	69.7	61.1
9	Mukhya-108	46.9	60.2	40.0	49.7	58.6	57.5	58.6	66.7	55.2	75.0	64.2	46.5	62.8	61.1	61.9	58.4
10	Sarpunch-171	46.4	59.7	64.2	42.8	59.7	62.2	57.7	66.7	58.9	78.1	63.9	70.5	60.8	58.7	66.4	59.2
11	HKH-313	39.4	41.7	59.2	45.8	59.4	55.3	-	13.2	46.6	79.2	35.8	30.2	13.1	56.3	42.9	39.8
12	VEH-09-2	39.4	55.4	58.3	46.9	59.4	54.7	57.7	66.7	57.3	75.3	60.8	41.0	61.1	57.6	59.2	54.6
13	MCH 42	53.6	62.7	38.6	55.0	60.0	65.3	58.0	64.9	57.0	75.0	69.8	79.5	61.7	59.0	69.0	62.2
CHECKS																	
14	Navjot	42.2	57.7	44.2	48.6	58.6	60.3	58.6	65.6	56.0	78.1	63.9	80.2	63.6	59.0	69.0	59.9
15	BIO 9637	48.6	59.5	57.5	49.7	58.3	56.7	56.8	66.3	57.6	75.0	62.5	73.6	59.7	61.5	66.5	59.1
	Loc. Mean	49.5	59.0	49.7	50.4	58.7	59.0	56.1	62.7	56.6	77.6	62.0	67.7	58.8	61.1	65.4	58.4
	C.D. (5%)	12.29	6.46	27.58	8.10	3.30	5.98	3.01	5.72	8.54	4.03	5.58	9.34	7.84	6.19	10.66	4.01
	C.V. (%)	14.85	9.51	33.17	9.61	3.36	6.06	3.21	5.45	13.10	3.11	5.38	8.26	7.97	6.06	12.86	12.59
	F (Prob.)	0.00	0.00	0.54	0.00	0.84	0.00	0.00	0.00	0.28	0.04	0.00	0.00	0.00	0.04	0.00	0.00

TABLE No.7

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, UDHAMPUR, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, BHUBANESHWAR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN AET 1st YEAR, TRIAL No.TR67 DURING KHARIF (2010).

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
S1												ZN 1									
No	PEDIGREE	ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R
1	FH 3506	8731	1	8250	2	1507	10	8521	3	4605	2	6323	3	6225	1	4013	4	8118	4	8625	5
2	JH 31236 (2R)	7476	4	7455	4	1616	9	7851	6	3303	10	5540	7	5209	8	4383	3	8549	2	7359	10
3	85-08-11 (2009)	7324	5	7026	8	2846	4	7534	7	4439	3	5834	6	5337	7	3787	8	6379	9	9697	2
4	KH-9560	8135	2	7716	3	2784	5	8330	4	3376	9	6068	4	5419	6	3584	10	8337	3	8057	7
5	BIO-605	7929	3	7051	7	4527	1	9168	1	4630	1	6661	1	5815	4	3859	6	8861	1	10345	1
6	REH 2001	7316	6	8472	1	4332	2	8711	2	3429	8	6452	2	5890	3	4903	1	7642	5	8567	6
7	REH 2002	6659	9	5879	10	2033	7	7030	8	3868	5	5094	9	4898	9	3598	9	5332	10	9066	4
8	REH 2003	7126	7	7205	5	3633	3	8188	5	3647	6	5960	5	5640	5	3819	7	7136	8	9496	3
CHECKS																					
9	JH-3459	6288	10	6570	9	2220	6	6464	9	4050	4	5118	8	4230	10	4400	2	7339	7	7597	9
10	Prakash	6803	8	7061	6	1796	8	2275	10	3489	7	4285	10	6171	2	3932	5	7590	6	7716	8
	Location Mean	7378		7268		2729		7407		3884		5733		5483		4028		7528		8653	
	Mean Stand	61		52		35		60		44		50		61		64		76		64	
	C.D. (5%)	899		1124		430		1203		900		911		1983		571		1199		2077	
	C.V. (%)	7.07		8.97		9.15		9.43		13.46		-		21		8.23		9.24		13.93	
	F (Prob)	0		0.001		0		0		0.495		-		0.1		0.001		0		0.092	
	Plot Size	9.6		7.2		9.6		9.6		9.6		-		12		11.2		10.92		12	
AGRONOMY DATA																					
	Sowing Date	28-06		18-06		17-07		11-06		30-06		-		-		24-06		24-06		16-06	
	Harvest Date	25-10		13-10		8-10		9-10		5-10		-		-		30-09		2-10		28-09	
	Irrigation Nos	-		3		-		-		-		-		-		4		3		-	
	Fertilizer Applied N	80		120		80		120		80		-		150		150		90		120	
	Fertilizer Applied P	60		60		60		60		60		-		75		60		30		60	
	Fertilizer Applied K	40		40		40		40		40		-		75		60		-		40	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : DELH 21.0 %: AMBI 21.0 %

TABLE No.7 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																								
		ZN 2										ZN 3														
		KANP	R	MEAN	R	BAHR	R	DHOL	R	BHUB	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	
1	FH 3506	3511	10	6067	4	8293	3	2981	10	4654	4	5753	2	8656	4	6605	1	6067	5	7388	8	8484	3	5935	4	
2	JH 31236 (2R)	3785	9	6019	5	8148	6	4035	6	4903	3	5795	1	8291	8	5641	3	6234	3	7646	6	6898	7	5354	8	
3	85-08-11 (2009)	4008	7	5968	7	8559	1	4849	1	4330	7	3466	10	8616	7	4441	8	5964	6	7853	4	7519	5	4202	9	
4	KH-9560	4002	8	5995	6	8282	4	4529	4	5050	2	4468	7	8652	6	5698	2	6196	4	8519	2	7853	4	4110	10	
5	BIO-605	4278	3	6836	1	7637	8	4280	5	5317	1	5158	4	10513	1	5269	6	6581	1	8195	3	8568	2	5627	6	
6	REH 2001	4173	6	6321	2	8189	5	3393	8	3627	10	4706	6	9327	3	5267	7	5848	8	7823	5	7167	6	6510	3	
7	REH 2002	4405	2	5600	10	6478	10	3152	9	4398	5	4440	8	7916	9	4156	10	5277	10	7460	7	6229	10	5521	7	
8	REH 2003	4456	1	6226	3	8030	7	4577	2	4206	8	4778	5	9649	2	4285	9	6248	2	8752	1	9599	1	7316	1	
CHECKS																										
9	JH-3459	4248	5	5896	8	7554	9	4562	3	4168	9	4278	9	8654	5	5307	4	5843	9	7271	9	6356	9	5912	5	
10	Prakash	4260	4	5874	9	8405	2	3649	7	4344	6	5163	3	7804	10	5304	5	5873	7	6818	10	6886	8	6558	2	
	Location Mean	4113		6080		7958		4001		4500		4800		8808		5197		6013		7772		7556		5705		
	Mean Stand	76		70		63		66		65		65		66		50		65		72		64		71		
	C.D. (5%)	255		1025		497		1239		171		630		1430		1878		793		2405		1078		586		
	C.V. (%)	3.6		-		3.62		17.98		2.21		7.61		9.42		20.98		-		17.97		8.29		5.97		
	F (Prob)	0				0		0.031		0		0.002		0.01		0.07				0.691		0		0		
	Plot Size	12		-		9.68		12		9.6		9.6		11.2		9.6		-		12		12		12		
AGRONOMY DATA																										
	Sowing Date	14-07		-		17-07		16-07		11-07		6-07		29-06		13-07		-		14-07		19-06		16-07		
	Harvest Date	30-11		-		22-10		-		20-10		4-10		8-10		-		-		11-11		25-10		-		
	Irrigation Nos	-		-		-		-		-		1		-		-		-		3		-		-		
	Fertilizer Applied N	120		-		120		150		120		100		120		100		-		150		180		200		
	Fertilizer Applied P	60		-		60		70		60		40		60		50		-		75		60		80		
	Fertilizer Applied K	40		-		60		50		60		40		40		30		-		37.5		50		60		

TABLE No.7 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		KOLH		MAND		COIM		ZN 4 MEAN		UDAI		BANS		GODH		CHHI		JHAB		ZN 5 MEAN		OV'L MEAN	
1	FH 3506	9870	4	5537	9	8525	6	7623	4	4697	2	4291	10	7183	1	6952	3	3884	5	5401	3	6359	4
2	JH 31236 (2R)	8736	9	6106	4	8069	9	7135	8	4401	3	5255	5	5175	6	6677	5	4680	1	5238	4	6078	6
3	85-08-11 (2009)	9315	5	5814	7	8131	8	7139	7	4138	6	5313	4	4152	9	6154	8	3614	6	4674	8	5963	7
4	KH-9560	9968	3	5858	5	9288	2	7599	5	4737	1	5745	3	5853	3	6754	4	4338	2	5486	1	6333	5
5	BIO-605	10618	2	5419	10	9276	3	7951	3	3914	9	4856	7	5472	4	7417	1	4312	3	5194	5	6689	1
6	REH 2001	10685	1	6871	1	10199	1	8209	2	3691	10	5861	2	4906	8	6459	6	3073	10	4798	6	6401	2
7	REH 2002	8780	7	6641	2	8718	5	7225	6	4110	7	4740	8	4094	10	5551	10	3192	9	4337	10	5572	10
8	REH 2003	9269	6	6460	3	9146	4	8424	1	4060	8	5087	6	5239	5	5776	9	3361	7	4704	7	6400	3
CHECKS																							
9	JH-3459	8764	8	5844	6	7496	10	6940	10	4255	5	5864	1	5868	2	7070	2	4190	4	5449	2	5891	8
10	Prakash	7936	10	5628	8	8448	7	7046	9	4331	4	4473	9	4912	7	6210	7	3276	8	4641	9	5591	9
	Location Mean	9394		6018		8730		7529		4233		5149		5285		6502		3792		4992		6128	
	Mean Stand	76		67		64		69		77		63		71		78		55		69		64	
	C.D. (5%)	1417		1075		638		1200		274		423		1090		780		425		598		913	
	C.V. (%)	8.75		10.37		4.24		-		3.76		4.77		11.97		6.96		6.5		-		-	
	F (Prob)	0.006		0.097		0		-		0		0		0		0.001		0		-		-	
	Plot Size	9.6		11.2		9.6		-		9.6		9.6		9.6		12		9.6		-		-	
AGRONOMY DATA																							
	Sowing Date	9-07		13-07		13-07		-		4-07		9-07		7-07		28-06		8-07		-		-	
	Harvest Date	3-12		2-12		2-11		-		10-10		23-10		12-10		25-10		9-10		-		-	
	Irrigation Nos	-		6		9		-		-		1		-		-		-		-		-	
	Fertilizer Applied N	100		150		150		-		90		120		100		120		100		-		-	
	Fertilizer Applied P	50		75		75		-		60		40		50		60		50		-		-	
	Fertilizer Applied K	30		40		75		-		-		-		50		40		40		-		-	

TABLE No.7 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE JH-3459															
Sl		ZN 1											ZN 2		
No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN		
1	FH 3506	38.9	25.6	-	31.8	13.7	23.5	47.2	-	10.6	13.5	-	2.9		
2	JH 31236 (2R)	18.9	13.5	-	21.5	-	8.2	23.2	-	16.5	-	-	2.1		
3	85-08-11 (2009)	16.5	6.9	28.2	16.6	9.6	14	26.2	-	-	27.6	-	1.2		
4	KH-9560	29.4	17.4	25.4	28.9	-	18.6	28.1	-	13.6	6.1	-	1.7		
5	BIO-605	26.1	7.3	103.9	41.8	14.3	30.1	37.5	-	20.7	36.2	0.7	15.9		
6	REH 2001	16.4	28.9	95.1	34.8	-	26.1	39.2	11.4	4.1	12.8	-	7.2		
7	REH 2002	5.9	-	-	8.8	-	-	15.8	-	-	19.3	3.7	-		
8	REH 2003	13.3	9.7	63.6	26.7	-	16.4	33.3	-	-	25	4.9	5.6		
CHECKS															
9	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-		
10	Prakash	8.2	7.5	-	-	-	-	45.9	-	3.4	1.6	0.3	-		
GRAIN YIELD % SUPERIORITY OVER THE JH-3459															
Sl		ZN 3											ZN 4		
No	PEDIGREE	BAHR	DHOL	BHUB	VARA	RANC	AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN
1	FH 3506	9.8	-	11.7	34.5	0	24.5	3.8	1.6	33.5	0.4	12.6	-	13.7	9.8
2	JH 31236 (2R)	7.9	-	17.6	35.5	-	6.3	6.7	5.2	8.5	-	-	4.5	7.7	2.8
3	85-08-11 (2009)	13.3	6.3	3.9	-	-	-	2.1	8	18.3	-	6.3	-	8.5	2.9
4	KH-9560	9.6	-	21.1	4.4	-	7.4	6	17.2	23.6	-	13.7	0.2	23.9	9.5
5	BIO-605	1.1	-	27.6	20.6	21.5	-	12.6	12.7	34.8	-	21.2	-	23.8	14.6
6	REH 2001	8.4	-	-	10	7.8	-	0.1	7.6	12.7	10.1	21.9	17.6	36.1	18.3
7	REH 2002	-	-	5.5	3.8	-	-	-	2.6	-	-	0.2	13.6	16.3	4.1
8	REH 2003	6.3	0.3	0.9	11.7	11.5	-	6.9	20.4	51	23.7	5.8	10.5	22	21.4
CHECKS															
9	JH-3459	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	Prakash	11.3	-	4.2	20.7	-	-	0.5	-	8.3	10.9	-	-	12.7	1.5
GRAIN YIELD % SUPERIORITY OVER THE JH-3459															
Sl		ZN 5					OV'L								
No	PEDIGREE	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN							
1	FH 3506	10.4	-	22.4	-	-	-	7.9							
2	JH 31236 (2R)	3.4	-	-	-	11.7	-	3.2							
3	85-08-11 (2009)	-	-	-	-	-	-	1.2							
4	KH-9560	11.3	-	-	-	3.5	0.7	7.5							
5	BIO-605	-	-	-	4.9	2.9	-	13.5							
6	REH 2001	-	-	-	-	-	-	8.7							
7	REH 2002	-	-	-	-	-	-	-							
8	REH 2003	-	-	-	-	-	-	8.6							
CHECKS															
9	JH-3459	-	-	-	-	-	-	-							
10	Prakash	1.8	-	-	-	-	-	-							

TABLE No.7 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash															
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2					
							MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA
1	FH 3506	28.3	16.8	-	274.5	32	47.6	0.9	2.1	7	11.8	-	3.3	-	-	7.2	11.4
2	JH 31236 (2R)	9.9	5.6	-	245.1	-	29.3	-	11.5	12.6	-	-	2.5	-	10.6	12.9	12.2
3	85-08-11 (2009)	7.7	-	58.4	231.2	27.2	36.2	-	-	-	25.7	-	1.6	1.8	32.9	-	-
4	KH-9560	19.6	9.3	55	266.2	-	41.6	-	-	9.8	4.4	-	2	-	24.1	16.3	-
5	BIO-605	16.6	-	152	303	32.7	55.5	-	-	16.8	34.1	0.4	16.4	-	17.3	22.4	-
6	REH 2001	7.6	20	141.2	282.9	-	50.6	-	24.7	0.7	11	-	7.6	-	-	-	-
7	REH 2002	-	-	13.2	209	10.9	18.9	-	-	-	17.5	3.4	-	-	-	1.3	-
8	REH 2003	4.8	2.1	102.2	259.9	4.5	39.1	-	-	-	23.1	4.6	6	-	25.4	-	-
9	JH-3459	-	-	23.6	184.1	16.1	19.5	-	11.9	-	-	-	0.4	-	25	-	-
10	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash																
		RANC	AMBI	ZN 3			ZN 4					ZN 5			OV'L			
				MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN
1	FH 3506	10.9	24.5	3.3	8.4	23.2	-	24.4	-	0.9	8.2	8.4	-	46.2	12	18.6	16.4	13.7
2	JH 31236 (2R)	6.2	6.3	6.2	12.1	0.2	-	10.1	8.5	-	1.3	1.6	17.5	5.4	7.5	42.9	12.9	8.7
3	85-08-11 (2009)	10.4	-	1.6	15.2	9.2	-	17.4	3.3	-	1.3	-	18.8	-	-	10.3	0.7	6.7
4	KH-9560	10.9	7.4	5.5	25	14	-	25.6	4.1	9.9	7.9	9.4	28.4	19.2	8.8	32.4	18.2	13.3
5	BIO-605	34.7	-	12.1	20.2	24.4	-	33.8	-	9.8	12.8	-	8.5	11.4	19.4	31.6	11.9	19.7
6	REH 2001	19.5	-	-	14.7	4.1	-	34.6	22.1	20.7	16.5	-	31	-	4	-	3.4	14.5
7	REH 2002	1.4	-	-	9.4	-	-	10.6	18	3.2	2.5	-	6	-	-	-	-	-
8	REH 2003	23.6	-	6.4	28.4	39.4	11.6	16.8	14.8	8.3	19.6	-	13.7	6.6	-	2.6	1.4	14.5
9	JH-3459	10.9	0	-	6.6	-	-	10.4	3.8	-	-	-	31.1	19.5	13.9	27.9	17.4	5.4
10	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 7 (Continued)

Sl No	PEDIGREE	DAYS TO 50% SILKING																																																																		
		ALMO					BAJA					BARA					KANG	UDHA					ZN 1					Mean	ZN 2					Mean	BAHR	DHOL	BHUB	VARA	RANC																													
1	FH 3506	53.0	59.3	55.0	57.0	58.7	56.6	49.3	51.3	45.3	51.7	45.0	48.5	48.7	48.0	43.0	52.0	49.3																																																		
2	JH 31236 (2R)	56.7	60.7	53.0	57.0	60.0	57.5	50.0	51.0	45.7	51.7	46.7	49.0	47.3	47.7	47.0	50.0	51.3																																																		
3	85-08-11 (2009)	58.7	60.7	52.0	57.0	61.3	57.9	52.3	50.7	50.0	56.3	49.0	51.7	54.3	53.7	47.0	57.0	53.0																																																		
4	KH-9560	59.7	63.0	52.0	62.7	61.3	59.7	51.7	52.7	49.7	55.7	45.0	50.9	52.0	50.7	46.7	57.7	53.7																																																		
5	BIO-605	60.3	64.3	51.0	59.0	61.3	59.2	53.3	50.7	51.7	56.3	45.0	51.4	53.7	53.0	46.0	60.3	53.7																																																		
6	REH 2001	61.7	62.7	55.0	59.3	61.0	59.9	53.0	53.3	51.0	56.3	47.7	52.3	52.7	54.0	47.3	56.3	54.3																																																		
7	REH 2002	61.7	64.7	56.0	62.7	63.3	61.7	53.3	53.3	52.0	57.3	48.0	52.8	52.7	56.3	45.0	56.3	55.0																																																		
8	REH 2003	63.7	65.7	55.0	63.7	64.7	62.5	54.3	53.7	53.0	58.0	49.3	53.7	53.7	55.3	47.3	56.0	55.0																																																		
CHECKS																																																																				
9	JH-3459	56.0	58.7	53.0	57.0	60.7	57.1	51.3	52.0	47.7	54.0	50.3	51.1	51.7	50.7	48.0	53.0	51.0																																																		
10	Prakash	55.0	60.0	54.0	57.0	59.7	57.1	50.0	52.3	45.7	52.3	47.3	49.5	47.3	47.3	47.0	50.7	50.0																																																		
	Loc. Mean	58.6	62.0	53.6	59.2	61.2	58.9	51.9	52.1	49.2	55.0	47.3	51.1	51.4	51.7	46.4	54.9	52.6																																																		
	C.D. (5%)	1.29	1.77	0.00	0.65	2.42	2.02	1.16	3.42	1.91	1.64	0.68	1.82	1.39	1.99	1.37	1.85	1.67																																																		
	C.V. (%)	1.28	1.67	0.00	0.64	2.31	2.67	1.30	3.83	2.27	1.74	0.84	2.77	1.58	2.24	1.72	1.96	1.85																																																		
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00																																																		
CHECKS																																																																				
Sl No	PEDIGREE	DAYS TO 50% SILKING																																																																		
		AMBI	ZN 3				Mean				ARBH				HYDE				KARI				KOLH				MAND				COIM				Mean				UDAI				BANS				GODH				CHHI				JHAB				Mean				OV'L				Mean	
1	FH 3506	47.0	48.0	54.7	53.0	51.0	56.3	50.3	48.3	52.3	49.7	40.7	47.0	49.3	51.7	47.7	50.6																																																			
2	JH 31236 (2R)	51.3	49.1	55.3	51.0	52.7	58.7	51.3	51.0	53.3	51.0	39.0	47.0	49.3	53.0	47.9	51.3																																																			
3	85-08-11 (2009)	53.0	53.0	57.7	51.7	53.7	61.3	52.3	52.3	54.8	51.7	39.7	51.3	50.0	50.0	48.5	53.2																																																			
4	KH-9560	51.7	52.1	57.3	52.0	52.3	61.7	50.3	54.0	54.6	51.7	40.0	49.3	50.0	52.3	48.7	53.2																																																			
5	BIO-605	52.0	53.1	56.7	53.0	53.7	62.0	50.3	54.0	54.9	51.7	40.3	50.0	50.0	51.3	48.7	53.5																																																			
6	REH 2001	52.7	52.9	60.3	52.3	52.0	60.3	53.0	54.3	55.4	52.7	38.3	35.7	55.0	49.0	46.1	53.4																																																			
7	REH 2002	52.7	53.0	58.7	51.3	53.3	62.7	53.0	55.7	55.8	52.3	39.7	53.3	55.7	47.7	49.7	54.6																																																			
8	REH 2003	53.3	53.4	59.0	54.0	52.7	63.3	54.0	57.0	56.7	54.0	39.7	54.0	54.7	49.0	50.3	55.3																																																			
CHECKS																																																																				
9	JH-3459	51.0	50.9	57.0	48.3	55.3	58.3	51.7	52.0	53.8	51.0	39.0	49.7	49.0	51.3	48.0	52.2																																																			
10	Prakash	48.0	48.4	56.0	52.7	52.7	57.0	48.3	52.0	53.1	50.0	40.3	47.7	49.3	50.3	47.5	51.1																																																			
	Loc. Mean	51.3	51.4	57.3	51.9	52.9	60.2	51.5	53.1	54.5	51.6	39.7	48.5	51.2	50.6	48.3	52.8																																																			
	C.D. (5%)	1.33	1.84	2.60	5.21	1.73	3.66	2.20	0.63	1.72	2.80	1.44	14.64	0.93	2.94	3.61	1.00																																																			
	C.V. (%)	1.52	3.08	2.65	5.85	1.90	3.55	2.49	0.69	2.71	3.16	2.11	17.60	1.06	3.39	5.83	3.52																																																			
	F (Prob.)	0.00	0.00	0.01	0.64	0.01	0.01	0.00	0.00	0.00	0.14	0.07	0.42	0.00	0.03	0.57	0.00																																																			

Table No. 7 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 1		ZN 2		BHUB	VARA
		ALMO	BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL		
1	FH 3506	52.0	55.7	54.0	53.0	54.3	53.8	47.3	49.0	44.3	47.0	40.3	45.6	47.0	45.7	40.7	48.3
2	JH 31236 (2R)	55.7	57.3	52.0	53.0	55.0	54.6	48.0	49.0	46.3	47.0	42.3	46.5	45.3	45.7	43.3	47.3
3	85-08-11 (2009)	57.0	57.7	51.0	53.0	57.0	55.1	50.3	48.7	49.0	52.3	44.3	48.9	52.7	52.3	44.0	53.3
4	KH-9560	57.7	60.0	51.0	58.7	57.3	56.9	49.7	50.0	48.7	51.3	40.7	48.1	50.3	49.3	43.0	53.3
5	BIO-605	58.3	61.3	50.0	55.0	56.7	56.3	51.7	48.7	50.7	52.3	40.7	48.8	51.7	51.3	44.0	53.3
6	REH 2001	60.0	60.3	54.0	55.3	56.7	57.3	50.7	50.7	49.7	52.3	42.7	49.2	50.7	52.3	45.3	52.0
7	REH 2002	59.7	61.7	55.0	58.7	59.0	58.8	52.0	51.3	51.0	52.7	43.3	50.1	50.7	54.0	42.3	52.7
8	REH 2003	62.0	62.7	54.0	59.0	60.3	59.6	53.0	51.7	52.0	53.7	44.3	50.9	51.7	53.7	43.7	52.3
	CHECKS																
9	JH-3459	54.3	55.3	52.0	53.0	56.0	54.1	50.0	49.7	47.0	49.7	45.0	48.3	49.7	49.3	44.3	49.0
10	Prakash	53.3	57.3	53.0	53.0	54.7	54.3	48.0	50.0	45.7	47.3	42.3	46.7	45.3	47.0	44.3	48.0
	Loc. Mean	57.0	58.9	52.6	55.2	56.7	56.1	50.1	49.9	48.4	50.6	42.6	48.3	49.5	50.1	43.5	51.0
	C.D. (5%)	0.97	2.11	0.00	0.76	2.60	1.96	1.07	3.91	2.09	1.93	0.92	1.68	1.13	1.98	1.53	1.48
	C.V. (%)	1.00	2.08	0.00	0.80	2.67	2.72	1.25	4.58	2.52	2.23	1.26	2.71	1.33	2.30	2.05	1.69
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.72	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 3		ZN 4		ZN 5	OV'L
		RANC	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean
1	FH 3506	45.0	44.0	45.1	52.3	51.0	48.7	55.3	48.3	46.3	50.3	47.3	37.3	42.7	49.0	44.1	47.9
2	JH 31236 (2R)	47.3	48.3	46.2	55.0	48.7	50.0	57.7	49.0	49.0	51.6	49.0	36.0	44.0	49.0	44.5	48.9
3	85-08-11 (2009)	49.0	50.3	50.3	55.7	52.7	51.0	60.3	50.0	50.3	53.3	49.3	36.7	47.3	49.3	45.7	50.9
4	KH-9560	49.3	48.7	49.0	56.3	51.3	49.7	60.7	48.3	52.0	53.1	46.0	37.0	46.3	48.7	44.5	50.6
5	BIO-605	49.0	49.7	49.8	55.7	50.7	50.7	61.0	48.7	52.0	53.1	49.3	37.0	47.0	49.3	45.7	51.0
6	REH 2001	49.7	50.0	50.0	59.0	50.3	49.3	59.3	52.0	52.3	53.7	50.3	35.3	47.0	54.0	46.7	51.6
7	REH 2002	51.0	49.7	50.1	58.0	50.3	50.7	61.7	51.3	53.7	54.3	50.0	36.3	50.3	54.7	47.8	52.4
8	REH 2003	50.7	50.7	50.4	58.3	51.3	50.3	62.3	51.7	55.0	54.8	48.7	36.7	49.3	54.3	47.3	52.8
	CHECKS																
9	JH-3459	47.0	48.3	47.9	55.0	50.3	52.3	57.3	49.3	50.0	52.4	48.7	35.7	46.7	48.7	44.9	49.8
10	Prakash	45.7	45.0	45.9	54.7	50.0	49.7	56.0	46.3	50.0	51.1	48.0	37.0	45.7	48.7	44.8	48.7
	Loc. Mean	48.4	48.5	48.5	56.0	50.7	50.2	59.2	49.5	51.1	52.8	48.7	36.5	46.6	50.6	45.6	50.5
	C.D. (5%)	1.40	1.63	1.57	4.17	3.24	1.30	3.66	2.06	0.63	1.57	2.40	1.24	2.39	0.89	2.29	0.79
	C.V. (%)	1.69	1.96	2.78	4.35	3.73	1.50	3.61	2.43	0.72	2.57	2.87	1.98	2.98	1.02	3.46	2.85
	F (Prob.)	0.00	0.00	0.00	0.10	0.54	0.00	0.01	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.03	0.00

Table No. 7 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK					ZN 1					ZN 2						
		ALMO	BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC	
1	FH 3506	98.3	95.0	95.0	99.7	84.3	94.5	96.0	84.3	76.3	72.3	82.3	85.0	81.0	83.0	83.7	98.3	
2	JH 31236 (2R)	98.3	99.3	93.0	98.0	85.3	94.8	96.7	87.7	76.3	74.7	83.8	80.7	81.0	85.0	84.0	98.7	
3	85-08-11 (2009)	100.7	99.3	92.0	98.7	86.7	95.5	99.0	86.3	79.7	78.7	85.9	84.3	84.0	84.3	87.3	98.7	
4	KH-9560	103.3	101.7	92.0	100.0	85.3	96.5	100.3	88.0	79.0	73.3	85.2	86.3	84.3	85.3	85.7	99.7	
5	BIO-605	101.3	100.0	91.0	98.3	86.3	95.4	99.0	88.0	81.0	73.7	85.4	83.7	84.3	84.3	87.7	99.7	
6	REH 2001	104.7	101.0	95.0	100.3	86.7	97.5	99.0	87.7	80.3	-	89.0	86.7	85.0	85.0	87.3	98.3	
7	REH 2002	105.0	102.0	96.0	101.0	86.7	98.1	97.3	86.0	81.3	-	88.2	85.7	85.0	84.0	88.7	99.0	
8	REH 2003	106.0	103.7	95.0	106.7	87.0	99.7	97.7	90.7	83.0	-	90.4	87.7	85.7	86.7	88.3	98.7	
	CHECKS																	
9	JH-3459	97.3	99.0	93.0	98.0	85.3	94.5	96.7	86.0	77.3	75.3	83.8	86.3	82.3	86.3	83.7	100.0	
10	Prakash	98.3	100.7	94.0	97.3	85.0	95.1	98.0	85.0	76.3	76.3	83.9	83.3	80.0	85.0	84.3	100.0	
	Loc. Mean	101.3	100.2	93.6	99.8	85.9	96.2	98.0	87.0	79.1	52.4	85.8	85.0	83.3	84.9	86.1	99.1	
	C.D. (5%)	1.61	2.92	-	2.86	2.14	2.14	4.36	6.04	1.41	0.83	4.91	1.67	1.84	2.18	1.57	0.77	
	C.V. (%)	0.93	1.70	-	1.67	1.45	1.73	2.59	4.05	1.04	0.92	3.95	1.15	1.29	1.50	1.07	0.46	
	F (Prob.)	0.00	0.00	0.00	0.00	0.20	0.00	0.58	0.62	0.00	0.00	0.04	0.00	0.00	0.08	0.00	0.00	
Sl No	PEDIGREE	DAYS TO 75% DRY HUSK					ZN 3					ZN 4					ZN 5	OV'L
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean		
1	FH 3506	84.3	85.9	73.7	84.0	75.0	85.3	87.3	89.3	82.4	79.3	71.7	78.0	86.3	78.8	85.1		
2	JH 31236 (2R)	84.7	85.7	73.7	87.7	74.3	87.7	94.3	92.3	85.0	77.7	71.0	78.0	85.3	78.0	85.8		
3	85-08-11 (2009)	88.0	87.8	75.7	90.0	75.0	90.0	94.0	93.3	86.3	75.3	70.3	79.7	87.0	78.1	87.1		
4	KH-9560	87.3	88.1	76.0	88.0	74.3	90.3	89.0	95.0	85.4	78.0	70.3	79.0	88.3	78.9	87.2		
5	BIO-605	84.7	87.4	75.0	85.7	74.7	90.7	85.3	94.7	84.3	77.3	71.3	78.7	86.3	78.4	86.5		
6	REH 2001	88.3	88.4	78.3	87.0	74.3	89.3	98.3	95.0	87.1	79.0	69.0	80.0	89.3	79.3	88.5		
7	REH 2002	88.0	88.4	77.3	86.0	71.7	91.3	98.0	96.0	86.7	77.0	71.3	80.0	89.7	79.5	88.5		
8	REH 2003	88.7	89.3	78.3	86.0	74.7	92.3	99.3	96.0	87.8	78.7	70.0	80.0	89.3	79.5	89.6		
	CHECKS																	
9	JH-3459	86.0	87.4	76.3	84.7	74.7	87.3	91.0	93.3	84.6	79.0	70.3	79.0	85.7	78.5	86.2		
10	Prakash	84.7	86.2	75.3	87.0	74.7	86.0	88.0	94.0	84.2	77.3	71.3	78.3	85.0	78.0	85.8		
	Loc. Mean	86.5	87.5	76.0	86.6	74.3	89.0	92.5	93.9	85.4	77.9	70.7	79.1	87.2	78.7	87.0		
	C.D. (5%)	2.63	1.51	2.76	3.27	2.95	3.19	5.06	1.14	2.66	1.95	1.69	1.25	1.36	1.79	1.13		
	C.V. (%)	1.77	1.49	2.12	2.20	2.31	2.09	3.19	0.71	2.68	1.46	1.39	0.92	0.91	1.56	2.33		
	F (Prob.)	0.01	0.00	0.02	0.05	0.51	0.00	0.00	0.00	0.01	0.01	0.09	0.01	0.00	0.50	0.00		

Table No. 7 (Continued)

		MOISTURE % AT HARVEST														
Sl No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2				
							Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB
1	FH 3506	26.9	25.2	23.0	29.0	26.5	26.1	28.5	39.9	24.4	17.4	15.0	25.0	23.6	19.6	17.4
2	JH 31236 (2R)	28.9	22.5	23.0	29.0	25.5	25.8	26.2	29.4	24.1	17.6	15.0	22.5	24.0	21.3	17.7
3	85-08-11 (2009)	31.3	26.2	22.3	32.1	26.5	27.7	30.0	31.2	29.3	17.8	15.0	24.6	25.3	19.9	16.9
4	KH-9560	32.0	28.2	22.3	32.0	26.5	28.2	28.3	33.5	27.5	20.1	15.0	24.9	25.3	26.6	19.4
5	BIO-605	32.4	27.8	22.3	29.8	25.5	27.6	30.5	33.2	30.9	18.7	15.0	25.6	24.2	24.5	18.8
6	REH 2001	32.0	27.7	22.0	30.4	26.0	27.6	25.9	29.9	28.4	18.7	15.0	23.6	24.6	20.1	18.8
7	REH 2002	30.1	24.7	22.3	32.4	26.5	27.2	31.7	28.7	28.8	21.9	15.0	25.2	24.9	19.8	18.8
8	REH 2003	31.4	26.3	22.0	31.3	25.5	27.3	34.8	32.4	30.7	20.0	15.0	26.6	25.9	22.8	19.4
CHECKS																
9	JH-3459	30.4	24.4	22.3	30.0	26.0	26.6	30.1	28.6	26.0	17.4	15.0	23.4	25.0	22.5	18.8
10	Prakash	28.7	22.5	22.7	31.0	27.0	26.4	26.4	29.8	25.4	19.9	15.0	23.3	24.1	16.5	18.7
	Loc. Mean	30.4	25.5	22.4	30.7	26.2	27.0	29.2	31.7	27.5	18.9	15.0	24.5	24.7	21.4	18.5
	C.D. (5%)	1.78	2.44	0.67	3.67	0.94	1.61	3.04	-	1.30	1.88	-	2.85	0.58	0.00	0.00
	C.V. (%)	3.41	5.56	1.74	6.96	2.10	4.65	6.07	-	2.76	5.79	-	9.09	1.38	0.00	0.00
	F (Prob.)	0.00	0.00	0.05	0.44	0.03	0.08	0.00	0.00	0.00	0.00	-	0.15	0.00	0.00	0.00

		MOISTURE % AT HARVEST																	
Sl No	PEDIGREE	VARA	ZN 3			ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4		UDAI	BANS	GODH	CHHI	ZN 5	OV'L
			RANC	Mean							Mean						Mean	Mean	
1	FH 3506	27.6	21.6	21.9	27.5	23.3	12.2	12.4	14.5	17.4	17.9	15.1	16.9	16.2	15.3	15.9	21.4		
2	JH 31236 (2R)	26.3	22.0	22.3	26.4	20.9	11.8	12.2	15.8	15.7	17.1	15.5	16.1	16.4	15.7	15.9	20.7		
3	85-08-11 (2009)	31.7	23.0	23.4	28.5	22.6	12.2	13.1	16.1	18.8	18.5	14.3	16.8	19.9	17.4	17.1	22.3		
4	KH-9560	32.5	23.8	25.5	29.2	21.8	12.9	13.9	16.5	18.0	18.7	15.0	17.0	17.8	18.2	17.0	22.9		
5	BIO-605	31.5	23.0	24.4	28.1	19.8	12.3	13.2	14.4	22.6	18.4	15.1	17.1	17.6	18.1	17.0	22.6		
6	REH 2001	33.8	21.3	23.7	29.0	20.5	12.7	14.6	17.0	17.6	18.6	22.2	17.1	17.9	17.9	18.8	22.4		
7	REH 2002	32.2	23.3	23.8	28.0	23.5	12.7	12.8	16.9	17.7	18.6	14.9	16.9	16.9	15.6	16.1	22.3		
8	REH 2003	33.6	22.4	24.8	29.5	20.8	12.8	13.6	16.4	21.5	19.1	15.0	16.2	18.9	18.1	17.0	23.0		
CHECKS																			
9	JH-3459	31.5	21.3	23.8	29.1	21.3	12.5	13.6	16.2	19.6	18.7	15.0	17.1	18.1	16.7	16.7	21.9		
10	Prakash	29.2	23.9	22.5	26.3	20.4	12.3	12.7	14.6	16.8	17.2	15.9	17.3	17.2	15.5	16.5	21.2		
	Loc. Mean	31.0	22.5	23.6	28.1	21.5	12.4	13.2	15.8	18.6	18.3	15.8	16.8	17.7	16.9	16.8	22.1		
	C.D. (5%)	1.09	1.69	2.03	2.86	3.40	1.34	1.19	1.19	0.96	1.32	0.79	0.67	1.47	0.85	1.93	0.86		
	C.V. (%)	2.05	4.36	6.71	5.92	9.24	6.27	5.28	4.38	3.02	6.20	2.92	2.31	4.85	2.93	7.94	6.95		
	F (Prob.)	0.00	0.02	0.02	0.26	0.33	0.78	0.01	0.00	0.00	0.05	0.00	0.02	0.00	0.00	0.16	0.00		

Table No. 7 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)															
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2					
						Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	
1	FH 3506	226.7	186.7	150.7	248.0	198.2	202.0	158.3	170.0	185.0	199.7	80.7	158.7	172.3	129.5	151.3	148.8
2	JH 31236 (2R)	238.3	190.0	171.1	257.0	212.9	213.9	179.3	180.0	208.3	206.7	71.3	169.1	186.3	142.5	143.1	156.3
3	85-08-11 (2009)	231.7	185.0	179.5	242.3	204.7	208.6	189.3	186.7	213.3	226.7	60.3	175.3	189.3	151.3	154.9	156.5
4	KH-9560	238.3	203.3	174.4	274.7	190.3	216.2	192.7	193.3	223.3	232.7	80.3	184.5	189.7	163.0	161.9	157.5
5	BIO-605	263.3	208.3	208.7	260.0	212.5	230.6	206.3	186.7	223.3	239.7	66.0	184.4	188.0	165.3	147.1	191.3
6	REH 2001	251.7	208.3	185.9	265.3	242.9	230.8	197.0	200.0	236.7	232.0	80.7	189.3	183.3	164.3	142.8	170.0
7	REH 2002	226.7	173.3	163.5	237.0	219.7	204.0	198.3	183.3	233.3	231.7	87.7	186.9	191.0	152.0	156.0	178.8
8	REH 2003	255.0	211.7	205.0	269.3	223.7	232.9	207.7	180.0	246.7	225.3	81.7	188.3	183.7	164.2	151.9	188.3
	CHECKS																
9	JH-3459	203.3	168.3	167.5	247.0	198.0	196.8	184.3	140.0	198.3	206.0	69.3	159.6	182.7	136.2	137.7	158.8
10	Prakash	236.7	198.3	181.1	255.3	219.5	218.2	206.0	170.0	211.7	229.0	64.7	176.3	198.7	143.2	144.7	157.5
	Loc. Mean	237.2	193.3	178.7	255.6	212.2	215.4	191.9	179.0	218.0	222.9	74.3	177.2	186.5	151.2	149.1	166.4
	C.D. (5%)	7.60	18.58	7.78	10.13	20.39	12.75	12.73	41.60	12.23	18.85	1.27	13.73	14.43	13.70	6.01	10.77
	C.V. (%)	1.87	5.60	2.54	2.31	5.60	4.62	3.87	13.55	3.27	4.93	1.00	6.04	4.51	5.28	2.35	3.77
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00

Sl No	PEDIGREE	PLANT HEIGHT (cm)																
		RANC	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	OV'L Mean
1	FH 3506	178.5	222.9	167.2	158.0	186.3	148.3	131.7	183.3	150.5	159.7	185.0	192.2	165.3	200.0	143.9	177.3	172.3
2	JH 31236 (2R)	213.5	232.3	179.0	173.0	178.7	155.0	146.7	190.7	177.1	170.2	178.3	194.3	184.3	211.7	152.3	184.2	182.6
3	85-08-11 (2009)	191.5	225.1	178.1	177.5	207.3	141.7	151.7	192.0	177.5	174.6	186.7	188.7	174.3	206.7	155.3	182.3	183.2
4	KH-9560	204.5	224.6	183.5	168.0	222.3	155.0	145.0	194.3	160.5	174.2	188.3	212.4	167.7	233.3	145.3	189.4	188.8
5	BIO-605	225.7	235.3	192.1	170.5	219.7	171.7	176.7	187.7	172.4	183.1	200.0	230.5	171.0	228.3	169.2	199.8	197.2
6	REH 2001	212.1	231.6	184.0	171.0	227.0	198.3	168.3	211.7	178.4	192.5	196.7	272.4	186.3	230.0	148.1	206.7	199.7
7	REH 2002	198.0	228.9	184.1	165.5	209.7	148.3	145.0	215.7	186.1	178.4	190.0	217.1	176.0	238.3	132.0	190.7	188.3
8	REH 2003	230.7	229.1	191.3	164.0	223.3	155.0	171.7	223.7	179.0	186.1	205.0	210.4	185.0	246.7	151.4	199.7	198.8
	CHECKS																	
9	JH-3459	206.9	220.3	173.7	167.5	191.0	126.7	135.0	195.3	163.7	163.2	156.7	188.8	168.0	201.7	137.1	170.4	172.4
10	Prakash	229.1	232.7	184.3	168.0	204.0	158.3	133.3	188.0	173.6	170.9	190.0	198.6	173.0	233.3	143.5	187.7	186.7
	Loc. Mean	209.1	228.3	181.7	168.3	206.9	155.8	150.5	198.2	171.9	175.3	187.7	210.5	175.1	223.0	147.8	188.8	187.0
	C.D. (5%)	18.54	20.17	11.10	22.21	32.79	12.40	25.97	25.42	6.84	13.03	11.23	13.89	22.93	12.52	9.09	16.60	5.79
	C.V. (%)	5.17	5.15	5.25	7.69	9.24	4.64	10.06	7.48	2.32	6.39	3.49	3.85	7.63	3.27	3.59	6.85	5.78
	F (Prob.)	0.00	0.84	0.00	0.85	0.06	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.00

Table No. 7 (Continued)

Sl No	PEDIGREE	EAR HEIGHT(cm)														
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	BHUB	VARA	RANC
1	FH 3506	118.3	93.3	47.2	118.3	77.2	90.9	76.0	86.7	87.3	168.0	104.5	60.7	59.7	72.5	78.2
2	JH 31236 (2R)	125.0	105.0	69.5	135.0	127.1	112.3	98.7	90.0	90.7	163.7	110.8	73.0	58.4	77.5	111.3
3	85-08-11 (2009)	120.0	103.3	72.9	127.3	107.1	106.1	102.3	106.7	100.7	158.7	117.1	89.3	61.2	81.3	102.3
4	KH-9560	133.3	111.7	64.8	154.3	107.5	114.3	102.3	110.0	109.3	166.0	121.9	93.3	62.7	80.0	107.6
5	BIO-605	141.7	110.0	90.2	131.0	123.5	119.3	100.3	83.3	104.7	169.0	114.3	77.7	68.9	101.3	108.5
6	REH 2001	131.7	110.0	73.5	133.7	134.3	116.6	100.7	93.3	101.0	183.7	119.7	81.0	61.2	82.5	105.6
7	REH 2002	110.0	88.3	56.8	105.3	106.7	93.4	97.7	96.7	99.3	189.0	120.7	83.7	60.9	88.8	85.4
8	REH 2003	128.3	127.3	72.3	134.0	124.7	117.3	99.7	83.3	99.0	184.0	116.5	94.0	64.5	130.0	117.4
	CHECKS															
9	JH-3459	108.3	95.0	67.3	121.0	99.4	98.2	96.7	86.7	99.3	163.3	111.5	83.0	47.3	76.3	106.7
10	Prakash	121.7	116.7	65.5	127.7	119.4	110.2	108.7	66.7	107.0	164.3	111.7	66.7	51.1	76.3	114.2
	Loc. Mean	123.8	106.1	68.0	128.8	112.7	107.9	98.3	90.3	99.8	171.0	114.9	80.2	59.6	86.6	103.7
	C.D. (5%)	7.72	18.65	4.93	13.75	12.90	10.80	10.06	35.86	11.72	3.05	13.70	22.86	4.66	32.22	13.18
	C.V. (%)	3.64	10.25	4.23	6.23	6.67	7.81	5.96	23.14	6.84	1.04	8.22	16.61	4.56	21.68	7.40
	F (Prob.)	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.44	0.03	0.00	0.28	0.09	0.00	0.04	0.00

Sl No	PEDIGREE	EAR HEIGHT(cm)													
		AMBI	ZN 3 Mean	ARBH	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean
1	FH 3506	70.1	68.2	75.5	46.7	65.0	88.3	76.7	70.4	85.0	80.5	73.0	86.7	81.3	82.2
2	JH 31236 (2R)	83.9	80.8	92.0	48.3	80.0	90.3	98.2	81.8	75.0	107.0	88.0	103.3	93.3	95.3
3	85-08-11 (2009)	75.9	82.0	89.0	51.7	83.3	100.3	97.3	84.3	90.0	104.2	76.0	100.0	92.5	95.7
4	KH-9560	88.1	86.3	86.5	50.0	73.3	98.7	87.5	79.2	85.0	113.7	77.3	103.3	94.8	98.5
5	BIO-605	83.5	88.0	86.5	58.3	88.3	95.7	91.2	84.0	95.0	116.2	76.7	118.3	101.5	100.9
6	REH 2001	80.0	82.1	89.0	75.0	85.0	105.0	92.5	89.3	78.3	113.7	88.0	116.7	99.2	100.7
7	REH 2002	75.8	78.9	89.5	43.3	65.0	105.3	88.8	78.4	85.0	110.5	83.7	123.3	100.6	93.0
8	REH 2003	75.6	96.3	49.5	51.7	78.3	108.7	99.0	77.4	100.0	98.8	86.3	125.0	102.5	101.4
	CHECKS														
9	JH-3459	80.7	78.8	88.0	45.0	73.3	96.0	93.7	79.2	81.7	104.6	72.0	100.0	89.6	90.7
10	Prakash	89.1	79.5	88.5	53.3	66.7	89.7	94.9	78.6	83.3	107.4	89.3	118.3	99.6	95.1
	Loc. Mean	80.3	82.1	83.4	52.3	75.8	97.8	92.0	80.3	85.8	105.7	81.0	109.5	95.5	95.3
	C.D. (5%)	12.48	12.59	13.75	6.52	16.42	16.59	3.25	10.80	8.07	7.96	15.96	11.23	11.51	5.32
	C.V. (%)	9.06	11.96	9.61	7.26	12.62	9.89	2.06	10.49	5.48	4.39	11.48	5.98	8.31	9.60
	F (Prob.)	0.09	0.02	0.00	0.00	0.06	0.18	0.00	0.11	0.00	0.00	0.20	0.00	0.02	0.00

Table No. 7 (Continued)

GRAIN SHELLING %																		
Sl No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2						
							Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC	
1	FH 3506	84.4	82.0	77.4	86.5	80.3	82.1	82.8	80.0	86.7	85.0	74.0	81.7	80.8	78.5	77.5	85.2	
2	JH 31236 (2R)	87.6	84.4	84.0	84.5	80.5	84.2	85.9	75.0	87.6	76.9	75.7	80.2	80.9	77.3	80.0	85.1	
3	85-08-11 (2009)	86.4	84.8	83.1	86.5	79.0	84.0	84.6	72.0	87.0	88.0	75.3	81.4	81.1	78.8	75.0	84.2	
4	KH-9560	85.3	88.1	81.2	85.0	79.6	83.8	85.0	74.0	86.7	82.4	75.0	80.6	73.9	78.0	76.5	84.7	
5	BIO-605	86.7	85.3	82.9	84.0	81.2	84.0	84.6	76.0	87.0	87.5	75.3	82.1	75.4	77.9	75.5	85.3	
6	REH 2001	84.7	83.3	82.9	86.0	77.1	82.8	83.0	78.0	86.1	84.6	74.0	81.1	79.3	78.8	75.5	84.7	
7	REH 2002	84.3	82.2	77.7	86.0	76.6	81.3	81.3	76.0	84.6	84.6	75.0	80.3	75.0	76.6	75.0	83.1	
8	REH 2003	83.7	84.8	83.6	79.0	76.6	81.5	81.1	73.0	85.1	83.3	74.3	79.4	77.3	77.2	76.0	83.5	
CHECKS																		
9	JH-3459	84.0	83.3	80.1	86.0	76.1	81.9	85.1	76.0	86.5	76.9	75.3	80.0	80.9	79.9	76.8	84.6	
10	Prakash	87.4	86.4	82.1	79.0	81.7	83.3	87.0	78.0	87.0	86.7	75.3	82.8	80.0	77.1	81.5	84.5	
	Loc. Mean	85.4	84.5	81.5	84.3	78.9	82.9	84.0	75.8	86.4	83.6	74.9	81.0	78.4	78.0	76.9	84.5	
	C.D. (5%)	1.21	0.00	1.96	3.50	4.31	2.72	1.60	-	1.37	0.00	0.92	2.92	1.77	-	1.12	1.28	
	C.V. (%)	0.82	0.00	1.40	2.42	3.19	2.55	1.11	-	0.93	0.00	0.71	2.81	1.31	-	0.85	0.89	
	F (Prob.)	0.00	0.00	0.00	0.00	0.09	0.25	0.00	-	0.01	0.00	0.01	0.41	0.00	0.00	0.00	0.03	
Sl No	PEDIGREE	AMBI	ZN 3							ZN 4						ZN 5	OV'L	
			Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean	
1	FH 3506	83.4	81.1	84.3	80.6	86.6	85.5	78.3	84.1	83.2	85.1	69.2	83.6	81.2	80.8	80.0	81.7	
2	JH 31236 (2R)	83.5	81.4	87.7	72.6	88.7	84.1	80.4	84.2	82.9	83.9	68.8	83.8	87.3	83.9	81.5	82.1	
3	85-08-11 (2009)	80.0	79.8	85.3	74.4	85.1	85.9	82.3	81.6	82.4	84.9	70.8	79.1	75.4	78.9	77.8	81.1	
4	KH-9560	85.6	79.7	86.2	76.9	86.7	84.1	79.4	85.6	83.1	81.4	70.6	79.6	81.1	82.4	79.0	81.3	
5	BIO-605	78.2	78.4	85.1	77.6	85.2	85.7	81.7	84.0	83.2	85.0	70.1	80.0	85.8	78.7	79.9	81.6	
6	REH 2001	81.5	80.0	83.7	74.1	85.9	86.7	79.1	84.3	82.3	85.0	71.1	78.5	82.3	78.0	79.0	81.1	
7	REH 2002	80.5	78.0	85.4	70.1	81.9	87.0	80.1	82.8	81.2	81.8	69.1	77.5	76.9	81.5	77.4	79.7	
8	REH 2003	79.3	78.7	84.8	73.3	87.0	75.6	81.0	77.8	79.9	82.5	69.1	74.4	80.7	77.2	76.8	79.3	
CHECKS																		
9	JH-3459	83.5	81.1	84.1	70.6	85.2	86.5	80.4	82.7	81.6	85.8	69.5	80.7	82.3	80.2	79.7	80.9	
10	Prakash	82.7	81.1	87.0	77.7	83.2	85.7	79.2	85.6	83.1	88.1	70.6	78.7	86.5	83.6	81.5	82.4	
	Loc. Mean	81.8	79.9	85.3	74.8	85.6	84.7	80.2	83.2	82.3	84.3	69.9	79.6	82.0	80.5	79.3	81.1	
	C.D. (5%)	5.22	2.21	1.12	3.52	2.10	3.19	2.03	1.38	2.74	1.17	1.24	2.96	3.64	3.34	2.87	1.16	
	C.V. (%)	3.72	2.16	0.76	2.74	1.43	2.19	1.47	0.97	2.86	0.81	1.03	2.17	2.59	2.42	2.82	2.62	
	F (Prob.)	0.16	0.02	0.00	0.00	0.00	0.00	0.01	0.00	0.26	0.00	0.01	0.00	0.00	0.00	0.02	0.00	

Table No. 7 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)																															
		ALMO					BAJA					BARA					KANG	UDHA	ZN 1					Mean	ZN 2					Mean	BAHR	DHOL	BHUB
1	FH 3506	65.6	73.6	27.4	58.0	49.7	54.9	57.2	59.8	74.2	56.7	62.2	62.0	63.7	56.9	68.8	66.0	65.2															
2	JH 31236 (2R)	65.3	78.2	32.6	68.1	53.1	59.5	60.6	59.5	74.2	51.9	63.1	61.9	63.4	55.3	68.8	66.0	64.9															
3	85-08-11 (2009)	63.5	84.7	44.4	59.7	43.1	59.1	48.3	53.0	64.7	49.2	63.3	55.7	64.7	56.4	65.6	69.1	59.5															
4	KH-9560	64.9	75.0	41.0	54.2	46.9	56.4	52.5	57.4	64.7	59.2	64.4	59.7	66.1	55.3	68.8	70.1	61.9															
5	BIO-605	62.8	71.3	46.2	53.8	40.6	55.0	49.4	53.6	72.6	56.1	63.9	59.1	65.4	54.2	69.4	67.0	56.3															
6	REH 2001	63.9	64.4	47.2	70.5	46.9	58.6	50.0	57.4	70.5	55.0	61.7	58.9	64.7	56.1	69.1	63.2	61.0															
7	REH 2002	60.4	65.7	28.5	63.2	42.0	52.0	39.4	56.5	62.9	33.1	63.3	51.1	64.4	50.8	64.9	64.6	50.0															
8	REH 2003	62.2	66.2	37.5	66.0	44.1	55.2	45.6	54.8	65.6	53.3	62.2	56.3	67.1	54.2	67.7	68.1	50.9															
	CHECKS																																
9	JH-3459	63.5	73.1	28.5	60.8	43.8	53.9	53.3	57.7	69.3	59.4	63.6	60.7	68.5	55.6	67.0	67.4	57.4															
10	Prakash	63.5	69.9	27.8	70.8	43.8	55.2	49.7	59.2	75.1	60.8	62.8	61.5	64.4	55.3	68.8	72.6	58.0															
	Loc. Mean	63.6	72.2	36.1	62.5	45.4	56.0	50.6	56.9	69.4	53.5	63.1	58.7	65.3	55.0	67.9	67.4	58.5															
	C.D. (5%)	3.56	6.97	5.01	10.04	11.51	7.35	7.77	5.87	5.54	12.60	1.46	5.26	3.16	5.78	3.04	10.69	6.94															
	C.V. (%)	3.26	5.62	8.09	9.37	14.78	10.24	8.95	6.01	4.66	13.74	1.35	6.99	2.82	6.13	2.61	9.25	6.91															
	F (Prob.)	0.17	0.00	0.00	0.01	0.50	0.54	0.00	0.22	0.00	0.01	0.02	0.00	0.07	0.65	0.07	0.80	0.00															

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)															
		AMBI	ZN 3		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4		UDAI	BANS	GODH	CHHI	JHAB
1	FH 3506	54.2	62.5	59.7	54.4	56.9	82.6	60.1	66.7	63.4	81.9	64.2	82.6	63.9	57.6	70.1	62.6
2	JH 31236 (2R)	59.4	62.9	61.1	53.3	58.1	81.6	60.4	66.3	63.5	82.3	70.8	82.6	66.7	59.4	72.4	64.0
3	85-08-11 (2009)	46.5	60.3	59.7	53.6	58.9	72.6	58.3	66.3	61.6	79.9	64.9	79.5	64.7	57.3	69.3	61.2
4	KH-9560	45.8	61.3	61.7	52.5	61.1	76.4	57.1	66.7	62.6	80.6	64.9	74.0	65.6	66.0	70.2	62.0
5	BIO-605	61.5	62.3	61.1	53.9	60.3	76.7	58.0	66.7	62.8	79.2	68.4	79.9	66.7	56.9	70.2	61.9
6	REH 2001	55.6	61.6	60.8	50.6	58.3	79.9	58.9	66.3	62.5	81.3	62.5	80.9	65.0	61.5	70.2	62.3
7	REH 2002	38.2	55.5	59.2	48.9	57.5	81.3	60.7	66.3	62.3	78.5	63.9	69.8	61.1	48.6	64.4	57.2
8	REH 2003	42.0	58.3	60.8	53.6	59.2	81.3	63.4	66.3	64.1	76.4	62.2	27.8	66.7	56.9	58.0	58.6
	CHECKS																
9	JH-3459	52.4	61.4	61.7	53.9	60.6	76.7	58.6	66.0	62.9	78.5	66.7	78.1	62.2	52.1	67.5	61.3
10	Prakash	64.2	63.9	55.8	55.0	58.6	83.3	59.2	66.0	63.0	78.8	67.4	82.3	66.7	55.6	70.1	62.8
	Loc. Mean	52.0	61.0	60.2	53.0	58.9	79.2	59.5	66.4	62.9	79.7	65.6	73.8	64.9	57.2	68.2	61.4
	C.D. (5%)	11.06	4.66	9.67	4.55	4.56	7.83	7.30	0.85	2.36	4.14	6.58	5.75	3.45	6.88	9.68	2.64
	C.V. (%)	12.40	6.57	9.37	5.01	4.51	5.76	7.16	0.75	3.23	3.03	5.84	4.54	3.10	7.01	11.06	8.02
	F (Prob.)	0.00	0.03	0.97	0.22	0.64	0.16	0.84	0.62	0.69	0.16	0.22	0.00	0.03	0.00	0.17	0.00

TABLE No.8

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI, KANGRA, UDHAMPUR, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, BHUBANESHWAR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA, JHABUA IN AET 1st YEAR, TRIAL No. TR68 DURING KHARIF (2010).

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
S1												ZN 1									
No	PEDIGREE	ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R
1	FH 3478	8385	4	9185	2	2082	8	9710	1	1814	8	6235	3	4718	5	4471	6	5616	5	6841	7
2	FH 3483	9236	1	10746	1	4217	2	9648	2	2229	5	7215	1	7240	1	5106	3	7464	1	7677	6
3	FH 3487	7822	6	8620	4	2495	5	7883	4	2092	7	5783	5	5818	2	5536	1	6598	2	9115	1
4	FH 3488	8952	2	7974	5	2494	6	8518	3	2379	4	6063	4	5275	3	4211	7	6014	4	7884	2
5	DH-179	5730	8	6900	8	3513	3	5852	8	2574	2	4914	8	3846	8	3877	8	3961	8	5777	8
6	DH-177	7268	7	7418	7	2835	4	6890	7	2105	6	5303	7	4935	4	4709	4	5303	6	7837	3
CHECKS																					
7	Vivek QPM 9	7972	5	9128	3	4796	1	6955	5	2452	3	6261	2	4569	6	5477	2	6162	3	7704	5
8	Vivek Hybrid 9	8518	3	7753	6	2123	7	6914	6	2628	1	5587	6	4221	7	4505	5	5125	7	7799	4
	Location Mean	7985		8466		3069		7796		2284		5920		5078		4737		5780		7579	
	Mean Stand	61		56		41		64		40		52		67		74		78		54	
	C.D. (5%)	965		1306		726		1235		373		921		1271		641		2447		2167	
	C.V. (%)	6.85		8.75		13.41		8.98		9.25		-		14.19		7.67		24		16.21	
	F (Prob)	0		0		0		0.005		0.044		-		0.001		0		0.001		0.029	
	Plot Size	9.6		8.4		9.6		9.6		9.6		-		11.2		11.2		10.92		12	
AGRONOMY DATA																					
	Sowing Date	28-06		19-06		15-06		22-06		30-06		-		12-07		26-06		24-06		16-06	
	Harvest Date	21-10		12-10		16-09		15-10		27-09		-		15-10		27-09		2-10		28-09	
	Irrigation Nos	-		3		-		-		-		-		-		4		3		-	
	Fertilizer Applied N	80		120		80		120		80		-		150		150		80		120	
	Fertilizer Applied P	60		60		60		60		60		-		75		60		40		60	
	Fertilizer Applied K	40		40		40		40		40		-		75		60		-		40	
LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : LUDH 24.0 %: DHOL 25.5 %																					

TABLE No.8 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																								
		KANP		ZN 2 MEAN		BAHR		DHOL		BHUB		VARA		RANC		AMBI		ZN 3 MEAN		ARBH		HYDE		KARI		
1	FH 3478	2962	5	4748	7	6556	3	1635	8	4723	3	4392	2	7097	4	6938	1	5941	2	7823	5	7108	4	3922	6	
2	FH 3483	4047	2	6018	1	7945	1	3063	1	4812	2	4528	1	7744	1	5839	3	6174	1	8543	3	6543	7	3953	5	
3	FH 3487	2950	6	5855	2	6361	5	2943	2	5052	1	3482	6	7178	3	6270	2	5669	3	7343	7	7600	2	3648	7	
4	FH 3488	2562	7	4983	5	5649	8	2490	3	3978	7	4121	3	7195	2	5677	5	5324	5	7458	6	8027	1	4461	2	
5	DH-179	3328	4	4207	8	6548	4	1782	7	4601	4	2561	8	4494	8	5458	6	4733	8	6361	8	7247	3	4352	3	
6	DH-177	2500	8	4995	4	6045	7	1843	6	4215	5	3812	5	6322	7	4856	8	5050	7	9009	1	7074	5	4043	4	
CHECKS																										
7	Vivek QPM 9	4306	1	5514	3	6186	6	2266	4	3970	8	3174	7	6691	5	5450	7	5095	6	8037	4	6885	6	4853	1	
8	Vivek Hybrid 9	3349	3	4969	6	6654	2	2087	5	4159	6	4067	4	6423	6	5759	4	5412	4	9007	2	6339	8	3047	8	
	Location Mean	3251		5161		6493		2264		4439		3767		6643		5781		5425		7948		7103		4035		
	Mean Stand	74		67		63		42		65		60		63		59		62		74		65		72		
	C.D. (5%)	246		1081		549		1019		232		701		801		1652		787		2219		1390		847		
	C.V. (%)	4.28		-		4.79		25.53		2.97		10.55		6.84		16.2		-		15.83		11.09		11.9		
	F (Prob)	0		-		0		0.018		0		0		0.007		0.22		-		0.524		0.117		0.012		
	Plot Size	12		-		9.6		12		9.6		9.6		11.2		9.6		-		12		12		12		
AGRONOMY DATA																										
	Sowing Date	14-07		-		17-07		10-07		6-07		13-07		28-06		5-07		-		14-07		19-06		16-07		
	Harvest Date	30-11		-		22-10		-		9-10		10-10		7-10		-		-		30-10		15-10		-		
	Irrigation Nos	-		-		-		-		-		1		-		-		-		3		-		-		
	Fertilizer Applied N	120		-		120		150		120		100		120		100		-		150		180		200		
	Fertilizer Applied P	60		-		60		70		60		40		60		50		-		75		60		80		
	Fertilizer Applied K	40		-		60		50		60		40		40		30		-		37.5		50		60		

TABLE No.8 (CONT..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																					
		KOLH		MAND		COIM		ZN 4 MEAN		UDAI		BANS		GODH		CHHI		JHAB		ZN 5 MEAN		OV'L MEAN	
1	FH 3478	7994	2	5826	5	8141	3	6802	2	3489	8	5385	6	3663	4	8714	3	3880	2	5026	5	5833	3
2	FH 3483	8426	1	5847	3	9102	2	7069	1	3993	6	5822	2	3721	3	8789	1	4464	1	5358	1	6409	1
3	FH 3487	7368	3	5521	8	9245	1	6787	3	4014	4	5535	5	4059	2	7540	6	3318	4	4893	6	5835	2
4	FH 3488	6789	5	5964	1	7585	4	6714	4	3997	5	5693	4	4563	1	8076	5	3263	5	5119	3	5710	5
5	DH-179	5443	8	5834	4	5640	8	5813	8	4089	3	4950	7	2595	8	6402	8	2701	8	4147	7	4827	8
6	DH-177	5531	7	5714	7	6895	6	6378	6	3876	7	-	-	2819	7	7081	7	2747	7	4131	8	5272	7
CHECKS																							
7	Vivek QPM 9	7092	4	5871	2	6707	7	6574	5	4099	2	6599	1	3401	6	8788	2	3041	6	5186	2	5768	4
8	Vivek Hybrid 9	6560	6	5746	6	7437	5	6356	7	4190	1	5804	3	3641	5	8268	4	3372	3	5055	4	5531	6
	Location Mean	6901		5790		7594		6562		3968		5684		3558		7957		3348		4903		5650	
	Mean Stand	77		66		64		70		75		60		79		78		60		70		64	
	C.D. (5%)	1221		1169		502		1225		249		589		616		719		511		537		916	
	C.V. (%)	10.04		11.44		3.75		-		3.56		5.76		9.82		5.12		8.66		-		-	
	F (Prob)	0.001		0.994		0		-		0.121		0.001		0		0		0		-		-	
	Plot Size	9.6		11.2		9.6		-		9.6		9.6		14.4		12		9.6		-		-	
AGRONOMY DATA																							
	Sowing Date	9-07		13-07		6-07		-		4-07		9-07		7-07		28-06		8-07		-		-	
	Harvest Date	4-12		2-12		16-10		-		11-10		23-10		12-10		26-10		7-10		-		-	
	Irrigation Nos	-		6		9		-		-		1		-		-		-		-		-	
	Fertilizer Applied N	100		150		150		-		90		120		100		120		100		-		-	
	Fertilizer Applied P	50		75		75		-		60		40		50		60		50		-		-	
	Fertilizer Applied K	30		40		75		-		-		-		50		40		40		-		-	

TABLE No. 8 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9																		
Sl		ZN 1							ZN 2									
No	PEDIGREEE	ALMO	BAJA	BARA	KANG	UDHA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3478	5.2	0.6	-	39.6	-	-	3.3	-	-	-	-	-	6	-	18.9	38.4	6.1
2	FH 3483	15.8	17.7	-	38.7	-	15.2	58.5	-	21.1	-	-	9.1	28.4	35.2	21.2	42.6	15.7
3	FH 3487	-	-	-	13.3	-	-	27.3	1.1	7.1	18.3	-	6.2	2.8	29.9	27.3	9.7	7.3
4	FH 3488	12.3	-	-	22.5	-	-	15.4	-	-	2.3	-	-	-	9.9	0.2	29.8	7.5
5	DH-179	-	-	-	-	5	-	-	-	-	-	-	-	5.8	-	15.9	-	-
6	DH-177	-	-	-	-	-	-	8	-	-	1.7	-	-	-	-	6.2	20.1	-
	CHECKS																	
7	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Vivek Hybrid	6.8	-	-	-	7.2	-	-	-	-	1.2	-	-	7.6	-	4.7	28.1	-

GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9																	
Sl		ZN 3					ZN 4					ZN 5			OV'L		
No	PEDIGREEE	AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN
1	FH 3478	27.3	16.6	-	3.2	-	12.7	-	21.4	3.5	-	-	7.7	-	27.6	-	1.1
2	FH 3483	7.1	21.2	6.3	-	-	18.8	-	35.7	7.5	-	-	9.4	0	46.8	3.3	11.1
3	FH 3487	15	11.3	-	10.4	-	3.9	-	37.8	3.2	-	-	19.3	-	9.1	-	1.2
4	FH 3488	4.2	4.5	-	16.6	-	-	1.6	13.1	2.1	-	-	34.2	-	7.3	-	-
5	DH-179	0.1	-	-	5.3	-	-	-	-	-	-	-	-	-	-	-	-
6	DH-177	-	-	12.1	2.8	-	-	-	2.8	-	-	-	-	-	-	-	-
	CHECKS																
7	Vivek QPM 9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	Vivek Hybrid	5.7	6.2	12.1	-	-	-	-	10.9	-	2.2	-	7	-	10.9	-	-

GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9																		
Sl		ZN 1							ZN 2									
No	PEDIGREEE	ALMO	BAJA	BARA	KANG	UDHA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3478	-	18.5	-	40.4	-	11.6	11.8	-	9.6	-	-	-	-	-	13.6	8	10.5
2	FH 3483	8.4	38.6	98.6	39.5	-	29.1	71.5	13.3	45.7	-	20.8	21.1	19.4	46.7	15.7	11.3	20.6
3	FH 3487	-	11.2	17.5	14	-	3.5	37.8	22.9	28.7	16.9	-	17.8	-	41	21.5	-	11.8
4	FH 3488	5.1	2.9	17.4	23.2	-	8.5	25	-	17.4	1.1	-	0.3	-	19.3	-	1.3	12
5	DH-179	-	-	65.4	-	-	-	-	-	-	-	-	-	-	-	10.6	-	-
6	DH-177	-	-	33.5	-	-	-	16.9	4.5	3.5	0.5	-	0.5	-	-	1.3	-	-
	CHECKS																	
7	Vivek QPM 9	-	17.7	125.9	0.6	-	12.1	8.2	21.6	20.2	-	28.6	11	-	8.6	-	-	4.2
8	Vivek Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 8 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9																		
Sl		ZN 3					ZN 4					ZN 5			OV'L			
No	PEDIGREE	AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	GODH	CHHI	JHAB	MEAN	MEAN	
1	FH 3478	20.5	9.8	-	12.1	28.7	21.9	1.4	9.5	7	-	-	0.6	5.4	15.1	-	5.4	
2	FH 3483	1.4	14.1	-	3.2	29.7	28.4	1.8	22.4	11.2	-	0.3	2.2	6.3	32.4	6	15.9	
3	FH 3487	8.9	4.7	-	19.9	19.7	12.3	-	24.3	6.8	-	-	11.5	-	-	-	5.5	
4	FH 3488	-	-	-	26.6	46.4	3.5	3.8	2	5.6	-	-	25.3	-	-	1.3	3.2	
5	DH-179	-	-	-	14.3	42.9	-	1.5	-	-	-	-	-	-	-	-	-	
6	DH-177	-	-	0	11.6	32.7	-	-	-	0.3	-	-	-	-	-	-	-	
CHECKS																		
7	Vivek QPM 9	-	-	-	8.6	59.3	8.1	2.2	-	3.4	-	13.7	-	6.3	-	2.6	4.3	
8	Vivek Hybrid	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
DAYS TO 50% SILKING																		
Sl		ZN 1					ZN 2											
No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3478	52.3	54.3	53.0	49.0	59.0	53.5	50.0	49.7	46.7	51.7	49.3	49.5	46.0	50.0	47.0	49.7	49.0
2	FH 3483	53.7	58.7	53.0	50.3	62.3	55.6	51.0	49.7	48.0	54.0	45.0	49.5	47.0	50.0	46.0	50.3	50.0
3	FH 3487	53.0	57.7	55.0	48.0	59.7	54.7	48.7	51.3	46.0	52.0	43.3	48.3	49.3	50.7	46.3	53.7	49.3
4	FH 3488	51.3	55.7	54.0	49.0	58.3	53.7	49.7	49.3	46.0	52.7	48.0	49.1	47.3	49.7	47.0	53.3	49.0
5	DH-179	49.7	54.3	54.0	47.7	57.0	52.5	46.3	47.3	41.0	50.3	50.3	47.1	44.3	49.0	47.0	45.3	43.3
6	DH-177	52.7	57.0	53.0	49.0	59.3	54.2	49.0	48.0	45.3	53.3	45.0	48.1	49.0	49.3	48.0	51.7	49.0
CHECKS																		
7	Vivek QPM 9	49.3	53.7	53.0	46.3	59.0	52.3	48.0	48.0	43.0	51.7	48.0	47.7	48.3	50.0	45.7	51.0	46.0
8	Vivek Hybrid	49.7	56.7	53.0	46.7	57.0	52.6	48.7	48.7	43.7	52.0	47.0	48.0	50.3	50.7	46.0	51.3	45.3
	Loc. Mean	51.5	56.0	53.5	48.3	59.0	53.6	48.9	49.0	45.0	52.2	47.0	48.4	47.7	49.9	46.6	50.8	47.6
	C.D. (5%)	1.41	2.94	-	1.73	1.43	1.40	2.12	3.89	1.65	2.34	1.26	2.22	1.55	1.96	2.20	1.50	1.40
	C.V. (%)	1.57	3.00	-	2.05	1.38	2.01	2.48	4.54	2.09	2.56	1.53	3.54	1.86	2.25	2.69	1.69	1.68
	F (Prob.)	0.00	0.02	-	0.00	0.00	0.00	0.01	0.48	0.00	0.11	0.00	0.28	0.00	0.59	0.41	0.00	0.00
DAYS TO 50% SILKING																		
Sl		ZN 3					ZN 4					ZN 5			OV'L			
No	PEDIGREE	AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean	
1	FH 3478	47.7	48.2	50.0	48.3	51.3	52.3	47.7	49.0	49.8	49.3	40.0	46.7	48.0	47.3	46.3	49.4	
2	FH 3483	48.7	48.7	50.7	51.7	51.3	54.7	49.0	50.0	51.2	49.0	38.7	48.0	47.7	48.0	46.3	50.2	
3	FH 3487	48.7	49.7	51.7	53.3	46.7	52.0	48.3	49.3	50.2	48.3	37.3	47.0	48.0	46.7	45.5	49.7	
4	FH 3488	47.0	48.9	51.0	52.0	44.3	52.7	47.3	49.7	49.5	48.0	39.3	46.3	47.3	47.0	45.6	49.3	
5	DH-179	46.0	45.8	50.3	50.0	42.3	51.0	48.0	46.0	47.9	47.0	39.0	44.7	45.0	46.3	44.4	47.5	
6	DH-177	48.0	49.2	52.0	49.7	43.0	53.7	47.3	49.7	49.2	51.7	-	45.3	47.7	46.3	47.8	49.7	
CHECKS																		
7	Vivek QPM 9	46.3	47.9	50.7	49.0	45.3	53.7	46.3	47.3	48.7	51.0	38.0	47.0	47.0	47.0	46.0	48.5	
8	Vivek Hybrid	46.3	48.3	52.7	48.7	50.0	53.3	50.0	47.0	50.3	48.0	37.7	45.7	46.7	48.3	45.3	48.9	
	Loc. Mean	47.3	48.3	51.1	50.3	46.8	52.9	48.0	48.5	49.6	49.0	33.8	46.3	47.2	47.1	45.9	49.2	
	C.D. (5%)	1.34	1.69	2.90	1.97	1.81	2.26	5.94	0.60	2.11	1.32	1.55	2.18	1.33	1.52	2.22	2.08	
	C.V. (%)	1.62	2.98	3.24	2.24	2.21	2.44	7.07	0.71	3.63	1.53	2.62	2.69	1.61	1.84	3.74	3.33	
	F (Prob.)	0.00	0.00	0.53	0.00	0.00	0.08	0.93	0.00	0.10	0.00	0.00	0.10	0.00	0.11	0.17	0.00	

Table No. 8 (Continued)

DAYS TO 50% POLLEN SHED																	
Sl No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3478	51.7	51.3	52.0	46.0	54.0	51.0	47.7	47.0	45.3	44.3	46.1	44.3	48.0	44.0	46.0	45.0
2	FH 3483	52.7	56.3	52.0	47.0	58.0	53.2	49.0	47.0	47.0	40.3	45.8	45.7	48.0	43.0	46.3	46.0
3	FH 3487	52.7	55.0	54.0	45.0	55.3	52.4	46.3	48.7	44.7	38.3	44.5	47.3	48.0	44.3	49.0	45.3
4	FH 3488	50.0	52.7	53.0	45.3	53.7	50.9	46.0	47.0	45.0	43.3	45.3	45.3	48.0	44.7	47.0	44.3
5	DH-179	49.0	51.3	53.0	44.7	53.0	50.2	44.0	45.0	40.0	45.3	43.6	42.7	47.7	44.0	41.0	39.3
6	DH-177	51.7	54.3	52.0	46.0	55.0	51.8	47.0	45.7	44.3	40.3	44.3	47.7	48.0	45.3	46.3	44.3
CHECKS																	
7	Vivek QPM 9	49.0	51.3	52.0	43.3	54.0	49.9	45.3	45.3	42.0	43.7	44.1	47.0	49.0	42.0	44.0	42.0
8	Vivek Hybrid	49.3	53.7	52.0	43.7	53.0	50.3	45.3	45.0	42.7	42.0	43.8	48.3	49.3	43.0	46.0	41.3
	Loc. Mean	50.8	53.3	52.5	45.1	54.5	51.2	46.3	46.3	43.9	42.2	44.7	46.0	48.3	43.8	45.7	43.5
	C.D. (5%)	1.37	2.73	-	1.95	1.50	1.35	2.17	3.70	1.46	0.95	2.82	1.33	2.00	1.44	1.22	1.50
	C.V. (%)	1.54	2.92	-	2.47	1.58	2.03	2.68	4.56	1.89	1.28	4.29	1.65	2.37	1.87	1.52	1.97
	F (Prob.)	0.00	0.01	-	0.02	0.00	0.00	0.01	0.40	0.00	0.00	0.47	0.00	0.61	0.00	0.00	0.00
DAYS TO 50% POLLEN SHED																	
Sl No	PEDIGREE	AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean	
1	FH 3478	45.0	45.4	49.7	46.3	45.7	51.3	46.7	47.3	47.8	47.3	36.7	44.3	46.7	43.8	46.9	
2	FH 3483	46.3	45.9	49.3	48.7	48.3	53.7	47.0	48.0	49.2	46.7	35.7	45.0	47.0	43.6	47.8	
3	FH 3487	46.0	46.7	50.0	49.7	43.7	51.0	46.3	47.3	48.0	46.3	34.3	44.0	47.0	42.9	47.2	
4	FH 3488	44.3	45.6	49.3	49.3	41.7	51.7	45.7	48.0	47.6	45.7	36.0	43.7	45.7	42.8	46.7	
5	DH-179	43.3	43.0	49.7	47.0	39.3	50.0	46.3	44.0	46.1	44.7	36.0	42.3	44.3	41.8	45.1	
6	DH-177	45.0	46.1	50.3	48.0	40.0	52.7	45.7	47.7	47.4	49.0	-	43.0	47.3	46.4	47.4	
CHECKS																	
7	Vivek QPM 9	44.0	44.7	49.7	46.0	43.3	52.7	44.7	45.3	46.9	48.7	35.0	43.7	45.7	43.3	45.9	
8	Vivek Hybrid	43.3	45.2	51.0	48.0	47.3	52.3	45.3	45.0	48.2	46.0	33.7	43.0	45.0	41.9	46.2	
	Loc. Mean	44.7	45.3	49.9	47.9	43.7	51.9	46.0	46.6	47.6	46.8	30.9	43.6	46.1	43.3	46.6	
	C.D. (5%)	0.75	1.64	2.55	1.47	3.16	2.26	2.30	0.68	1.84	1.14	1.18	1.78	1.70	2.95	0.91	
	C.V. (%)	0.96	3.09	2.92	1.76	4.13	2.49	2.85	0.83	3.29	1.39	2.18	2.33	2.11	4.63	3.51	
	F (Prob.)	0.00	0.00	0.86	0.00	0.00	0.08	0.46	0.00	0.08	0.00	0.00	0.12	0.02	0.09	0.00	

Table No. 8 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK															
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1 Mean	DELH	KARN	LUDH	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	FH 3478	93.7	86.7	95.0	87.3	82.3	89.0	94.0	82.3	75.7	73.0	81.3	81.3	81.0	80.7	79.7	83.7
2	FH 3483	96.3	90.3	95.0	88.0	84.3	90.8	98.3	82.3	77.0	71.7	82.3	83.0	82.3	81.7	83.0	85.0
3	FH 3487	96.7	91.0	96.0	86.0	83.7	90.7	98.7	82.3	77.3	69.0	81.8	82.7	85.7	79.7	86.7	84.3
4	FH 3488	93.7	90.3	96.0	87.0	83.7	90.1	94.3	80.3	77.7	71.7	81.0	83.3	87.0	81.0	87.0	83.7
5	DH-179	92.0	85.7	96.0	85.7	81.3	88.1	92.7	79.3	72.7	75.0	79.9	79.7	80.7	79.7	76.0	78.0
6	DH-177	92.7	90.0	95.0	87.0	82.7	89.5	95.0	81.7	75.7	71.7	81.0	80.3	81.3	80.3	83.3	84.0
	CHECKS																
7	Vivek QPM 9	92.3	90.0	95.0	84.7	81.0	88.6	94.0	80.7	74.7	72.3	80.4	81.3	86.0	76.3	85.0	83.3
8	Vivek Hybrid	93.3	86.7	95.0	85.3	81.0	88.3	95.0	81.0	74.0	71.7	80.4	83.0	86.3	81.7	85.3	82.7
	Loc. Mean	93.8	88.8	95.4	86.4	82.5	89.4	95.3	81.3	75.6	72.0	81.0	81.8	83.8	80.1	83.3	83.1
	C.D. (5%)	2.30	2.33	-	2.58	1.89	1.48	2.58	2.14	2.38	1.29	2.56	1.32	2.16	2.52	2.95	1.42
	C.V. (%)	1.40	1.50	-	1.71	1.31	1.28	1.55	1.50	1.80	1.02	2.15	0.92	1.47	1.79	2.02	0.98
	F (Prob.)	0.00	0.00	-	0.17	0.01	0.00	0.00	0.07	0.01	0.00	0.58	0.00	0.00	0.01	0.00	0.00
Sl No	PEDIGREE	DAYS TO 75% DRY HUSK															
		AMBI	ZN 3 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean	
1	FH 3478	78.7	80.8	70.0	83.7	68.7	78.0	89.3	87.0	79.4	76.3	74.0	76.7	81.7	77.2	81.6	
2	FH 3483	83.0	83.0	72.0	83.3	68.7	78.7	88.7	87.7	79.8	77.7	70.7	77.0	84.0	77.3	82.8	
3	FH 3487	80.0	83.2	71.7	84.0	71.0	77.7	89.0	87.7	80.2	75.0	69.0	77.0	86.0	76.8	82.7	
4	FH 3488	84.7	84.4	70.7	84.0	70.7	77.7	89.0	88.0	80.0	75.0	72.3	76.7	86.7	77.7	82.9	
5	DH-179	76.0	78.3	70.3	82.0	68.0	77.0	90.0	84.0	78.6	76.0	71.7	75.3	81.0	76.0	80.2	
6	DH-177	79.0	81.4	72.0	82.7	70.7	78.0	87.3	86.7	79.6	76.0	-	75.7	83.7	78.4	82.2	
	CHECKS																
7	Vivek QPM 9	79.0	81.8	70.7	85.0	70.7	78.3	86.7	84.3	79.3	78.7	71.7	77.0	86.0	78.3	81.8	
8	Vivek Hybrid	79.7	83.1	72.7	82.3	68.0	78.7	88.3	85.0	79.2	78.0	73.0	76.0	85.3	78.1	82.0	
	Loc. Mean	80.0	82.0	71.3	83.4	69.5	78.0	88.5	86.3	79.5	76.6	62.8	76.4	84.3	77.5	82.0	
	C.D. (5%)	2.44	2.15	2.39	1.32	1.50	2.11	5.53	1.15	1.30	1.47	1.37	2.15	0.95	2.91	0.97	
	C.V. (%)	1.74	2.24	1.92	0.90	1.23	1.55	3.57	0.76	1.39	1.10	1.25	1.61	0.64	2.56	2.11	
	F (Prob.)	0.00	0.00	0.26	0.00	0.00	0.71	0.92	0.00	0.28	0.00	0.00	0.55	0.00	0.66	0.00	

Table No. 8 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST															
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2					
						Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	
1	FH 3478	29.9	22.2	24.0	24.2	25.0	25.1	28.6	32.1	22.2	17.3	15.0	23.0	23.0	17.3	18.5	24.0
2	FH 3483	34.3	24.2	24.0	26.5	26.0	27.0	34.7	33.2	25.3	19.6	15.0	25.6	22.7	16.8	18.9	26.2
3	FH 3487	35.1	23.1	22.0	24.6	25.0	26.0	29.9	31.4	23.2	17.6	15.0	23.4	23.0	18.5	17.2	26.9
4	FH 3488	32.5	22.5	23.0	26.7	26.0	26.1	31.0	32.7	22.5	17.6	15.0	23.8	23.2	16.5	17.7	28.7
5	DH-179	33.7	22.0	22.0	26.0	25.0	25.7	27.2	29.4	19.2	17.5	15.0	21.7	22.2	17.0	17.9	23.7
6	DH-177	31.8	22.6	22.7	24.7	24.5	25.2	27.8	28.7	22.1	17.4	15.0	22.2	21.5	17.3	18.7	27.5
	CHECKS																
7	Vivek QPM 9	30.0	22.8	22.0	26.6	25.5	25.4	32.3	30.6	19.7	16.8	15.0	22.9	22.4	17.3	18.7	27.4
8	Vivek Hybrid	29.2	21.3	22.7	23.4	25.0	24.3	34.5	28.4	20.7	17.3	15.0	23.2	21.9	16.8	18.3	27.3
	Loc. Mean	32.1	22.6	22.8	25.3	25.3	25.6	30.7	30.8	21.8	17.6	15.0	23.2	22.5	17.2	18.2	26.4
	C.D. (5%)	1.98	1.35	0.47	3.21	1.02	1.44	3.39	-	0.88	2.17	-	2.01	0.61	-	-	2.13
	C.V. (%)	3.52	3.41	1.17	7.24	2.31	4.35	6.29	-	2.29	7.05	-	6.70	1.54	-	-	4.60
	F (Prob.)	0.00	0.02	0.00	0.27	0.07	0.03	0.00	-	0.00	0.30	-	0.02	0.00	0.00	0.00	0.00

Sl No	PEDIGREE	MOISTURE % AT HARVEST														
		RANC	ZN 3				ZN 4				ZN 5			OV'L		
			Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean
1	FH 3478	22.2	21.0	24.5	20.7	12.3	12.8	13.9	19.2	17.2	16.1	16.0	15.6	14.4	15.5	20.4
2	FH 3483	23.9	21.7	27.1	21.8	11.7	12.8	14.4	19.6	17.9	15.4	15.7	18.9	16.8	16.7	21.8
3	FH 3487	22.8	21.7	25.2	24.0	11.2	13.1	14.8	18.4	17.8	15.8	15.6	16.0	17.0	16.1	21.0
4	FH 3488	21.2	21.5	25.7	25.2	12.1	12.6	14.6	18.4	18.1	16.0	16.8	15.5	13.6	15.4	21.1
5	DH-179	23.6	20.9	23.5	22.2	12.0	12.3	14.6	15.7	16.7	16.5	16.3	14.7	13.1	15.1	20.1
6	DH-177	21.5	21.3	25.7	22.0	11.8	12.8	14.4	17.9	17.4	16.4	-	15.7	13.9	15.3	20.6
	CHECKS															
7	Vivek QPM 9	22.0	21.5	26.3	24.5	12.2	12.3	13.9	17.2	17.7	16.0	17.1	14.8	13.9	15.4	20.7
8	Vivek Hybrid	22.8	21.4	25.2	21.0	12.2	12.7	14.6	17.8	17.2	15.5	16.6	14.5	13.8	15.1	20.3
	Loc. Mean	22.5	21.4	25.4	22.7	12.0	12.7	14.4	18.0	17.5	15.9	14.3	15.7	14.6	15.6	20.8
	C.D. (5%)	1.50	1.39	2.03	1.68	0.94	0.58	0.92	1.41	1.12	0.72	0.58	1.32	0.83	1.60	0.67
	C.V. (%)	3.81	5.02	4.57	4.24	4.48	2.64	3.64	4.46	5.48	2.58	2.31	4.80	3.27	6.99	5.81
	F (Prob.)	0.02	0.89	0.06	0.00	0.34	0.11	0.40	0.00	0.27	0.06	0.00	0.00	0.00	0.47	0.00

Table No. 8 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)																
		ALMO						ZN 1				ZN 2						
		BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC	
1	FH 3478	200.0	177.7	132.1	207.3	156.3	174.7	141.0	153.3	155.0	174.3	59.0	136.5	135.3	121.0	145.3	144.3	148.5
2	FH 3483	205.0	180.7	153.0	215.3	138.4	178.5	158.0	153.3	158.3	177.3	63.3	142.1	134.7	130.3	151.7	145.3	152.9
3	FH 3487	221.7	176.7	147.9	205.0	147.3	179.7	156.7	155.0	166.7	199.0	57.0	146.9	128.7	135.7	156.5	155.3	153.6
4	FH 3488	201.7	165.3	144.8	170.7	162.9	169.1	138.7	163.3	160.0	183.0	58.0	140.6	134.7	136.0	145.1	147.5	144.2
5	DH-179	230.0	187.0	144.9	205.7	169.4	187.4	160.3	170.0	181.7	195.3	56.7	152.8	162.3	146.3	141.5	170.3	160.5
6	DH-177 CHECKS	233.3	201.7	158.5	223.7	157.1	194.9	187.0	173.3	183.3	218.7	54.7	163.4	160.3	167.2	140.3	172.5	166.5
7	Vivek QPM 9	226.7	203.3	167.9	220.7	169.6	197.6	175.0	176.7	173.3	211.3	60.0	159.3	153.3	165.3	172.5	180.0	175.5
8	Vivek Hybrid	230.0	182.3	170.9	214.0	182.6	196.0	170.0	180.0	173.3	214.7	65.0	160.6	114.7	162.5	143.9	188.8	172.3
	Loc. Mean	218.5	184.3	152.5	207.8	160.4	184.7	160.8	165.6	169.0	196.7	59.2	150.3	140.5	145.5	149.6	163.0	159.3
	C.D. (5%)	8.86	14.19	10.57	18.07	17.21	13.12	9.92	22.21	22.98	13.22	1.95	11.07	57.11	20.38	6.09	8.66	13.09
	C.V. (%)	2.31	4.40	3.96	4.97	6.12	5.48	3.52	7.66	7.77	3.84	1.88	5.69	23.21	8.00	2.33	3.04	4.69
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.13	0.00	0.00	0.00	0.61	0.00	0.00	0.00	0.00

Sl No	PEDIGREE	PLANT HEIGHT (cm)																
		ZN 3		KARI					ZN 4				ZN 5			OV'L		
		AMBI	Mean	ARBH	HYDE	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean		
1	FH 3478	207.2	150.3	151.0	177.0	115.0	118.3	154.0	179.3	149.1	151.7	165.2	147.3	173.3	131.8	153.9	152.7	
2	FH 3483	208.9	154.0	149.5	170.7	136.7	136.7	184.7	156.1	155.7	153.3	177.1	162.7	183.3	142.0	163.7	158.5	
3	FH 3487	218.8	158.1	144.0	182.3	125.0	113.3	186.0	181.3	155.3	153.3	172.1	165.3	180.0	130.5	160.2	159.8	
4	FH 3488	201.5	151.5	163.5	188.7	105.0	115.0	174.7	171.8	153.1	150.3	163.8	153.3	175.0	121.7	152.8	153.3	
5	DH-179	222.9	167.3	165.0	199.0	136.7	141.7	168.7	186.2	166.2	151.7	177.0	162.3	196.7	141.9	165.9	167.8	
6	DH-177 CHECKS	228.5	172.6	151.0	197.7	130.0	135.0	195.3	192.6	166.9	170.0	-	170.3	213.3	145.7	174.8	174.1	
7	Vivek QPM 9	228.7	179.2	167.5	219.0	148.3	136.7	179.0	173.7	170.7	170.0	203.7	183.0	210.0	148.6	183.1	177.8	
8	Vivek Hybrid	238.3	170.1	142.0	216.0	123.3	138.3	173.7	190.7	164.0	170.0	208.8	176.0	201.7	148.8	181.0	173.8	
	Loc. Mean	219.3	162.9	154.2	193.8	127.5	129.4	177.0	179.0	160.1	158.8	158.5	165.0	191.7	138.9	166.9	164.7	
	C.D. (5%)	14.97	12.61	17.81	11.66	9.84	23.75	34.23	7.24	13.45	11.39	15.73	10.25	14.61	9.26	8.51	5.05	
	C.V. (%)	3.90	6.61	6.60	3.44	4.41	10.48	11.04	2.31	7.17	4.10	5.67	3.55	4.35	3.81	3.93	5.71	
	F (Prob.)	0.00	0.00	0.05	0.00	0.00	0.10	0.35	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

Table No. 8 (Continued)

Sl No	PEDIGREE	EAR HEIGHT (cm)					ZN 1					ZN 2				
		ALMO	BAJA	BARA	KANG	UDHA	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC
1	FH 3478	103.3	76.7	45.2	92.7	67.6	77.1	69.7	76.7	71.0	160.7	94.5	48.7	63.9	68.8	56.3
2	FH 3483	105.0	97.7	69.5	113.7	61.8	89.5	81.7	80.0	78.7	157.0	99.3	51.7	66.9	77.3	67.7
3	FH 3487	103.3	79.0	57.4	96.7	52.6	77.8	71.0	63.3	75.0	161.0	92.6	39.7	68.9	63.3	50.3
4	FH 3488	96.7	58.3	55.7	77.3	63.9	70.4	73.3	80.0	75.3	160.3	97.2	45.7	65.2	59.0	49.0
5	DH-179	115.0	111.7	73.1	96.7	65.1	92.3	89.7	86.7	82.7	161.7	105.2	61.7	65.8	83.8	68.1
6	DH-177	115.0	118.3	70.8	103.3	76.2	96.7	99.0	85.0	92.7	160.3	109.3	59.3	65.5	85.0	68.7
CHECKS																
7	Vivek QPM 9	108.3	101.0	67.2	86.7	58.2	84.3	81.0	95.0	85.7	162.0	105.9	58.7	69.0	74.0	65.5
8	Vivek Hybrid	115.0	84.3	73.4	86.7	66.8	85.2	80.0	80.0	83.0	179.7	105.7	60.0	60.5	71.5	64.8
	Loc. Mean	107.7	90.9	64.0	94.2	64.0	84.2	80.7	80.8	80.5	162.8	101.2	53.2	65.7	72.8	61.3
	C.D. (5%)	8.13	18.34	6.20	19.48	12.93	11.92	9.46	16.62	7.15	1.70	9.61	15.61	5.11	8.77	12.00
	C.V. (%)	4.31	11.53	5.53	11.81	11.53	10.93	6.70	11.74	5.07	0.60	6.46	16.77	4.44	6.88	11.18
	F (Prob.)	0.00	0.00	0.00	0.04	0.06	0.00	0.00	0.05	0.00	0.00	0.01	0.08	0.06	0.00	0.01

Sl No	PEDIGREE	EAR HEIGHT (cm)					ZN 3					ZN 4					ZN 5		OV'L
		AMBI	Mean	ARBH	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	Mean	Mean	Mean			
1	FH 3478	79.1	63.3	73.0	41.7	65.0	71.3	72.3	64.7	71.7	78.8	63.7	73.3	71.9	73.5				
2	FH 3483	77.0	68.1	75.5	41.7	63.3	90.7	80.5	70.3	70.0	89.1	72.0	91.7	80.7	80.9				
3	FH 3487	68.2	58.1	65.5	36.7	58.3	88.7	73.9	64.6	66.7	72.2	69.7	73.3	70.5	71.9				
4	FH 3488	69.9	57.7	82.0	41.7	50.0	84.0	70.7	65.7	63.3	70.4	66.7	73.3	68.4	70.9				
5	DH-179	84.8	72.8	78.5	51.7	71.7	81.7	87.1	74.1	66.7	84.0	75.7	93.3	79.9	84.2				
6	DH-177	86.5	73.0	73.0	46.7	65.0	91.7	91.6	73.6	75.0	-	75.3	91.7	80.7	86.2				
CHECKS																			
7	Vivek QPM 9	78.1	69.1	82.0	51.7	68.3	88.3	71.1	72.3	75.0	92.1	78.3	95.0	85.1	82.3				
8	Vivek Hybrid	81.9	67.8	74.0	31.7	71.7	81.0	84.5	68.6	76.7	96.8	80.3	80.0	83.5	81.1				
	Loc. Mean	78.2	66.2	75.4	42.9	64.2	84.7	79.0	69.2	70.6	72.9	72.7	84.0	77.6	78.9				
	C.D. (5%)	9.31	6.02	15.53	5.10	17.04	17.32	4.11	8.27	21.27	17.46	9.02	10.04	7.57	3.83				
	C.V. (%)	6.80	7.02	11.76	6.79	15.16	11.68	2.97	9.22	17.19	13.67	7.08	6.83	6.63	8.34				
	F (Prob.)	0.01	0.00	0.40	0.00	0.20	0.29	0.00	0.11	0.84	0.00	0.02	0.00	0.00	0.00				

Table No.8 (Continued)

		GRAIN SHELLING %															
Sl No	PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	ZN 1					ZN 2					
							Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	BHUB	VARA	RANC
1	FH 3478	86.2	84.3	73.7	87.0	79.3	82.1	83.9	78.0	85.0	80.0	73.7	80.1	77.3	79.2	76.8	85.1
2	FH 3483	85.4	84.5	80.3	85.5	77.3	82.6	87.8	81.0	89.2	88.2	76.0	84.4	82.4	78.6	79.5	84.1
3	FH 3487	84.7	81.7	70.9	85.5	77.2	80.0	83.8	85.0	84.8	85.0	75.5	82.8	78.9	77.0	76.8	86.5
4	FH 3488	86.6	83.6	81.9	84.0	79.6	83.1	86.7	81.0	85.3	85.0	74.0	82.4	75.6	77.5	77.0	84.3
5	DH-179	85.6	85.3	80.2	83.0	79.6	82.7	83.1	78.0	84.0	84.6	75.0	80.9	79.2	80.0	76.5	83.6
6	DH-177	87.6	82.9	75.7	82.0	77.1	81.1	86.5	85.0	88.8	87.7	74.0	84.4	76.8	79.2	77.8	87.6
	CHECKS																
7	Vivek QPM 9	87.4	84.5	83.3	86.0	79.8	84.2	84.8	85.0	86.3	82.6	76.5	83.0	74.4	78.0	76.3	80.5
8	Vivek Hybrid	87.5	83.9	80.4	85.0	80.8	83.5	85.4	76.0	86.9	82.4	75.5	81.2	80.8	79.2	75.3	85.7
	Loc. Mean	86.4	83.8	78.3	84.8	78.8	82.4	85.2	81.1	86.3	84.4	75.0	82.4	78.1	78.6	77.0	84.7
	C.D. (5%)	0.79	0.00	1.74	1.67	2.04	2.67	1.59	-	3.12	-	0.83	2.55	1.42	-	1.42	0.56
	C.V. (%)	0.52	0.00	1.27	1.13	1.48	2.51	1.06	-	2.06	-	0.63	2.39	1.04	-	1.06	0.38
	F (Prob.)	0.00	0.00	0.00	0.00	0.01	0.07	0.00	-	0.02	0.00	0.00	0.01	0.00	0.00	0.00	0.00
		GRAIN SHELLING %															
Sl No	PEDIGREE	AMBI	ZN 3			ZN 4					ZN 5					OV'L	
			Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean
1	FH 3478	80.9	79.8	79.2	74.1	86.8	86.0	80.3	83.9	81.7	84.6	68.6	83.6	85.5	83.1	81.1	81.0
2	FH 3483	82.1	81.3	80.2	83.7	83.5	85.7	79.5	83.3	82.6	85.4	69.3	82.1	82.3	82.8	80.4	82.3
3	FH 3487	84.6	80.7	78.5	81.8	82.0	83.5	83.1	83.8	82.1	85.0	69.6	82.2	80.6	80.7	79.6	81.1
4	FH 3488	81.5	79.2	81.2	83.2	87.6	85.0	81.7	81.9	83.4	80.0	71.0	86.6	84.2	80.7	80.5	81.8
5	DH-179	83.1	80.5	80.0	80.6	82.3	83.4	81.8	85.9	82.3	82.4	68.6	83.9	84.7	82.3	80.4	81.4
6	DH-177	84.5	81.2	80.6	81.5	87.2	87.9	82.7	85.0	84.1	85.9	-	79.5	86.9	84.2	84.1	83.0
	CHECKS																
7	Vivek QPM 9	85.7	79.0	78.1	79.2	87.0	85.7	80.4	82.6	82.2	85.0	68.7	75.1	84.0	83.4	79.2	81.5
8	Vivek Hybrid	86.9	81.6	76.8	80.9	84.0	84.4	81.8	84.8	82.1	82.5	69.4	84.7	84.9	83.2	80.9	81.9
	Loc. Mean	83.7	80.4	79.3	80.6	85.0	85.2	81.4	83.9	82.6	83.8	60.7	82.2	84.2	82.5	80.8	81.7
	C.D. (5%)	6.28	2.41	3.00	2.93	2.04	1.83	1.67	2.81	2.23	0.69	1.42	7.39	2.32	4.06	4.04	1.25
	C.V. (%)	4.29	2.31	2.16	2.08	1.37	1.22	1.17	1.91	2.30	0.47	1.34	5.13	1.58	2.81	3.86	2.79
	F (Prob.)	0.45	0.24	0.10	0.00	0.00	0.00	0.01	0.13	0.38	0.00	0.00	0.11	0.00	0.55	0.37	0.04

Table No. 8 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)																
		ALMO	BAJA	BARA	KANG	UDHA	ZN 1			ZN 2					VARA	RANC		
						Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	BHUB			
1	FH 3478	65.3	69.0	38.9	66.7	51.7	58.3	66.1	66.7	75.7	52.5	61.4	64.5	67.0	38.3	68.8	64.2	56.8
2	FH 3483	64.2	66.7	47.2	63.9	37.8	56.0	55.7	64.9	75.7	47.5	62.2	61.2	69.1	38.9	68.4	66.0	55.1
3	FH 3487	66.3	71.8	36.8	66.3	43.8	57.0	64.6	69.9	75.7	62.8	61.1	66.8	67.4	47.2	69.8	63.5	56.3
4	FH 3488	63.9	67.1	38.9	65.6	52.8	57.6	65.2	68.2	74.8	35.0	60.0	60.6	65.3	38.1	69.4	60.8	58.0
5	DH-179	60.8	65.9	44.8	64.6	44.8	56.2	60.4	63.7	64.4	44.4	61.4	58.9	64.6	27.2	68.1	60.8	56.8
6	DH-177	61.1	67.9	42.7	68.1	37.5	55.4	58.0	66.1	73.3	35.6	60.8	58.8	63.9	37.2	66.7	63.5	53.0
	CHECKS																	
7	Vivek QPM 9	62.8	57.9	55.6	71.5	29.5	55.5	50.9	63.7	65.9	45.8	61.9	57.7	64.2	26.1	66.7	63.2	55.7
8	Vivek Hybrid	62.2	64.3	34.7	67.4	31.3	52.0	56.5	67.6	64.1	38.9	61.4	57.7	63.9	30.0	64.6	61.8	55.1
	Loc. Mean	63.3	66.3	42.4	66.8	41.1	56.0	59.7	66.3	71.2	45.3	61.3	60.8	65.7	35.4	67.8	63.0	55.8
	C.D. (5%)	2.66	3.87	2.89	12.65	12.68	7.32	12.76	5.92	2.17	16.39	1.44	6.29	4.14	17.01	2.90	5.38	9.67
	C.V. (%)	2.40	3.34	3.89	10.82	17.60	10.09	12.21	5.09	1.74	20.66	1.34	7.99	3.60	27.45	2.44	4.88	9.89
	F (Prob.)	0.01	0.00	0.00	0.93	0.01	0.76	0.21	0.33	0.00	0.04	0.12	0.05	0.13	0.21	0.03	0.46	0.97
		STAND AT HARVEST ('000/ha)																
Sl No	PEDIGREE						ZN 3			ZN 4					ZN 5		OV'L	
		AMBI	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	JHAB	Mean	Mean	
1	FH 3478	44.1	56.5	60.3	55.8	59.2	81.6	59.2	65.3	63.6	80.2	61.1	54.2	66.4	62.8	64.9	61.5	
2	FH 3483	64.2	60.3	61.1	55.0	60.0	82.6	57.1	66.3	63.7	78.8	63.5	54.6	66.7	64.9	65.7	61.4	
3	FH 3487	70.1	62.4	65.8	61.7	60.6	78.8	59.2	66.7	65.5	78.1	63.5	62.7	66.7	71.2	68.4	64.0	
4	FH 3488	68.8	60.1	60.8	52.5	59.4	80.2	58.6	66.7	63.0	77.1	59.7	53.0	64.7	60.4	63.0	60.9	
5	DH-179	65.3	57.1	62.8	51.4	58.3	80.2	62.2	67.0	63.7	75.3	63.5	52.8	63.6	55.9	62.2	59.7	
6	DH-177	60.1	57.4	60.3	50.3	59.2	81.3	59.5	66.0	62.7	78.1	-	51.2	66.1	62.5	64.5	59.6	
	CHECKS																	
7	Vivek QPM 9	61.1	56.2	59.2	50.3	62.8	78.1	55.1	66.3	62.0	76.7	60.8	49.5	63.1	62.2	62.4	58.8	
8	Vivek Hybrid	59.0	55.7	65.3	56.7	61.7	78.8	58.6	66.7	64.6	80.2	63.2	58.6	64.7	56.9	64.7	59.0	
	Loc. Mean	61.6	58.2	61.9	54.2	60.1	80.2	58.7	66.4	63.6	78.1	54.4	54.6	65.2	62.1	64.5	60.6	
	C.D. (5%)	20.86	5.09	9.57	6.43	4.75	6.11	8.36	1.76	2.53	4.23	5.84	7.67	3.53	10.28	3.41	2.17	
	C.V. (%)	19.34	7.45	8.82	6.77	4.51	4.35	8.13	1.51	3.39	3.10	6.13	8.03	3.09	9.46	4.08	6.65	
	F (Prob.)	0.28	0.11	0.74	0.02	0.55	0.74	0.78	0.56	0.19	0.26	0.00	0.05	0.25	0.13	0.02	0.00	

TABLE No.9

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, KANPUR IN AET 2nd YEAR,
TRIAL No. 69Z2 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE							GRAIN YIELD % SUPERIORITY OVER THE PMH 1					
		DELH	R	KARN	R	KANP	R	ZN 2 MEAN	R	DELH	KARN	KANP	ZN 2 MEAN	
1	PAC745	5319	2	3812	2	4825	3	4652	2	-	15.7	-	-	
	CHECKS													
2	PMH 1	5567	1	3294	3	5559	1	4807	1	-	-	-	-	
3	Seedtec 2324	5276	3	3285	4	5004	2	4522	4	-	-	-	-	
4	BIO 9681	4900	4	4003	1	4735	4	4546	3	-	21.5	-	-	
	Location Mean	5266		3598		5031		4632						
	Mean Stand	87		96		75		86						
	C.D. (5%)	724		244		1835		934						
	C.V. (%)	8.44		3.23		17.38		-						
	F (Prob)	0.266		0.001		0.129		-						
	Plot Size	18		16.8		12		-						
	AGRONOMY DATA													
	Sowing Date	12-07		26-06		14-07		-						
	Harvest Date	25-10		28-09		30-10		-						
	Irrigation Nos	-		4		-		-						
	Fertilizer Applied N	150		150		120		-						
	Fertilizer Applied P	75		60		60		-						
	Fertilizer Applied K	75		60		40		-						
Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324				GRAIN YIELD % SUPERIORITY OVER THE BIO 9681				DAYS TO 50% SILKING				
		DELH	KARN	KANP	ZN 2 MEAN	DELH	KARN	KANP	ZN 2 MEAN	DELH	KARN	PANT	KANP	ZN 2 Mean
1	PAC745	0.8	16	-	2.9	8.5	-	1.9	2.3	55.5	54.7	57.3	54.7	55.5
	CHECKS													
2	PMH 1	5.5	0.3	11.1	6.3	13.6	-	17.4	5.7	56.5	52.7	56.8	56.0	55.5
3	Seedtec 2324	-	-	-	-	7.7	-	5.7	-	57.5	55.7	58.8	55.3	56.8
4	BIO 9681	-	21.9	-	0.5	-	-	-	-	54.3	53.3	56.3	54.3	54.5
	Loc. Mean									55.9	54.1	57.3	55.1	55.6
	C.D. (5%)									1.85	4.16	0.65	3.54	1.30
	C.V. (%)									2.07	3.85	0.71	3.22	1.46
	F (Prob.)									0.02	0.37	0.00	0.68	0.02

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 27.0 %

TABLE No. 9 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST				
		DELH	KARN	PANT	KANP	ZN 2 Mean	DELH	KARN	KANP	ZN 2 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	
1	PAC745	53.3	52.7	53.3	49.7	52.2	101.5	85.0	84.0	90.2	27.8	32.4	19.3	15.0	23.6	
	CHECKS															
2	PMH 1	54.3	50.3	53.3	51.3	52.3	102.8	84.3	87.0	91.4	29.3	31.2	19.2	15.0	23.7	
3	Seedtec 2324	55.5	53.3	54.8	52.3	54.0	103.3	91.0	86.0	93.4	30.8	33.6	20.2	15.0	24.9	
4	BIO 9681	53.0	51.7	52.3	49.7	51.6	100.5	84.3	83.0	89.3	24.6	30.7	23.2	15.0	23.4	
	Loc. Mean	54.0	52.0	53.4	50.8	52.5	102.0	86.2	85.0	91.1	28.1	32.0	20.5	15.0	23.9	
	C.D. (5%)	1.36	4.77	0.71	1.20	1.22	1.92	1.20	-	3.38	3.58	0.00	1.83	-	2.98	
	C.V. (%)	1.57	4.59	0.83	1.18	1.45	1.18	0.70	-	1.86	7.97	0.00	5.59	-	7.80	
	F (Prob.)	0.01	0.50	0.00	0.00	0.01	0.04	0.00	-	0.10	0.02	0.00	0.00	-	0.67	
Sl No	PEDIGREE	PLANT HEIGHT(cm)					EAR HEIGHT(cm)									
		DELH	KARN	PANT	KANP	ZN 2 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean					
1	PAC745	188.0	188.3	254.0	75.0	176.3	90.5	96.7	110.0	164.7	115.5					
	CHECKS															
2	PMH 1	224.5	196.7	266.5	73.0	190.2	120.3	103.3	116.5	166.7	126.7					
3	Seedtec 2324	182.8	183.3	237.5	76.0	169.9	104.3	86.7	103.5	166.7	115.3					
4	BIO 9681	170.3	173.3	230.0	59.7	158.3	77.8	65.0	83.0	165.0	97.7					
	Loc. Mean	191.4	185.4	247.0	70.9	173.7	98.2	87.9	103.3	165.8	113.8					
	C.D. (5%)	13.41	25.30	16.88	1.91	14.88	7.89	19.06	13.30	1.53	14.64					
	C.V. (%)	4.38	6.83	4.27	1.35	5.36	5.02	10.85	8.05	0.46	8.04					
	F (Prob.)	0.00	0.25	0.00	0.00	0.01	0.00	0.01	0.00	0.03	0.01					
Sl No	PEDIGREE	GRAIN SHELLING %					STAND AT HARVEST ('000/ha)									
		DELH	KARN	PANT	KANP	ZN 2 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean					
1	PAC745	85.4	78.0	84.7	75.0	80.8	51.3	57.1	55.4	62.2	56.5					
	CHECKS															
2	PMH 1	83.8	83.0	85.7	74.0	81.6	45.4	57.7	51.5	61.7	54.1					
3	Seedtec 2324	84.4	72.0	84.2	77.5	79.5	49.0	56.9	58.9	64.2	57.3					
4	BIO 9681	82.2	83.0	84.2	74.5	81.0	47.9	57.7	54.9	62.8	55.8					
	Loc. Mean	83.9	79.0	84.7	75.3	80.7	48.4	57.4	55.2	62.7	55.9					
	C.D. (5%)	1.08	-	-	1.73	4.98	6.82	4.27	4.59	1.33	2.76					
	C.V. (%)	0.80	-	-	1.15	3.85	8.81	3.73	5.21	1.06	3.09					
	F (Prob.)	0.00	-	-	0.01	0.82	0.33	0.95	0.04	0.02	0.13					

TABLE No.10

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT BAHARAICH, DHOLI, BHUBANESHWAR, VARANASI, RANCHI, AMBIKAPUR, IN AET 2nd YEAR, TRIAL No. TR69Z3 DURING KHARIF (2010).

GRAIN YIELD (kg/ha) AT 15% MOISTURE															
S1 No	PEDIGREE	BAHR	R	DHOL	R	BHUB	R	VARA	R	RANC	R	AMBI	R	ZN 3 MEAN	R
1	X7B401	10485	2	7107	1	5575	4	9135	1	10786	3	4523	3	7935	1
2	MCH 38	10782	1	5252	4	6042	1	9085	2	11188	1	5177	1	7921	2
CHECKS															
3	PMH 1	9175	4	6088	3	5550	5	7882	3	10589	4	3969	5	7209	4
4	Seedtec 2324	9498	3	6494	2	5871	2	6693	4	10869	2	4770	2	7366	3
5	BIO 9681	7712	5	4976	5	5605	3	6635	5	10281	5	4464	4	6612	5
	Location Mean	9530		5983		5729		7886		10743		4580		7409	
	Mean Stand	105		84		98		109		100		66		93	
	C.D. (5%)	811		1296		136		653		1521		851		878	
	C.V. (%)	4.41		13.92		1.53		5.32		9.1		11.94		-	
	F (Prob)	0		0.012		0		0		0.214		0.029		-	
	Plot Size	14.4		18		14.4		14.4		16.8		18		-	
AGRONOMY DATA															
	Sowing Date	16-07		15-07		6-07		5-07		3-07		14-07		-	
	Harvest Date	1-11		-		23-10		10-10		14-10		-		-	
	Irrigation Nos	-		-		-		2		3		-		-	
	Fertilizer Applied N	120		150		120		120		120		120		-	
	Fertilizer Applied P	60		70		60		60		60		60		-	
	Fertilizer Applied K	60		50		60		40		40		40		-	
GRAIN YIELD % SUPERIORITY OVER THE PMH 1															
GRAIN YIELD % SUPERIORITY OVER THE PMH 1								GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324							
S1 No	PEDIGREE	BAHR	DHOL	BHUB	VARA	RANC	AMBI	ZN 3 MEAN	BAHR	DHOL	BHUB	VARA	RANC	AMBI	ZN 3 MEAN
1	X7B401	14.3	16.7	0.4	15.9	1.9	14	10.1	10.4	9.4	-	36.5	-	-	7.7
2	MCH 38	17.5	-	8.9	15.3	5.7	30.4	9.9	13.5	-	2.9	35.7	2.9	8.5	7.5
CHECKS															
3	PMH 1	-	-	-	-	-	-	-	-	-	-	17.8	-	-	-
4	Seedtec 2324	3.5	6.7	5.8	-	2.7	20.2	2.2	-	-	-	-	-	-	-
5	BIO 9681	-	-	1	-	-	12.5	-	-	-	-	-	-	-	-

TABLE No. 10 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681							DAYS TO 50% SILKING						
		BAHR	DHOL	BHUB	VARA	RANC	AMBI	ZN 3 MEAN	BAHR	DHOL	BHUB	VARA	RANC	AMBI	Mean
1	X7B401	36	42.8	-	37.7	4.9	1.3	20	54.7	53.0	54.3	59.8	52.3	53.5	54.6
2	MCH 38	39.8	5.5	7.8	36.9	8.8	16	19.8	58.0	53.8	57.8	59.3	54.5	54.8	56.3
	CHECKS														
3	PMH 1	19	22.4	-	18.8	3	-	9	57.7	55.3	56.3	58.8	52.5	52.5	55.5
4	Seedtec 2324	23.2	30.5	4.7	0.9	5.7	6.9	11.4	56.3	53.5	55.8	61.5	55.5	51.8	55.7
5	BIO 9681	-	-	-	-	-	-	-	56.3	53.0	54.5	55.3	52.0	54.0	54.2
	Loc. Mean								56.6	53.7	55.7	58.9	53.4	53.3	55.3
	C.D. (5%)								0.91	1.56	1.70	2.41	0.80	2.27	1.63
	C.V. (%)								0.85	1.89	1.98	2.66	0.97	2.77	2.44
	F (Prob.)								0.00	0.05	0.00	0.00	0.00	0.09	0.07

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED							DAYS TO 75% DRY HUSK						
		BAHR	DHOL	BHUB	VARA	RANC	AMBI	Mean	BAHR	DHOL	BHUB	VARA	RANC	AMBI	Mean
1	X7B401	52.7	51.0	51.3	54.5	48.3	50.8	51.4	88.7	90.3	94.8	95.3	98.5	92.8	93.4
2	MCH 38	55.7	52.3	54.5	55.0	50.5	52.0	53.3	89.7	90.0	97.8	95.0	99.0	93.0	94.1
	CHECKS														
3	PMH 1	55.7	53.0	53.5	55.3	48.5	49.8	52.6	86.3	85.5	95.5	89.3	98.5	88.3	90.6
4	Seedtec 2324	54.3	51.8	52.8	56.5	51.5	49.0	52.6	88.7	89.8	97.0	93.8	98.8	90.0	93.0
5	BIO 9681	54.3	51.0	51.3	52.5	48.0	51.5	51.4	85.3	88.3	96.3	84.0	97.8	89.3	90.1
	Loc. Mean	54.5	51.8	52.7	54.8	49.4	50.6	52.3	87.7	88.8	96.3	91.5	98.5	90.7	92.2
	C.D. (5%)	0.73	1.75	1.52	1.73	0.80	1.76	1.33	1.03	2.23	2.46	2.82	0.70	1.27	2.28
	C.V. (%)	0.71	2.19	1.88	2.06	1.05	2.26	2.12	0.62	1.63	1.66	2.00	0.46	0.91	2.05
	F (Prob.)	0.00	0.12	0.00	0.00	0.00	0.02	0.03	0.00	0.00	0.13	0.00	0.02	0.00	0.00

Sl No	PEDIGREE	MOISTURE % AT HARVEST							PLANT HEIGHT (cm)						
		BAHR	DHOL	BHUB	VARA	RANC	Mean	BAHR	DHOL	BHUB	VARA	RANC	AMBI	ZN 3 Mean	
1	X7B401	26.9	24.5	22.2	31.2	24.1	25.8	218.7	206.5	157.4	213.8	248.6	256.3	216.8	
2	MCH 38	27.3	26.1	20.9	30.3	24.0	25.7	208.3	185.3	149.1	210.3	227.9	235.4	202.7	
	CHECKS														
3	PMH 1	26.0	26.3	21.5	29.5	21.7	25.0	211.3	200.0	169.6	240.0	233.4	260.7	219.2	
4	Seedtec 2324	26.7	26.5	20.7	31.5	23.6	25.8	174.0	170.3	143.0	192.5	196.4	235.8	185.3	
5	BIO 9681	24.6	17.7	21.5	28.4	22.6	22.9	195.7	167.5	155.9	193.8	197.0	220.2	188.3	
	Loc. Mean	26.3	24.2	21.4	30.2	23.2	25.0	201.6	185.9	155.0	210.1	220.6	241.7	202.5	
	C.D. (5%)	0.79	0.00	-	1.41	0.22	2.19	36.50	15.71	5.24	9.50	11.53	17.27	11.07	
	C.V. (%)	1.59	0.00	-	3.04	0.63	6.53	9.62	5.49	2.20	2.94	3.39	4.64	4.54	
	F (Prob.)	0.00	0.00	-	0.00	0.00	0.06	0.13	0.00	0.00	0.00	0.00	0.00	0.00	

TABLE No. 10 (Cont..)

Sl No	PEDIGREE	EAR HEIGHT(cm)						ZN 3 Mean	GRAIN SHELLING %					
		BAHR	DHOL	BHUB	VARA	RANC	AMBI		BAHR	BHUB	VARA	RANC	AMBI	Mean
1	X7B401	86.3	117.8	67.3	113.8	127.8	97.7	101.8	79.7	78.6	79.3	87.7	82.2	81.5
2	MCH 38	89.7	102.9	66.6	110.0	114.7	88.6	95.4	82.2	77.6	79.8	86.0	80.4	81.2
	CHECKS													
3	PMH 1	118.7	112.4	75.2	132.5	131.3	114.9	114.1	77.1	76.2	79.0	85.9	76.5	78.9
4	Seedtec 2324	97.3	96.4	65.3	110.0	106.0	102.9	96.3	76.5	79.3	78.3	85.9	78.6	79.7
5	BIO 9681	79.0	77.5	72.5	88.8	80.2	63.3	76.9	74.3	79.6	79.8	86.5	77.0	79.4
	Loc. Mean	94.2	101.4	69.4	111.0	112.0	93.5	96.9	77.9	78.3	79.2	86.4	78.9	80.1
	C.D. (5%)	24.24	19.43	3.72	2.86	13.57	10.97	11.35	1.75	0.00	1.36	0.81	2.92	2.29
	C.V. (%)	13.67	12.44	3.48	1.67	7.87	7.62	9.72	1.19	0.00	1.12	0.61	2.40	2.13
	F (Prob.)	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.01	0.12

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)						
		BAHR	DHOL	BHUB	VARA	RANC	AMBI	Mean
1	X7B401	74.1	49.3	67.5	76.4	55.7	33.3	59.4
2	MCH 38	73.4	47.5	68.8	76.6	64.9	42.5	62.3
	CHECKS							
3	PMH 1	68.8	43.8	68.4	71.7	59.4	38.8	58.5
4	Seedtec 2324	73.4	45.8	68.8	74.0	57.3	37.2	59.4
5	BIO 9681	73.8	46.1	66.7	79.2	58.9	31.7	59.4
	Loc. Mean	72.7	46.5	68.0	75.6	59.2	36.7	59.8
	C.D. (5%)	2.85	7.77	2.37	4.85	6.93	7.80	3.25
	C.V. (%)	2.09	10.84	2.26	4.16	7.59	13.80	4.51
	F (Prob.)	0.01	0.63	0.30	0.05	0.11	0.07	0.18

TABLE No. 11

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE
IN AET 2nd YEAR, TRIAL No. TR69Z4 DURING KHARIF (2010).

GRAIN YIELD (kg/ha) AT 15% MOISTURE															
S1 No	PEDIGREE	ARBH	R	HYDE	R	KARI	R	KOLH	R	MAND	R	COIM	R	ZN 4 MEAN	R
1	PFMH- 9737	9224	3	7859	5	9367	5	11416	4	7201	6	11783	2	9475	5
2	PAC745	9174	4	9208	3	9884	2	11684	1	8827	4	12274	1	10175	1
3	MCH 38 CHECKS	10739	2	8770	4	8038	6	11588	2	8706	5	11042	3	9814	4
4	PMH 1	9094	5	7806	6	9483	4	9898	6	9016	3	9615	6	9152	6
5	Seedtec 2324	10754	1	9319	2	9584	3	9936	5	9748	1	9953	4	9882	3
6	BIO 9681	8859	6	9336	1	11139	1	11546	3	9410	2	9930	5	10037	2
	Location Mean	9641		8716		9583		11011		8818		10766		9756	
	Mean Stand	107		108		97		106		106		95		103	
	C.D. (5%)	1275		1757		527		1671		2381		507		1353	
	C.V. (%)	7.16		10.91		2.98		8.22		14.62		2.55		-	
	F (Prob)	0.094		0.126		0		0.068		0.12		0		-	
	Plot Size	18		18		18		14.4		16.8		14.4		-	
	AGRONOMY DATA														
	Sowing Date	14-07		19-06		16-07		10-07		13-07		6-07		-	
	Harvest Date	11-11		25-10		-		16-11		3-12		3-11		-	
	Irrigation Nos	3		-		-		-		6		9		-	
	Fertilizer Applied N	150		180		200		100		150		150		-	
	Fertilizer Applied P	75		60		80		50		75		75		-	
	Fertilizer Applied K	37.5		50		60		30		40		75		-	
GRAIN YIELD % SUPERIORITY OVER THE PMH 1															
S1 No	PEDIGREE	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324						
1	PFMH- 9737	1.4	0.7	-	15.3	-	22.6	3.5	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN
2	PAC745	0.9	18	4.2	18	-	27.6	11.2	-	-	3.1	17.6	-	23.3	3
3	MCH 38 CHECKS	18.1	12.3	-	17.1	-	14.8	7.2	-	-	-	16.6	-	10.9	-
4	PMH 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	Seedtec 2324	18.3	19.4	1.1	0.4	8.1	3.5	8	-	-	-	-	-	-	-
6	BIO 9681	-	19.6	17.5	16.7	4.4	3.3	9.7	-	0.2	16.2	16.2	-	-	1.6

TABLE No. 11 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9681							DAYS TO 50% SILKING						
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean
1	PFMH- 9737	4.1	-	-	-	-	18.7	-	59.3	58.0	59.7	63.0	54.3	59.7	59.0
2	PAC745	3.6	-	-	1.2	-	23.6	1.4	60.7	55.3	57.3	63.3	54.7	59.3	58.4
3	MCH 38	21.2	-	-	0.4	-	11.2	-	59.7	57.0	60.0	63.7	54.3	58.3	58.8
	CHECKS														
4	PMH 1	2.6	-	-	-	-	-	-	60.0	54.7	59.0	63.0	55.0	60.0	58.6
5	Seedtec 2324	21.4	-	-	-	3.6	0.2	-	59.0	55.7	59.7	62.7	53.3	60.3	58.4
6	BIO 9681	-	-	-	-	-	-	-	58.0	55.7	57.7	63.3	54.3	54.7	57.3
	Loc. Mean								59.4	56.1	58.9	63.2	54.3	58.7	58.4
	C.D. (5%)								1.78	2.14	1.31	1.45	2.70	1.31	1.33
	C.V. (%)								1.64	2.10	1.23	1.26	2.73	1.23	1.91
	F (Prob.)								0.09	0.06	0.00	0.72	0.82	0.00	0.15
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED							DAYS TO 75% DRY HUSK						
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean
1	PFMH- 9737	58.3	56.0	57.0	62.0	53.7	57.7	57.4	99.7	106.3	84.3	99.0	102.0	107.3	99.8
2	PAC745	56.7	53.0	54.7	62.3	52.3	57.3	56.1	101.0	105.3	84.0	99.3	100.3	106.7	99.4
3	MCH 38	58.7	54.3	57.3	62.7	53.3	56.3	57.1	100.0	104.3	84.7	99.7	97.7	105.3	98.6
	CHECKS														
4	PMH 1	58.7	54.0	56.7	62.0	54.3	57.3	57.2	100.3	105.0	85.3	99.0	100.0	108.0	99.6
5	Seedtec 2324	58.0	53.0	57.7	61.7	52.0	58.0	56.7	99.3	105.0	81.7	98.7	100.3	109.3	99.1
6	BIO 9681	57.0	53.0	54.7	62.3	52.7	52.3	55.3	98.3	105.7	84.0	99.3	102.0	102.7	98.7
	Loc. Mean	57.9	53.9	56.3	62.2	53.1	56.5	56.6	99.8	105.3	84.0	99.2	100.4	106.6	99.2
	C.D. (5%)	4.56	1.51	1.20	1.45	2.89	1.00	1.24	1.78	1.47	1.66	1.45	8.74	1.93	1.64
	C.V. (%)	4.33	1.54	1.17	1.28	2.99	0.97	1.84	0.98	0.77	1.09	0.80	4.78	0.99	1.39
	F (Prob.)	0.87	0.01	0.00	0.72	0.51	0.00	0.02	0.09	0.15	0.01	0.72	0.88	0.00	0.58

TABLE No. 11 (Cont..)

Sl No	PEDIGREE	MOISTURE % AT HARVEST						ZN 4 Mean	PLANT HEIGHT(cm)						ZN 4 Mean	EAR HEIGHT (cm)				
		ARBH	HYDE	KARI	KOLH	MAND	COIM		ARBH	HYDE	KARI	KOLH	MAND	COIM		ARBH	KARI			
1	PFMH- 9737	27.2	20.8	14.1	13.5	16.8	22.4	19.1	188.5	237.0	191.7	186.7	230.0	204.1	206.3	77.5	53.3			
2	PAC745	27.0	18.6	13.9	14.0	17.3	21.4	18.7	176.0	228.7	178.3	156.7	216.3	212.7	194.8	91.0	61.7			
3	MCH 38	26.6	19.8	14.0	13.7	17.1	25.3	19.4	178.5	207.3	143.3	160.0	237.3	208.5	189.2	83.0	53.3			
CHECKS																				
4	PMH 1	28.3	19.1	14.1	13.4	16.5	21.4	18.8	190.0	240.0	196.7	178.3	234.3	212.6	208.7	104.0	80.0			
5	Seedtec 2324	24.4	21.2	14.1	13.7	16.8	23.9	19.0	174.5	208.0	178.3	171.7	222.7	200.1	192.5	98.5	60.0			
6	BIO 9681	23.2	21.7	14.8	13.3	16.8	17.9	17.9	163.5	202.0	178.3	165.0	217.0	194.5	186.7	69.5	58.3			
	Loc. Mean	26.1	20.2	14.2	13.6	16.9	22.0	18.8	178.5	220.5	177.8	169.7	226.3	205.4	196.4	87.3	61.1			
	C.D. (5%)	2.67	2.46	0.93	1.17	0.75	1.00	1.71	12.46	12.97	12.39	21.63	24.74	8.55	11.77	11.49	13.96			
	C.V. (%)	5.63	6.72	3.62	4.72	2.43	2.50	7.64	3.84	3.23	3.83	7.01	6.01	2.29	5.04	7.24	12.56			
	F (Prob.)	0.01	0.11	0.43	0.76	0.35	0.00	0.59	0.01	0.00	0.00	0.08	0.34	0.00	0.00	0.00	0.02			
Sl No	PEDIGREE	EAR HEIGHT(cm)			ZN 4 Mean	GRAIN SHELLING %			ZN 4 Mean	STAND AT HARVEST ('000/ha)										
		KOLH	MAND	COIM		ARBH	HYDE	KARI		KOLH	MAND	COIM	ZN 4 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean
1	PFMH- 9737	101.7	108.7	105.7	89.4	87.1	82.5	85.5	85.4	80.4	82.2	83.8	60.2	60.7	53.7	72.5	62.1	65.7	62.5	
2	PAC745	76.7	107.0	115.0	90.3	80.4	82.2	84.2	85.7	80.0	80.6	82.2	58.3	63.1	54.4	74.5	65.5	66.7	63.8	
3	MCH 38	76.7	120.3	109.2	88.5	85.4	81.3	88.7	86.3	83.1	79.9	84.1	58.9	63.0	53.3	76.4	62.5	65.3	63.2	
CHECKS																				
4	PMH 1	103.3	119.7	123.2	106.0	83.5	77.4	86.4	84.8	83.0	80.8	82.6	56.9	63.1	55.6	76.9	60.9	65.7	63.2	
5	Seedtec 2324	96.7	113.3	107.7	95.2	86.4	84.6	87.2	86.5	81.7	79.5	84.3	60.6	56.3	53.5	72.5	60.7	64.6	61.4	
6	BIO 9681	81.7	112.0	91.1	82.5	84.1	81.9	84.1	85.3	79.9	81.9	82.8	61.5	53.5	53.5	70.1	65.3	66.2	61.7	
	Loc. Mean	89.4	113.5	108.6	92.0	84.5	81.6	86.0	85.7	81.3	80.8	83.3	59.4	60.0	54.0	73.8	62.8	65.7	62.6	
	C.D. (5%)	21.89	18.41	8.95	10.40	2.02	2.13	2.75	1.27	2.50	1.33	1.96	8.28	4.70	4.45	9.96	3.63	1.32	2.75	
	C.V. (%)	13.45	8.92	4.53	8.57	1.32	1.43	1.76	0.82	1.69	0.90	1.98	7.67	4.31	4.53	7.42	3.17	1.10	3.69	
	F (Prob.)	0.05	0.52	0.00	0.00	0.00	0.00	0.03	0.10	0.05	0.01	0.16	0.83	0.00	0.86	0.65	0.05	0.07	0.44	

TABLE No. 12

PERFORMANCE OF LATE MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA, CHHINDWARA IN AET 2nd YEAR, TRIAL No. TR69Z5 DURING KHARIF (2010).

		GRAIN YIELD (kg/ha) AT 15% MOISTURE														
S1 No	PEDIGREE	UDAI	R	BANS	R	GODH	R	CHHI	R	ZN 5 MEAN	R	OV'L MEAN	R			
1	X7B401	4184	1	6151	1	5412	1	10525	1	6568	1	6568	1			
2	PAC745	4019	3	5606	3	5270	2	10308	2	6300	2	6300	2			
3	PHS-520247 CHECKS	4074	2	5512	5	4443	4	8503	5	5633	3	5633	3			
4	PMH 1	3837	4	5618	2	3687	5	8049	6	5298	6	5298	6			
5	Seedtec 2324	3665	6	5600	4	4665	3	8539	3	5617	4	5617	4			
6	BIO 9681	3705	5	5438	6	3640	6	8510	4	5323	5	5323	5			
	Location Mean	3914		5654		4519		9072		5790		5790				
	Mean Stand	112		89		81		114		99		99				
	C.D. (5%)	257		489		1200		957		725		725				
	C.V. (%)	3.55		4.68		14.37		5.71		-		-				
	F (Prob)	0		0.036		0		0.001		-		-				
	Plot Size	14.4		14.4		14.4		18		-		-				
	AGRONOMY DATA															
	Sowing Date	2-07		9-07		8-07		28-06		-		-				
	Harvest Date	12-10		23-10		12-10		25-10		-		-				
	Irrigation Nos	2		1		-		-		-		-				
	Fertilizer Applied N	90		120		100		120		-		-				
	Fertilizer Applied P	60		40		50		60		-		-				
	Fertilizer Applied K	-		-		50		40		-		-				
S1 No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PMH 1					GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324					GRAIN YIELD % SUPERIORITY OVER THE BIO 9681				
		UDAI	BANS	GODH	CHHI	ZN 5 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN	UDAI	BANS	GODH	CHHI	ZN 5 MEAN
1	X7B401	9	9.5	46.8	30.8	24	14.2	9.8	16	23.3	16.9	12.9	13.1	48.7	23.7	23.4
2	PAC745	4.7	-	42.9	28.1	18.9	9.7	0.1	13	20.7	12.2	8.5	3.1	44.8	21.1	18.4
3	PHS-520247 CHECKS	6.2	-	20.5	5.6	6.3	11.2	-	-	-	0.3	9.9	1.4	22.1	-	5.8
4	PMH 1	-	-	-	-	-	4.7	0.3	-	-	-	3.6	3.3	1.3	-	-
5	Seedtec 2324	-	-	26.5	6.1	6	-	-	-	-	-	-	3	28.2	0.3	5.5
6	BIO 9681	-	-	-	5.7	0.5	1.1	-	-	-	-	-	-	-	-	-

TABLE No. 12 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 50% POLLEN SHED					DAYS TO 75% DRY HUSK				
		UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean
1	X7B401	58.3	54.3	53.0	54.3	55.0	56.3	51.0	51.0	52.7	52.8	89.3	88.7	84.0	91.0	88.3
2	PAC745	58.7	55.7	52.0	55.3	55.4	56.7	52.0	49.7	53.7	53.0	90.0	90.7	82.7	87.7	87.7
3	PHS-520247 CHECKS	56.7	55.0	56.0	57.0	56.2	54.3	51.3	53.0	56.3	53.8	88.0	88.3	82.3	91.0	87.4
4	PMH 1	56.7	54.3	53.0	52.7	54.2	54.3	50.3	51.0	52.7	52.1	87.7	88.0	83.0	86.0	86.2
5	Seedtec 2324	55.7	56.0	53.3	56.7	55.4	53.7	51.7	50.7	55.0	52.8	86.7	91.3	83.7	90.3	88.0
6	BIO 9681	51.0	55.3	51.3	52.7	52.6	55.3	51.7	48.3	52.7	52.0	88.3	90.0	82.7	90.3	87.8
	Loc. Mean	56.2	55.1	53.1	54.8	54.8	55.1	51.3	50.6	53.8	52.7	88.3	89.5	83.1	89.4	87.6
	C.D. (5%)	8.93	1.31	0.92	1.62	2.45	1.08	1.45	0.64	1.73	1.93	1.97	1.59	4.45	1.36	2.09
	C.V. (%)	8.74	1.31	0.95	1.62	2.96	1.08	1.55	0.69	1.76	2.43	1.22	0.98	2.95	0.83	1.59
	F (Prob.)	0.49	0.08	0.00	0.00	0.08	0.00	0.23	0.00	0.00	0.45	0.04	0.00	0.95	0.00	0.38
		MOISTURE % AT HARVEST					PLANT HEIGHT (cm)					EAR HEIGHT (cm)				
Sl No	PEDIGREE	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean
1	X7B401	15.5	13.4	22.4	16.8	17.0	150.0	215.5	165.0	231.7	190.6	70.0	117.2	80.3	120.0	96.9
2	PAC745	16.0	18.9	21.1	18.8	18.7	158.3	194.0	173.7	241.3	191.8	65.0	98.6	84.0	115.0	90.7
3	PHS-520247 CHECKS	14.9	18.8	17.4	16.2	16.8	145.0	244.9	189.3	275.0	213.6	51.3	120.7	84.3	118.3	93.7
4	PMH 1	16.0	17.6	22.8	18.0	18.6	151.7	217.4	169.3	250.0	197.1	60.0	118.6	76.7	135.0	97.6
5	Seedtec 2324	15.5	17.6	20.3	15.2	17.1	153.3	202.2	165.7	226.7	187.0	55.0	107.4	89.0	113.3	91.2
6	BIO 9681	15.1	18.0	19.3	16.8	17.3	153.3	203.9	158.3	211.7	181.8	50.0	94.0	60.3	91.7	74.0
	Loc. Mean	15.5	17.4	20.5	17.0	17.6	151.9	213.0	170.2	239.4	193.6	58.6	109.4	79.1	115.6	90.7
	C.D. (5%)	0.44	3.66	1.41	1.09	2.35	20.45	14.62	12.31	13.04	18.32	13.74	18.04	12.40	12.61	11.93
	C.V. (%)	1.55	11.60	3.77	3.55	8.88	7.40	3.77	3.98	2.99	6.28	12.90	9.06	8.62	6.00	8.73
	F (Prob.)	0.00	0.06	0.00	0.00	0.39	0.80	0.00	0.00	0.00	0.03	0.05	0.03	0.01	0.00	0.01
		GRAIN SHELLING %					STAND AT HARVEST ('000/ha)									
Sl No	PEDIGREE	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean					
1	X7B401	82.9	72.9	85.3	84.7	81.4	81.7	60.6	65.3	66.7	68.6					
2	PAC745	82.0	73.5	78.6	80.4	78.6	77.5	61.3	59.3	62.8	65.2					
3	PHS-520247 CHECKS	84.0	71.9	78.9	76.9	77.9	79.9	62.5	58.8	65.4	66.6					
4	PMH 1	84.1	73.4	79.9	80.2	79.4	76.6	60.9	53.7	65.4	64.1					
5	Seedtec 2324	84.1	72.4	80.4	82.4	79.8	73.6	62.0	57.6	66.3	64.9					
6	BIO 9681	84.0	72.2	80.4	80.8	79.3	78.0	61.6	43.5	54.3	59.3					
	Loc. Mean	83.5	72.7	80.6	80.9	79.4	77.9	61.5	56.4	63.5	64.8					
	C.D. (5%)	0.47	2.18	2.06	3.43	2.46	3.56	2.35	5.74	8.68	5.86					
	C.V. (%)	0.31	1.65	1.40	2.33	2.06	2.51	2.10	5.60	7.52	6.00					
	F (Prob.)	0.00	0.53	0.00	0.01	0.12	0.01	0.53	0.00	0.07	0.07					

TABLE NO 13

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DMR DELHI KARNAL, LUDHIANA, PANTNAGAR, KANPUR IN AET 2nd YEAR, TRIAL No. TR70Z2 DURING KHARIF (2010).

GRAIN YIELD (kg/ha) AT 15% MOISTURE													
S1 No	PEDIGREE	DELH	R	KARN	R	LUDH	R	PANT	R	KANP	R	ZN 2 MEAN	R
1	KMH-3712	6498	1	3781	4	11659	1	10933	1	9605	2	7886	1
2	JH 31242	6352	2	4803	1	10422	2	9231	3	9882	1	7865	2
3	KH-9452	5906	3	3874	3	7613	4	9233	2	9600	3	6748	3
CHECKS													
4	Navjot	4076	5	3980	2	4951	5	6753	4	9441	4	5612	5
5	BIO 9637	4570	4	3774	5	7814	3	6293	5	9389	5	6387	4
	Location Mean	5480		4042		8492		8489		9584		6899	
	Mean Stand	89		90		117		107		107		101	
	C.D. (5%)	2047		737		1062		3715		478		1081	
	C.V. (%)	19.35		9.45		6.48		22.67		2.58		-	
	F (Prob)	0.004		0.004		0		0.045		0.446		-	
	Plot Size	18		16.8		16.38		18		12		-	
AGRONOMY DATA													
	Sowing Date	12-07		26-06		29-06		16-06		14-07		-	
	Harvest Date	24-10		29-09		10-11		28-09		30-10		-	
	Irrigation Nos	-		4		2		-		-		-	
	Fertilizer Applied N	150		150		90		120		120		-	
	Fertilizer Applied P	75		60		30		60		60		-	
	Fertilizer Applied K	75		60		-		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) and Monitoring Committee report: PANT 22.7 %

S1 No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot ZN 2					GRAIN YIELD % SUPERIORITY OVER THE BIO 9637 ZN 2					
		DELH	KARN	LUDH	PANT	KANP	MEAN	DELH	KARN	LUDH	KANP	MEAN
1	KMH-3712	59.4	-	135.5	61.9	1.7	40.5	42.2	0.2	49.2	2.3	23.5
2	JH 31242	55.9	20.7	110.5	36.7	4.7	40.1	39	27.3	33.4	5.3	23.1
3	KH-9452	44.9	-	53.8	36.7	1.7	20.2	29.2	2.7	-	2.2	5.7
CHECKS												
4	Navjot	-	-	-	-	-	-	-	5.5	-	0.6	-
5	BIO 9637	12.1	-	57.8	-	-	13.8	-	-	-	-	-

TABLE NO 13 (cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING						ZN 2 Mean	DAYS TO 50% POLLEN SHED					ZN 2 Mean	DAYS TO 75% DRY HUSK					ZN 2 Mean
		DELH	KARN	LUDH	PANT	KANP	DELH		KARN	LUDH	KANP	DELH	KARN		LUDH	KANP				
1	KMH-3712	54.0	53.7	50.0	56.0	48.0	52.3	52.3	51.0	49.3	43.7	49.1	99.0	86.7	84.3	74.0	86.0			
2	JH 31242	52.3	53.7	48.3	56.0	47.0	51.5	51.0	51.0	48.3	42.3	48.2	97.7	85.0	82.0	73.0	84.4			
3	KH-9452	55.3	51.3	51.3	58.0	49.3	53.1	53.7	49.0	49.7	44.7	49.3	100.0	83.0	79.7	76.0	84.7			
4	Navjot	52.7	54.3	48.7	55.3	48.7	51.9	50.7	52.3	47.7	44.0	48.7	97.3	85.7	81.3	75.0	84.8			
5	BIO 9637	54.7	50.3	49.3	55.3	49.3	51.8	53.7	47.7	49.0	44.7	48.8	100.0	85.3	83.7	79.0	87.0			
	Loc. Mean	53.8	52.7	49.5	56.1	48.5	52.1	52.3	50.2	48.8	43.9	48.8	98.8	85.1	82.2	75.4	85.4			
	C.D. (5%)	1.00	4.38	1.35	1.11	1.61	1.69	0.97	4.79	1.24	1.29	2.23	1.48	2.78	2.48	1.03	2.43			
	C.V. (%)	0.99	4.41	1.45	1.05	1.77	2.42	0.99	5.07	1.35	1.56	2.97	0.79	1.74	1.60	0.73	1.84			
	F (Prob.)	0.00	0.25	0.01	0.00	0.05	0.36	0.00	0.27	0.03	0.02	0.85	0.01	0.13	0.02	0.00	0.17			
Sl No	PEDIGREE	MOISTURE % AT HARVEST						ZN 2 Mean	PLANT HEIGHT (cm)					ZN 2 Mean	EAR HEIGHT (cm)					ZN 2 Mean
		DELH	KARN	LUDH	PANT	KANP	DELH		KARN	LUDH	PANT	KANP	DELH		KARN	PANT	KANP			
1	KMH-3712	29.2	32.8	28.6	21.5	15.0	25.4	192.7	186.7	203.3	240.7	186.3	201.9	94.0	83.3	107.7	85.0	92.5		
2	JH 31242	26.5	29.6	25.9	19.7	15.0	23.3	202.0	190.0	205.0	233.0	191.3	204.3	104.3	203.3	97.3	101.0	126.5		
3	KH-9452	31.1	30.9	27.3	19.9	15.0	24.8	193.0	188.3	183.3	228.0	170.3	192.6	85.0	98.3	93.3	78.7	88.8		
4	Navjot	27.6	31.8	25.2	21.3	15.0	24.2	196.0	203.3	208.3	229.3	220.0	211.4	91.7	106.7	98.0	105.3	100.4		
5	BIO 9637	25.6	30.1	25.4	20.7	15.0	23.3	206.0	200.0	226.7	248.7	196.0	215.5	101.3	101.7	95.3	95.7	98.5		
	Loc. Mean	28.0	31.0	26.5	20.6	15.0	24.2	197.9	193.7	205.3	235.9	192.8	205.1	95.3	118.7	98.3	93.1	101.4		
	C.D. (5%)	0.95	-	1.08	3.83	-	1.50	31.14	21.12	16.88	22.40	12.36	12.28	30.07	144.04	14.78	3.54	36.16		
	C.V. (%)	1.81	-	2.16	9.88	-	4.62	8.35	5.79	4.37	5.04	3.41	4.46	16.76	64.47	7.98	2.02	23.16		
	F (Prob.)	0.00	0.00	0.00	0.77	-	0.04	0.82	0.34	0.00	0.27	0.00	0.01	0.61	0.39	0.29	0.00	0.24		
Sl No	PEDIGREE	GRAIN SHELLING %						ZN 2 Mean	STAND AT HARVEST ('000/ha)						ZN 2 Mean					
		DELH	KARN	LUDH	PANT	KANP	DELH		KARN	LUDH	PANT	KANP								
1	KMH-3712	86.0	85.0	88.7	87.5	75.0	84.4	52.8	52.6	71.4	58.1	89.2	64.8							
2	JH 31242	84.8	85.0	88.4	82.5	75.5	83.2	55.0	62.3	75.5	63.3	88.3	68.9							
3	KH-9452	84.7	81.0	84.0	81.3	75.0	81.2	52.6	49.6	71.2	58.1	90.0	64.3							
4	Navjot	87.4	78.0	86.3	85.7	75.0	82.5	47.2	57.9	71.4	59.4	88.1	64.8							
5	BIO 9637	85.5	81.0	88.1	82.4	74.5	82.3	38.9	46.8	68.4	57.8	91.1	60.6							
	Loc. Mean	85.6	82.0	87.1	83.9	75.0	82.7	49.3	53.8	71.6	59.4	89.3	64.7							
	C.D. (5%)	2.35	-	0.99	-	1.07	2.50	6.78	6.07	6.08	6.58	3.33	4.81							
	C.V. (%)	1.46	-	0.60	-	0.76	2.25	7.31	5.99	4.51	5.89	1.98	5.54							
	F (Prob.)	0.13	-	0.00	0.00	0.40	0.13	0.00	0.00	0.21	0.35	0.29	0.04							

TABLE NO. 14

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAHRAICH, DHOLI, BHUBANESHWAR, VARANASI, RANCHI, AMBIKAPUR IN AET 2nd YEAR, TRIAL No. TR70Z3 DURING KHARIF (2010).

Sl	No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD % SUPERIORITY OVER THE HM-8								
			BAHR	R	DHOL	R	BHUB	R	VARA	R	RANC	R	AMBI	R	MEAN	R	BAHR	DHOL	BHUB	VARA	RANC	AMBI	MEAN
	1	KMH-3712	9263	3	4785	4	5371	3	7379	4	9180	5	4912	6	6731	4	-	38.3	21.1	16.6	30.3	39.4	41.4
	2	JH 31242	8909	4	5673	1	5620	1	7764	3	8571	6	5577	1	6967	2	-	64	26.8	22.7	21.7	58.3	46.3
	3	BL 2802	10769	1	5419	2	5247	4	6687	6	11570	1	5250	5	6988	1	-	56.7	18.3	5.7	64.3	49	46.8
	4	KH-9452	8196	6	4499	5	5571	2	7794	2	9896	4	5567	2	6782	3	-	30.1	25.7	23.2	40.5	58	42.4
	5	KH-717	6934	7	4169	7	5142	5	6962	5	6224	10	5524	3	6141	7	-	20.5	16	10.1	-	56.8	29
	6	MCH 37	8791	5	4308	6	4459	9	8266	1	10439	2	5382	4	6724	5	-	24.5	0.6	30.7	48.2	52.7	41.2
	7	VMH 4060	9484	2	5187	3	4677	6	6651	7	10058	3	4716	8	6382	6	-	50	5.5	5.1	42.8	33.8	34
		CHECKS																					
	8	HM-8	-		3459	9	4434	10	6326	8	7044	8	3524	9	4761	9	-	-	-	-	-	-	-
	9	HM-9	6036	8	3619	8	4660	7	6133	9	7497	7	3216	10	5011	8	-	4.6	5.1	-	6.4	-	5.2
	10	Navjot	5086	9	2457	10	4625	8	3804	10	7025	9	4758	7	4568	10	-	-	4.3	-	-	35	-
		Location Mean	8163		4358		4981		6777		8750		4843		6191								
		Mean Stand	86		91		98		97		89		65		86								
		C.D. (5%)	874		2811		95		978		3361		939		722								
		C.V. (%)	6.15		37.44		1.11		8.38		22.3		11.26		-								
		F (Prob)	0		0		0		0		0		0		-								
		Plot Size	14.4		18		14.4		14.4		16.8		18		-								
		AGRONOMY DATA																					
		Sowing Date	17-07		17-07		5-07		5-07		2-07		12-07		-								
		Harvest Date	23-10		-		19-10		9-10		11-10		-		-								
		Irrigation Nos	-		-		-		2		-		-		-								
		Fertilizer App. N	120		150		120		120		120		120		-								
		Fertilizer App. P	60		70		60		60		60		60		-								
		Fertilizer App. K	60		50		60		40		40		40		-								
		LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%)																					

Sl	No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9					GRAIN YIELD % SUPERIORITY OVER THE Navjot								
			BAHR	DHOL	BHUB	VARA	RANC	AMBI	MEAN	BAHR	DHOL	BHUB	VARA	RANC	AMBI	MEAN
	1	KMH-3712	53.5	32.2	15.3	20.3	22.5	52.7	34.3	82.1	94.8	16.1	94	30.7	3.2	47.4
	2	JH 31242	47.6	56.8	20.6	26.6	14.3	73.4	39	75.2	130.9	21.5	104.1	22	17.2	52.5
	3	BL 2802	78.4	49.7	12.6	9	54.3	63.3	39.5	111.8	120.5	13.4	75.8	64.7	10.4	53
	4	KH-9452	35.8	24.3	19.6	27.1	32	73.1	35.3	61.2	83.1	20.4	104.9	40.9	17	48.5
	5	KH-717	14.9	15.2	10.4	13.5	-	71.8	22.5	36.4	69.7	11.2	83	-	16.1	34.4
	6	MCH 37	45.6	19	-	34.8	39.2	67.4	34.2	72.9	75.3	-	117.3	48.6	13.1	47.2
	7	VMH 4060	57.1	43.3	0.4	8.5	34.2	46.6	27.4	86.5	111.1	1.1	74.9	43.2	-	39.7
		CHECKS														
	8	HM-8	-	-	-	3.1	-	9.6	-	-	40.8	-	66.3	0.3	-	4.2
	9	HM-9	-	-	-	-	-	-	-	18.7	47.3	0.7	61.2	6.7	-	9.7
	10	Navjot	-	-	-	-	-	48	-	-	-	-	-	-	-	-

TABLE NO. 14 (CONT..)

Sl No	PEDIGREE	DAYS TO 50% SILKING						ZN 3 Mean	DAYS TO 50% POLLEN SHED						ZN 3 Mean
		BAHR	DHOL	BHUB	VARA	RANC	AMBI		BAHR	DHOL	BHUB	VARA	RANC	AMBI	
1	KMH-3712	52.7	51.3	53.0	53.7	53.3	52.0	52.7	51.0	50.0	51.0	49.3	49.0	49.3	49.9
2	JH 31242	54.3	51.7	53.3	55.3	52.7	48.0	52.6	52.3	49.0	51.7	51.0	47.7	45.3	49.5
3	BL 2802	55.7	54.3	53.3	60.3	55.7	52.3	55.3	53.7	52.7	51.0	54.7	51.3	49.3	52.1
4	KH-9452	52.0	51.7	49.7	54.7	54.3	51.7	52.3	50.0	50.3	46.0	50.7	49.7	48.7	49.2
5	KH-717	53.0	52.7	52.3	55.7	54.3	51.7	53.3	51.0	51.0	50.0	52.3	49.7	49.0	50.5
6	MCH 37	55.0	55.7	51.3	58.3	56.3	54.3	55.2	52.3	54.0	49.0	53.0	51.0	51.3	51.8
7	VMH 4060	52.7	52.3	52.3	56.3	56.0	52.0	53.6	50.7	51.3	49.7	52.3	51.7	49.3	50.8
	CHECKS														
8	HM-8	-	56.3	51.0	58.0	56.0	53.7	55.0	-	55.0	47.7	54.3	51.0	51.0	51.8
9	HM-9	55.0	54.0	52.3	57.3	54.3	52.3	54.2	54.0	53.0	50.0	53.0	50.0	49.7	51.6
10	Navjot	53.7	50.7	51.7	59.0	51.0	49.3	52.6	50.3	48.3	49.7	52.3	47.3	46.3	49.1
	Loc. Mean	53.8	53.1	52.0	56.9	54.4	51.7	53.7	51.7	51.5	49.6	52.3	49.8	48.9	50.6
	C.D. (5%)	1.92	2.17	1.64	2.86	1.68	1.79	1.57	1.00	2.24	1.61	2.19	2.23	1.81	1.61
	C.V. (%)	2.31	2.38	1.84	2.93	1.80	2.02	2.52	1.25	2.54	1.89	2.44	2.61	2.16	2.74
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
Sl No	PEDIGREE	DAYS TO 75% DRY HUSK						ZN 3 Mean	MOISTURE % AT HARVEST						ZN 3 Mean
		BAHR	DHOL	BHUB	VARA	RANC	AMBI		BAHR	DHOL	BHUB	VARA	RANC		
1	KMH-3712	87.3	84.3	90.0	85.0	95.7	87.0	88.2	26.7	26.2	18.4	27.5	21.8	24.1	
2	JH 31242	83.7	82.0	89.0	86.0	95.7	83.3	86.6	24.9	24.2	18.8	29.0	23.4	24.0	
3	BL 2802	89.3	85.7	90.0	93.7	96.3	89.0	90.7	27.1	32.4	19.1	32.1	22.4	26.6	
4	KH-9452	87.7	81.0	89.3	82.3	97.7	84.3	87.1	28.1	20.0	19.9	25.9	22.6	23.3	
5	KH-717	84.7	82.0	87.3	85.7	96.3	84.0	86.7	26.2	26.4	18.8	27.4	19.9	23.7	
6	MCH 37	89.7	86.0	87.7	92.7	98.7	90.0	90.8	26.7	27.6	20.3	28.8	24.0	25.5	
7	VMH 4060	87.7	85.3	90.3	90.3	98.0	87.0	89.8	27.2	30.3	19.9	27.3	22.1	25.3	
	CHECKS														
8	HM-8	-	91.0	89.0	93.0	98.7	92.7	92.9	-	27.9	19.4	26.8	19.4	23.4	
9	HM-9	82.7	76.3	89.3	91.7	98.0	92.0	88.3	24.8	22.7	18.8	29.0	23.2	23.7	
10	Navjot	84.3	80.3	90.0	90.0	95.7	81.3	86.9	23.9	22.1	18.2	26.9	24.4	23.1	
	Loc. Mean	86.3	83.4	89.2	89.0	97.1	87.1	88.8	26.2	26.0	19.2	28.0	22.3	24.3	
	C.D. (5%)	1.47	10.92	2.23	2.46	1.20	0.96	2.92	0.47	-	-	2.16	0.51	2.61	
	C.V. (%)	1.10	7.63	1.46	1.61	0.72	0.64	2.82	1.17	-	-	4.49	1.33	8.38	
	F (Prob.)	0.00	0.36	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	

TABLE NO. 14 (CONT..)

Sl No	PEDIGREE	PLANT HEIGHT (cm)						ZN 3 Mean	EAR HEIGHT (cm)					
		BAHR	DHOL	BHUB	VARA	RANC	AMBI		BAHR	BHUB	VARA	RANC	AMBI	ZN 3 Mean
1	KMH-3712	168.0	176.3	159.6	195.0	203.7	263.7	194.4	58.3	76.8	110.0	101.2	98.1	88.9
2	JH 31242	159.3	167.2	167.4	210.0	190.6	245.7	190.0	53.3	73.6	107.5	100.1	89.7	84.9
3	BL 2802	164.0	142.2	174.6	225.0	190.1	243.6	189.9	56.7	76.9	113.8	86.3	86.8	84.1
4	KH-9452	162.7	150.0	149.3	185.0	177.3	239.2	177.3	63.7	60.8	97.5	91.1	95.6	81.7
5	KH-717	176.0	147.0	137.1	190.0	180.1	229.1	176.5	75.7	62.9	106.3	92.2	92.5	85.9
6	MCH 37	177.3	169.3	165.2	225.0	208.1	233.5	196.4	68.7	69.6	107.5	93.5	74.5	82.8
7	VMH 4060	173.0	165.5	175.7	217.5	200.3	256.4	198.1	86.7	73.5	112.5	98.9	87.2	91.8
CHECKS														
8	HM-8	-	136.2	144.0	173.8	176.5	219.5	170.0	-	65.1	90.0	79.7	66.5	75.3
9	HM-9	176.3	141.5	162.5	191.3	169.1	217.3	176.3	57.3	68.5	96.3	80.9	66.9	74.0
10	Navjot	164.7	173.2	153.2	201.3	193.1	239.0	187.4	78.3	66.9	101.3	98.9	79.1	84.9
	Loc. Mean	169.0	156.8	158.9	201.4	188.9	238.7	185.6	66.5	69.5	104.3	92.3	83.7	83.4
	C.D. (5%)	24.83	15.46	8.06	10.61	21.82	20.20	12.03	21.75	4.85	6.84	12.51	16.10	10.35
	C.V. (%)	9.52	5.75	2.96	3.07	6.73	4.93	5.57	21.18	4.07	3.83	7.90	11.22	9.67
	F (Prob.)	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.04

Sl No	PEDIGREE	GRAIN SHELLING %						ZN 3 Mean	STAND AT HARVEST ('000/ha)					
		BAHR	BHUB	VARA	RANC	AMBI	BAHR		DHOL	BHUB	VARA	RANC	AMBI	ZN 3 Mean
1	KMH-3712	76.7	80.0	77.0	86.0	82.9	80.5	54.4	58.7	68.1	76.4	61.5	38.3	59.6
2	JH 31242	75.4	78.9	78.8	85.5	81.4	80.0	61.8	56.7	69.4	75.7	60.9	48.7	62.2
3	BL 2802	76.6	77.3	75.5	85.8	81.0	79.2	62.5	52.4	68.1	69.4	55.0	29.6	56.2
4	KH-9452	74.7	79.3	76.8	84.0	80.9	79.1	59.3	61.9	69.4	77.5	62.1	37.0	61.2
5	KH-717	73.2	78.8	77.3	82.3	79.0	78.1	62.3	59.3	68.5	75.7	56.5	39.4	60.3
6	MCH 37	76.6	76.9	79.0	86.2	83.9	80.5	55.6	50.6	67.8	63.9	51.6	40.9	55.1
7	VMH 4060	76.4	78.5	77.0	85.5	79.5	79.4	60.9	54.6	67.4	77.5	60.5	32.4	58.9
CHECKS														
8	HM-8	-	79.5	75.0	82.7	78.0	78.8	-	9.8	66.7	16.7	19.6	25.7	27.7
9	HM-9	72.7	79.2	76.0	82.0	82.2	78.4	60.4	44.3	66.9	65.3	45.6	25.6	51.3
10	Navjot	80.3	76.6	76.8	86.2	80.3	80.0	60.6	58.1	68.5	72.7	56.3	44.3	60.1
	Loc. Mean	75.8	78.5	76.9	84.6	80.9	79.4	59.8	50.6	68.1	67.1	53.0	36.2	55.3
	C.D. (5%)	1.44	-	1.66	1.39	7.80	2.12	3.15	4.91	2.51	7.36	4.58	10.23	8.67
	C.V. (%)	1.23	-	1.26	0.96	5.62	2.08	3.42	5.65	2.15	6.39	5.04	16.46	13.50
	F (Prob.)	0.00	-	0.00	0.00	0.87	0.28	0.00	0.00	0.32	0.00	0.00	0.00	0.00

TABLE No. 15

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT ARBHAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN TRIAL No. TR70Z4 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											GRAIN YIELD % SUPERIORITY OVER THE HM-8						HM-8			
		ARBH	R	HYDE	R	KARI	R	KOLH	R	MAND	R	COIM	ZN 4	MEAN	R	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4
1	KMH-3712	7524	3	8062	2	7680	2	8099	3	11644	1	11148	4	8602	1	-	14.5	28.6	51	-	83.9	40.4
2	VMH 4060	7092	4	7321	6	6787	4	7453	4	10111	3	11582	2	7753	5	-	3.9	13.6	38.9	-	91.1	26.5
3	BL 2802	8900	1	7681	4	6388	8	8391	2	9742	5	12251	1	8221	3	-	9	6.9	56.4	-	102.1	34.1
4	KH-9452	4564	7	8783	1	6445	7	8705	1	8119	7	11299	3	7323	6	-	24.7	7.9	62.2	-	86.4	19.5
5	KH-717	4943	6	7767	3	6699	5	6620	7	9279	6	9407	8	7062	7	-	10.3	12.1	23.4	-	55.2	15.2
6	EC-3160	4382	8	5634	11	5492	11	5933	9	7760	8	8342	9	5840	10	-	-	-	10.6	-	37.6	-
7	MCH 37	8477	2	7209	7	7657	3	7160	5	11095	2	10229	6	8320	2	-	2.3	28.2	33.4	-	68.8	35.8
8	JH 31242	6654	5	7062	8	9113	1	7097	6	9798	4	10573	5	7945	4	-	0.3	52.5	32.3	-	74.5	29.6
CHECKS																						
9	HM-8	-		7044	9	5974	9	5365	10	-		6061	11	6128	8	-	-	-	-	-	-	-
10	HM-9	2664	10	7582	5	6681	6	6450	8	-		9508	7	5844	9	-	7.6	11.8	20.2	-	56.9	-
11	Navjot	2921	9	6438	10	5794	10	4319	11	6111	9	7347	10	5117	11	-	-	-	-	-	21.2	-
	Location Mean	5812		7326		6792		6872		9295		9795		7219								
	Mean Stand	83		93		96		109		83		87		93								
	C.D. (5%)	1721		1458		296		1170		522		3905		1033								
	C.V. (%)	17.19		11.65		2.55		9.97		3.23		23.33		-								
	F (Prob)	0		0.043		0		0		0		0		-								
	Plot Size	18		18		18		18		14		14.4		-								
AGRONOMY DATA																						
	Sowing Date	5-08		19-06		16-07		8-07		21-07		6-07		-								
	Harvest Date	21-12		25-10		-		2-12		12-10		3-11		-								
	Irrigation Nos	4		-		-		-		6		9		-								
	Fertilizer Appl. N	150		180		200		120		150		150		-								
	Fertilizer Appl. P	75		60		80		60		75		75		-								
	Fertilizer Appl. K	37.5		50		60		40		40		75		-								
LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : COIM 23.3 %																						

TABLE No. 15 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-9							GRAIN YIELD % SUPERIORITY OVER THE Navjot							DAYS TO 50% SILKING			
		ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	ZN 4	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	ZN 4	ARBH	HYDE
1	KMH-3712	182.4	6.3	15	25.6	-	17.2	47.2	157.6	25.2	32.5	87.5	90.5	51.7	68.1	55.7	51.7	54.3	62.3
2	VMH 4060	166.2	-	1.6	15.6	-	21.8	32.7	142.8	13.7	17.1	72.6	65.5	57.7	51.5	57.7	51.0	58.0	63.7
3	BL 2802	234.1	1.3	-	30.1	-	28.9	40.7	204.7	19.3	10.2	94.3	59.4	66.8	60.7	57.0	52.7	57.0	63.3
4	KH-9452	71.3	15.8	-	35	-	18.8	25.3	56.2	36.4	11.2	101.6	32.9	53.8	43.1	57.0	54.0	54.3	62.0
5	KH-717	85.5	2.4	0.3	2.6	-	-	20.8	69.2	20.6	15.6	53.3	51.8	28	38	55.0	53.0	54.3	62.7
6	EC-3160	64.5	-	-	-	-	-	-	50	-	-	37.4	27	13.6	14.1	57.0	50.7	55.0	62.7
7	MCH 37	218.2	-	14.6	11	-	7.6	42.4	190.2	12	32.1	65.8	81.6	39.2	62.6	58.3	51.3	55.7	64.7
8	JH 31242	149.7	-	36.4	10	-	11.2	35.9	127.8	9.7	57.3	64.3	60.3	43.9	55.3	54.7	51.7	55.3	62.3
CHECKS																			
9	HM-8	-	-	-	-	-	-	4.9	-	9.4	3.1	24.2	-	-	19.8	-	52.7	59.0	63.3
10	HM-9	-	-	-	-	-	-	-	-	17.8	15.3	49.3	-	29.4	14.2	58.0	53.0	56.7	63.3
11	Navjot	9.6	-	-	-	-	-	-	-	-	-	-	-	-	-	55.3	52.7	54.7	63.3
Loc. Mean																56.6	52.2	55.8	63.1
C.D. (5%)																1.85	2.17	4.56	1.65
C.V. (%)																2.11	2.45	4.80	1.54
F (Prob.)																0.00	0.11	0.42	0.12

Sl No	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% POLLEN SHED							DAYS TO 75% DRY HUSK							
		MAND	COIM	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	ZN 4	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean
1	KMH-3712	53.0	54.7	55.3	55.0	50.0	51.7	61.3	51.7	53.0	53.8	74.3	91.7	77.7	93.3	100.3	99.3	89.4	
2	VMH 4060	54.0	56.3	56.8	57.0	48.7	51.7	62.7	52.0	54.0	54.3	74.7	93.3	78.3	94.7	101.7	102.0	90.8	
3	BL 2802	54.3	56.0	56.7	55.0	49.7	54.0	62.3	53.3	54.0	54.7	75.3	94.3	77.7	93.7	101.7	100.0	90.4	
4	KH-9452	53.0	55.7	56.0	55.0	50.7	51.7	61.0	52.0	53.3	53.9	75.0	95.3	79.7	93.0	94.7	100.7	89.7	
5	KH-717	52.0	54.3	55.2	54.0	50.3	51.3	61.7	51.0	52.3	53.4	74.0	94.3	78.7	93.7	96.0	98.7	89.2	
6	EC-3160	51.3	51.7	54.7	55.0	48.3	52.0	61.7	50.0	49.7	52.8	75.0	93.7	78.7	93.7	98.7	95.7	89.2	
7	MCH 37	54.0	56.3	56.7	57.0	49.0	53.0	63.7	53.0	54.3	55.0	76.0	96.0	77.3	95.0	102.0	101.3	91.3	
8	JH 31242	51.7	52.3	54.7	53.7	48.7	52.0	61.3	50.7	50.3	52.8	74.3	95.7	78.7	93.3	94.3	96.3	88.8	
CHECKS																			
9	HM-8	-	55.7	57.7	-	49.3	56.0	62.3	-	53.3	55.3	-	92.3	78.7	94.3	-	101.3	91.7	
10	HM-9	-	54.0	57.0	57.7	49.7	54.0	62.3	-	52.0	55.1	76.0	94.3	78.7	94.3	-	98.0	88.3	
11	Navjot	51.3	51.3	54.8	53.3	49.7	51.7	62.3	49.3	49.0	52.6	74.0	95.7	79.7	94.3	94.7	95.0	88.9	
Loc. Mean		52.7	54.4	56.0	55.3	49.5	52.6	62.1	51.4	52.3	54.0	74.9	94.2	78.5	93.9	98.2	98.9	89.8	
C.D. (5%)		0.98	1.01	1.38	1.66	1.96	3.42	1.65	0.97	0.74	1.32	1.74	2.03	1.46	1.33	1.78	2.45	3.60	
C.V. (%)		1.33	1.09	2.12	1.94	2.32	3.81	1.56	1.35	0.83	2.10	1.50	1.26	1.09	0.83	1.30	1.46	3.46	
F (Prob.)		0.00	0.00	0.00	0.00	0.33	0.18	0.12	0.00	0.00	0.00	0.00	0.00	0.05	0.10	0.00	0.00	0.68	

TABLE No. 15 (Cont..)

Sl No	PEDIGREE	MOISTURE % AT HARVEST							PLANT HEIGHT(cm)							EAR HEIGHT(cm)		
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	ARBH	KARI	KOLH
1	KMH-3712	15.8	21.4	14.3	14.6	17.8	20.8	17.4	167.5	231.7	190.0	153.3	214.0	199.3	192.6	70.5	78.3	85.0
2	VMH 4060	12.9	18.4	14.2	13.6	17.4	21.3	16.3	171.5	223.0	165.0	171.7	189.3	195.2	186.0	75.0	53.3	85.0
3	BL 2802	18.0	24.7	13.9	13.2	18.8	21.6	18.3	171.0	212.7	161.7	156.7	186.0	182.8	178.5	72.5	51.7	78.3
4	KH-9452	12.8	22.9	14.2	13.7	18.6	19.0	16.8	179.5	213.3	165.0	141.7	199.0	187.2	181.0	82.5	60.0	75.0
5	KH-717	12.6	21.3	13.9	14.6	17.7	21.4	16.9	171.5	211.3	170.0	140.0	202.3	174.3	178.2	73.5	58.3	73.3
6	EC-3160	13.1	23.2	14.4	13.7	15.6	21.6	16.9	168.0	221.7	185.0	158.3	195.3	203.8	188.7	73.5	63.3	83.3
7	MCH 37	16.1	22.2	14.9	14.3	16.7	23.0	17.9	174.0	226.7	188.3	181.7	202.0	206.1	196.5	77.0	61.7	88.3
8	JH 31242	14.1	18.4	14.3	13.0	16.3	18.8	15.8	169.0	222.7	191.7	146.7	195.3	190.4	186.0	72.5	63.3	75.0
CHECKS																		
9	HM-8	-	19.7	14.7	14.9	-	20.1	17.3	-	208.0	150.0	150.0	-	186.5	173.6	-	33.3	73.3
10	HM-9	13.2	24.3	14.3	13.0	-	20.5	17.0	172.0	215.3	153.3	146.7	-	193.5	176.2	76.0	48.3	75.0
11	Navjot	12.5	16.4	14.2	13.8	17.6	18.3	15.5	172.0	224.0	181.7	160.0	199.0	201.2	189.6	74.5	71.7	85.0
	Loc. Mean	14.1	21.2	14.3	13.9	17.4	20.6	16.9	171.6	219.1	172.9	155.2	198.0	192.8	184.3	74.8	58.5	79.7
	C.D. (5%)	0.77	5.22	0.71	1.23	0.60	1.23	1.67	7.49	10.41	14.77	19.76	14.44	6.50	9.94	8.18	5.28	16.42
	C.V. (%)	3.55	14.49	2.92	5.23	2.49	3.51	8.49	2.82	2.79	5.02	7.48	5.23	1.98	4.65	7.07	5.30	12.10
	F (Prob.)	0.00	0.06	0.24	0.04	0.00	0.00	0.04	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.45
Sl No	PEDIGREE	EAR HEIGHT(cm)			GRAIN SHELLING %				STAND AT HARVEST ('000/ha)									
		MAND	COIM	ZN 4 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean
1	KMH-3712	108.0	107.1	89.8	82.3	79.3	85.1	84.4	84.6	79.0	82.4	50.7	51.5	53.7	61.7	65.0	65.5	58.0
2	VMH 4060	97.3	101.0	82.3	84.0	68.1	84.6	87.2	81.3	81.3	81.1	58.0	54.3	53.0	62.0	59.5	65.0	58.6
3	BL 2802	95.7	95.3	78.7	76.9	75.1	83.9	81.4	78.8	80.9	79.5	48.0	49.8	52.6	56.9	60.0	66.2	55.6
4	KH-9452	95.7	91.3	80.9	74.8	74.0	81.9	86.1	81.4	82.6	80.1	42.4	50.2	53.9	62.2	55.7	66.2	55.1
5	KH-717	101.3	94.5	80.2	81.5	78.6	81.3	82.0	84.3	80.6	81.4	49.1	52.4	53.3	62.6	56.9	66.0	56.7
6	EC-3160	100.7	103.6	84.9	77.9	71.7	83.5	81.4	82.1	79.6	79.4	43.5	49.4	52.8	63.5	55.2	66.2	55.1
7	MCH 37	95.3	104.5	85.4	81.5	80.8	83.6	84.0	83.2	80.3	82.2	54.6	50.0	51.7	55.4	58.6	65.7	56.0
8	JH 31242	98.7	99.7	81.8	82.3	70.5	84.8	81.2	83.1	82.2	80.7	55.0	48.7	53.1	62.8	60.7	65.7	57.7
CHECKS																		
9	HM-8	-	93.1	66.6	-	75.0	84.6	83.9	-	79.1	80.6	-	53.5	53.5	58.3	-	8.8	43.5
10	HM-9	-	101.8	75.3	76.7	76.3	83.3	82.8	-	77.9	79.4	16.7	58.1	54.3	60.6	-	65.5	51.0
11	Navjot	100.0	104.6	87.2	77.3	76.0	87.1	81.9	79.8	83.7	81.0	45.7	48.1	53.7	61.1	63.8	66.2	56.5
	Loc. Mean	99.2	99.7	81.2	79.5	75.0	84.0	83.3	82.1	80.6	80.7	46.4	51.5	53.2	60.6	59.5	60.6	54.9
	C.D. (5%)	7.66	4.95	8.29	2.50	3.61	2.77	4.16	0.93	1.87	2.84	10.76	8.42	2.64	7.85	3.26	2.07	9.85
	C.V. (%)	5.54	2.92	7.99	2.03	2.82	1.93	2.93	0.82	1.36	3.04	14.98	9.60	2.91	7.60	3.93	2.00	15.47
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.02	0.09	0.00	0.00	0.37	0.00	0.43	0.76	0.49	0.00	0.00	0.16

TABLE No. 16

PERFORMANCE OF MEDIUM EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, CHHINDWARA IN TRIAL No. TR70Z5 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE Navjot			
		UDAI	R	BANS	R	CHHI	R	ZN 5 MEAN	R	OV'L MEAN	R	UDAI	BANS	CHHI	ZN 5 MEAN
1	KMH-3712	4470	2	6559	1	7203	1	6077	1	6077	1	42.2	51.4	54.1	50.1
2	EH-1858	5461	1	4143	4	4305	5	4637	3	4637	3	73.8	-	-	14.5
CHECKS															
3	Navjot	3143	3	4332	3	4675	4	4050	4	4050	4	-	-	-	-
4	BIO 9637	2461	5	6211	2	6180	2	4951	2	4951	2	-	43.4	32.2	22.2
5	HM 8	2420	6	3485	6	3423	6	3110	6	3110	6	-	-	-	-
6	HM 9	2825	4	3655	5	4694	3	3725	5	3725	5	-	-	0.4	-
	Location Mean	3463		4731		5080		4425		4425					
	Mean Stand	96		77		94		89		89					
	C.D. (5%)	320		1556		1403		1093		1093					
	C.V. (%)	5		17.81		14.96		-		-					
	F (Prob)	0		0		0		-		-					
	Plot Size	14.4		14.4		18		-		-					
AGRONOMY DATA															
	Sowing Date	2-07		9-07		28-06		-		-					
	Harvest Date	13-10		23-10		26-10		-		-					
	Irrigation Nos	-		1		-		-		-					
	Fertilizer Applied N	90		120		120		-		-					
	Fertilizer Applied P	60		40		60		-		-					
	Fertilizer Applied K	-		-		40		-		-					

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GODH 55.1 %

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637					GRAIN YIELD % SUPERIORITY OVER THE HM 8					GRAIN YIELD % SUPERIORITY OVER THE HM 9				
		UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN
1	KMH-3712	81.7	5.6	16.5	22.8	22.8	84.7	88.2	110.4	95.4	95.4	58.2	79.4	53.4	63.2	63.2
2	EH-1858	121.9	-	-	-	-	125.7	18.9	25.8	49.1	49.1	93.3	13.3	-	24.5	24.5
CHECKS																
3	Navjot	27.7	-	-	-	-	29.9	24.3	36.6	30.2	30.2	11.3	18.5	-	8.7	8.7
4	BIO 9637	-	-	-	-	-	1.7	78.2	80.5	59.2	59.2	-	69.9	31.7	32.9	32.9
5	HM 8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	HM 9	14.8	-	-	-	-	16.7	4.9	37.1	19.8	19.8	-	-	-	-	-

TABLE No. 16 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING				ZN 5 Mean	DAYS TO 50% POLLEN SHED				ZN 5 Mean	DAYS TO 75% DRY HUSK				ZN 5 Mean	
		UDAI	BANS	GODH	CHHI		UDAI	BANS	GODH	CHHI		UDAI	BANS	GODH	CHHI		
1	KMH-3712	53.7	44.0	51.3	52.0	50.3	52.3	41.0	49.0	52.0	48.6	88.7	79.7	81.3	88.7	84.6	
2	EH-1858	51.7	44.3	51.7	56.0	50.9	50.3	41.0	49.7	55.7	49.2	88.7	80.0	81.7	88.0	84.6	
	CHECKS																
3	Navjot	56.0	44.3	49.0	52.7	50.5	54.0	41.0	46.0	53.0	48.5	86.3	79.0	78.7	87.0	82.8	
4	BIO 9637	54.0	44.3	50.3	52.7	50.3	53.0	41.3	48.0	52.0	48.6	88.3	80.0	80.7	88.7	84.4	
5	HM 8	53.3	44.3	53.7	56.7	52.0	52.3	41.0	51.7	55.7	50.2	90.3	79.3	84.0	90.7	86.1	
6	HM 9	53.3	44.3	51.0	55.0	50.9	51.7	41.0	48.7	54.7	49.0	89.3	79.0	81.0	90.3	84.9	
	Loc. Mean	53.7	44.3	51.2	54.2	50.8	52.3	41.1	48.8	53.8	49.0	88.6	79.5	81.2	88.9	84.6	
	C.D. (5%)	1.10	2.39	2.46	1.37	2.24	1.13	1.68	2.57	1.69	2.21	1.31	2.30	2.79	1.47	1.31	
	C.V. (%)	1.13	2.96	2.65	1.39	2.92	1.19	2.25	2.90	1.73	2.99	0.82	1.59	1.89	0.91	1.03	
	F (Prob.)	0.00	1.00	0.03	0.00	0.60	0.00	1.00	0.01	0.00	0.60	0.00	0.84	0.04	0.00	0.00	
		MOISTURE % AT HARVEST					PLANT HEIGHT (cm)					EAR HEIGHT (cm)					
Sl No	PEDIGREE	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	
1	KMH-3712	21.2	17.7	19.4	17.5	18.9	195.0	188.9	175.7	210.0	192.4	91.7	102.5	83.7	118.3	99.0	
2	EH-1858	15.0	16.7	18.9	17.9	17.1	205.0	203.2	169.0	218.3	198.9	91.7	100.7	77.7	96.7	91.7	
	CHECKS																
3	Navjot	14.9	17.2	17.1	17.7	16.7	186.7	177.0	172.3	208.3	186.1	90.0	87.3	74.3	108.0	89.9	
4	BIO 9637	15.7	17.7	21.1	15.9	17.6	181.7	220.5	189.3	248.3	210.0	80.0	94.8	73.3	100.0	87.0	
5	HM 8	20.1	17.3	17.6	18.6	18.4	185.0	160.7	141.0	206.7	173.3	91.7	95.6	59.7	98.3	86.3	
6	HM 9	21.1	16.3	21.0	17.7	19.0	190.0	197.3	153.3	213.3	188.5	93.3	92.5	64.0	103.3	88.3	
	Loc. Mean	18.0	17.1	19.2	17.6	18.0	190.6	191.3	166.8	217.5	191.5	89.7	95.6	72.1	104.1	90.4	
	C.D. (5%)	0.45	0.80	3.47	1.39	2.72	11.10	13.94	20.25	12.20	18.13	11.10	11.82	10.77	20.18	9.14	
	C.V. (%)	1.37	2.56	9.94	4.35	10.04	3.20	4.01	6.67	3.08	6.28	6.80	6.80	8.21	10.66	6.71	
	F (Prob.)	0.00	0.02	0.13	0.03	0.37	0.01	0.00	0.00	0.00	0.01	0.18	0.14	0.01	0.25	0.09	
		GRAIN SHELLING %					STAND AT HARVEST ('000/ha)										
Sl No	PEDIGREE	UDAI	BANS	GODH	CHHI	ZN 5 Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean						
1	KMH-3712	79.4	72.8	78.4	79.8	77.6	70.4	59.3	77.1	66.7	68.3						
2	EH-1858	81.8	71.4	78.6	82.2	78.5	67.4	60.6	30.6	55.2	53.4						
	CHECKS																
3	Navjot	80.3	73.0	84.7	85.3	80.8	62.7	60.9	62.3	61.1	61.7						
4	BIO 9637	79.2	72.6	80.5	83.4	78.9	65.7	59.5	65.5	67.4	64.5						
5	HM 8	80.1	69.2	79.2	80.2	77.2	72.5	24.1	14.8	13.3	31.2						
6	HM 9	79.3	71.2	76.3	80.8	76.9	61.3	57.6	36.3	48.9	51.1						
	Loc. Mean	80.0	71.7	79.6	81.9	78.3	66.7	53.7	47.8	52.1	55.0						
	C.D. (5%)	0.47	1.64	4.00	2.69	2.33	4.19	4.78	8.33	8.68	19.44						
	C.V. (%)	0.33	1.26	2.76	1.80	1.97	3.45	4.90	9.58	9.16	23.43						
	F (Prob.)	0.00	0.00	0.01	0.01	0.03	0.00	0.00	0.00	0.00	0.01						

TABLE No. 17

PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, PANTNAGAR, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 2nd YEAR, TRIAL No. TR71Z24 DURING KHARIF (2010).

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
Sl		ZN 1									ZN 2										
No	PEDIGREE	DELH	R	KARN	R	LUDH	R	PANT	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R	MAND	R
1	R 2006-1	4423	5	3056	5	5940	4	4305	5	4431	4	5078	4	6426	5	4666	4	7092	4	5698	5
2	R 2007-1	4967	3	4092	1	6930	1	6512	2	5625	2	6730	1	6793	4	5852	1	8438	1	7229	1
CHECKS																					
3	JH-3459	5360	2	3559	3	6625	3	5265	3	5202	3	6393	3	7176	2	4548	5	7392	2	6866	2
4	Prakash	5680	1	3725	2	6913	2	6635	1	5738	1	6552	2	7735	1	4955	2	7212	3	6220	4
5	Navjot	4578	4	3239	4	4810	5	5031	4	4415	5	4312	5	7069	3	4798	3	6285	5	6423	3
	Location Mean	5002		3534		6244		5550		5082		5813		7040		4964		7284		6487	
	Mean Stand	86		84		111		100		95		87		88		92		104		99	
	C.D. (5%)	710		566		1452		1151		970		2252		739		694		1017		1645	
	C.V. (%)	9.12		10.3		14.94		13.33		-		24.89		6.75		8.99		8.97		16.29	
	F (Prob)	0		0.007		0.015		0.001		-		0.076		0.018		0.008		0.005		0.352	
	Plot Size	18		16.8		16.38		18		-		12		18		18		14.4		16.8	
AGRONOMY DATA																					
	Sowing Date	12-07		26-06		28-06		16-06		-		20-08		19-06		16-07		7-09		13-07	
	Harvest Date	24-10		29-09		10-08		29-09		-		20-12		10-10		-		12-06		2-12	
	Irrigation Nos	-		4		2		-		-		1		-		-		-		6	
	Fertilizer Applied N	150		150		90		120		-		150		180		200		100		150	
	Fertilizer Applied P	75		60		30		60		-		75		60		80		50		75	
	Fertilizer Applied K	75		60		-		40		-		37.5		50		60		30		40	

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

TABLE No. 17 (Cont..)

		GRAIN YIELD % SUPERIORITY OVER THE JH-3459																		
Sl		ZN 4		OV'L		ZN 2											ZN 4		OV'L	
No	PEDIGREE	COIM	R	MEAN	R	MEAN	R	DELH	KARN	LUDH	PANT	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN
1	R 2006-1	7244	4	6225	4	5428	4	-	-	-	-	-	-	-	2.6	-	-	-	-	-
2	R 2007-1	9532	1	7569	1	6705	1	-	15	4.6	23.7	8.1	5.3	-	28.7	14.2	5.3	24.5	12.5	10.8
CHECKS																				
3	JH-3459	7656	3	6727	3	6049	3	-	-	-	-	-	-	-	-	-	-	-	-	-
4	Prakash	8627	2	6950	2	6411	2	6	4.7	4.4	26	10.3	2.5	7.8	9	-	-	12.7	3.3	6
5	Navjot	6347	5	6184	5	5398	5	-	-	-	-	-	-	-	5.5	-	-	-	-	-
	Location Mean	7881		6731		5998														
	Mean Stand	95		96		96														
	C.D. (5%)	750		969		969														
	C.V. (%)	6.11		-		-														
	F (Prob)	0																		
	Plot Size	14.4		-		-														
AGRONOMY DATA																				
	Sowing Date	13-07		-		-														
	Harvest Date	2-11		-		-														
	Irrigation Nos	9		-		-														
	Fertilizer Applied N	150		-		-														
	Fertilizer Applied P	75		-		-														
	Fertilizer Applied K	75		-		-														

		GRAIN YIELD % SUPERIORITY OVER THE Prakash													ZN 4	OV'L
Sl		ZN 2											ZN 4	OV'L		
No	PEDIGREE	DELH	KARN	LUDH	PANT	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN		
1	R 2006-1	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	R 2007-1	-	9.9	0.2	-	-	2.7	-	18.1	17	16.2	10.5	8.9	4.6		
CHECKS																
3	JH-3459	-	-	-	-	-	-	-	-	2.5	10.4	-	-	-		
4	Prakash	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	Navjot	-	-	-	-	-	-	-	-	-	3.3	-	-	-		

		GRAIN YIELD % SUPERIORITY OVER THE Navjot													ZN 4	OV'L
Sl		ZN 2											ZN 4	OV'L		
No	PEDIGREE	DELH	KARN	LUDH	PANT	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN		
1	R 2006-1	-	-	23.5	-	0.4	17.8	-	-	12.8	-	14.1	0.7	0.6		
2	R 2007-1	8.5	26.3	44.1	29.4	27.4	56.1	-	22	34.3	12.5	50.2	22.4	24.2		
CHECKS																
3	JH-3459	17.1	9.9	37.7	4.7	17.8	48.3	1.5	-	17.6	6.9	20.6	8.8	12.1		
4	Prakash	24.1	15	43.7	31.9	30	52	9.4	3.3	14.8	-	35.9	12.4	18.8		
5	Navjot	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE No. 17 (Cont..)

DAYS TO 50% SILKING														DAYS TO 50% POLLEN SHED			
S1		ZN 2											ZN 4	OV'L			
No	PEDIGREE	DELH	KARN	LUDH	PANT	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	DELH	KARN	LUDH
1	R 2006-1	54.0	52.8	52.8	57.5	54.3	59.0	45.8	52.0	58.5	49.0	56.3	53.4	53.8	52.0	50.0	51.5
2	R 2007-1	54.5	52.5	51.8	55.5	53.6	59.3	51.3	51.3	58.0	52.5	54.8	54.5	54.1	52.0	50.3	50.5
	CHECKS																
3	JH-3459	51.0	50.8	48.3	55.5	51.4	54.8	49.8	53.3	53.0	50.0	51.8	52.1	51.8	50.0	48.0	47.3
4	Prakash	50.3	50.5	47.3	52.3	50.1	54.3	49.0	53.5	53.0	52.0	51.8	52.3	51.4	49.0	48.3	48.3
5	Navjot	51.8	51.8	51.8	54.8	52.5	56.8	49.3	52.5	54.5	49.3	52.3	52.4	52.5	50.0	49.5	50.5
	Loc. Mean	52.3	51.7	50.4	55.1	52.4	56.8	49.0	52.5	55.4	50.6	53.4	52.9	52.7	50.6	49.2	49.6
	C.D. (5%)	0.92	2.90	1.51	2.12	1.47	3.26	4.77	0.81	3.24	2.87	0.93	2.29	1.48	-	2.82	1.20
	C.V. (%)	1.14	3.64	1.95	2.50	1.82	3.73	6.32	1.00	3.80	3.68	1.14	3.58	3.09	-	3.72	1.57
	F (Prob.	0.00	0.38	0.00	0.00	0.00	0.02	0.22	0.00	0.01	0.06	0.00	0.18	0.00	-	0.34	0.00

DAYS TO 50% POLLEN SHED														DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST		
S1		ZN 2											ZN 4	OV'L					
No	PEDIGREE	PANT	Mean	DELH	KARN	LUDH	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	DELH	KARN	LUDH	
1	R 2006-1	54.0	51.9	97.3	88.8	83.0	89.7	72.8	87.0	72.3	87.5	89.5	95.8	84.1	86.0	33.8	32.5	33.1	
2	R 2007-1	52.0	51.2	96.3	86.0	81.5	87.9	73.3	89.0	72.5	87.0	98.5	94.8	85.8	86.5	31.3	29.9	27.4	
	CHECKS																		
3	JH-3459	51.5	49.2	97.3	84.5	78.0	86.6	68.3	85.8	71.8	82.8	95.0	91.5	82.5	83.9	29.7	31.8	26.1	
4	Prakash	47.3	48.2	97.3	85.8	77.3	86.8	69.8	85.0	72.3	82.8	95.0	91.0	82.6	84.0	30.1	30.7	24.2	
5	Navjot	50.8	50.2	96.0	84.8	79.5	86.8	70.8	85.0	72.0	84.0	91.8	91.5	82.5	83.9	27.9	33.6	25.0	
	Loc. Mean	51.1	50.1	96.8	86.0	79.9	87.5	71.0	86.4	72.2	84.8	94.0	92.9	83.5	84.9	30.6	31.7	27.2	
	C.D. (5%)	2.19	1.60	1.79	2.57	1.42	2.62	2.09	1.42	1.12	2.99	5.33	0.98	2.18	1.64	1.33	-	2.88	
	C.V. (%)	2.78	2.07	1.20	1.94	1.15	1.59	1.91	1.07	1.00	2.29	3.68	0.69	2.16	2.01	2.83	-	6.88	
	F (Prob.	0.00	0.00	0.38	0.03	0.00	0.11	0.00	0.00	0.66	0.01	0.03	0.00	0.02	0.00	0.00	0.00	0.00	

MOISTURE % AT HARVEST														PLANT HEIGHT (cm)			
S1		ZN 2											ZN 4	OV'L			
No	PEDIGREE	PANT	Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	DELH	KARN	LUDH	PANT	Mean	Mean
1	R 2006-1	19.0	29.6	20.3	21.9	13.5	13.3	14.5	19.0	17.1	22.1	202.8	202.5	196.3	243.0	211.1	
2	R 2007-1	22.5	27.8	23.5	22.4	13.9	13.7	15.8	18.5	18.0	21.9	209.3	200.0	215.0	243.0	216.8	
	CHECKS																
3	JH-3459	18.8	26.6	19.2	21.7	14.0	13.4	15.9	15.5	16.6	20.6	191.5	187.5	187.5	211.3	194.4	
4	Prakash	17.5	25.6	19.2	20.4	12.9	12.9	15.6	14.6	15.9	19.8	202.3	182.5	195.0	231.0	202.7	
5	Navjot	17.6	26.0	18.6	21.2	14.1	12.6	15.5	17.5	16.6	20.3	206.3	200.0	198.8	226.5	207.9	
	Loc. Mean	19.1	27.1	20.1	21.5	13.7	13.2	15.4	17.0	16.8	20.9	202.4	194.5	198.5	231.0	206.6	
	C.D. (5%)	1.73	3.22	3.67	1.83	0.62	0.61	0.39	0.45	1.25	1.43	13.80	31.98	17.72	16.16	9.25	
	C.V. (%)	5.90	7.72	11.84	5.53	2.94	3.02	1.62	1.72	6.16	7.52	4.43	10.67	5.79	4.54	2.96	
	F (Prob.	0.00	0.11	0.08	0.22	0.01	0.02	0.00	0.00	0.03	0.01	0.12	0.58	0.06	0.01	0.00	

TABLE No. 17 (Cont..)

Sl No	PEDIGREE	PLANT HEIGHT(cm)						ZN 4 Mean	OV'L Mean	EAR HEIGHT(cm)						
		ARBH	HYDE	KARI	KOLH	MAND	COIM			KARN	PANT	ZN 2 Mean	ARBH	KARI	KOLH	MAND
1	R 2006-1	188.5	224.3	163.8	157.5	196.5	178.4	184.8	195.3	102.5	101.0	101.8	93.5	52.5	72.5	99.3
2	R 2007-1	182.5	231.0	181.3	156.3	215.0	195.7	193.6	202.9	110.0	102.3	106.1	89.5	65.0	76.3	107.0
	CHECKS															
3	JH-3459	177.5	188.3	145.0	145.0	205.0	175.9	172.8	181.4	117.5	93.0	105.3	84.5	51.3	77.5	102.8
4	Prakash	177.0	199.3	157.5	143.8	209.8	189.5	179.5	188.8	105.0	102.5	103.8	84.5	51.3	81.3	105.8
5	Navjot	174.5	228.5	182.5	141.3	210.5	180.2	186.2	194.9	110.0	93.3	101.6	80.5	62.5	72.5	108.0
	Loc. Mean	180.0	214.3	166.0	148.8	207.4	183.9	183.4	192.7	109.0	98.4	103.7	86.5	56.5	76.0	104.6
	C.D. (5%)	8.55	13.32	7.80	16.69	22.89	4.78	11.67	7.35	15.60	9.54	19.33	7.68	5.12	11.79	9.37
	C.V. (%)	3.08	4.04	3.05	7.28	7.17	1.69	5.28	4.20	9.29	6.29	6.71	5.76	5.88	10.07	5.82
	F (Prob.)	0.03	0.00	0.00	0.17	0.50	0.00	0.02	0.00	0.33	0.10	0.94	0.03	0.00	0.48	0.30

Sl No	PEDIGREE	EAR HEIGHT(cm)			GRAIN SHELLING %						ZN 4 Mean	OV'L Mean					
		COIM	ZN 4 Mean	OV'L Mean	DELH	KARN	LUDH	PANT	ZN 2 Mean	ARBH			HYDE	KARI	KOLH	MAND	COIM
1	R 2006-1	99.3	83.4	88.7	82.5	85.0	85.4	82.5	83.8	80.8	73.6	84.7	85.2	82.8	85.0	82.0	82.7
2	R 2007-1	105.6	88.7	93.7	83.1	86.0	86.2	84.2	84.9	80.4	71.5	85.7	84.0	83.2	86.0	81.8	83.0
	CHECKS																
3	JH-3459	87.2	80.6	87.7	86.4	84.0	88.4	82.7	85.4	84.3	76.8	85.3	84.9	83.3	81.1	82.6	83.7
4	Prakash	102.2	85.0	90.4	87.1	85.0	88.6	87.5	87.1	82.1	77.8	84.1	86.7	83.6	87.3	83.6	85.0
5	Navjot	93.5	83.4	88.6	86.2	81.0	88.0	83.3	84.6	80.0	80.8	85.7	81.0	81.7	82.9	82.0	83.0
	Loc. Mean	97.6	84.2	89.8	85.1	84.2	87.3	84.0	85.1	81.5	76.1	85.1	84.4	82.9	84.5	82.4	83.5
	C.D. (5%)	3.15	6.93	5.83	1.32	-	0.57	-	2.62	1.45	1.73	1.70	2.02	1.36	1.78	2.68	1.77
	C.V. (%)	2.10	6.13	5.88	1.01	-	0.42	-	2.00	1.16	1.48	1.30	1.56	1.07	1.37	2.70	2.34
	F (Prob.)	0.00	0.22	0.26	0.00	-	0.00	0.00	0.16	0.00	0.00	0.26	0.00	0.07	0.00	0.63	0.10

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)											ZN 4 Mean	OV'L Mean
		DELH	KARN	LUDH	PANT	ZN 2 Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM		
1	R 2006-1	38.2	51.3	60.6	47.4	49.4	65.0	48.2	51.4	66.8	58.2	65.6	59.2	55.3
2	R 2007-1	44.4	50.6	66.2	56.3	54.4	68.3	48.5	50.7	74.8	57.6	66.3	61.0	58.4
	CHECKS													
3	JH-3459	54.9	47.5	70.4	55.6	57.1	74.2	49.3	50.8	70.7	59.5	66.0	61.7	59.9
4	Prakash	53.3	51.3	69.0	60.3	58.5	80.2	50.3	51.1	75.7	60.9	65.5	63.9	61.8
5	Navjot	48.5	50.1	72.0	59.0	57.4	73.1	49.4	51.7	73.6	57.6	65.6	61.8	60.1
	Loc. Mean	47.9	50.2	67.6	55.7	55.3	72.2	49.1	51.1	72.3	58.8	65.8	61.6	59.1
	C.D. (5%)	8.37	4.49	6.91	8.21	5.66	12.43	4.50	3.46	10.59	5.48	0.70	3.07	2.78
	C.V. (%)	1.35	5.80	6.63	9.57	6.64	11.18	5.95	4.39	9.50	6.06	0.69	4.15	5.19
	F (Prob.)	0.01	0.36	0.03	0.04	0.03	0.15	0.86	0.97	0.40	0.65	0.12	0.06	0.00

TABLE No. 18

PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DELHI, KARNAL, PANTNAGAR, KANPUR, BAHRAICH, DHOLI, BHUBNESHWAR, VARANASI, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, KOLHAPUR, MANDYA, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA IN IET & AET 1st YEAR, TRIAL No. TRQPM12 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
		ALMO		BAJA		MEAN		DELH		KARN		PANT		KANP		MEAN		BAHR		DHOL	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
1	EHQ-03	8285	6	5573	11	6929	11	4823	5	3734	15	4530	4	5631	19	4729	13	6824	15	10006	15
2	EHQ-10	5664	17	4455	17	5060	18	4288	8	3558	17	3391	17	6449	5	4765	11	8111	10	10751	11
3	EHQ-16	8954	4	6740	6	7847	4	5193	3	4184	7	3832	10	6348	9	5242	3	8881	5	10445	12
4	ECQ-02	4805	18	4025	20	4415	19	3111	17	3871	10	3028	18	6397	8	4459	16	6652	16	9456	17
5	ECQ-03	4134	19	4158	18	4146	20	2703	18	4054	8	2189	20	6316	10	4358	18	5828	18	11552	9
6	BQPMH-227	5919	16	5012	14	5466	15	3454	15	4819	1	4059	7	6426	7	4900	9	8561	6	8732	18
7	HQPM-2	8172	8	7070	4	7621	5	4405	7	4538	3	5006	2	6049	16	4997	6	6587	17	10108	13
8	HQPM-24	8191	7	6199	9	7195	9	4257	9	4226	6	3978	9	5821	18	4768	10	7134	14	10100	14
9	HQPM-22	9107	3	7914	3	8511	3	5008	4	3827	12	4391	6	6141	13	4992	7	9585	3	12715	5
10	VEHQ-3028	8153	9	6964	5	7558	6	4609	6	3522	18	3819	11	6062	15	4731	12	7744	12	9774	16
11	JHQPM-304 (1R)	9143	2	8702	1	8923	2	7485	1	3639	16	5631	1	6092	14	5739	2	12959	1	11437	10
12	JHQPM-250 (1R)2009	10063	1	8587	2	9325	1	6657	2	4274	4	4548	3	6686	4	5872	1	10587	2	11921	7
13	HQPM-14	8114	11	4813	15	6464	12	3305	16	3741	14	4024	8	6049	17	4365	17	8502	7	12322	6
14	MHQPM-09-5	7219	13	4111	19	5665	14	3564	14	3858	11	3410	16	6719	3	4714	14	8323	9	16070	4
15	MHQPM-09-6	8488	5	5462	12	6975	10	4100	11	3821	13	3465	14	7310	1	5077	5	9393	4	17050	3
16	MHQPM-09-7	-	-	5398	13	5398	17	4097	12	3393	19	3457	15	6291	11	4594	15	7952	11	18011	2
17	MHQPM-09-8	7975	12	6655	7	7315	8	4237	10	4639	2	3696	12	6434	6	5103	4	8403	8	18947	1
CHECKS																					
18	HQPM 1	8147	10	6546	8	7347	7	3772	13	4272	5	4450	5	6841	2	4962	8	7425	13	11693	8
19	HQPM 5	6963	14	5719	10	6341	13	-	-	-	-	3689	13	-	-	-	-	-	-	-	-
20	HQPM 7	6319	15	4518	16	5418	16	2407	19	3987	9	2534	19	6189	12	4194	19	-	-	-	-
Location Mean		7569		5931		6750		4288		3998		3856		6329		4872		8303		12283	
Mean Stand		22		22		22		27		36		25		36		33		29		32	
C.D. (5%)		1368		1578		1473		1275		860		1421		548		894		665		2501	
C.V. (%)		10.9		16.08		-		17.94		12.98		22.27		5.22		-		4.82		12.26	
F (Prob)		0		0		0		0		0.075		0		0.067		0		0		0	
Plot Size		3.6		3.6		-		6		5.6		6		5.6		-		4.8		6	
AGRONOMY DATA																					
Sowing Date		29-06		26-06		-		12-07		26-06		26-06		14-07		-		25-07		2-08	
Harvest Date		2-11		3-11		-		31-10		28-09		5-10		30-10		-		2-11		-	
Irrigation Nos		-		3		-		-		3		-		-		-		-		-	
Fertilizer Applied N		100		120		-		150		150		120		120		-		120		150	
Fertilizer Applied P		60		60		-		75		60		60		60		-		60		70	
Fertilizer Applied K		40		40		-		75		60		40		40		-		60		50	
LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 22.3 %: GODH 22.2 %																					

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		BHUJ				VARA				RANC				AMBI				ZN 3	
		BHUB	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KOLH	R		
1	EHQ-03	4237	15	4928	15	4719	17	4444	13	5860	16	5461	15	4505	20	5296	14		
2	EHQ-10	4454	11	5018	14	4125	20	4052	16	6085	14	4722	17	5129	17	4550	17		
3	EHQ-16	5107	6	7094	2	6058	4	4780	10	7061	9	7137	5	8422	3	7034	2		
4	ECQ-02	3182	20	3374	18	5075	13	3169	17	5151	18	6024	14	5517	13	4111	18		
5	ECQ-03	3570	18	2820	20	5238	12	2871	18	5313	17	6067	12	4876	19	3337	20		
6	BQPMH-227	3850	17	4771	16	4879	16	4373	14	5861	15	4412	18	8293	5	5145	15		
7	HQPM-2	5617	5	5870	9	5851	5	4685	11	6453	11	6749	8	7392	7	6905	3		
8	HQPM-24	4383	13	5515	11	5371	11	5059	9	6260	13	5392	16	6574	10	6168	8		
9	HQPM-22	4491	10	6679	5	5406	10	4356	15	7205	6	6027	13	6916	8	6253	6		
10	VEHQ-3028	5908	3	6666	6	7199	1	5119	7	7068	8	7163	4	8634	2	6102	9		
11	JHQPM-304 (1R)	6285	1	6927	3	5833	6	5105	8	8091	3	9468	1	8639	1	7446	1		
12	JHQPM-250 (1R)2009	5640	4	7499	1	7128	2	6156	2	8155	2	8577	2	8287	6	5537	11		
13	HQPM-14	3870	16	3103	19	4385	19	5493	4	6279	12	7169	3	6436	11	5414	13		
14	MHQPM-09-5	4972	7	3496	17	4918	15	5182	6	7160	7	7045	6	5820	12	5841	10		
15	MHQPM-09-6	4354	14	5974	8	6538	3	6412	1	8287	1	6591	10	5067	18	6225	7		
16	MHQPM-09-7	4403	12	5499	12	5697	7	5593	3	7859	5	6775	7	5499	14	6380	5		
17	MHQPM-09-8	3551	19	6625	7	4700	18	5365	5	7932	4	6472	11	8322	4	5469	12		
CHECKS																			
18	HQPM 1	6052	2	6885	4	5467	9	4498	12	7003	10	6712	9	6605	9	6863	4		
19	HQPM 5	4618	9	5187	13	4990	14	-	-	4932	19	-	-	5201	15	4834	16		
20	HQPM 7	4722	8	5612	10	5481	8	2511	19	4582	20	-	-	5160	16	3356	19		
	Location Mean	4663		5477		5453		4696		6813		6554		6565		5613			
	Mean Stand	28		31		27		29		29		30		32		33			
	C.D. (5%)	690		1218		1456		1361		1315		1999		1874		1577			
	C.V. (%)	7.04		13.44		16.14		17.49		-		18.36		17.25		16.98			
	F (Prob)	0		0		0		0		-		0.002		0		0			
	Plot Size	4.8		4.8		5.6		6		-		6		6		6			
AGRONOMY DATA																			
	Sowing Date	29-07		6-07		12-07		8-07		-		5-08		-		9-07			
	Harvest Date	15-11		17-10		23-10		-		-		21-12		-		6-12			
	Irrigation Nos	-		2		-		-		-		4		-		-			
	Fertilizer Applied N	120		120		120		120		-		150		180		120			
	Fertilizer Applied P	60		60		60		60		-		75		60		60			
	Fertilizer Applied K	60		40		40		40		-		37.5		50		40			

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		MAND		ZN 4		UDAI		BANS		GODH		CHHI		ZN 5		OV'L	
			R	MEAN	R		R		R		R		R	MEAN	R	MEAN	R
1	EHQ-03	6366	15	5407	16	4486	4	2421	13	3792	9	7023	14	4643	10	5487	15
2	EHQ-10	5886	17	5072	17	3497	10	2678	5	3286	13	6076	17	4084	15	5192	16
3	EHQ-16	9364	1	7989	2	7102	1	2539	8	4403	6	7625	12	5755	3	6834	3
4	ECQ-02	6820	14	5618	15	3220	12	1203	20	2582	19	6157	16	3527	17	4787	18
5	ECQ-03	5864	18	5036	18	1592	18	1707	18	2592	18	4772	18	2690	19	4525	19
6	BQPMH-227	7730	10	6395	13	4476	5	1959	16	2964	15	7357	13	4597	11	5565	14
7	HQPM-2	6201	16	6811	11	3557	9	2625	6	4265	7	8316	6	4833	6	6150	10
8	HQPM-24	7022	13	6289	14	3174	13	1833	17	4161	8	7013	15	4007	16	5746	13
9	HQPM-22	8055	8	6813	10	3433	11	2457	12	4987	3	8225	7	4705	9	6478	7
10	VEHQ-3028	8640	4	7635	3	4367	6	1662	19	4840	4	9242	3	5090	4	6529	6
11	JHQPM-304 (1R)	7446	11	8250	1	4914	3	3320	1	6202	1	10457	1	6230	1	7516	1
12	JHQPM-250 (1R)2009	7407	12	7452	4	5654	2	2599	7	4775	5	10040	2	6098	2	7406	2
13	HQPM-14	8502	7	6880	7	2440	15	2267	14	2788	16	7639	11	4116	14	5754	12
14	MHQPM-09-5	8621	5	6832	9	1995	17	2252	15	3282	14	8109	10	4119	13	6006	11
15	MHQPM-09-6	9182	2	6766	12	2361	16	2978	2	3623	11	8865	4	4734	8	6676	5
16	MHQPM-09-7	8704	3	6840	8	2507	14	2696	4	3574	12	8224	8	4476	12	6301	9
17	MHQPM-09-8	8524	6	7197	5	4131	7	2772	3	-		8368	5	5090	5	6755	4
	CHECKS																
18	HQPM 1	7807	9	6996	6	3725	8	2491	10	5583	2	8201	9	4806	7	6333	8
19	HQPM 5	-		5017	19	-		2474	11	3643	10	-		2474	20	4998	17
20	HQPM 7	-		4258	20	-		2512	9	2763	17	3888	19	3200	18	4359	20
	Location Mean	7674		6602		3702		2372		3900		7663		4579		6063	
	Mean Stand	34		32		31		23		25		36		30		30	
	C.D. (5%)	1107		1639		904		451		1434		1405		920		1269	
	C.V. (%)	8.68		-		14.71		11.5		22.18		11.06		-		-	
	F (Prob)	0		-		0		0		0.002		0		-		-	
	Plot Size	5.6		-		4.8		4.8		4.8		6		-		-	
	AGRONOMY DATA																
	Sowing Date	21-07		-		4-07		17-07		7-07		29-06		-		-	
	Harvest Date	12-10		-		10-10		24-10		13-10		26-10		-		-	
	Irrigation Nos	6		-		-		1		-		-		-		-	
	Fertilizer Applied N	150		-		90		120		100		120		-		-	
	Fertilizer Applied P	75		-		60		40		50		60		-		-	
	Fertilizer Applied K	40		-		-		-		50		40		-		-	

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 1												
		ZN 1						ZN 2						
		ALMO	BAJA	MEAN	DELH	KARN	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	1.7	-	-	27.9	-	1.8	-	-	-	-	-	-	-
2	EHQ-10	-	-	-	13.7	-	-	-	-	9.2	-	-	-	-
3	EHQ-16	9.9	3	6.8	37.7	-	-	-	5.6	19.6	-	-	3	10.8
4	ECQ-02	-	-	-	-	-	-	-	-	-	-	-	-	-
5	ECQ-03	-	-	-	-	-	-	-	-	-	-	-	-	-
6	BQPMH-227	-	-	-	-	12.8	-	-	-	15.3	-	-	-	-
7	HQPM-2	0.3	8	3.7	16.8	6.2	12.5	-	0.7	-	-	-	-	7
8	HQPM-24	0.5	-	-	12.9	-	-	-	-	-	-	-	-	-
9	HQPM-22	11.8	20.9	15.8	32.8	-	-	-	0.6	29.1	8.7	-	-	-
10	VEHQ-3028	0.1	6.4	2.9	22.2	-	-	-	-	4.3	-	-	-	31.7
11	JHQPM-304 (1R)	12.2	32.9	21.4	98.5	-	26.5	-	15.7	74.5	-	3.9	0.6	6.7
12	JHQPM-250 (1R)2009	23.5	31.2	26.9	76.5	0.1	2.2	-	18.4	42.6	1.9	-	8.9	30.4
13	HQPM-14	-	-	-	-	-	-	-	-	14.5	5.4	-	-	-
14	MHQPM-09-5	-	-	-	-	-	-	-	-	12.1	37.4	-	-	-
15	MHQPM-09-6	4.2	-	-	8.7	-	-	6.8	2.3	26.5	45.8	-	-	19.6
16	MHQPM-09-7	-	-	-	8.6	-	-	-	-	7.1	54	-	-	4.2
17	MHQPM-09-8	-	1.7	-	12.3	8.6	-	-	2.9	13.2	62	-	-	-
CHECKS														
18	HQPM 1	-	-	-	-	-	-	-	-	-	-	-	-	-
19	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-
20	HQPM 7	-	-	-	-	-	-	-	-	-	-	-	-	0.3

TABLE No. 18 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE HQPM 1														
S1		ZN 3			ZN 4				ZN 5			OV'L		
No	PEDIGREE	AMBI	MEAN	ARBH	HYDE	KOLH	MAND	MEAN	UDAI	BANS	GODH	CHHI	MEAN	MEAN
1	EHQ-03	-	-	-	-	-	-	-	20.4	-	-	-	-	-
2	EHQ-10	-	-	-	-	-	-	-	-	7.5	-	-	-	-
3	EHQ-16	6.3	0.8	6.3	27.5	2.5	20	14.2	90.7	1.9	-	-	19.8	7.9
4	ECQ-02	-	-	-	-	-	-	-	-	-	-	-	-	-
5	ECQ-03	-	-	-	-	-	-	-	-	-	-	-	-	-
6	BQPMH-227	-	-	-	25.6	-	-	-	20.2	-	-	-	-	-
7	HQPM-2	4.2	-	0.5	11.9	0.6	-	-	-	5.4	-	1.4	0.6	-
8	HQPM-24	12.5	-	-	-	-	-	-	-	-	-	-	-	-
9	HQPM-22	-	2.9	-	4.7	-	3.2	-	-	-	-	0.3	-	2.3
10	VEHQ-3028	13.8	0.9	6.7	30.7	-	10.7	9.1	17.2	-	-	12.7	5.9	3.1
11	JHQPM-304 (1R)	13.5	15.5	41.1	30.8	8.5	-	17.9	31.9	33.3	11.1	27.5	29.6	18.7
12	JHQPM-250 (1R)2009	36.9	16.5	27.8	25.5	-	-	6.5	51.8	4.3	-	22.4	26.9	16.9
13	HQPM-14	22.1	-	6.8	-	-	8.9	-	-	-	-	-	-	-
14	MHQPM-09-5	15.2	2.2	5	-	-	10.4	-	-	-	-	-	-	-
15	MHQPM-09-6	42.6	18.3	-	-	-	17.6	-	-	19.5	-	8.1	-	5.4
16	MHQPM-09-7	24.4	12.2	0.9	-	-	11.5	-	-	8.2	-	0.3	-	-
17	MHQPM-09-8	19.3	13.3	-	26	-	9.2	2.9	10.9	11.3	-	2	5.9	6.7
CHECKS														
18	HQPM 1	-	-	-	-	-	-	-	-	-	-	-	-	-
19	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-
20	HQPM 7	-	-	-	-	-	-	-	-	0.8	-	-	-	-

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 5												
		ALMO	BAJA	ZN 1 MEAN	DELH	KARN	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	19	-	9.3	-	-	22.8	-	-	-	-	-	-	-
2	EHQ-10	-	-	-	-	-	-	-	-	-	-	-	-	-
3	EHQ-16	28.6	17.8	23.7	-	-	3.9	-	-	-	-	10.6	36.7	21.4
4	ECQ-02	-	-	-	-	-	-	-	-	-	-	-	-	1.7
5	ECQ-03	-	-	-	-	-	-	-	-	-	-	-	-	5
6	BQPMH-227	-	-	-	-	-	10	-	-	-	-	-	-	-
7	HQPM-2	17.4	23.6	20.2	-	-	35.7	-	-	-	-	21.6	13.2	17.2
8	HQPM-24	17.6	8.4	13.5	-	-	7.8	-	-	-	-	-	6.3	7.6
9	HQPM-22	30.8	38.4	34.2	-	-	19	-	-	-	-	-	28.8	8.3
10	VEHQ-3028	17.1	21.8	19.2	-	-	3.5	-	-	-	-	27.9	28.5	44.3
11	JHQPM-304 (1R)	31.3	52.1	40.7	-	-	52.6	-	-	-	-	36.1	33.5	16.9
12	JHQPM-250 (1R)2009	44.5	50.1	47	-	-	23.3	-	-	-	-	22.1	44.6	42.8
13	HQPM-14	16.5	-	1.9	-	-	9.1	-	-	-	-	-	-	-
14	MHQPM-09-5	3.7	-	-	-	-	-	-	-	-	-	7.7	-	-
15	MHQPM-09-6	21.9	-	10	-	-	-	-	-	-	-	-	15.2	31
16	MHQPM-09-7	-	-	-	-	-	-	-	-	-	-	-	6	14.2
17	MHQPM-09-8	14.5	16.4	15.4	-	-	0.2	-	-	-	-	-	27.7	-
	CHECKS													
18	HQPM 1	17	14.5	15.9	-	-	20.6	-	-	-	-	31	32.7	9.5
19	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-
20	HQPM 7	-	-	-	-	-	-	-	-	-	-	2.3	8.2	9.8

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 5											ZN 5 MEAN	OV'L MEAN
		AMBI	ZN 3 MEAN	ARBH	HYDE	KOLH	MAND	ZN 4 MEAN	UDAI	BANS	GODH	CHHI		
1	EHQ-03	-	18.8	-	-	9.5	-	7.8	-	-	4.1	-	87.7	9.8
2	EHQ-10	-	23.4	-	-	-	-	1.1	-	8.2	-	-	65.1	3.9
3	EHQ-16	-	43.2	-	61.9	45.5	-	59.2	-	2.6	20.9	-	132.6	36.7
4	ECQ-02	-	4.5	-	6.1	-	-	12	-	-	-	-	42.6	-
5	ECQ-03	-	7.7	-	-	-	-	0.4	-	-	-	-	8.7	-
6	BQPMH-227	-	18.8	-	59.5	6.4	-	27.5	-	-	-	-	85.8	11.3
7	HQPM-2	-	30.8	-	42.1	42.8	-	35.8	-	6.1	17.1	-	95.3	23
8	HQPM-24	-	26.9	-	26.4	27.6	-	25.3	-	-	14.2	-	62	15
9	HQPM-22	-	46.1	-	33	29.4	-	35.8	-	-	36.9	-	90.2	29.6
10	VEHQ-3028	-	43.3	-	66	26.2	-	52.2	-	-	32.9	-	105.8	30.6
11	JHQPM-304 (1R)	-	64.1	-	66.1	54	-	64.4	-	34.2	70.3	-	151.8	50.4
12	JHQPM-250 (1R)2009	-	65.4	-	59.3	14.5	-	48.5	-	5.1	31.1	-	146.5	48.2
13	HQPM-14	-	27.3	-	23.8	12	-	37.1	-	-	-	-	66.4	15.1
14	MHQPM-09-5	-	45.2	-	11.9	20.8	-	36.2	-	-	-	-	66.5	20.2
15	MHQPM-09-6	-	68	-	-	28.8	-	34.9	-	20.4	-	-	91.4	33.6
16	MHQPM-09-7	-	59.4	-	5.7	32	-	36.3	-	9	-	-	80.9	26.1
17	MHQPM-09-8	-	60.8	-	60	13.1	-	43.4	-	12	-	-	105.8	35.1
CHECKS														
18	HQPM 1	-	42	-	27	42	-	39.4	-	0.7	53.3	-	94.2	26.7
19	HQPM 5	-	-	-	-	-	-	-	-	-	-	-	-	-
20	HQPM 7	-	-	-	-	-	-	-	-	1.5	-	-	29.3	-

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 7												
		ZN 1						ZN 2						
		ALMO	BAJA	MEAN	DELH	KARN	PANT	KANP	MEAN	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	31.1	23.4	27.9	100.4	-	78.8	-	12.8	-	-	-	-	-
2	EHQ-10	-	-	-	78.2	-	33.8	4.2	13.6	-	-	-	-	-
3	EHQ-16	41.7	49.2	44.8	115.7	4.9	51.2	2.6	25	-	-	8.2	26.4	10.5
4	ECQ-02	-	-	-	29.2	-	19.5	3.4	6.3	-	-	-	-	-
5	ECQ-03	-	-	-	12.3	1.7	-	2.1	3.9	-	-	-	-	-
6	BQPMH-227	-	10.9	0.9	43.5	20.9	60.2	3.8	16.8	-	-	-	-	-
7	HQPM-2	29.3	56.5	40.7	83	13.8	97.5	-	19.1	-	-	18.9	4.6	6.7
8	HQPM-24	29.6	37.2	32.8	76.9	6	57	-	13.7	-	-	-	-	-
9	HQPM-22	44.1	75.2	57.1	108.1	-	73.3	-	19	-	-	-	19	-
10	VEHQ-3028	29	54.1	39.5	91.5	-	50.7	-	12.8	-	-	25.1	18.8	31.3
11	JHQPM-304 (1R)	44.7	92.6	64.7	211	-	122.2	-	36.8	-	-	33.1	23.4	6.4
12	JHQPM-250 (1R)2009	59.3	90.1	72.1	176.6	7.2	79.5	8	40	-	-	19.4	33.6	30
13	HQPM-14	28.4	6.5	19.3	37.3	-	58.8	-	4.1	-	-	-	-	-
14	MHQPM-09-5	14.2	-	4.5	48.1	-	34.5	8.6	12.4	-	-	5.3	-	-
15	MHQPM-09-6	34.3	20.9	28.7	70.3	-	36.7	18.1	21	-	-	-	6.4	19.3
16	MHQPM-09-7	-	19.5	-	70.2	-	36.4	1.6	9.5	-	-	-	-	3.9
17	MHQPM-09-8	26.2	47.3	35	76	16.3	45.9	4	21.7	-	-	-	18	-
	CHECKS													
18	HQPM 1	28.9	44.9	35.6	56.7	7.1	75.6	10.5	18.3	-	-	28.1	22.7	-
19	HQPM 5	10.2	26.6	17	-	-	45.6	-	-	-	-	-	-	-
20	HQPM 7	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 18 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM 7											ZN 5 MEAN	OV'L MEAN	
		ZN 3		ARBH	HYDE	KOLH	MAND	ZN 4		UDAI	BANS	GODH			CHHI
AMBI	MEAN	MEAN	MEAN					MEAN	MEAN				MEAN	MEAN	
1	EHQ-03	77	27.9	-	-	57.8	-	27	-	-	37.3	80.7	45.1	25.9	
2	EHQ-10	61.3	32.8	-	-	35.6	-	19.1	-	6.6	18.9	56.3	27.6	19.1	
3	EHQ-16	90.3	54.1	-	63.2	109.6	-	87.6	-	1.1	59.4	96.1	79.9	56.8	
4	ECQ-02	26.2	12.4	-	6.9	22.5	-	31.9	-	-	-	58.4	10.2	9.8	
5	ECQ-03	14.3	16	-	-	-	-	18.3	-	-	-	22.7	-	3.8	
6	BQPMH-227	74.1	27.9	-	60.7	53.3	-	50.2	-	-	7.3	89.2	43.7	27.7	
7	HQPM-2	86.6	40.8	-	43.3	105.7	-	60	-	4.5	54.4	113.9	51	41.1	
8	HQPM-24	101.4	36.6	-	27.4	83.8	-	47.7	-	-	50.6	80.4	25.2	31.8	
9	HQPM-22	73.4	57.3	-	34	86.3	-	60	-	-	80.5	111.6	47	48.6	
10	VEHQ-3028	103.8	54.3	-	67.3	81.8	-	79.3	-	-	75.2	137.7	59.1	49.8	
11	JHQPM-304 (1R)	103.3	76.6	-	67.4	121.9	-	93.8	-	32.2	124.5	169	94.7	72.4	
12	JHQPM-250 (1R)2009	145.1	78	-	60.6	65	-	75	-	3.5	72.8	158.3	90.6	69.9	
13	HQPM-14	118.7	37	-	24.7	61.3	-	61.6	-	-	0.9	96.5	28.6	32	
14	MHQPM-09-5	106.3	56.3	-	12.8	74	-	60.5	-	-	18.8	108.6	28.7	37.8	
15	MHQPM-09-6	155.3	80.9	-	-	85.5	-	58.9	-	18.5	31.1	128	48	53.2	
16	MHQPM-09-7	122.7	71.5	-	6.6	90.1	-	60.6	-	7.3	29.4	111.5	39.9	44.6	
17	MHQPM-09-8	113.6	73.1	-	61.3	63	-	69	-	10.3	-	115.2	59.1	55	
CHECKS															
18	HQPM 1	79.1	52.8	-	28	104.5	-	64.3	-	-	102.1	111	50.2	45.3	
19	HQPM 5	-	7.6	-	0.8	44	-	17.8	-	-	31.8	-	-	14.7	
20	HQPM 7	-	-	-	-	-	-	-	-	-	-	-	-	-	

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 50% SILKING												
		ZN 1							ZN 2					
		ALMO	BAJA	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	55.7	59.3	57.5	51.3	56.0	56.7	50.3	53.6	46.7	49.7	53.5	49.7	50.0
2	EHQ-10	53.7	59.0	56.3	51.7	54.3	55.3	52.0	53.3	47.7	49.7	51.0	52.0	51.7
3	EHQ-16	57.0	61.0	59.0	54.0	56.3	56.7	48.0	53.8	48.0	52.3	56.0	53.3	56.0
4	ECQ-02	51.7	57.0	54.3	48.7	55.0	53.7	49.7	51.8	45.7	50.3	50.5	51.3	51.0
5	ECQ-03	58.0	63.3	60.7	54.7	54.7	57.3	49.3	54.0	51.3	52.3	56.0	55.0	56.0
6	BQPMH-227	55.0	59.0	57.0	51.3	54.3	53.0	48.7	51.8	46.0	50.7	53.0	52.0	52.3
7	HQPM-2	60.7	64.3	62.5	56.3	55.3	57.0	49.0	54.4	50.7	55.7	59.5	59.0	57.0
8	HQPM-24	56.3	59.0	57.7	55.0	55.7	56.7	48.3	53.9	49.7	52.0	58.0	54.0	54.3
9	HQPM-22	61.3	63.0	62.2	56.3	56.3	59.7	48.7	55.3	51.3	54.0	57.0	58.3	57.0
10	VEHQ-3028	60.0	62.3	61.2	56.3	54.3	56.7	48.3	53.9	52.7	52.3	58.0	55.0	56.7
11	JHQPM-304 (1R)	61.0	62.7	61.8	52.3	55.0	54.3	52.3	53.5	50.3	51.7	54.5	57.3	56.3
12	JHQPM-250 (1R)2009	56.0	60.3	58.2	54.3	55.3	58.7	49.7	54.5	51.0	50.7	55.5	54.7	57.0
13	HQPM-14	63.3	52.7	58.0	50.7	55.7	53.3	49.7	52.3	46.3	50.7	50.5	49.0	50.7
14	MHQPM-09-5	60.7	66.0	63.3	54.7	55.7	57.0	50.0	54.3	51.3	51.0	56.0	55.0	56.7
15	MHQPM-09-6	59.3	67.3	63.3	54.7	54.7	59.7	52.3	55.3	52.3	52.0	57.0	55.0	57.0
16	MHQPM-09-7	-	65.0	65.0	54.7	53.3	58.7	52.7	54.8	51.7	52.3	57.5	55.3	56.3
17	MHQPM-09-8	57.0	60.7	58.8	55.7	55.7	59.0	49.0	54.8	52.0	51.3	55.0	54.7	56.0
CHECKS														
18	HQPM 1	59.0	61.3	60.2	56.3	56.3	55.3	52.7	55.2	52.0	53.0	56.0	57.3	57.0
19	HQPM 5	49.0	65.0	57.0	-	-	58.0	-	58.0	-	-	56.0	59.0	57.0
20	HQPM 7	63.0	61.0	62.0	56.3	55.7	61.0	48.3	55.3	-	-	54.5	54.0	56.3
	Loc. Mean	57.8	61.5	59.8	54.0	55.2	56.9	49.9	54.2	49.8	51.8	55.3	54.5	55.1
	C.D. (5%)	1.63	2.19	7.15	2.03	2.60	4.59	0.80	2.55	1.30	3.83	2.52	2.41	1.77
	C.V. (%)	1.80	2.15	5.72	2.40	3.00	4.88	1.02	3.32	1.76	4.98	2.18	2.67	1.95
	F (Prob.)	0.00	0.00	0.25	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 50% SILKING											
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	OV'L Mean
1	EHQ-03	46.0	49.3	54.0	56.0	61.3	49.7	55.3	50.7	52.7	45.0	49.4	52.3
2	EHQ-10	46.0	49.7	54.0	54.3	63.0	49.7	55.3	50.3	56.3	49.0	51.9	52.7
3	EHQ-16	50.3	52.7	57.0	55.7	63.7	53.3	57.4	53.3	55.7	51.0	53.3	54.7
4	ECQ-02	43.7	48.8	50.3	55.7	62.0	51.0	54.8	48.7	53.3	45.7	49.2	51.3
5	ECQ-03	49.7	53.4	57.7	55.7	62.0	52.7	57.0	54.0	50.3	52.0	52.1	54.8
6	BQPMH-227	46.0	50.0	56.7	54.3	62.0	51.7	56.2	51.0	54.3	48.3	51.2	52.6
7	HQPM-2	49.7	55.3	61.3	52.7	63.3	56.3	58.4	56.0	53.0	53.0	54.0	56.3
8	HQPM-24	50.3	53.1	58.0	55.7	61.7	53.3	57.2	53.0	54.7	50.3	52.7	54.5
9	HQPM-22	51.3	54.8	60.7	55.0	63.7	56.3	58.9	55.7	52.7	52.0	53.4	56.3
10	VEHQ-3028	50.7	54.2	58.7	54.7	63.7	54.0	57.8	55.3	54.3	53.0	54.2	55.6
11	JHQPM-304 (1R)	55.0	54.2	59.0	55.7	63.3	53.7	57.9	54.3	53.3	51.0	52.9	55.4
12	JHQPM-250 (1R)2009	50.0	53.1	58.3	54.0	62.7	54.0	57.3	54.0	53.3	50.3	52.6	54.7
13	HQPM-14	43.3	48.4	61.3	55.0	60.7	53.0	57.5	49.3	54.0	53.0	52.1	52.7
14	MHQPM-09-5	54.0	54.0	56.3	55.0	64.3	52.3	57.0	55.7	53.7	54.3	54.6	55.8
15	MHQPM-09-6	54.3	54.6	60.3	55.0	63.3	55.3	58.5	57.7	53.0	52.0	54.2	56.4
16	MHQPM-09-7	51.0	54.0	60.3	53.3	62.7	56.0	58.1	55.7	52.3	51.3	53.1	55.6
17	MHQPM-09-8	52.3	53.6	57.3	55.0	62.3	57.0	57.9	53.7	54.3	-	54.0	55.4
CHECKS													
18	HQPM 1	52.3	54.6	60.0	54.7	63.7	55.7	58.5	55.7	53.7	51.0	53.4	55.9
19	HQPM 5	-	57.3	-	52.0	64.0	-	58.0	-	54.0	52.0	53.0	56.6
20	HQPM 7	50.7	53.9	-	55.0	64.0	-	59.5	-	53.0	47.0	50.0	55.7
	Loc. Mean	49.8	53.0	57.8	54.7	62.9	53.6	57.4	53.6	53.6	50.6	52.6	54.8
	C.D. (5%)	2.79	1.71	3.41	2.34	2.25	3.92	2.64	1.15	3.11	2.23	3.20	1.26
	C.V. (%)	3.57	2.82	3.97	2.58	2.16	4.91	3.25	1.44	3.51	2.80	3.68	3.60
	F (Prob.)	0.00	0.00	0.00	0.09	0.09	0.00	0.04	0.00	0.22	0.00	0.04	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED												
		ALMO	BAJA	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	54.7	56.3	55.5	49.3	54.0	52.7	45.7	50.4	44.7	48.0	51.0	46.3	46.3
2	EHQ-10	52.7	53.7	53.2	49.0	52.3	51.7	47.7	50.2	46.3	47.7	47.0	48.0	47.7
3	EHQ-16	56.3	58.3	57.3	52.3	54.3	52.7	43.7	50.8	46.0	50.3	54.0	50.0	51.7
4	ECQ-02	51.0	53.0	52.0	46.7	53.0	49.7	45.3	48.7	43.7	48.0	47.5	46.3	50.3
5	ECQ-03	57.3	59.3	58.3	53.7	52.7	53.7	44.3	51.1	49.3	51.3	53.5	50.7	54.3
6	BQPMH-227	53.7	56.0	54.8	49.3	52.3	49.0	43.7	48.6	44.0	49.7	51.5	47.7	48.0
7	HQPM-2	60.7	61.3	61.0	54.3	53.3	53.0	44.3	51.3	48.3	53.7	55.0	54.0	53.0
8	HQPM-24	56.0	56.3	56.2	53.7	53.7	52.7	43.7	50.9	47.7	50.7	53.5	50.0	50.0
9	HQPM-22	60.7	60.3	60.5	54.7	54.0	55.7	44.7	52.3	49.7	52.3	54.5	54.0	53.0
10	VEHQ-3028	59.0	59.3	59.2	54.7	52.3	52.7	44.7	51.1	50.7	50.7	55.5	51.7	52.7
11	JHQPM-304 (1R)	60.0	60.7	60.3	51.0	52.3	51.0	47.7	50.5	48.3	51.3	52.5	54.0	52.3
12	JHQPM-250 (1R)2009	55.7	57.7	56.7	52.7	53.3	55.0	44.7	51.4	49.3	49.3	54.0	50.3	51.7
13	HQPM-14	63.0	49.7	56.3	46.7	53.0	50.3	44.7	48.7	44.3	50.0	48.5	44.7	47.0
14	MHQPM-09-5	60.0	63.7	61.8	53.0	53.3	53.0	45.3	51.2	49.3	50.0	54.5	52.0	52.7
15	MHQPM-09-6	58.7	64.3	61.5	53.7	52.7	55.7	48.0	52.5	50.3	51.0	55.5	51.7	53.0
16	MHQPM-09-7	-	62.3	62.3	53.3	51.3	55.0	47.7	51.8	49.7	51.3	55.0	51.3	52.3
17	MHQPM-09-8	56.3	58.0	57.2	53.0	53.7	55.0	44.3	51.5	50.0	50.0	52.5	49.3	52.0
CHECKS														
18	HQPM 1	58.3	58.3	58.3	55.0	54.0	51.3	47.7	52.0	50.0	50.7	53.0	52.3	53.0
19	HQPM 5	49.0	63.0	56.0	-	-	54.0	-	54.0	-	-	53.5	53.0	53.0
20	HQPM 7	62.3	58.3	60.3	54.7	53.7	57.7	44.7	52.7	-	-	53.0	49.3	52.3
	Loc. Mean	57.1	58.5	57.9	52.1	53.1	53.1	45.4	51.1	47.9	50.3	52.8	50.3	51.3
	C.D. (5%)	1.68	2.37	7.12	2.18	2.58	5.06	0.91	2.70	1.04	3.80	2.12	2.27	3.00
	C.V. (%)	1.88	2.45	5.87	2.66	3.09	5.77	1.28	3.73	1.46	5.07	1.92	2.73	3.53
	F (Prob.)	0.00	0.00	0.20	0.00	0.00	0.12	0.00	0.02	0.00	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED											
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	OV'L Mean
1	EHQ-03	43.7	46.7	53.7	53.7	60.3	47.7	53.8	47.7	49.0	44.0	46.9	49.9
2	EHQ-10	43.3	46.7	53.7	52.3	62.0	48.0	54.0	49.0	52.3	46.3	49.2	50.0
3	EHQ-16	47.3	49.9	57.7	53.0	62.7	52.3	56.4	52.0	52.0	49.0	51.0	52.4
4	ECQ-02	41.0	46.1	49.3	52.0	61.0	49.3	52.9	46.0	53.7	44.0	47.9	49.0
5	ECQ-03	46.7	51.0	57.0	53.7	61.0	52.3	56.0	53.3	47.3	49.0	49.9	52.7
6	BQPMH-227	43.7	47.4	55.3	50.3	61.0	50.0	54.2	48.3	50.7	45.0	48.0	50.0
7	HQPM-2	49.3	52.2	59.0	50.0	62.3	54.7	56.5	54.7	49.7	50.3	51.6	53.7
8	HQPM-24	47.0	49.8	56.7	53.3	60.7	52.0	55.7	51.0	51.3	47.7	50.0	52.0
9	HQPM-22	48.3	52.0	59.0	52.7	62.7	54.0	57.1	53.7	48.7	50.0	50.8	53.8
10	VEHQ-3028	48.3	51.6	58.3	52.3	62.7	53.3	56.7	53.3	50.7	49.7	51.2	53.3
11	JHQPM-304 (1R)	50.0	51.4	59.0	53.3	62.3	53.0	56.9	53.3	49.0	49.7	50.7	53.2
12	JHQPM-250 (1R)2009	47.0	50.3	56.3	52.7	61.7	52.3	55.8	51.7	49.3	48.3	49.8	52.3
13	HQPM-14	40.7	45.9	61.0	53.0	59.7	52.0	56.4	46.0	50.7	49.7	48.8	50.2
14	MHQPM-09-5	51.7	51.7	55.0	52.7	63.3	52.0	55.8	54.7	50.0	51.0	51.9	53.5
15	MHQPM-09-6	51.3	52.1	59.3	54.0	62.3	54.3	57.5	56.0	50.0	49.7	51.9	54.3
16	MHQPM-09-7	48.7	51.4	59.3	51.3	61.7	54.0	56.6	54.0	48.3	33.7	45.3	52.2
17	MHQPM-09-8	50.0	50.6	57.0	54.7	61.3	55.7	57.2	51.0	48.0	-	49.5	52.9
CHECKS													
18	HQPM 1	49.7	51.4	58.7	52.7	62.7	54.3	57.1	54.7	49.7	49.0	51.1	53.4
19	HQPM 5	-	53.2	-	48.3	63.0	-	55.7	-	50.7	48.3	49.5	53.6
20	HQPM 7	48.3	50.8	-	53.3	63.0	-	58.2	-	50.0	44.7	47.3	53.2
	Loc. Mean	47.2	50.1	57.0	52.5	61.9	52.3	56.0	51.7	50.1	47.3	49.6	52.3
	C.D. (5%)	0.95	1.56	3.62	2.51	2.25	3.74	2.56	1.29	3.87	9.38	4.91	1.38
	C.V. (%)	1.29	2.71	4.27	2.89	2.20	4.81	3.23	1.68	4.68	12.63	5.99	4.15
	F (Prob.)	0.00	0.00	0.00	0.00	0.09	0.00	0.01	0.00	0.25	0.00	0.40	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK											
		ALMO	BAJA	ZN 1 Mean	DELH	KARN	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	99.0	91.0	95.0	100.7	89.7	77.7	89.3	79.7	82.7	89.0	82.0	97.7
2	EHQ-10	95.3	88.7	92.0	100.0	85.7	78.3	88.0	86.0	81.0	90.0	84.0	97.3
3	EHQ-16	105.0	98.3	101.7	102.7	87.0	75.0	88.2	89.7	88.3	97.0	85.0	100.7
4	ECQ-02	94.7	88.0	91.3	98.0	85.7	77.0	86.9	79.0	81.0	87.5	85.0	96.0
5	ECQ-03	105.0	97.7	101.3	102.7	86.0	77.0	88.6	84.7	87.0	98.0	84.3	97.3
6	BQPMH-227	95.3	90.0	92.7	100.0	85.0	74.7	86.6	78.7	81.3	86.5	83.0	97.3
7	HQPM-2	107.0	107.3	107.2	105.3	87.3	77.7	90.1	88.7	90.0	98.5	100.0	99.3
8	HQPM-24	106.3	99.7	103.0	104.3	86.0	78.0	89.4	86.7	86.7	97.0	95.3	99.7
9	HQPM-22	107.0	101.7	104.3	106.0	89.0	78.3	91.1	87.3	88.0	98.5	90.3	99.3
10	VEHQ-3028	107.3	107.7	107.5	105.7	88.0	77.3	90.3	89.0	88.0	98.5	98.3	99.0
11	JHQPM-304 (1R)	105.7	97.7	101.7	100.3	86.3	81.0	89.2	84.3	87.3	92.0	87.0	99.0
12	JHQPM-250 (1R)2009	105.0	95.0	100.0	102.3	86.0	78.7	89.0	87.3	85.7	95.0	86.7	97.5
13	HQPM-14	106.0	86.7	96.3	99.7	86.7	79.7	88.7	79.7	79.3	87.0	81.0	96.7
14	MHQPM-09-5	104.7	101.7	103.2	103.7	88.3	79.3	90.4	84.3	82.7	95.5	84.0	99.3
15	MHQPM-09-6	105.7	103.7	104.7	103.3	88.0	82.3	91.2	88.3	87.3	96.0	86.3	100.0
16	MHQPM-09-7	-	102.3	102.3	103.0	86.0	82.7	90.6	84.0	85.0	97.0	85.3	97.7
17	MHQPM-09-8	105.7	94.0	99.8	101.3	87.0	79.7	89.3	86.3	86.0	89.5	87.0	99.0
CHECKS													
18	HQPM 1	107.3	107.0	107.2	105.7	87.3	81.3	91.4	87.7	88.7	97.0	95.7	100.0
19	HQPM 5	91.0	106.0	98.5	-	-	-	-	-	-	95.5	81.0	-
20	HQPM 7	106.0	108.7	107.3	105.3	91.0	77.0	91.1	-	-	96.0	90.0	-
	Loc. Mean	103.1	98.6	100.9	102.6	87.2	78.6	89.4	85.1	85.3	94.1	87.6	98.5
	C.D. (5%)	1.61	3.57	10.06	2.31	4.36	1.35	5.41	1.77	2.65	2.63	2.19	1.95
	C.V. (%)	0.99	2.19	4.77	1.43	3.18	1.10	3.85	1.40	2.09	1.33	1.51	1.33
	F (Prob.)	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK											
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	OV'L Mean
1	EHQ-03	81.0	85.3	91.7	91.0	94.3	95.3	93.1	80.0	86.7	76.7	81.1	88.1
2	EHQ-10	78.3	86.1	89.7	89.0	96.0	96.7	92.8	80.0	91.0	78.7	83.2	88.1
3	EHQ-16	85.7	91.1	91.3	90.0	96.7	104.7	95.7	85.3	89.7	79.7	84.9	91.8
4	ECQ-02	77.0	84.3	85.3	90.7	95.0	94.7	91.4	81.0	86.3	77.3	81.6	86.6
5	ECQ-03	83.3	89.1	91.7	96.0	95.0	102.3	96.2	88.3	82.3	81.0	83.9	91.1
6	BQPMH-227	80.7	84.6	92.3	93.7	95.0	97.0	94.5	79.7	88.3	77.7	81.9	87.6
7	HQPM-2	91.0	94.6	95.3	91.3	96.3	107.7	97.7	89.0	85.7	81.7	85.4	94.4
8	HQPM-24	88.3	92.3	92.0	93.7	94.7	103.3	95.9	86.3	87.7	80.7	84.9	92.6
9	HQPM-22	85.7	91.5	94.7	93.0	96.7	104.3	97.2	85.3	85.7	80.7	83.9	92.9
10	VEHQ-3028	88.7	93.6	93.3	92.0	96.7	108.3	97.6	90.7	88.0	81.7	86.8	94.3
11	JHQPM-304 (1R)	86.0	89.3	92.7	90.7	96.3	98.3	94.5	86.3	83.0	79.7	83.0	90.8
12	JHQPM-250 (1R)2009	82.0	89.0	92.7	91.3	95.7	96.3	94.0	84.7	88.0	79.7	84.1	90.5
13	HQPM-14	76.3	83.3	92.3	91.3	93.7	98.3	93.9	78.7	89.0	82.0	83.2	88.0
14	MHQPM-09-5	89.7	89.3	88.7	87.3	97.3	99.3	93.2	86.3	86.3	82.7	85.1	91.2
15	MHQPM-09-6	87.0	90.8	93.7	91.0	96.3	102.0	95.8	85.7	88.0	81.7	85.1	92.6
16	MHQPM-09-7	85.3	89.1	94.0	89.3	95.7	103.0	95.5	83.7	88.0	81.0	84.2	90.8
17	MHQPM-09-8	88.0	89.3	90.3	89.3	95.3	98.3	93.3	84.0	88.3	-	86.2	91.1
CHECKS													
18	HQPM 1	88.3	92.9	93.7	92.7	96.7	109.7	98.2	90.0	87.3	80.3	85.9	94.2
19	HQPM 5	-	88.3	-	87.7	97.0	-	92.3	-	89.0	80.7	84.8	91.0
20	HQPM 7	90.3	92.1	-	91.0	97.0	-	94.0	-	86.7	77.7	82.2	93.1
	Loc. Mean	84.9	89.3	92.0	91.1	95.9	101.1	94.8	84.7	87.3	80.1	84.1	91.0
	C.D. (5%)	0.97	3.33	3.53	3.93	2.25	4.19	3.75	2.37	4.22	2.08	4.33	2.18
	C.V. (%)	0.73	3.25	2.58	2.61	1.42	2.78	2.79	1.88	2.93	1.65	3.12	3.64
	F (Prob.)	0.00	0.00	0.00	0.01	0.09	0.00	0.02	0.00	0.04	0.00	0.40	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST											
		ALMO	BAJA	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA
1	EHQ-03	28.7	20.6	24.6	20.2	30.1	27.3	15.0	23.1	21.0	28.8	17.7	25.3
2	EHQ-10	25.8	19.8	22.8	26.8	32.5	25.4	15.0	24.9	20.9	28.4	18.7	26.5
3	EHQ-16	31.2	17.6	24.4	27.7	29.8	27.2	15.0	24.9	22.4	28.7	18.9	26.5
4	ECQ-02	23.7	19.6	21.6	24.2	32.6	22.5	15.0	23.6	21.0	27.9	18.3	24.7
5	ECQ-03	30.3	22.5	26.4	24.5	30.9	27.7	15.0	24.5	24.1	26.8	19.9	26.5
6	BQPMH-227	26.0	21.2	23.6	26.5	31.9	25.3	15.0	24.7	21.2	28.3	19.6	28.4
7	HQPM-2	34.3	22.9	28.6	32.1	31.8	29.4	15.0	27.1	23.9	30.6	17.4	32.6
8	HQPM-24	30.5	21.9	26.2	27.4	30.6	27.5	15.0	25.1	23.2	29.3	18.7	28.9
9	HQPM-22	34.0	21.2	27.6	29.0	32.6	29.4	15.0	26.5	22.4	26.7	19.5	29.7
10	VEHQ-3028	33.3	21.5	27.4	31.1	30.0	28.5	15.0	26.1	22.3	30.7	18.1	28.8
11	JHQPM-304 (1R)	31.9	21.1	26.5	29.2	32.3	26.7	15.0	25.8	23.2	30.6	17.6	30.3
12	JHQPM-250 (1R)2009	29.3	21.7	25.5	28.1	30.8	26.8	15.0	25.2	22.8	17.1	17.7	29.0
13	HQPM-14	32.3	16.6	24.4	20.6	31.8	22.8	15.0	22.5	21.9	27.8	18.6	21.9
14	MHQPM-09-5	30.6	21.6	26.1	25.2	30.8	27.8	15.0	24.7	24.2	22.3	19.1	27.3
15	MHQPM-09-6	29.3	21.6	25.4	19.8	31.5	26.5	15.0	23.2	23.0	24.4	18.6	26.6
16	MHQPM-09-7	-	21.5	21.5	21.4	30.9	27.7	15.0	23.7	22.0	23.5	17.7	27.5
17	MHQPM-09-8	28.4	19.8	24.1	25.1	29.0	27.9	15.0	24.2	26.4	21.2	19.3	29.0
CHECKS													
18	HQPM 1	35.1	22.5	28.8	29.5	29.6	27.2	15.0	25.3	22.2	30.1	19.6	29.4
19	HQPM 5	19.4	23.7	21.5	-	-	25.2	-	25.2	-	-	18.1	30.5
20	HQPM 7	32.3	22.0	27.1	30.0	30.8	28.0	15.0	25.9	-	-	19.1	26.6
	Loc. Mean	29.8	21.0	25.2	26.2	31.1	26.8	15.0	24.8	22.7	26.8	18.6	27.8
	C.D. (5%)	2.37	2.35	6.97	2.52	0.00	3.69	-	3.56	1.08	0.00	-	1.77
	C.V. (%)	5.06	6.76	13.20	6.12	0.00	8.31	-	10.14	3.21	0.00	-	3.86
	F (Prob.)	0.00	0.00	0.58	0.00	0.00	0.03	-	0.61	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST											
		RANC	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	OV'L Mean
1	EHQ-03	25.3	23.6	12.7	19.3	12.2	15.5	14.9	16.7	16.6	16.2	16.5	20.5
2	EHQ-10	24.8	23.8	12.3	21.5	10.9	14.2	14.7	15.1	17.0	16.9	16.3	20.7
3	EHQ-16	25.0	24.3	12.5	18.4	12.6	13.7	14.3	15.6	16.7	18.2	16.8	21.0
4	ECQ-02	24.8	23.3	12.6	18.6	11.3	13.4	14.0	17.9	17.0	16.6	17.2	20.1
5	ECQ-03	24.2	24.3	14.7	19.6	11.7	14.6	15.1	16.8	16.6	18.6	17.3	21.4
6	BQPMH-227	24.8	24.5	13.3	20.1	11.5	14.3	14.8	16.7	16.9	16.9	16.8	21.0
7	HQPM-2	25.7	26.0	14.8	21.8	11.9	15.7	16.0	18.6	17.2	22.5	19.4	23.2
8	HQPM-24	25.0	25.0	13.2	15.7	11.8	14.9	13.9	18.8	17.3	17.2	17.7	21.5
9	HQPM-22	25.1	24.7	13.4	19.4	13.1	15.4	15.3	18.5	16.6	19.9	18.3	22.3
10	VEHQ-3028	24.3	24.8	14.7	18.5	12.5	14.9	15.1	21.1	16.6	18.3	18.6	22.2
11	JHQPM-304 (1R)	23.9	25.1	14.7	21.1	13.3	15.2	16.0	18.4	17.0	19.3	18.2	22.2
12	JHQPM-250 (1R)2009	26.1	22.5	14.7	19.3	11.8	14.6	15.1	18.6	16.9	18.1	17.9	21.0
13	HQPM-14	23.2	22.7	16.1	14.6	11.3	14.4	14.1	13.4	16.8	19.2	16.5	19.9
14	MHQPM-09-5	25.1	23.6	13.0	17.4	11.3	15.5	14.3	17.6	16.9	20.8	18.4	21.2
15	MHQPM-09-6	23.8	23.3	15.5	19.0	11.8	14.7	15.2	15.3	16.9	19.0	17.1	20.7
16	MHQPM-09-7	24.1	23.0	16.1	20.5	11.3	15.0	15.7	13.6	16.8	17.2	15.9	20.1
17	MHQPM-09-8	25.3	24.2	13.8	19.8	12.1	14.2	14.9	15.6	16.9	-	16.2	21.1
CHECKS													
18	HQPM 1	26.5	25.6	12.6	22.6	12.0	14.6	15.4	19.3	17.2	19.4	18.6	22.5
19	HQPM 5	27.5	25.4	-	18.7	12.0	-	15.4	-	16.9	18.5	17.7	21.0
20	HQPM 7	24.3	23.3	-	17.6	12.8	-	15.2	-	17.0	16.8	16.9	22.5
	Loc. Mean	24.9	24.2	13.9	19.2	12.0	14.7	15.0	17.1	16.9	18.4	17.4	21.3
	C.D. (5%)	1.08	2.64	1.33	2.57	1.12	0.52	1.74	0.62	0.78	1.73	2.21	1.44
	C.V. (%)	2.63	8.69	6.41	8.10	5.69	2.38	8.22	2.46	2.78	5.99	7.69	10.34
	F (Prob.)	0.00	0.36	0.00	0.00	0.01	0.00	0.43	0.00	0.89	0.00	0.12	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)												
		ALMO	BAJA	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	226.7	180.7	203.7	171.0	190.0	210.0	74.3	161.3	178.3	128.3	146.8	158.8	191.9
2	EHQ-10	230.0	192.3	211.2	185.0	176.7	202.7	66.3	157.7	166.0	142.2	169.0	182.5	165.8
3	EHQ-16	220.0	196.7	208.3	177.3	188.3	198.7	68.3	158.2	173.3	149.5	156.1	188.8	173.9
4	ECQ-02	208.3	185.0	196.7	174.0	173.3	200.0	75.0	155.6	153.3	138.3	146.0	149.0	160.9
5	ECQ-03	206.7	156.7	181.7	147.3	170.0	176.7	84.7	144.7	148.0	130.2	143.6	152.8	168.3
6	BQPMH-227	223.3	215.0	219.2	192.0	180.0	214.7	68.7	163.8	169.0	168.8	163.5	187.5	165.9
7	HQPM-2	250.0	216.7	233.3	187.3	180.0	227.3	75.3	167.5	171.7	168.0	163.0	191.3	162.7
8	HQPM-24	233.3	200.0	216.7	174.7	176.7	202.0	75.3	157.2	169.0	157.7	160.5	187.5	133.2
9	HQPM-22	253.3	213.3	233.3	196.7	180.0	205.3	85.3	166.8	179.7	166.7	165.7	175.0	146.6
10	VEHQ-3028	240.0	205.0	222.5	174.7	176.7	219.3	62.3	158.3	165.3	160.7	171.5	181.0	184.7
11	JHQPM-304 (1R)	255.0	213.3	234.2	202.7	196.7	215.3	84.3	174.8	201.7	170.7	163.7	178.8	169.7
12	JHQPM-250 (1R)2009	233.3	180.7	207.0	184.7	170.0	200.0	82.3	159.3	180.7	147.8	166.4	166.3	177.3
13	HQPM-14	266.7	195.0	230.8	168.7	190.0	210.7	71.3	160.2	184.0	154.7	154.3	167.5	153.1
14	MHQPM-09-5	241.7	189.3	215.5	189.7	185.0	201.3	65.3	160.3	175.3	154.7	170.2	167.5	172.7
15	MHQPM-09-6	253.3	226.7	240.0	203.7	200.0	226.7	88.0	179.6	184.7	162.7	161.5	187.5	191.5
16	MHQPM-09-7	-	211.0	211.0	185.3	196.7	212.0	66.3	165.1	168.0	160.8	164.1	185.0	187.6
17	MHQPM-09-8	226.7	235.0	230.8	195.3	186.7	205.3	71.7	164.8	191.0	167.7	167.3	193.8	188.7
CHECKS														
18	HQPM 1	233.3	211.7	222.5	179.0	175.0	210.7	65.7	157.6	184.0	139.3	176.9	153.8	151.3
19	HQPM 5	216.7	147.5	182.1	-	-	190.0	-	190.0	-	-	161.8	142.5	129.0
20	HQPM 7	235.0	211.7	223.3	172.7	173.3	201.0	87.3	158.6	-	-	156.5	175.0	144.8
	Loc. Mean	234.4	199.2	216.2	182.2	182.4	206.5	74.6	163.1	174.6	153.8	161.4	173.6	166.0
	C.D. (5%)	9.35	28.39	30.38	14.95	14.94	24.13	1.27	22.52	21.84	21.95	7.01	13.40	43.16
	C.V. (%)	2.54	8.62	6.71	5.23	5.22	7.07	1.08	9.75	8.41	9.59	2.08	4.67	15.73
	F (Prob.)	0.00	0.00	0.02	0.00	0.00	0.04	0.00	0.13	0.00	0.00	0.00	0.00	0.13

Table No. 18 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)											OV'L Mean
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	
1	EHQ-03	234.7	173.1	168.5	234.7	148.3	179.3	182.7	188.3	172.2	175.3	178.6	176.7
2	EHQ-10	231.4	176.1	170.5	232.0	138.3	192.7	183.4	180.0	168.8	178.7	175.8	177.4
3	EHQ-16	240.9	180.4	172.5	226.7	160.0	195.3	188.6	195.0	162.1	168.3	175.1	179.6
4	ECQ-02	211.2	159.8	168.5	213.0	133.3	181.7	174.1	163.3	173.8	157.0	164.7	166.6
5	ECQ-03	202.8	157.6	167.5	227.3	126.7	190.7	178.0	145.0	148.9	151.7	148.5	160.3
6	BQPMH-227	234.9	181.6	169.5	236.3	155.0	190.3	187.8	190.0	192.3	170.7	184.3	183.5
7	HQPM-2	267.4	187.3	169.0	229.3	180.0	200.7	194.8	191.7	185.7	183.7	187.0	189.5
8	HQPM-24	242.2	175.0	163.5	232.3	151.7	192.0	184.9	191.7	169.6	169.7	177.0	178.0
9	HQPM-22	253.0	181.1	169.0	217.3	168.3	204.0	189.7	200.0	192.0	172.0	188.0	186.5
10	VEHQ-3028	253.9	186.2	173.0	215.3	158.3	203.3	187.5	183.3	160.6	170.3	171.4	182.1
11	JHQPM-304 (1R)	267.3	192.0	172.5	237.0	160.0	202.7	193.0	191.7	190.6	186.7	189.6	192.6
12	JHQPM-250 (1R)2009	253.3	182.0	168.0	218.3	158.3	192.3	184.3	185.0	158.6	170.3	171.3	178.6
13	HQPM-14	240.1	175.6	160.0	263.0	140.0	199.7	190.7	176.7	157.1	155.3	163.0	179.4
14	MHQPM-09-5	249.0	181.6	165.0	221.0	176.7	208.3	192.8	163.3	185.4	170.3	173.0	181.7
15	MHQPM-09-6	290.1	196.3	175.5	221.3	178.3	211.0	196.5	203.3	190.3	175.7	189.8	196.4
16	MHQPM-09-7	270.3	189.3	170.5	201.3	165.0	195.3	183.0	183.3	164.0	171.7	173.0	181.0
17	MHQPM-09-8	254.3	193.8	155.5	225.7	161.7	204.3	186.8	200.0	190.3	-	195.2	190.0
CHECKS													
18	HQPM 1	255.3	176.8	165.5	219.3	180.0	196.3	190.3	186.7	158.5	177.0	174.1	180.0
19	HQPM 5	-	144.4	-	214.0	123.3	-	168.7	-	171.1	171.0	171.1	166.7
20	HQPM 7	217.0	173.3	-	228.0	155.0	-	191.5	-	168.5	156.0	162.3	177.3
	Loc. Mean	245.7	178.2	168.0	225.7	155.9	196.7	186.5	184.4	173.0	170.1	175.6	180.2
	C.D. (5%)	22.26	16.42	9.20	28.08	23.87	19.68	16.51	10.78	35.28	19.33	14.31	8.48
	C.V. (%)	5.77	8.04	3.68	7.53	9.26	6.73	6.25	3.93	12.34	7.24	4.93	7.37
	F (Prob.)	0.00	0.00	0.00	0.09	0.00	0.00	0.16	0.00	0.27	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	EAR HEIGHT(cm)										
		ALMO	BAJA	ZN 1 Mean	KARN	PANT	KANP	ZN 2 Mean	BAHR	BHUB	VARA	RANC
1	EHQ-03	113.3	81.7	97.5	86.7	90.0	164.3	113.7	57.7	60.9	61.5	79.8
2	EHQ-10	111.7	96.7	104.2	86.7	84.0	161.0	110.6	70.3	75.3	77.5	75.7
3	EHQ-16	105.0	81.7	93.3	86.7	71.3	177.7	111.9	67.3	62.3	77.5	60.5
4	ECQ-02	103.3	93.3	98.3	90.0	86.7	169.7	115.4	70.0	69.5	70.0	65.1
5	ECQ-03	98.3	71.0	84.7	73.3	68.0	165.0	102.1	56.7	56.7	58.8	65.6
6	BQPMH-227	105.0	110.0	107.5	83.3	85.3	165.0	111.2	80.0	65.0	82.5	75.1
7	HQPM-2	121.7	124.0	122.8	83.3	100.0	170.0	117.8	80.3	75.2	112.5	78.6
8	HQPM-24	118.3	96.7	107.5	86.7	81.3	170.0	112.7	81.3	63.5	102.5	77.5
9	HQPM-22	145.0	115.0	130.0	81.7	91.3	177.0	116.7	94.7	84.0	105.0	70.5
10	VEHQ-3028	115.0	110.0	112.5	78.3	88.0	167.7	111.3	64.3	72.7	90.0	80.1
11	JHQPM-304 (1R)	140.0	118.3	129.2	113.3	94.7	178.0	128.7	92.0	83.7	98.8	84.7
12	JHQPM-250 (1R)2009	120.0	88.3	104.2	80.0	80.0	169.7	109.9	77.0	73.4	76.3	73.6
13	HQPM-14	141.7	93.3	117.5	90.0	78.0	165.0	111.0	70.7	61.7	66.3	75.3
14	MHQPM-09-5	128.3	105.0	116.7	85.0	92.7	168.3	115.3	74.3	76.8	86.3	80.5
15	MHQPM-09-6	140.0	116.7	128.3	98.3	109.3	192.3	133.3	68.3	81.4	85.0	86.9
16	MHQPM-09-7	-	100.0	100.0	93.3	90.0	165.3	116.2	75.7	74.0	75.0	83.0
17	MHQPM-09-8	91.7	138.0	114.8	93.3	96.7	165.7	118.6	84.3	80.3	111.3	83.8
CHECKS												
18	HQPM 1	108.3	96.7	102.5	80.0	80.7	161.0	107.2	74.3	78.0	67.5	69.2
19	HQPM 5	105.0	86.0	95.5	-	86.0	-	86.0	-	78.1	75.0	60.0
20	HQPM 7	118.3	90.3	104.3	76.7	69.0	175.0	106.9	-	58.0	70.0	69.1
	Loc. Mean	117.4	100.6	108.6	86.7	86.2	169.9	112.8	74.4	71.5	82.5	74.7
	C.D. (5%)	7.96	19.85	29.08	17.81	20.60	2.79	20.92	23.43	5.69	9.22	19.55
	C.V. (%)	4.32	11.93	12.80	13.08	14.47	1.05	11.22	21.17	3.80	6.77	15.83
	F (Prob.)	0.00	0.00	0.14	0.00	0.03	0.00	0.09	0.00	0.00	0.00	0.22

Table No. 18 (Continued)

Sl No	PEDIGREE	EAR HEIGHT (cm)									OV'L Mean	
		AMBI	ZN 3 Mean	ARBH	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH		ZN 5 Mean
1	EHQ-03	86.8	69.3	77.0	76.7	84.3	79.3	90.0	72.2	71.3	77.8	84.6
2	EHQ-10	96.9	79.2	80.5	80.0	96.7	85.7	88.3	65.7	70.0	74.7	88.6
3	EHQ-16	75.3	68.6	79.5	86.7	94.3	86.8	70.0	67.2	62.7	66.6	82.9
4	ECQ-02	86.2	72.2	76.5	75.0	90.7	80.7	75.0	86.9	65.3	75.8	85.8
5	ECQ-03	72.5	62.0	71.5	73.3	89.7	78.2	60.0	55.5	60.3	58.6	74.8
6	BQPMH-227	88.6	78.2	78.0	75.0	96.3	83.1	95.0	85.5	68.7	83.0	89.9
7	HQPM-2	108.1	90.9	76.5	101.7	99.3	92.5	91.7	93.7	94.0	93.1	100.7
8	HQPM-24	95.7	84.1	73.0	81.7	92.3	82.3	90.0	75.6	76.7	80.7	91.4
9	HQPM-22	108.3	92.5	75.0	96.7	100.7	90.8	96.7	92.0	82.7	90.4	101.0
10	VEHQ-3028	91.4	79.7	80.0	88.3	99.3	89.2	76.7	67.4	72.7	72.2	90.1
11	JHQPM-304 (1R)	122.9	96.4	80.0	90.0	98.7	89.6	100.0	101.5	85.0	95.5	105.1
12	JHQPM-250 (1R)2009	103.9	80.8	74.0	85.0	93.7	84.2	83.3	83.7	81.3	82.8	90.2
13	HQPM-14	89.7	72.7	71.5	75.0	97.0	81.2	78.3	62.3	61.3	67.3	86.1
14	MHQPM-09-5	108.7	85.3	76.5	88.3	102.0	88.9	78.3	102.3	77.3	86.0	95.7
15	MHQPM-09-6	129.8	90.3	85.0	98.3	104.0	95.8	103.3	83.8	77.0	88.1	103.7
16	MHQPM-09-7	102.7	82.1	81.0	81.7	98.3	87.0	81.7	75.6	72.3	76.5	90.0
17	MHQPM-09-8	116.1	95.1	64.5	100.0	100.7	88.4	108.3	98.9	-	103.6	102.2
CHECKS												
18	HQPM 1	98.1	77.4	70.0	101.7	100.7	90.8	76.7	70.9	78.7	75.4	88.3
19	HQPM 5	-	71.0	-	73.3	-	73.3	-	68.1	72.0	70.1	78.2
20	HQPM 7	58.7	63.9	-	83.3	-	83.3	-	67.2	61.0	64.1	83.1
	Loc. Mean	96.9	79.6	76.1	85.6	96.6	85.6	85.7	78.8	73.2	79.1	90.6
	C.D. (5%)	15.90	11.04	7.41	17.78	15.12	10.90	6.78	21.62	15.84	11.53	6.89
	C.V. (%)	10.45	11.01	6.54	12.57	10.52	7.71	5.32	16.60	13.79	8.81	10.93
	F (Prob.)	0.00	0.00	0.00	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	GRAIN SHELLING %											
		ALMO	BAJA	ZN 1 Mean	DELH	KARN	PANT	KANP	ZN 2 Mean	BAHR	BHUB	VARA	RANC
1	EHQ-03	85.7	81.9	83.8	84.1	80.0	87.5	74.0	81.4	79.3	80.2	76.0	84.4
2	EHQ-10	84.4	79.1	81.8	85.0	78.0	85.0	73.3	80.3	86.7	76.8	75.0	83.5
3	EHQ-16	83.1	79.7	81.4	82.8	74.0	76.7	74.7	77.0	82.8	78.6	75.0	81.6
4	ECQ-02	86.0	82.1	84.0	84.6	78.0	82.9	74.3	79.9	85.5	78.5	81.5	85.9
5	ECQ-03	83.3	78.9	81.1	81.7	76.0	76.7	72.7	76.8	80.1	78.6	73.0	83.7
6	BQPMH-227	84.7	80.5	82.6	83.7	80.0	86.7	74.7	81.3	83.1	76.4	75.0	84.7
7	HQPM-2	83.5	80.6	82.1	79.5	85.0	83.3	75.3	80.8	81.6	79.0	75.0	82.9
8	HQPM-24	85.1	83.5	84.3	84.0	71.0	85.0	73.7	78.4	79.9	78.1	75.0	85.4
9	HQPM-22	83.3	82.9	83.1	83.5	72.0	87.5	73.0	79.0	79.5	78.1	77.5	88.0
10	VEHQ-3028	85.2	84.1	84.7	85.1	78.0	84.0	74.7	80.4	80.1	78.1	75.0	85.8
11	JHQPM-304 (1R)	84.2	83.2	83.7	82.6	80.0	82.9	75.0	80.1	83.1	76.5	75.0	84.5
12	JHQPM-250 (1R)2009	85.7	83.5	84.6	86.2	87.0	86.0	74.3	83.4	82.2	80.1	79.0	86.2
13	HQPM-14	81.8	83.6	82.7	85.5	80.0	76.0	74.7	79.0	83.1	77.2	76.0	81.5
14	MHQPM-09-5	82.1	79.8	80.9	81.5	83.0	84.0	74.7	80.8	79.1	76.9	75.0	82.7
15	MHQPM-09-6	82.9	80.0	81.5	79.7	74.0	76.7	75.3	76.4	75.9	76.3	75.0	80.9
16	MHQPM-09-7	-	80.3	80.3	85.9	75.0	80.0	74.0	78.7	76.8	76.2	76.0	82.1
17	MHQPM-09-8	83.7	80.1	81.9	84.5	80.0	83.3	73.0	80.2	79.2	77.6	77.5	81.9
CHECKS													
18	HQPM 1	85.1	82.0	83.6	85.4	80.0	82.9	75.3	80.9	81.0	79.4	77.5	85.6
19	HQPM 5	87.6	-	87.6	-	-	82.2	-	82.2	-	78.8	73.0	85.3
20	HQPM 7	83.2	81.6	82.4	84.5	74.0	80.0	73.7	78.0	-	77.1	75.0	75.9
	Loc. Mean	84.2	81.4	82.9	83.7	78.2	82.5	74.2	79.8	81.1	77.9	75.9	83.6
	C.D. (5%)	1.39-		2.67	2.12-		0.00	1.17	4.13	1.24	0.00-		1.36
	C.V. (%)	1.05-		1.54	1.62-		0.00	1.01	3.66	1.03	0.00-		0.98
	F (Prob.)	0.00	0.00	0.00	0.00-		0.00	0.00	0.10	0.00	0.00-		0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	GRAIN SHELLING %											OV'L Mean
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	ZN 5 Mean	
1	EHQ-03	79.1	79.8	78.7	85.1	85.8	81.3	82.7	85.5	66.9	81.5	78.0	80.9
2	EHQ-10	79.3	80.3	77.1	82.5	86.5	78.8	81.2	84.7	69.1	77.7	77.2	80.1
3	EHQ-16	78.2	79.2	76.9	81.9	83.8	80.8	80.8	84.8	67.2	74.8	75.6	78.7
4	ECQ-02	81.2	82.5	77.5	78.9	85.4	84.4	81.5	83.8	66.2	83.4	77.8	81.1
5	ECQ-03	78.8	78.9	75.3	82.3	85.1	78.8	80.4	80.9	61.2	73.2	71.8	77.8
6	BQPMH-227	77.4	79.3	59.0	83.0	85.0	82.4	77.3	85.2	64.6	82.5	77.4	79.3
7	HQPM-2	76.8	79.1	73.4	79.6	85.3	77.8	79.0	82.1	65.4	72.2	73.2	78.8
8	HQPM-24	78.1	79.3	77.5	83.2	86.3	83.3	82.6	83.4	66.9	78.7	76.3	79.9
9	HQPM-22	76.5	79.9	76.2	81.4	83.3	84.4	81.3	85.1	65.9	77.0	76.0	79.7
10	VEHQ-3028	79.0	79.6	78.3	82.1	86.7	84.0	82.8	85.3	62.8	79.8	76.0	80.4
11	JHQPM-304 (1R)	79.5	79.7	77.9	81.0	86.0	81.5	81.6	84.2	68.3	77.4	76.6	80.1
12	JHQPM-250 (1R)2009	83.0	82.1	81.4	83.0	84.5	83.4	83.1	88.0	68.6	81.4	79.3	82.4
13	HQPM-14	80.9	79.7	78.2	79.6	88.9	83.7	82.6	85.0	66.7	71.3	74.3	79.6
14	MHQPM-09-5	79.9	78.7	77.0	78.5	84.9	80.3	80.1	78.2	56.6	74.4	69.7	78.2
15	MHQPM-09-6	79.9	77.6	77.4	79.1	86.7	81.3	81.1	80.4	68.8	77.3	75.5	78.2
16	MHQPM-09-7	77.6	77.7	80.2	80.9	86.3	84.5	82.9	81.8	67.2	80.2	76.4	79.1
17	MHQPM-09-8	80.9	79.4	76.4	84.4	85.6	82.4	82.2	82.1	67.1	-	74.6	80.0
CHECKS													
18	HQPM 1	75.5	79.8	77.8	81.6	85.3	82.2	81.7	85.3	67.2	79.8	77.4	80.5
19	HQPM 5	-	79.0	-	77.6	85.3	-	81.4	-	68.8	80.8	74.8	79.9
20	HQPM 7	73.6	75.4	-	82.3	83.1	-	82.7	-	65.7	77.4	71.5	77.6
	Loc. Mean	78.7	79.4	76.5	81.4	85.5	82.0	81.5	83.7	66.1	77.9	75.5	79.6
	C.D. (5%)	6.49	2.39	6.53	1.63	2.02	1.81	4.00	0.61	2.31	3.58	5.11	1.60
	C.V. (%)	5.25	2.39	5.75	1.21	1.43	1.48	3.47	0.49	2.12	2.93	4.10	3.06
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.00	0.06	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)												
		ZN 1							ZN 2					
		ALMO	BAJA	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	DHOL	BHUB	VARA	RANC
1	EHQ-03	63.9	65.7	64.8	43.9	61.3	38.3	65.5	52.3	69.4	50.0	61.5	70.8	53.0
2	EHQ-10	60.2	59.3	59.7	36.7	63.1	40.0	61.9	50.4	56.3	50.6	59.4	69.4	42.3
3	EHQ-16	63.9	60.2	62.0	48.3	66.7	31.7	65.5	53.0	56.3	50.6	64.6	66.0	52.4
4	ECQ-02	60.2	71.3	65.7	43.3	58.3	46.7	64.3	53.2	57.6	52.8	66.7	69.4	31.5
5	ECQ-03	59.3	48.1	53.7	16.1	61.3	34.4	64.9	44.2	47.9	52.8	62.5	60.4	27.4
6	BQPMH-227	64.8	75.0	69.9	59.4	64.3	63.3	64.3	62.8	64.6	55.6	67.7	79.9	54.8
7	HQPM-2	62.0	63.9	63.0	42.8	61.9	41.1	67.9	53.4	51.4	53.9	59.4	68.8	54.8
8	HQPM-24	65.7	68.5	67.1	50.6	63.1	53.3	65.5	58.1	59.0	56.1	63.5	70.8	58.9
9	HQPM-22	61.1	59.3	60.2	53.9	67.3	38.9	63.1	55.8	63.2	47.8	63.5	61.1	57.1
10	VEHQ-3028	63.9	63.9	63.9	33.3	62.5	43.3	66.7	51.5	52.8	51.1	63.5	70.8	60.1
11	JHQPM-304 (1R)	64.8	68.5	66.7	57.2	66.7	50.6	66.7	60.3	73.6	53.3	66.7	74.3	61.9
12	JHQPM-250 (1R)2009	62.0	73.1	67.6	47.8	66.1	55.6	63.1	58.1	70.1	55.6	68.8	73.6	61.9
13	HQPM-14	63.0	65.7	64.4	57.2	63.7	45.0	63.1	57.3	59.0	56.1	61.5	70.1	33.3
14	MHQPM-09-5	60.2	69.4	64.8	52.2	63.7	40.6	63.1	54.9	61.1	55.6	61.5	62.5	66.1
15	MHQPM-09-6	59.3	76.9	68.1	57.8	66.1	44.4	65.5	58.4	61.1	53.3	60.4	75.0	53.6
16	MHQPM-09-7	-	69.4	69.4	45.6	63.1	40.6	61.9	52.8	61.8	51.1	64.6	67.4	56.5
17	MHQPM-09-8	21.3	69.4	45.4	46.1	67.9	38.9	61.9	53.7	62.5	52.8	63.5	76.4	60.7
CHECKS														
18	HQPM 1	58.3	53.7	56.0	28.3	64.3	35.6	61.9	47.5	49.3	50.0	63.5	65.3	58.9
19	HQPM 5	61.1	2.8	31.9	-	-	40.0	-	40.0	-	-	14.6	4.2	2.4
20	HQPM 7	61.1	45.4	53.2	22.8	61.3	3.3	63.1	37.6	-	-	13.5	33.3	12.5
	Loc. Mean	59.8	61.5	60.9	44.4	63.8	41.3	64.2	52.8	59.8	52.7	58.5	64.5	48.0
	C.D. (5%)	6.85	8.55	28.17	11.76	4.58	13.26	3.50	10.99	6.81	4.72	6.36	8.75	9.40
	C.V. (%)	7.30	8.41	22.11	16.87	4.57	19.43	3.47	14.71	7.65	6.02	5.19	8.21	11.84
	F (Prob.)	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 18 (Continued)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)											OV'L Mean	
		AMBI	ZN 3 Mean	ARBH	HYDE	KOLH	MAND	ZN 4 Mean	UDAI	BANS	GODH	CHHI		ZN 5 Mean
1	EHQ-03	55.0	60.0	59.4	58.3	61.7	60.1	59.9	75.7	60.4	59.7	63.9	64.9	59.9
2	EHQ-10	36.7	52.4	46.7	62.2	56.7	59.5	56.3	52.8	49.3	51.4	62.8	54.1	53.8
3	EHQ-16	46.7	56.1	37.2	52.2	55.6	64.9	52.5	59.7	54.9	50.0	60.6	56.3	55.4
4	ECQ-02	46.7	54.1	40.0	60.6	60.6	60.1	55.3	71.5	54.9	52.8	65.0	61.0	56.7
5	ECQ-03	37.2	48.0	41.1	58.9	52.8	62.5	53.8	43.1	44.4	49.3	52.8	47.4	48.9
6	BQPMH-227	49.4	62.0	48.3	61.7	55.0	63.1	57.0	72.2	51.4	70.8	66.7	65.3	62.6
7	HQPM-2	52.2	56.7	47.8	51.1	56.7	57.7	53.3	58.3	46.5	45.8	62.2	53.2	55.3
8	HQPM-24	58.9	61.2	42.8	55.6	60.6	59.5	54.6	77.1	49.3	52.8	64.4	60.9	59.8
9	HQPM-22	43.9	56.1	54.4	58.9	53.9	60.7	57.0	61.8	36.1	45.1	61.7	51.2	55.6
10	VEHQ-3028	44.4	57.1	52.2	62.2	59.4	61.9	58.9	61.8	49.3	41.7	66.7	54.9	56.6
11	JHQPM-304 (1R)	51.1	63.5	57.2	60.0	58.3	58.3	58.5	70.1	52.8	60.4	64.4	61.9	61.9
12	JHQPM-250 (1R)2009	59.4	64.9	58.3	58.3	53.9	61.9	58.1	70.8	52.8	51.4	65.6	60.1	61.5
13	HQPM-14	45.0	54.2	53.3	53.3	62.2	59.5	57.1	58.3	52.1	56.3	64.4	57.8	57.1
14	MHQPM-09-5	54.4	60.2	56.1	55.0	54.4	59.5	56.3	63.9	50.0	62.5	63.3	59.9	58.8
15	MHQPM-09-6	58.3	60.3	51.1	53.3	54.4	60.7	54.9	66.7	54.2	63.9	66.1	62.7	60.1
16	MHQPM-09-7	55.6	59.5	58.9	56.7	57.2	60.7	58.4	74.3	50.7	55.6	66.1	61.7	58.8
17	MHQPM-09-8	53.9	61.6	55.6	53.3	56.1	59.5	56.1	71.5	46.5	-	62.8	60.3	56.9
CHECKS														
18	HQPM 1	42.8	55.0	38.3	52.8	54.4	61.3	51.7	66.0	47.2	58.3	63.3	58.7	53.7
19	HQPM 5	-	7.0	-	28.9	42.8	-	35.9	-	46.5	13.9	-	30.2	25.7
20	HQPM 7	36.1	23.9	-	26.1	45.6	-	35.8	-	22.2	47.9	8.3	26.2	33.5
	Loc. Mean	48.8	53.7	49.9	54.0	55.6	60.6	54.1	65.3	48.6	52.1	60.6	55.4	54.6
	C.D. (5%)	8.96	7.11	19.28	9.07	12.12	4.25	6.97	5.71	17.10	24.01	6.00	10.75	4.76
	C.V. (%)	11.69	11.56	25.95	10.16	13.19	4.71	9.10	5.88	21.30	29.35	6.31	13.69	14.00
	F (Prob.)	0.00	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00

Table No.19

PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRID AT BAJAURA, DELHI, KARNAL, PANTNAGAR, DHOLI, VARANASI, RANCHI, ARBHAVI, HYDERABAD ,KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA IN TRIAL No. TRSWEET DURING KHARIF(2010).

SI No.	PEDIGREE	Green Ear yield (kg/ha)								LOCATION REJECTED DUE TO HIGH CV(>20%)						
		ZN1		ZN2		ZN 4		OV'L		DELH	VARA	MAND				
		BAJA	R	KARN	R	KOLH	R	COIM	R	Mean	R	Mean	R			
1	Sanjivani Gold	29181	3	6726	2	22661	1	15379	3	19020	2	18487	3	13845	6806	15670
2	NSCH-12 (Misthi) CHECKS	37501	2	6756	1	21706	2	23376	1	22541	1	22335	1	12231	9097	15335
3	Priya	26092	4	4167	5	21578	3	12367	4	16972	4	16051	5	3586	7917	13348
4	Win Orange SC	25217	5	4196	4	21144	4	15816	2	18480	3	16593	4	4606	5035	16585
5	HSC1	39644	1	5893	3	16567	5	-	-	16567	5	20701	2	10337	2708	14129
	Loc. Mean	31527		5548		20731		16735		18716		18833		8921	6313	15013
	C.D. (5%)	3315.4		1541.5		4629.8		1056.6		9200.1		5798.7		5040.5	3733.9	4752.0
	C.V. (%)	6.8		14.8		11.9		5.1		17.7		20.0		30.0	31.4	20.5
	F (Prob.)	0.00		0.01		0.10		0.00		0.49		0.16		0.00	0.03	0.61

SI No.	PEDIGREE	GREEN EAR YIELD SUPERIORITY OVER THE PRIYA					GREEN EAR YIELD SUPERIORITY OVER THE WIN ORANGE SC						
		ZN1	ZN2	ZN 4	OV'L	BAJA	KARN	KOLH	COIM	ZN 4	OV'L		
		BAJA	KARN	KOLH	COIM	Mean	Mean				Mean	Mean	
1	Sanjivani Gold	11.8	61.4	5.0	24.4	12.1	15.2	15.7	60.3	7.2	-2.8	2.9	11.4
2	NSCH-12 (Misthi) CHECKS	43.7	62.1	0.6	89.0	32.8	39.1	48.7	61.0	2.7	47.8	22.0	34.6
3	Priya							3.5	-0.7	2.0	-21.8	-8.2	-3.3
4	Win Orange SC	-3.4	0.7	-2.0	27.9	8.9	3.4						
5	HSC1	51.9	41.4	-23.2		-2.4	29.0	57.2	40.4	-21.6		-10.4	24.8

SI No.	PEDIGREE	GREEN EAR YIELD SUPERIORITY OVER THE HSC1					
		BAJA	KARN	KOLH	COIM	ZN 4	OV'L
						Mean	Mean
1	Sanjivani Gold	-26.4	14.1	36.8		14.8	-10.7
2	NSCH-12 (Misthi) CHECKS	-5.4	14.6	31.0		36.1	7.9
3	Priya	-34.2	-29.3	30.2		2.4	-22.5
4	Win Orange SC	-36.4	-28.8	27.6		11.6	-19.8
5	HSC1						

Table No.19 (Cont..)

SI No.	PEDIGREE	Fodder yield (kg/ha)						Fodder yield (kg/ha) SUPERIORITY OVER THE PRIYA									
		HYDE		KOLH		ZN 4		GODH		OV'L		ZN 4		OV'L			
		R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean		
1	Sanjivani Gold	2	16208	4	23111	3	19660	3	2847	4	14056	4	2.4	-16.5	-9.6	115.8	-6.0
2	NSCH-12 (Misthi) CHECKS	4	15396	3	23644	4	19520	1	3542	3	14194	3	-2.8	-14.6	-10.3	168.4	-5.0
3	Priya	3	15833	1	27683	1	21758	5	1319	1	14945	1					
4	Win Orange SC	1	16500	2	25011	2	20756	4	2326	2	14613	2	4.2	-9.7	-4.6	76.3	-2.2
5	HSC1	5	12896	5	20494	5	16695	2	3403	5	12264	5	-18.6	-26.0	-23.3	157.9	-17.9
	Loc. Mean		15367		23989		19678		2688		14014						
	C.D. (5%)		2160.2		8582.2		3747.5		793.9		3421.4						
	C.V. (%)		9.1		19.0		6.9		15.7		13.0						
	F (Prob.)		0.02		0.46		0.11		0.00		0.47						

SI No.	PEDIGREE	Fodder yield (kg/ha) SUPERIORITY OVER THE WIN ORANGE SC					Fodder yield (kg/ha) SUPERIORITY OVER THE HSC1														
		HYDE		KOLH		ZN 4	OV'L	HYDE		KOLH		ZN 4	OV'L								
		R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean								
1	Sanjivani Gold		-1.8		-7.6		-5.3		22.4		-3.8		25.7		12.8		17.8		-16.3		14.6
2	NSCH-12 (Misthi) CHECKS		-6.7		-5.5		-6.0		52.2		-2.9		19.4		15.4		16.9		4.1		15.7
3	Priya		-4.0		10.7		4.8		-43.3		2.3		22.8		35.1		30.3		-61.2		21.9
4	Win Orange SC												27.9		22.0		24.3		-31.6		19.1
5	HSC1		-21.8		-18.1		-19.6		46.3		-16.1										

Table No. 19 (Continued)

SI No.	PEDIGREE	Days to 50% pollen shed															
		BAJA				DELH				KARN				PANT			
		ZN 2				ZN 3				ZN 4				UDAI			
		Mean	DHOL	VARA	RANC	Mean	ARBH	HYDE	KOLH	MAND	COIM	Mean	UDAI				
1	Sanjivani Gold	60.5	51.7	51.7	53.0	52.1	48.8	46.0	51.7	48.8	54.3	44.8	60.0	48.0	48.5	51.1	51.3
2	NSCH-12 (Misthi) CHECKS	58.8	53.3	52.0	52.5	52.6	48.3	47.3	50.3	48.6	56.5	44.5	60.7	48.8	50.8	52.2	54.0
3	Priya	59.0	53.3	48.0	52.3	51.2	49.3	46.3	49.3	48.3	53.3	44.8	60.7	48.0	47.3	50.8	50.3
4	Win Orange SC	59.8	52.3	49.7	52.0	51.3	48.5	44.7	50.7	47.9	53.8	44.5	59.7	48.3	48.3	50.9	53.3
5	HSC1	55.8	52.0	50.3	50.8	51.0	49.5	45.3	50.3	48.4	53.3	45.0	60.7	48.3	-	51.8	-
	Loc. Mean	58.8	52.5	50.3	52.1	51.7	48.9	45.9	50.5	48.4	54.2	44.7	60.3	48.3	39.0	51.4	41.8
	C.D. (5%)	1.40	2.74	5.78	1.15	2.12	1.30	2.08	3.12	1.72	1.38	1.17	1.29	1.97	1.22	1.30	1.63
	C.V. (%)	1.55	2.77	6.10	1.43	2.18	1.72	2.40	3.29	1.88	1.65	1.70	1.13	2.66	2.03	1.89	2.07
	F (Prob.)	0.00	0.54	0.54	0.01	0.43	0.26	0.12	0.58	0.81	0.00	0.87	0.31	0.92	0.00	0.13	0.00

SI No.	PEDIGREE	Days to 50% pollen shed					Days to 50% silk									
		BANS	GODH	CHHI	ZN 5	OV'L	BAJA	DELH	KARN	PANT	ZN 2	DHOL	VARA	RANC	ZN 3	ARBH
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	Sanjivani Gold	43.0	57.3	52.3	51.0	51.4	64.8	54.3	54.7	57.0	55.3	50.3	52.0	56.0	52.8	56.3
2	NSCH-12 (Misthi) CHECKS	40.5	58.0	54.3	51.7	51.9	61.5	55.0	55.7	56.5	55.7	50.3	51.7	55.0	52.3	57.3
3	Priya	39.0	58.0	52.0	49.8	50.7	63.0	55.3	51.3	56.5	54.4	51.5	50.7	54.0	52.1	53.8
4	Win Orange SC	41.8	54.7	51.0	50.2	50.8	63.8	54.0	53.0	56.0	54.3	50.3	49.3	55.7	51.8	54.3
5	HSC1	41.5	53.3	52.0	48.9	50.6	59.8	54.3	53.7	55.0	54.3	51.0	51.3	54.3	52.2	55.0
	Loc. Mean	41.2	56.3	52.3	50.3	51.1	62.6	54.6	53.7	56.2	54.8	50.7	51.0	55.0	52.2	55.3
	C.D. (5%)	1.11	2.33	2.45	2.54	0.81	1.61	2.86	5.51	1.05	2.02	1.90	3.00	2.28	1.77	1.51
	C.V. (%)	1.75	2.20	2.49	3.28	2.24	1.67	2.78	5.45	1.22	1.95	2.44	3.12	2.20	1.80	1.78
	F (Prob.)	0.00	0.00	0.11	0.22	0.01	0.00	0.81	0.48	0.01	0.41	0.51	0.34	0.30	0.77	0.00

SI No.	PEDIGREE	Days to 50% silk												
		BAJA				DELH				KARN			PANT	
		ZN 4				ZN 5				OV'L				
		Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	Sanjivani Gold	47.5	61.0	50.0	50.8	53.1	54.0	46.3	58.3	53.7	53.1	54.2		
2	NSCH-12 (Misthi) CHECKS	46.8	61.7	50.8	53.0	53.9	55.7	44.0	59.0	54.3	53.3	54.3		
3	Priya	47.3	61.7	50.0	50.0	52.5	52.0	43.3	59.0	52.7	51.7	53.2		
4	Win Orange SC	47.0	60.7	50.5	56.8	53.8	54.7	45.0	56.3	51.7	51.9	53.7		
5	HSC1	47.0	61.7	50.3	-	53.5	-	44.5	56.0	52.7	51.1	53.3		
	Loc. Mean	47.1	61.3	50.3	42.1	53.4	43.3	44.6	57.7	53.0	52.2	53.7		
	C.D. (5%)	0.88	1.29	1.90	8.56	1.89	1.03	1.41	1.79	2.43	1.91	0.86		
	C.V. (%)	1.21	1.11	2.46	13.19	2.64	1.27	2.06	1.64	2.44	2.38	2.25		
	F (Prob.)	0.44	0.31	0.89	0.00	0.55	0.00	0.01	0.01	0.20	0.13	0.06		

Table No. 19 (Continued)

SI No.	PEDIGREE	Plant Height (cm)													
		DELH	KARN	Mean	DHOL	VARA	RANC	Mean	HYDE	KOLH	COIM	Mean	UDAI	BANS	GODH
1	Sanjivani Gold	175.3	170.0	172.7	170.0	181.3	113.8	155.0	216.3	163.3	174.2	184.6	158.3	180.1	120.3
2	NSCH-12 (Misthi) CHECKS	187.3	170.0	178.7	159.9	180.0	147.1	162.3	205.0	161.7	177.6	181.4	175.0	178.6	114.7
3	Priya	145.7	143.3	144.5	174.3	186.0	97.3	152.5	195.0	163.3	167.0	175.1	173.3	172.1	118.7
4	Win Orange SC	157.7	150.0	153.8	150.5	195.0	96.7	147.4	227.5	155.0	173.3	185.3	153.3	176.3	106.3
5	HSC1	163.7	150.0	156.8	166.4	164.0	119.5	150.0	207.3	155.0	-	181.1	-	166.6	122.7
	Loc. Mean	165.9	156.7	161.3	164.2	181.3	114.9	153.4	210.2	159.7	138.4	181.5	132.0	174.7	116.5
	C.D. (5%)	23.33	21.60	12.04	27.36	13.95	26.68	30.98	20.67	47.20	4.95	16.23	7.88	13.31	12.38
	C.V. (%)	7.47	7.32	2.69	10.81	4.09	12.34	10.72	6.38	15.70	2.32	4.75	3.17	4.95	5.64
	F (Prob.)	0.03	0.06	0.01	0.40	0.01	0.01	0.83	0.05	0.98	0.00	0.64	0.00	0.24	0.10

SI No.	PEDIGREE	Plant Height (cm)			Plant Stand ('000/ha)									
		CHHI	ZN 5 Mean	OV'L Mean	BAJA	KARN	PANT	Mean	DHOL	VARA	RANC	Mean	HYDE	KOLH
1	Sanjivani Gold	213.3	168.0	169.7	121.5	49.7	47.3	48.5	37.7	42.7	62.2	47.5	40.8	106.1
2	NSCH-12 (Misthi) CHECKS	211.7	170.0	172.4	140.3	50.3	41.9	46.1	29.6	42.7	53.9	42.1	41.9	102.2
3	Priya	198.3	165.6	161.2	124.3	48.2	40.2	44.2	35.0	43.1	55.1	44.4	43.1	104.4
4	Win Orange SC	186.7	155.7	160.7	115.3	48.5	40.8	44.7	33.5	40.6	16.7	30.3	41.3	125.6
5	HSC1	193.3	160.9	160.8	154.9	49.7	45.6	47.7	32.9	21.5	67.6	40.7	41.3	93.3
	Loc. Mean	200.7	164.0	165.0	131.3	49.3	43.2	46.2	33.8	38.1	51.1	41.0	41.7	106.3
	C.D. (5%)	12.27	11.31	8.53	6.60	4.28	4.95	5.31	17.09	4.21	12.95	25.57	7.43	20.50
	C.V. (%)	3.25	4.48	6.29	3.26	4.61	7.45	4.13	32.87	5.87	13.47	33.14	11.58	10.24
	F (Prob.)	0.00	0.10	0.01	0.00	0.77	0.03	0.28	0.88	0.00	0.00	0.62	0.96	0.06

SI No.	PEDIGREE	Plant Stand ('000/ha)								
		MAND	COIM	Mean	UDAI	BANS	GODH	CHHI	ZN 5 Mean	OV'L Mean
1	Sanjivani Gold	56.7	66.9	67.6	58.7	39.8	43.1	63.1	51.2	59.7
2	NSCH-12 (Misthi) CHECKS	57.4	67.4	67.2	62.2	44.5	38.5	56.7	50.5	59.2
3	Priya	56.7	66.1	67.6	59.7	33.3	15.3	56.7	41.3	55.8
4	Win Orange SC	58.5	66.7	73.0	50.7	37.2	29.2	29.7	36.7	52.4
5	HSC1	57.6	-	64.1	-	43.2	39.6	59.7	47.5	58.9
	Loc. Mean	57.4	66.8	67.9	57.8	39.6	33.1	53.2	45.4	57.2
	C.D. (5%)	3.76	1.27	8.96	6.10	7.68	12.95	5.89	12.85	7.07
	C.V. (%)	4.26	1.54	8.57	7.01	12.58	20.76	5.89	18.37	16.30
	F (Prob.)	0.83	0.00	0.35	0.00	0.05	0.01	0.00	0.13	0.21

TABLE No. 20

PERFORMANCE OF POP CORN EXPERIMENTAL HYBRID & COMPOSITE AT BAJAURA, DELHI, KARNAL, DHOLI, ARBHAVI, HYDERABAD, UDAIPUR, CHHINDWARA IN POP CORN, TRIAL No. TRPOP DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																							
		ZN 1		DELH		KARN		ZN 2		ZN 3		ZN 4		UDAI		CHHI		ZN 5		OV'L					
		BAJA	R	DELH	R	KARN	R	MEAN	R	DHOL	R	ARBH	R	HYDE	R	MEAN	R	UDAI	R	CHHI	R	MEAN	R	MEAN	R
1	VL Popcorn 1	4696	3	1851	6	2187	1	2019	5	414	6	2858	5	4422	2	3640	3	1041	2	3183	3	3183	3	3200	4
2	BPCH-27	3960	4	2462	3	2028	3	2245	2	777	5	3111	4	3987	4	3549	5	893	3	3167	4	3167	4	3119	5
3	DMRPCH-1	3858	5	2603	1	2036	2	2320	1	807	4	3555	1	4284	3	3920	2	864	6	3716	1	3716	1	3342	2
4	DMRPCH-2	4700	2	2533	2	1843	5	2188	3	816	3	3389	2	3860	5	3625	4	1402	1	2920	5	2920	5	3208	3
5	BPCH-6	4720	1	2214	4	1972	4	2093	4	990	1	3300	3	4639	1	3969	1	882	5	3305	2	3305	2	3358	1
CHECKS																									
6	VL Amber	3003	6	1935	5	1489	6	1712	6	859	2	2305	6	3718	6	3011	6	890	4	2842	6	2842	6	2549	6
	Location Mean	4156		2266		1926		2096		777		3086		4152		3619		995		3189		3189		3129	
	Mean Stand	48		54		65		59		59		48		49		48		52		64		64		55	
	C.D. (5%)	672		246		423		335		444		687		960		824		805		610		610		600	
	C.V. (%)	8.75		5.89		11.89		-		30.93		12.05		12.52		-		43.79		10.35		-		-	
	F (Prob)	0		0		0.048		-		0.729		0.001		0.093		-		0.003		0.055		-		-	
	Plot Size	8.4		12		11.2		-		12		12		12		-		9.6		12		-		-	
AGRONOMY DATA																									
	Sowing Date	25-06		-		26-06		-		16-07		5-08		19-06		-		3-07		29-06		-		-	
	Harvest Date	9-11		-		27-09		-		-		21-12		16-10		-		9-10		26-10		-		-	
	Irrigation Nos	3		-		4		-		-		4		-		-		-		-		-		-	
	Fertilizer Applied N	120		150		150		-		150		150		180		-		90		120		-		-	
	Fertilizer Applied P	60		75		60		-		70		75		60		-		60		60		-		-	
	Fertilizer Applied K	40		75		60		-		50		37.5		50		-		-		40		-		-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE VL Amber														
		ZN 1		DELH		KARN		ZN 2		ZN 3		ZN 4		ZN 5		OV'L
		BAJA	DELH	KARN	MEAN	DHOL	ARBH	HYDE	MEAN	UDAI	CHHI	MEAN	MEAN	MEAN	MEAN	MEAN
1	VL Popcorn 1	56.4	-	46.9	17.9	-	24	19	20.9	16.8	12	12	25.5			
2	BPCH-27	31.9	27.2	36.2	31.2	-	34.9	7.3	17.9	0.3	11.4	11.4	22.4			
3	DMRPCH-1	28.5	34.5	36.8	35.5	-	54.2	15.2	30.2	-	30.8	30.8	31.1			
4	DMRPCH-2	56.5	30.9	23.8	27.8	-	47	3.8	20.4	57.5	2.8	2.8	25.9			
5	BPCH-6	57.2	14.4	32.5	22.3	15.2	43.2	24.8	31.8	-	16.3	16.3	31.8			

CHECKS

6 VL Amber

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DHOL 30.9 %: UDAI 43.8 %

TABLE No. 20 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING							ZN 4	ZN 5	OV'L	DAYS TO 50% POLLEN SHED					
		BAJA	DELH	KARN	Mean	DHOL	ARBH	HYDE				Mean	UDAI	CHHI	Mean	Mean	BAJA
1	VL Popcorn 1	54.0	52.0	52.0	52.0	52.3	57.0	51.3	54.2	51.0	51.0	51.0	52.6	51.7	50.3	50.0	50.2
2	BPCH-27	57.3	52.0	52.3	52.2	54.3	59.7	51.0	55.3	53.3	54.0	53.7	54.3	54.3	49.7	50.0	49.8
3	DMRPCH-1	55.7	51.0	51.7	51.3	52.3	56.3	51.3	53.8	49.3	51.0	50.2	52.3	52.0	48.7	49.3	49.0
4	DMRPCH-2	54.0	50.3	52.7	51.5	51.0	56.3	50.0	53.2	47.3	50.0	48.7	51.5	51.0	48.3	49.7	49.0
5	BPCH-6	57.3	53.0	52.7	52.8	54.0	58.0	52.3	55.2	51.3	54.3	52.8	54.1	54.0	51.0	50.0	50.5
CHECKS																	
6	VL Amber	57.0	52.0	52.0	52.0	53.3	58.0	50.7	54.3	50.7	53.3	52.0	53.4	53.3	50.0	49.3	49.7
	Loc. Mean	55.9	51.7	52.2	52.0	52.9	57.6	51.1	54.3	50.5	52.3	51.4	53.0	52.7	49.7	49.7	49.7
	C.D. (5%)	1.03	1.68	1.55	1.75	1.31	1.40	1.65	2.44	2.25	1.84	2.22	0.88	0.92	2.02	0.92	1.60
	C.V. (%)	1.02	1.79	1.63	1.31	1.37	1.33	1.77	1.75	2.45	1.93	1.68	1.63	0.96	2.24	1.02	1.25
	F (Prob.)	0.00	0.06	0.65	0.41	0.00	0.00	0.13	0.34	0.00	0.00	0.02	0.00	0.00	0.10	0.35	0.25
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED							ZN 5	OV'L	DAYS TO 75% DRY HUSK						
		DHOL	ARBH	HYDE	Mean	UDAI	CHHI	Mean			Mean	BAJA	DELH	KARN	Mean	DHOL	ARBH
1	VL Popcorn 1	50.3	54.3	48.3	51.3	47.7	50.0	48.8	50.3	86.7	94.0	85.0	89.5	79.3	107.7	178.3	143.0
2	BPCH-27	52.3	56.0	49.3	52.7	48.3	53.3	50.8	51.7	91.0	94.0	86.0	90.0	81.7	110.7	189.3	150.0
3	DMRPCH-1	51.0	53.3	49.0	51.2	46.3	50.0	48.2	50.0	87.3	93.0	86.7	89.8	79.3	106.7	183.7	145.2
4	DMRPCH-2	50.0	55.0	47.7	51.3	45.7	50.0	47.8	49.7	91.7	92.3	86.3	89.3	80.3	107.3	172.0	139.7
5	BPCH-6	52.7	55.7	49.0	52.3	47.3	52.7	50.0	51.5	89.3	95.0	86.7	90.8	81.7	109.0	137.1	123.1
CHECKS																	
6	VL Amber	51.7	56.0	47.3	51.7	47.7	51.3	49.5	50.8	87.7	94.0	84.7	89.3	79.3	109.0	176.0	142.5
	Loc. Mean	51.3	55.1	48.4	51.8	47.2	51.2	49.2	50.7	88.9	93.7	85.9	89.8	80.3	108.4	172.7	140.6
	C.D. (5%)	1.37	0.86	2.19	2.61	1.29	2.39	1.97	0.73	2.73	1.68	3.02	2.51	1.75	1.72	78.66	33.77
	C.V. (%)	1.47	0.86	2.49	1.96	1.50	2.56	1.56	1.42	1.69	0.99	1.93	1.09	1.20	0.87	25.03	9.35
	F (Prob.)	0.01	0.00	0.32	0.63	0.01	0.03	0.06	0.00	0.01	0.06	0.57	0.65	0.02	0.00	0.74	0.50
Sl No	PEDIGREE	DAYS TO 75% DRY HUSK				MOISTURE % AT HARVEST											
		UDAI	CHHI	ZN 5	OV'L	BAJA	DELH	Mean	DHOL	ARBH	HYDE	Mean	UDAI	CHHI	Mean	ZN 5	OV'L
1	VL Popcorn 1	80.0	84.3	82.2	99.4	15.7	18.3	18.3	17.0	11.3	16.8	14.0	15.1	12.9	14.0	15.3	
2	BPCH-27	80.7	87.7	84.2	102.6	17.5	17.8	17.8	17.4	11.5	17.3	14.4	13.0	12.3	12.6	15.2	
3	DMRPCH-1	78.0	84.3	81.2	99.9	17.0	15.7	15.7	17.5	11.1	15.4	13.2	13.7	12.8	13.2	14.7	
4	DMRPCH-2	80.3	86.0	83.2	99.5	18.3	18.1	18.1	16.6	12.0	16.4	14.2	16.2	14.2	15.2	16.0	
5	BPCH-6	78.0	88.7	83.3	95.7	17.8	21.4	21.4	17.0	11.3	17.0	14.1	15.2	12.2	13.7	16.0	
CHECKS																	
6	VL Amber	77.0	84.3	80.7	99.0	16.5	21.4	21.4	20.0	11.8	16.6	14.2	14.4	12.7	13.5	16.2	
	Loc. Mean	79.0	85.9	82.4	99.4	17.1	18.8	18.8	17.6	11.5	16.5	14.0	14.6	12.9	13.7	15.6	
	C.D. (5%)	2.46	3.23	3.88	6.83	1.18	2.12	2.12-	-	0.39	1.15	1.18	0.48	0.87	1.53	1.22	
	C.V. (%)	1.71	2.07	1.83	6.78	3.80	6.20	6.20-	-	1.89	3.83	3.27	1.81	3.72	4.34	7.17	
	F (Prob.)	0.03	0.05	0.31	0.51	0.01	0.00	0.00	0.00	0.00	0.05	0.31	0.00	0.01	0.07	0.14	

TABLE No. 20 (Cont..)

		PLANT HEIGHT (cm)										EAR HEIGHT (cm)					
S1		BAJA		DELH		KARN		ZN 2		ZN 4		ZN 5		OV'L			
No	PEDIGREE	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean		
1	VL Popcorn 1	205.0	166.7	156.7	161.7	118.7	154.0	57.0	105.5	153.3	176.7	165.0	148.5	112.3	86.0		
2	BPCH-27	202.7	182.7	156.7	169.7	118.0	150.5	53.3	101.9	168.3	170.0	169.2	150.3	110.7	87.3		
3	DMRPCH-1	195.0	161.7	150.0	155.8	119.0	145.0	74.7	109.8	163.3	175.0	169.2	148.0	114.7	87.7		
4	DMRPCH-2	195.0	150.3	153.3	151.8	137.7	153.0	63.7	108.3	150.0	171.7	160.8	146.8	111.0	78.0		
5	BPCH-6	207.3	176.3	160.0	168.2	118.7	153.5	65.0	109.3	173.3	173.3	173.3	153.4	116.7	83.0		
CHECKS																	
6	VL Amber	205.0	167.7	153.3	160.5	95.2	150.5	70.7	110.6	166.7	175.0	170.8	148.0	110.0	83.7		
	Loc. Mean	201.7	167.6	155.0	161.3	117.9	151.1	64.1	107.6	162.5	173.6	168.1	149.2	112.6	84.3		
	C.D. (5%)	27.33	9.97	22.03	17.20	51.01	22.29	10.58	18.89	8.30	8.58	17.84	8.31	23.67	12.61		
	C.V. (%)	7.45	3.27	7.81	4.15	23.79	8.11	9.08	6.83	2.81	2.72	4.13	5.49	11.56	8.23		
	F (Prob.)	0.85	0.00	0.93	0.21	0.64	0.94	0.01	0.83	0.00	0.57	0.58	0.65	0.98	0.57		
		EAR HEIGHT (cm)						GRAIN SHELLING %									
S1		KARN		ZN 2		ZN 4		ZN 5		OV'L		ZN 2		ZN 4		ZN 4	
No	PEDIGREE	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	VL Popcorn 1	76.7	81.3	51.3	62.0	91.7	76.8	75.0	90.0	82.5	80.6	84.1	81.8	81.8	75.4	81.7	78.5
2	BPCH-27	76.7	82.0	49.2	60.0	90.7	75.3	76.7	76.7	76.7	78.5	84.8	83.2	83.2	77.6	78.7	78.2
3	DMRPCH-1	66.7	77.2	52.7	58.0	92.0	75.0	85.0	81.7	83.3	79.8	84.8	82.9	82.9	79.2	82.3	80.8
4	DMRPCH-2	73.3	75.7	43.8	65.0	88.0	76.5	70.0	75.0	72.5	75.5	83.5	81.6	81.6	76.3	81.0	78.6
5	BPCH-6	80.0	81.5	53.8	62.0	90.7	76.3	81.7	76.7	79.2	80.6	83.8	81.4	81.4	77.5	82.0	79.8
CHECKS																	
6	VL Amber	70.0	76.8	41.3	61.0	88.7	74.8	80.0	76.7	78.3	76.4	76.3	85.4	85.4	73.1	80.4	76.7
	Loc. Mean	73.9	79.1	48.7	61.3	90.3	75.8	78.1	79.4	78.8	78.6	82.9	82.7	82.7	76.5	81.0	78.8
	C.D. (5%)	22.93	11.83	14.49	18.57	2.17	6.61	6.98	9.64	13.74	3.83	-	2.34	2.34	1.71	3.49	4.07
	C.V. (%)	17.06	5.82	16.36	16.64	1.32	3.39	4.92	6.67	6.79	4.80	-	1.56	1.56	1.23	2.37	2.01
	F (Prob.)	0.80	0.62	0.37	0.97	0.01	0.94	0.01	0.05	0.46	0.04	0.00	0.03	0.03	0.00	0.29	0.33
		GRAIN SHELLING %						STAND AT HARVEST ('000/ha)									
S1		UDAI		CHHI		ZN 5		OV'L		ZN 2		ZN 4		ZN 5		OV'L	
No	PEDIGREE	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean
1	VL Popcorn 1	81.3	87.2	84.2	81.9	46.7	46.4	59.5	53.0	55.0	41.7	48.3	45.0	58.7	61.7	60.2	52.3
2	BPCH-27	80.9	89.9	85.4	82.5	59.9	45.8	58.3	52.1	46.7	33.1	36.1	34.6	54.9	46.9	50.9	47.7
3	DMRPCH-1	80.7	87.6	84.1	82.9	61.5	49.7	58.6	54.2	52.5	45.3	41.4	43.3	63.2	56.4	59.8	53.6
4	DMRPCH-2	82.3	83.6	83.0	81.4	57.9	50.0	56.0	53.0	49.7	48.1	33.9	41.0	61.1	51.7	56.4	51.0
5	BPCH-6	80.9	85.0	82.9	81.8	59.9	41.1	58.0	49.6	50.6	41.7	43.1	42.4	53.5	53.1	53.3	50.1
CHECKS																	
6	VL Amber	77.6	89.4	83.5	80.4	60.3	35.8	58.6	47.2	42.2	29.4	40.8	35.1	34.7	51.1	42.9	44.1
	Loc. Mean	80.6	87.1	83.9	81.8	57.7	44.8	58.2	51.5	49.4	39.9	40.6	40.2	54.3	53.5	53.9	49.8
	C.D. (5%)	0.81	2.79	6.70	2.55	18.96	10.83	4.51	10.82	15.64	9.64	11.54	16.22	4.98	12.75	17.65	5.39
	C.V. (%)	0.55	1.76	3.11	2.62	18.05	13.28	4.26	8.18	17.39	13.29	15.62	15.68	5.04	13.11	12.74	28.67
	F (Prob.)	0.00	0.00	0.92	0.42	0.55	0.10	0.63	0.61	0.56	0.01	0.17	0.52	0.00	0.26	0.27	0.02

Table No. 21

PERFORMANCE OF BABY CORN EXPERIMENTAL HYBRID & COMPOSITE AT BAJAURA, DELHI, KARNAL, LUDHIANA, PANTNAGAR, DHOLI, VARANASI, RANCHI, AMBIKAPUR, HYDERABAD ,KOLHAPUR, MANDYA, COIMBATORE, UDAIPUR, GODHRA, CHHINDWARA IN TRIAL No. BABY CORN DURING KHARIF (2010).

SI No PEDIGREE	Green Ear yield (kg/ha)																					
	KARN						LUDH						ZN 3									
	R		R	Mean	R	R		R	Mean	R	R		R	Mean	R	R		R	Mean	R		
1 MH BABY CORN-09-9 CHECKS	4405	3	4921	4	4663	5	8542	1	3194	5	4774	1	5503	1	4306	5	4851	2				
2 HM-4	5268	2	6270	2	5769	1	8472	2	3576	4	3993	3	5347	2	5074	4	4554	3				
3 HQPM-1	5565	1	4570	5	5068	4	5694	4	4115	3	3958	4	4589	5	5111	3	3095	5				
4 HM 8	4211	4	6164	3	5188	3	6597	3	5313	2	3958	4	5289	3	5977	1	5030	1				
5 HM 9	4107	5	6733	1	5420	2	5035	5	6198	1	4601	2	5278	4	5144	2	4524	4				
Loc. Mean	4711		5731		5221		6868		4479		4257		5201		5122		4411					
C.D. (5%)	1127.51		1320.53		2735.24		1178.68		852.75		881.13		2626.21		1455.51		512.21					
C.V. (%)	12.71		12.24		18.87		9.11		10.11		10.99		26.82		15.09		6.17					
F (Prob.)	0.06		0.02		0.83		0.00		0.00		0.16		0.94		0.23		0.00					

SI No PEDIGREE	Green Ear yield (kg/ha)										LOCATION REJECTED DUE TO HIGH CV(>20%)				
	COIM					ZN 4					OV'L				
	R		R	Mean	R	R		R	Mean	R	BAJA	DELH	PANT	DHOL	HYDE
1 MH BABY CORN-09-9 CHECKS	6629	3	5262	3	5797	5	5269	4	5275	4	5275	3146	4778	3111	3564
2 HM-4	7406	1	5678	2	8239	2	5872	2	5323	2	5323	4396	4847	2944	3708
3 HQPM-1	4023	5	4077	5	7937	3	4897	5	4943	5	4943	2071	2406	3194	4211
4 HM 8	7209	2	6072	1	8513	1	5886	1	5646	1	5646	3188	7000	3083	3025
5 HM 9	4907	4	4858	4	7785	4	5448	3	5154	3	5154	6542	3592	2556	3608
Loc. Mean	6035		5189		7654		5474		5268		5268	3868	4524	2978	3623
C.D. (5%)	466.76		1569.46		1782.32		978.91		2195.35		5427.52	1739.38	1197.17	1724.55	
C.V. (%)	4.11		16.06		12.37		18.62		22.13		50.53	20.42	21.35	25.28	
F (Prob.)	0.00		0.12		0.05		0.22		0.96		0.35	0.00	0.75	0.65	

SI No PEDIGREE	GREEN EAR YIELD SUPERIORITY OVER HM-4																		
	KARN					LUDH					ZN 3					ZN 4	ZN5	OV'L	
	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	R	Mean	CHHI	Mean				
1 MH BABY CORN-09-9 CHECKS	-16.4		-21.5		-19.2		0.8		-10.7		19.6		2.9	-15.1	6.5	-10.5	-7.3	-29.6	-10.3
2 HM-4																			
3 HQPM-1	5.6		-27.1		-12.2		-32.8		15.1		-0.9		-14.2	0.7	-32.0	-45.7	-28.2	-3.7	-16.6
4 HM 8	-20.1		-1.7		-10.1		-22.1		48.6		-0.9		-1.1	17.8	10.5	-2.7	6.9	3.3	0.2
5 HM 9	-22.0		7.4		-6.0		-40.6		73.3		15.2		-1.3	1.4	-0.7	-33.7	-14.4	-5.5	-7.2

Table No. 21 (cont..)

GREEN EAR YIELD SUPERIORITY OVER HQPM-1														
SI			ZN 2				ZN 3			ZN 4			ZN5	OV'L
No	PEDIGREE	KARN	LUDH	Mean	VARA	RANC	AMBI	Mean	KOLH	MAND	COIM	Mean	CHHI	Mean
1	MH BABY CORN-09-9 CHECKS	-20.8	7.7	-8.0	50.0	-22.4	20.6	19.9	-15.8	56.7	64.8	29.1	-27.0	7.6
2	HM-4	-5.3	37.2	13.8	48.8	-13.1	0.9	16.5	-0.7	47.1	84.1	39.3	3.8	19.9
3	HQPM-1													
4	HM 8	-24.3	34.9	2.4	15.9	29.1	0.0	15.3	16.9	62.5	79.2	49.0	7.3	20.2
5	HM 9	-26.2	47.3	15.1	-11.6	50.6	16.2	15.0	0.6	46.2	22.0	19.2	-1.9	12.4
GREEN EAR YIELD SUPERIORITY OVER HM-8														
SI			ZN 2				ZN 3			ZN 4			ZN5	OV'L
No	PEDIGREE	KARN	LUDH	Mean	VARA	RANC	AMBI	Mean	KOLH	MAND	COIM	Mean	CHHI	Mean
1	MH BABY CORN-09-9 CHECKS	4.6	-20.2	-10.1	29.5	-39.9	20.6	4.0	-28.0	-3.6	-8.0	-13.3	-31.9	-10.5
2	HM-4	25.1	1.7	11.2	28.4	-32.7	0.9	1.1	-15.1	-9.5	2.7	-6.5	-3.2	-0.2
3	HQPM-1	32.2	-25.9	-2.3	-13.7	-22.5	0.0	-13.2	-14.5	-38.5	-44.2	-32.9	-6.8	-16.8
4	HM 8													
5	HM 9	-2.5	9.2	4.5	-23.7	16.7	16.2	-0.2	-13.9	-10.1	-31.9	-20.0	-8.6	-7.4
GREEN EAR YIELD SUPERIORITY OVER HM-9														
SI			ZN 2				ZN 3			ZN 4			ZN5	OV'L
No	PEDIGREE	KARN	LUDH	Mean	VARA	RANC	AMBI	Mean	KOLH	MAND	COIM	Mean	CHHI	Mean
1	MH BABY CORN-09-9 CHECKS	7.3	-26.9	-14.0	69.7	-48.5	3.8	4.3	-16.3	7.2	35.1	8.3	-25.5	-3.3
2	HM-4	28.3	-6.9	6.4	68.3	-42.3	-13.2	1.3	-1.4	0.7	50.9	16.9	5.8	7.8
3	HQPM-1	35.5	-32.1	-6.5	13.1	-33.6	-14.0	-13.1	-0.6	-31.6	-18.0	-16.1	2.0	-10.1
4	HM 8	2.5	-8.5	-4.3	31.0	-14.3	-14.0	0.2	16.2	11.2	46.9	25.0	9.4	8.0
5	HM 9													

Table No. 21 (cont..)

SI No PEDIGREE	Fodder yield (kg/ha)																			
	ZN 2						ZN 4						OV'L							
	LUDH	R	PANT	R	Mean	R	VARA	R	HYDE	R	KOLH	R	MAND	R	Mean	R	GODH	R	Mean	R
1 MH BABY CORN-09-9 CHECKS	40873	1	28556	4	34714	1	33333	2	25722	5	18852	4	26310	4	23628	5	6111	1	25680	2
2 HM-4	31283	4	30028	3	30655	4	27257	3	34167	2	21440	2	26429	3	27345	3	5694	4	25185	3
3 HQPM-1	29563	5	28389	5	28976	5	24479	5	29861	3	21426	3	31131	2	27473	2	5174	5	24289	4
4 HM 8	32937	3	30056	2	31496	3	25694	4	28750	4	18269	5	24702	5	23907	4	5729	3	23734	5
5 HM 9	33267	2	30639	1	31953	2	33854	1	37361	1	23042	1	38095	1	32833	1	5799	2	28865	1
Loc. Mean	33585		29533		31559		28924		31172		20606		29333		27037		5701		25551	
C.D. (5%)	6974.5		3198.2		9198.9		7465.2		7763.5		7175.1		2475.4		4871.2		1878.3		3655.5	
C.V. (%)	11.0		5.8		10.5		13.7		13.2		18.5		4.5		9.6		17.5		13.0	
F (Prob.)	0.04		0.44		0.58		0.06		0.05		0.55		0.00		0.01		0.84		0.06	

SI No PEDIGREE	COB YIELD (kg/ha)																					
	ZN 2						ZN 3															
	BAJA	R	DELH	R	KARN	R	LUDH	R	PANT	R	Mean	R	DHOL	R	VARA	R	RANC	R	AMBI	R	Mean	R
1 MH BABY CORN-09-9 CHECKS	1236	3	808	2	863	4	1806	3	1658	2	1334	3	1139	1	2049	1	503	5	1726	2	1354	2
2 HM-4	1409	2	411	5	1152	2	2368	1	917	3	1760	1	972	4	2014	2	625	4	1615	3	1306	3
3 HQPM-1	1083	5	433	4	1287	1	1376	5	369	5	1331	4	1056	2	1181	4	799	3	1458	4	1123	5
4 HM 8	1515	1	1429	1	854	5	1660	4	2206	1	1257	5	889	5	1528	3	868	2	1726	2	1253	4
5 HM 9	1174	4	796	3	878	3	2361	2	858	4	1620	2	1028	3	1076	5	1389	1	1927	1	1355	1
Loc. Mean	1283		776		1007		1914		1202		1460		1017		1569		837		1690		1278	
C.D. (5%)	689.1		1168.0		173.4		476.9		834.3		1033.7		346.1		331.1		231.4		335.6		505.3	
C.V. (%)	28.5		54.3		9.2		13.2		36.9		25.5		18.1		11.2		14.7		10.6		25.7	
F (Prob.)	0.62		0.27		0.00		0.00		0.01		0.64		0.57		0.00		0.00		0.10		0.84	

SI No PEDIGREE	COB YIELD (kg/ha)																			
	ZN 4						ZN 5						OV'L							
	HYDE	R	KOLH	R	MAND	R	COIM	R	Mean	R	UDAI	R	CHHI	R	Mean	R	Mean	R	Mean	R
1 MH BABY CORN-09-9 CHECKS	1102	1	1074	3	1866	2	2040	3	1660	2	1865	3	5875	5	3870	4	1891	5		
2 HM-4	810	3	838	5	1449	4	2321	2	1536	3	1684	5	9917	1	5800	3	2269	2		
3 HQPM-1	844	2	1106	2	756	5	1295	5	1052	5	2285	1	9778	4	6031	1	2034	4		
4 HM 8	746	4	1509	1	2295	1	2555	1	2120	1	2104	2	9875	2	5990	2	2351	1		
5 HM 9	658	5	1032	4	1527	3	1518	4	1359	4	1740	4	9861	3	5800	3	2213	3		
Loc. Mean	832		1112		1579		1946		1546		1935		9061		5498		2152			
C.D. (5%)	415.5		304.7		195.2		375.7		594.5		95.2		2652.1		3466.8		552.9			
C.V. (%)	26.5		14.6		6.6		10.3		20.4		2.6		15.6		22.7		29.8			
F (Prob.)	0.24		0.01		0.00		0.00		0.03		0.00		0.03		0.47		0.46			

Table No. 21 (cont..)

SI	Days to 50% silk														
				ZN 2				ZN 3				ZN 4			ZN 5 OV' ALL
No PEDIGREE	BAJA	KARN	PANT	Mean	DHOL	RANC	AMBI	Mean	HYDE	COIM	Mean	UDAI	CHHI	Mean	Mean
1 MH BABY CORN-09-9 CHECKS	54.7	49.7	54.0	51.8	48.7	53.7	46.3	49.6	48.7	50.7	49.7	56.0	53.3	54.7	52.2
2 HM-4	56.3	50.3	57.0	53.7	54.0	54.0	46.3	51.4	46.3	53.3	49.8	56.0	53.3	54.7	53.4
3 HQPM-1	54.7	49.3	58.3	53.8	48.0	54.7	45.3	49.3	51.3	56.3	53.8	60.3	53.7	57.0	54.1
4 HM 8	56.0	50.3	53.7	52.0	52.3	53.0	45.0	50.1	49.0	49.7	49.3	54.3	50.7	52.5	52.1
5 HM 9	54.7	50.0	57.3	53.7	51.7	55.0	46.0	50.9	49.7	55.7	52.7	57.7	53.7	55.7	53.9
Loc. Mean	55.3	49.9	56.1	53.0	50.9	54.1	45.8	50.3	49.0	53.1	51.1	56.9	52.9	54.9	53.1
C.D. (5%)	3.27	2.32	2.41	4.50	1.82	1.26	1.84	5.55	3.41	1.26	5.29	1.61	1.97	3.22	
C.V. (%)	3.14	2.47	2.28	3.06	1.90	1.24	2.13	3.80	3.70	1.26	3.73	1.51	1.98	2.11	
F (Prob.)	0.62	0.82	0.01	0.61	0.00	0.04	0.40	0.60	0.09	0.00	0.22	0.00	0.03	0.10	

SI	Days to 50% pollen shed											
				ZN 3			ZN 4			ZN 5		OV'L
No PEDIGREE	PANT	DHOL	VARA	Mean	HYDE	MAND	Mean	UDAI	GODH	CHHI	Mean	Mean
1 MH BABY CORN-09-9 CHECKS	49.0	47.3	47.3	47.3	46.7	47.3	47.0	53.7	44.3	51.3	49.8	48.4
2 HM-4	53.0	51.7	47.0	49.3	39.7	48.7	44.2	54.3	47.7	51.3	51.1	49.2
3 HQPM-1	54.3	46.7	52.3	49.5	48.7	51.7	50.2	58.7	50.3	53.7	54.2	52.0
4 HM 8	48.7	50.0	48.0	49.0	46.7	47.7	47.2	53.0	45.7	50.7	49.8	48.8
5 HM 9	53.0	49.7	53.0	51.3	47.0	50.3	48.7	56.7	50.0	52.7	53.1	51.5
Loc. Mean	51.6	49.1	49.5	49.3	45.7	49.1	47.4	55.3	47.6	51.9	51.6	50.0
C.D. (5%)	2.39	1.70	2.70	8.09	7.87	2.02	6.57	1.59	2.68	2.15	1.82	1.97
C.V. (%)	2.46	1.84	2.89	5.91	9.14	2.18	4.99	1.53	3.00	2.20	1.87	3.86
F (Prob.)	0.00	0.00	0.00	0.75	0.17	0.01	0.29	0.00	0.00	0.07	0.00	0.00

SI	Plant Height (cm)										
				ZN 3			ZN 4			ZN 5	
No PEDIGREE	KARN	RANC	AMBI	Mean	HYDE	COIM	Mean	UDAI	GODH	Mean	Mean
1 MH BABY CORN-09-9 CHECKS	183.3	168.0	185.8	176.9	205.0	187.8	196.4	151.7	147.7	149.7	175.6
2 HM-4	183.3	154.5	175.2	164.8	195.0	177.4	186.2	186.7	114.0	150.3	169.4
3 HQPM-1	190.0	164.1	177.2	170.6	200.7	181.7	191.2	190.0	122.7	156.3	175.2
4 HM 8	180.0	161.8	174.1	168.0	209.3	190.9	200.1	165.0	125.0	145.0	172.3
5 HM 9	190.0	168.5	170.4	169.5	209.0	176.0	192.5	165.0	138.7	151.8	173.9
Loc. Mean	185.3	163.4	176.5	170.0	203.8	182.7	193.3	171.7	129.6	150.6	173.3
C.D. (5%)	17.36	17.15	17.23	14.13	10.61	8.73	13.18	8.93	32.85	56.18	10.68
C.V. (%)	4.97	5.57	5.18	2.99	2.77	2.54	2.46	2.76	13.46	13.43	5.59
F (Prob.)	0.61	0.39	0.39	0.35	0.06	0.02	0.20	0.00	0.23	0.98	0.76

Table No. 21 (cont..)

SI No PEDIGREE	Ear Height(cm)							Plant Stand ('000/ha)						
	VARA	RANC	AMBI	ZN 3 Mean	COIM	UDAI	GODH	ZN 5 Mean	OV'L Mean	KARN	LUDH	PANT	ZN 2 Mean	
1 MH BABY CORN-09-9 CHECKS	205.0	76.0	61.5	114.2	86.9	51.7	47.0	49.3	88.0	51.5	66.1	43.3	53.7	
2 HM-4	168.8	72.8	62.1	101.2	77.6	80.0	36.7	58.3	83.0	50.9	78.7	50.0	59.9	
3 HQPM-1	192.5	64.7	65.3	107.5	84.5	88.3	42.0	65.2	89.6	49.7	58.2	43.3	50.4	
4 HM 8	207.5	79.5	69.5	118.9	90.5	66.7	40.0	53.3	92.3	47.6	75.4	53.1	58.7	
5 HM 9	214.8	68.3	68.9	117.3	84.9	63.3	43.0	53.2	90.5	50.3	72.8	49.7	57.6	
Loc. Mean	197.7	72.3	65.5	111.8	84.9	70.0	41.7	55.9	88.7	50.0	70.2	47.9	56.0	
C.D. (5%)	13.22	16.65	7.42	19.43	3.60	8.33	13.01	33.66	12.56	2.08	15.01	7.75	8.60	
C.V. (%)	3.55	12.24	6.02	9.23	2.26	6.32	16.55	21.70	11.76	2.21	11.35	8.60	8.15	
F (Prob.)	0.00	0.34	0.11	0.28	0.00	0.00	0.50	0.74	0.61	0.02	0.08	0.07	0.16	

SI No PEDIGREE	Plant Stand ('000/ha)													
	DHOL	VARA	RANC	AMBI	ZN 3 Mean	HYDE	MAND	COIM	ZN 4 Mean	UDAI	GODH	CHHI	ZN 5 Mean	OV'L Mean
1 MH BABY CORN-09-9 CHECKS	33.1	62.5	73.3	65.3	58.5	62.8	58.0	65.3	62.0	62.2	66.0	55.3	61.1	58.8
2 HM-4	31.7	61.8	77.4	60.1	57.7	68.1	58.3	65.6	64.0	62.8	58.3	65.0	62.1	60.7
3 HQPM-1	34.4	68.4	67.4	47.6	54.4	62.8	56.0	64.2	61.0	64.9	34.0	50.3	49.7	53.9
4 HM 8	30.3	62.8	88.9	67.0	62.3	68.1	63.4	64.6	65.3	61.1	63.5	56.7	60.4	61.7
5 HM 9	27.8	69.1	83.0	68.8	62.2	60.3	65.5	65.3	63.7	66.3	39.6	61.9	55.9	60.0
Loc. Mean	31.4	64.9	78.0	61.7	59.0	64.4	60.2	65.0	63.2	63.5	52.3	57.8	57.9	59.0
C.D. (5%)	14.90	3.81	10.20	9.75	9.70	9.43	3.11	2.24	5.93	3.72	14.57	10.80	17.40	4.60
C.V. (%)	25.17	3.11	6.95	8.39	10.67	7.78	2.75	1.83	4.98	3.11	14.80	9.92	15.97	9.87
F (Prob.)	0.86	0.00	0.01	0.01	0.41	0.30	0.00	0.62	0.51	0.06	0.00	0.08	0.50	0.01

TABLE No. 22

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR6109 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE BIO-9681	GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1	GRAIN YIELD % SUPERIORITY OVER THE HQPM-7
		ZN 1 SRIN	R	ZN 1 SRIN	ZN 1 SRIN	ZN 1 SRIN	ZN 1 SRIN
1	KNMH-40901	3295	37	6.5	9.1	1.2	19
2	KNMH-40902	2991	50	-	-	-	8
3	KNMH-40903	3301	36	6.7	9.3	1.4	19.2
4	KNMH-40904	3906	9	26.3	29.3	19.9	41.1
5	CMH08-154	3665	17	18.5	21.3	12.5	32.4
6	CMH08-156	3743	13	21	23.9	14.9	35.2
7	CMH08-282	3542	21	14.5	17.2	8.8	27.9
8	HKH-406	3080	47	-	2	-	11.3
9	HKH-407	3207	42	3.7	6.1	-	15.8
10	JH-12108	2922	51	-	-	-	5.5
11	JH-12114	3091	46	-	2.3	-	11.6
12	IDX-2901	3944	8	27.5	30.5	21.1	42.4
13	BMH-107	3697	14	19.5	22.4	13.5	33.5
14	BMH-109	3664	18	18.5	21.3	12.5	32.3
15	VMH-2000	3352	33	8.4	11	2.9	21.1
16	JCY2-7xHKI163-1	3120	44	0.9	3.3	-	12.7
17	HKI1126xHKI163-1	2885	52	-	-	-	4.2
18	MCH-39	3140	43	1.5	3.9	-	13.4
19	MCH-40	3835	11	24	26.9	17.8	38.5
20	APSA-91	3551	20	14.8	17.5	9	28.2
21	GK-3060	4478	2	44.8	48.2	37.5	61.7
22	GK-3074	4319	5	39.7	43	32.6	56
23	GK-3076	4397	3	42.2	45.5	35	58.8
24	LAXMIGOLD	3670	16	18.7	21.5	12.7	32.5
25	LAXMI405	3330	34	7.7	10.2	2.2	20.3
26	LAXMI288	3380	30	9.3	11.9	3.8	22.1
27	BISCO-74	3462	26	11.9	14.6	6.3	25
28	BISCO-574	3365	32	8.8	11.4	3.3	21.5
29	PAC-799	4242	7	37.1	40.4	30.2	53.2
30	BIO-265	4615	1	49.2	52.7	41.7	66.7
31	NMH-731	3271	38	5.8	8.3	0.4	18.1
32	NMH-920	2859	53	-	-	-	3.2
33	NMH-958	3317	35	7.2	9.8	1.8	19.8
34	AMAR6669	3370	31	9	11.5	3.5	21.7

TABLE No. 22 (Cont..)

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE BIO-9681	GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1	GRAIN YIELD % SUPERIORITY OVER THE HQPM-7
		ZN 1 SRIN	R	ZN 1 SRIN	ZN 1 SRIN	ZN 1 SRIN	ZN 1 SRIN
35	OM7878	3078	48	-	1.9	-	11.2
36	JKMH-8033	3244	41	4.9	7.4	-	17.2
37	JKMH-7005	3599	19	16.4	19.1	10.5	30
38	PRO-377	3483	25	12.6	15.3	6.9	25.8
39	PRO-378	2725	55	-	-	-	-
40	NK-6246	3521	22	13.8	16.5	8.1	27.2
41	NK-6267	3515	24	13.6	16.3	7.9	26.9
42	NK-6607	3263	39	5.5	8	0.2	17.8
43	NK-6617	2703	56	-	-	-	-
44	KMH-3670	3419	29	10.6	13.2	5	23.5
45	KMH-548	3420	28	10.6	13.2	5	23.5
46	X7A303	3802	12	23	25.9	16.8	37.3
47	X8B562	3883	10	25.5	28.5	19.2	40.2
48	KH-404	3684	15	19.1	21.9	13.1	33
49	MAIZEPOLO	4394	4	42.1	45.4	34.9	58.7
50	C.-1950	4310	6	39.4	42.7	32.3	55.7
51	C.-1945	3457	27	11.8	14.4	6.2	24.9
52	KF-105	3517	23	13.7	16.4	8	27
CHECKS							
53	BIO-9681	3093	45	-	2.4	-	11.7
54	SEEDTEC-2324	3021	49	-	-	-	9.1
55	HQPM-1	3257	40	5.3	7.8	-	17.6
56	HQPM-7	2769	54	-	-	-	-
Location Mean		3485					
Mean Stand		39					
C.D. (5%)		249					
C.V. (%)		4.41					
F (Prob)		0					
Plot Size		4.8					
AGRONOMY DATA							
Sowing Date		13-04					
Harvest Date		19-10					
Irrigation Nos		2					
Fertilizer Applied N		90					
Fertilizer Applied P		60					
Fertilizer Applied K		40					

Table No. 22 (Continued)

SI No	PEDIGREE	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTURE % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	KNMH-40901	91.7	89.0	150.0	28.5	153.3	96.7	75.0	82.6
2	KNMH-40902	89.3	86.7	148.3	25.0	141.7	75.0	75.8	81.3
3	KNMH-40903	88.7	86.7	145.3	27.5	155.0	93.3	75.3	81.3
4	KNMH-40904	79.7	77.7	143.0	21.5	163.3	81.7	77.3	82.6
5	CMH08-154	82.0	79.7	147.0	24.5	136.7	71.7	78.3	81.3
6	CMH08-156	70.0	67.3	143.3	21.0	135.0	60.0	78.0	82.6
7	CMH08-282	74.3	72.3	141.3	20.0	145.0	80.0	78.0	81.3
8	HKH-406	81.3	79.3	145.0	27.0	140.0	73.3	77.5	79.2
9	HKH-407	81.7	79.0	145.0	28.0	153.3	73.3	77.5	82.6
10	JH-12108	82.0	79.3	145.7	28.0	141.7	76.7	77.5	80.6
11	JH-12114	82.0	79.3	145.3	25.5	140.0	71.7	76.3	79.9
12	IDX-2901	75.7	73.0	139.0	21.5	171.7	78.3	77.5	81.9
13	BMH-107	77.7	74.7	145.3	26.5	145.0	63.3	78.3	78.5
14	BMH-109	77.7	75.0	140.0	20.0	158.3	83.3	78.5	81.3
15	VMH-2000	80.0	77.3	141.0	20.5	150.0	76.7	77.0	80.6
16	JCY2-7xHKI163-1	82.0	79.7	146.0	27.5	143.3	73.3	76.8	80.6
17	HKI1126xHKI163-1	79.3	76.3	144.3	24.0	163.3	86.7	77.0	82.6
18	MCH-39	71.7	71.0	136.0	21.0	148.3	56.7	75.5	80.6
19	MCH-40	75.7	73.0	135.0	18.0	163.3	90.0	77.5	81.9
20	APSA-91	75.0	72.3	137.7	23.0	155.0	86.7	76.5	82.6
21	GK-3060	70.7	67.7	135.0	21.0	161.7	81.7	77.3	82.6
22	GK-3074	74.7	72.0	134.3	18.0	158.3	75.0	76.5	81.9
23	GK-3076	84.3	82.3	148.0	23.5	168.3	80.0	78.0	83.3
24	LAXMIGOLD	80.7	78.0	140.0	21.5	170.0	81.7	79.0	81.9
25	LAXMI405	76.3	73.3	136.0	25.5	171.7	70.0	78.8	81.9
26	LAXMI288	79.0	76.7	149.7	29.0	155.0	78.3	77.3	81.9
27	BISCO-74	82.0	79.7	149.7	28.5	146.7	76.7	77.0	80.6
28	BISCO-574	81.0	78.7	150.0	29.0	171.7	95.0	75.5	81.9
29	PAC-799	63.3	60.3	138.0	22.0	156.7	90.0	77.5	81.9
30	BIO-265	65.7	63.3	136.0	21.0	150.0	65.0	78.3	81.9

Table No. 22 (Continued)

SI	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% MOISTURE % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)	
No PEDIGREE	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	
31 NMH-731	69.3	67.0	146.3	29.5	150.0	80.0	78.5	82.6
32 NMH-920	70.7	68.0	151.7	32.5	133.3	65.0	77.3	79.2
33 NMH-958	65.3	63.3	151.0	27.5	133.3	63.3	78.0	80.6
34 AMAR6669	79.7	77.3	139.7	26.5	125.0	60.0	78.0	80.6
35 OM7878	91.3	89.3	147.0	25.5	123.3	66.7	78.0	78.5
36 JKMH-8033	90.0	87.3	140.3	22.5	128.3	68.3	78.3	80.6
37 JKMH-7005	82.7	82.7	140.0	25.0	126.7	66.7	78.5	81.9
38 PRO-377	74.7	72.0	141.3	25.0	125.0	65.0	79.0	81.9
39 PRO-378	68.7	65.7	147.3	29.0	125.0	66.7	75.3	82.6
40 NK-6246	69.7	67.3	136.0	21.5	133.3	53.3	77.5	81.9
41 NK-6267	73.3	71.3	146.3	26.5	155.0	66.7	78.5	79.9
42 NK-6607	92.7	89.7	144.7	24.5	131.7	76.7	79.0	81.3
43 NK-6617	90.0	87.3	148.0	28.0	113.3	68.3	75.0	83.3
44 KMH-3670	92.3	90.0	148.3	29.0	103.3	51.7	76.8	82.6
45 KMH-548	93.0	90.7	149.0	29.0	98.3	48.3	75.3	81.9
46 X7A303	82.7	80.0	146.0	27.5	121.7	70.0	76.5	81.3
47 X8B562	89.3	86.7	147.0	26.5	131.7	66.7	77.3	78.5
48 KH-404	81.7	79.3	146.0	24.0	153.3	75.0	77.0	79.9
49 MAIZEPOLO	62.3	60.0	139.0	21.5	135.0	68.3	77.5	81.3
50 C.-1950	69.0	66.3	145.0	22.5	165.0	73.3	77.5	82.6
51 C.-1945	70.7	68.3	145.7	24.0	165.0	95.0	78.5	81.3
52 KF-105	75.3	72.3	147.7	24.5	156.7	68.3	75.5	80.6
CHECKS								
53 BIO-9681	80.0	78.0	150.3	23.5	155.0	75.0	76.3	81.9
54 SEEDTEC-2324	84.3	81.7	151.0	26.5	168.3	80.0	75.0	79.9
55 HQPM-1	80.3	77.7	147.0	24.5	163.3	78.3	76.0	81.3
56 HQPM-7	85.0	82.0	150.3	29.5	161.7	76.7	77.0	81.9
Loc. Mean	78.9	76.5	144.1	24.9	146.3	73.8	77.2	81.3
C.D. (5%)	7.95	7.90	1.14	2.09	10.48	7.38	0.55	2.36
C.V. (%)	6.23	6.39	0.49	5.20	4.42	6.18	0.44	1.79
F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 23

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR, IN TRIAL No. TR6309 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE PARKASH	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTURE % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
		SRIN	R	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	EHL-162408	5717	5	21.5	75.3	72.7	125.3	14.0	123.3	60.0	86.8	82.6
2	EHL-162508	5820	3	23.7	76.0	73.3	126.7	14.5	113.3	63.3	85.0	80.6
3	FH-3506	5114	9	8.7	76.7	73.7	123.0	17.5	116.7	61.7	85.8	79.9
4	EH-2005	5456	7	16	91.3	88.7	123.0	19.5	143.3	80.0	88.3	80.6
5	EH-1992	5960	2	26.7	77.7	74.7	122.0	21.5	151.7	76.7	87.8	82.6
6	EH-1971	4423	15	-	82.3	79.7	124.0	21.5	173.3	91.7	89.5	79.9
7	KDM-399	4752	11	1	75.3	73.0	121.7	16.0	121.7	58.3	86.5	78.5
8	REH-2001	4492	14	-	85.3	83.3	124.7	17.0	140.0	56.7	85.5	79.9
9	REH-2002	5389	8	14.6	83.7	81.0	125.3	20.5	143.3	71.7	84.8	81.3
10	REH-2003	5758	4	22.4	81.7	79.0	122.3	16.5	156.7	78.3	88.0	80.6
11	JH-31236	6279	1	33.5	83.0	80.3	122.0	22.5	161.7	80.0	89.0	80.6
12	JH-31308	5651	6	20.2	75.7	73.0	122.7	22.5	153.3	78.3	85.5	81.3
13	AH-97002	4746	12	0.9	79.3	76.7	122.0	17.5	163.3	85.0	86.8	75.7
14	AH-97017	4411	16	-	76.7	74.0	121.3	15.0	171.7	98.3	90.0	75.7
15	AH-97018	5014	10	6.6	76.7	73.7	121.7	15.5	136.7	66.7	89.3	81.9
16	BIO-605	3472	18	-	80.7	78.7	121.7	26.0	150.0	60.0	77.3	79.9
17	KH-9560	4047	17	-	72.3	70.3	118.3	16.0	123.3	55.0	78.3	80.6
CHECKS												
18	PARKASH	4703	13	-	79.0	76.0	118.3	15.0	140.0	71.7	89.3	80.6
	Location Mean	5067			79.4	76.8	122.6	18.3	143.5	71.9	86.3	80.1
	Mean Stand	38										
	C.D. (5%)	884			1.54	1.32	1.65	0.95	21.65	8.94	0.71	4.76
	C.V. (%)	10.51			1.17	1.04	0.81	3.15	9.09	7.50	0.49	3.58
	F (Prob)	0			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23
	Plot Size	4.8										
AGRONOMY DATA												
	Sowing Date	10-04										
	Harvest Date	25-09										
	Irrigation Nos	2										
	Fertilizer Applied N	90										
	Fertilizer Applied P	60										
	Fertilizer Applied K	40										

TABLE No. 24

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR6409 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD %SUPERIORITY OVER THE VIVEK QPM-9	GRAIN YIELD %SUPERIORITY OVER THE VIVEK HYBRID-9	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTURE % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
		ZN 1 SRIN	R	ZN 1 SRIN	ZN 1 SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH-3478	3894	10	-	-	73.0	70.0	122.3	19.0	98.3	55.0	84.8	81.9
2	FH-3487	4614	6	18.1	-	73.7	70.7	128.7	17.0	100.0	51.7	79.5	82.6
3	FH-3488	3493	11	-	-	72.3	69.3	130.7	21.5	106.7	50.0	77.8	82.6
4	FH-3483	4134	8	5.8	-	81.0	78.0	132.0	16.5	105.0	55.0	79.5	81.3
5	FQH-76	5707	3	46.1	-	78.7	76.3	121.7	16.0	115.0	71.7	89.0	81.9
6	DH-177	5800	2	48.5	-	81.7	79.0	127.0	14.5	131.7	70.0	87.0	81.9
7	DH-179	4533	7	16	-	81.0	78.0	127.3	16.0	145.0	68.3	88.5	79.9
8	AH-97020	5314	4	36	-	85.3	83.0	125.3	23.5	175.0	85.0	79.0	83.3
9	AH-97024	4979	5	27.4	-	86.7	84.3	125.0	26.0	173.3	70.0	77.0	81.9
CHECKS													
10	VIVEK QPM-9	3907	9	-	-	69.0	66.3	120.7	16.5	121.7	75.0	78.5	81.9
11	VIVEK HYBRID-9	5949	1	52.3	-	67.7	65.7	122.3	14.5	138.3	83.3	86.5	81.9
	Location Mean	4757				77.3	74.6	125.7	18.3	128.2	66.8	82.5	81.9
	Mean Stand	39											
	C.D. (5%)	730				1.31	1.38	1.11	1.08	17.21	25.40	0.67	3.17
	C.V. (%)	8.99				0.99	1.09	0.52	3.48	7.88	22.32	0.48	2.27
	F (Prob)	0				0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.74
	Plot Size	4.8											
AGRONOMY DATA													
	Sowing Date	10-04											
	Harvest Date	23-09											
	Irrigation Nos	2											
	Fertilizer Applied N	90											
	Fertilizer Applied P	60											
	Fertilizer Applied K	40											

TABLE No.25

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR6609 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD %SUPERIORITY OVER THE NAVJOT	GRAIN YIELD %SUPERIORITY OVER THE HM-9	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTUREPLANT % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
		SRIN	R	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	JH-31240	4717	3	42.3	46.7	89.7	87.3	138.7	16.0	163.3	71.0	77.8	83.0
2	JH-31242	4543	4	37	41.3	87.7	85.0	131.0	16.5	163.3	66.7	78.0	81.6
3	BH-406126	3161	14	-	-	81.0	78.0	127.0	13.0	125.0	65.0	79.0	80.9
4	BH-408005	4890	2	47.5	52.1	83.7	81.3	133.3	14.5	165.0	86.7	79.0	81.3
5	KLM-7	3725	8	12.3	15.9	74.0	71.7	131.3	12.0	110.0	70.0	78.0	81.9
6	EC-3160	3771	7	13.7	17.3	78.3	75.3	133.0	17.0	173.3	80.0	75.3	81.6
7	KH-717	3524	9	6.3	9.6	82.7	80.0	137.0	16.5	176.7	66.7	77.3	80.2
8	KH-9452	4265	5	28.6	32.7	85.3	83.0	139.0	17.0	161.7	85.0	77.8	83.0
9	HYBRID VMH-4060	3495	10	5.4	8.7	81.0	78.0	145.7	16.5	153.3	70.0	75.3	82.3
10	KMH-3712	5122	1	54.5	59.4	84.7	81.7	141.0	16.0	156.7	83.3	78.0	83.3
11	BL-2802	3843	6	15.9	19.6	84.7	81.7	143.0	17.0	206.7	93.3	78.0	81.9
12	MCH-37	3493	11	5.3	8.7	83.0	80.0	151.0	17.5	180.0	63.3	79.3	81.9
CHECKS													
13	NAVJOT	3316	12	-	3.1	80.3	77.3	131.0	12.5	150.0	61.7	76.5	80.9
14	HM-9	3214	13	-	-	81.7	79.0	133.0	15.0	165.0	63.3	77.3	81.6
	Location Mean	3934				82.7	80.0	136.8	15.5	160.7	73.3	77.6	81.8
	Mean Stand	79											
	C.D. (5%)	306				2.01	2.00	2.05	0.80	23.42	5.09	0.38	1.46
	C.V. (%)	4.62				1.45	1.49	0.89	3.06	8.68	4.14	0.30	1.06
	F (Prob)	0				0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01
	Plot Size	9.6											
AGRONOMY DATA													
	Sowing Date	13-04											
	Harvest Date	3-10											
	Irrigation Nos	2											
	Fertilizer Applied	90											
	Fertilizer Applied	60											
	Fertilizer Applied	40											

TABLE No. 26

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR6709 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD %		GRAIN YIELD %		DAYS TO 50% SILKING
		AT 15% MOISTURE		SUPERIORITY OVER THE PARKASH		SUPERIORITY OVER THE PRATAP MAKKA-4		
		SRIN	R	SRIN		SRIN		SRIN
1	COMP.R-2006-1	4675	4	-		15.9		82.8
2	UMC-10	4385	5	-		8.8		78.8
3	KML-9	4332	6	-		7.4		81.3
4	KML-15	5297	1	12.6		31.4		76.8
	CHECKS							
5	PARKASH	4706	3	-		16.7		78.5
6	PRATAP MAKKA-4	4032	7	-		-		77.8
7	PRATAP MAKKA-5	5043	2	7.2		25.1		78.8
	Location Mean	4638						
	Mean Stand	78						79.2
	C.D. (5%)	187						1.42
	C.V. (%)	2.7						1.21
	F (Prob)	0						0.00
	Plot Size	9.6						
	AGRONOMY DATA							
	Sowing Date	10-04						
	Harvest Date	24-09						
	Irrigation Nos	2						
	Fertilizer Applied	90						
	Fertilizer Applied	60						
	Fertilizer Applied	40						
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTURE % AT HARVEST	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
1	COMP.R-2006-1	80.5	125.8	28.5	193.8	100.0	77.5	82.6
2	UMC-10	76.8	124.0	15.5	182.5	87.5	80.5	81.5
3	KML-9	78.8	122.5	22.5	166.3	98.8	78.5	81.5
4	KML-15	74.5	121.0	15.5	156.3	77.5	86.5	80.7
	CHECKS							
5	PARKASH	76.0	123.5	18.0	176.3	103.8	88.3	82.0
6	PRATAP MAKKA-4	75.5	122.3	19.5	155.0	73.8	78.3	81.5
7	PRATAP MAKKA-5	76.5	121.8	16.5	165.0	98.8	77.5	82.3
	Loc. Mean	76.9	123.0	19.4	170.7	91.4	81.0	81.7
	C.D. (5%)	1.15	1.00	1.89	6.75	6.84	0.15	2.16
	C.V. (%)	1.01	0.55	6.53	2.66	5.04	0.12	1.78
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.65

TABLE No.27

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID & COMPOSITES OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR7009 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE HM-8		GRAIN YIELD % SUPERIORITY OVER THE HM-9		GRAIN YIELD % SUPERIORITY OVER THE HM-10	
		ZN 1 SRIN	R	ZN 1 SRIN		ZN 1 SRIN		ZN 1 SRIN	
1	BH-4062(RETEST) CHECKS	3836	3	23		-		-	
2	HM-8	3120	4	-		-		-	
3	HM-9	4307	2	38		-		-	
4	HM-10	4856	1	55.6		12.8		-	
	Location Mean	4030							
	Mean Stand	118							
	C.D. (5%)	678							
	C.V. (%)	13.58							
	F (Prob)	0							
	Plot Size	14.4							
	AGRONOMY DATA								
	Sowing Date	13-04							
	Harvest Date	4-10							
	Irrigation Nos	2							
	Fertilizer Applied N	90							
	Fertilizer Applied P	60							
	Fertilizer Applied K	40							
Sl No	PEDIGREE	DAYS TO	DAYS TO	DAYS TO	MOISTURE %	PLANT	EAR	GRAIN	STAND AT
		50% SILKING	50% POLLEN SHED	75% DRY HUSK	AT HARVEST	HEIGHT(cm)	HEIGHT(cm)	SHELLING %	HARVEST ('000/ha)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	BH-4062(RETEST) CHECKS	90.8	88.3	143.3	27.3	196.7	84.2	75.3	82.1
2	HM-8	86.8	84.2	140.5	23.8	148.3	75.0	77.4	81.9
3	HM-9	72.8	69.8	131.3	15.8	155.0	70.0	78.1	81.9
4	HM-10	77.2	74.5	126.2	17.3	170.0	61.7	78.3	81.8
	Loc. Mean	81.9	79.2	135.3	21.0	167.5	72.7	77.3	81.9
	C.D. (5%)	1.08	1.14	2.34	0.55	6.77	8.55	0.22	0.74
	C.V. (%)	1.07	1.17	1.40	2.13	3.29	9.55	0.24	0.73
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.93

TABLE No. 28

PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2009 KHARIF EXPERIMENT AND PLANTED IN 2010 KHARIF AT SRINAGAR IN TRIAL No. TR7209 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-21		GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-17		GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9		GRAIN YIELD % SUPERIORITY OVER THE VIVEK HYBRID-9	
		SRIN	R	SRIN	ZN 1	SRIN	ZN 1	SRIN	ZN 1	SRIN	ZN 1
1	FH-3356(RETEST)	5546	1	41.8		63.7		68.5		147.8	
2	FQH-38 CHECKS	4539	2	16		34		37.9		102.8	
3	VIVEK HYBRID-21	3912	3	-		15.5		18.9		74.8	
4	VIVEK HYBRID-17	3388	4	-		-		2.9		51.4	
5	VIVEK QPM-9	3291	5	-		-		-		47	
6	VIVEK HYBRID-9	2238	6	-		-		-		-	
	Location Mean	3819									
	Mean Stand	116									
	C.D. (5%)	446									
	C.V. (%)	7.7									
	F (Prob)	0									
	Plot Size	14.4									
	AGRONOMY DATA										
	Sowing Date	10-04									
	Harvest Date	16-09									
	Irrigation Nos	2									
	Fertilizer Applied N	90									
	Fertilizer Applied P	60									
	Fertilizer Applied K	40									

Sl No	PEDIGREE	DAYS TO 50% SILKING	DAYS TO 50% POLLEN SHED	DAYS TO 75% DRY HUSK	MOISTURE % AT HARVEST	PLANT HEIGHT(cm)	EAR HEIGHT(cm)	GRAIN SHELLING %	STAND AT HARVEST ('000/ha)
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1	FH-3356(RETEST)	72.5	70.3	125.0	15.0	143.8	69.5	80.0	81.1
2	FQH-38 CHECKS	78.5	75.8	122.8	16.5	122.5	85.0	81.8	80.7
3	VIVEK HYBRID-21	80.0	77.0	126.3	17.5	125.0	72.5	79.3	82.3
4	VIVEK HYBRID-17	71.3	69.0	121.0	17.5	116.3	85.0	81.8	81.6
5	VIVEK QPM-9	71.0	68.5	120.3	15.5	113.8	71.3	78.5	80.2
6	VIVEK HYBRID-9	72.5	69.8	122.0	15.5	103.8	48.8	78.5	79.0
	Loc. Mean	74.3	71.7	122.9	16.3	120.8	72.0	80.0	80.8
	C.D. (5%)	1.38	1.09	1.59	0.93	7.54	5.49	0.42	2.26
	C.V. (%)	1.23	1.01	0.86	3.81	4.14	5.06	0.35	1.85
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09

TABLE No.29

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA, BARAPANI, KANGRA, IN ZONAL TRIAL No. TR102 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE Bio 9637						
		ALMO	R	BAJA	R	BARA	R	KANG	R	ZN 1 MEAN	R	ALMO	BAJA	BARA	KANG	ZN 1 MEAN
1	EHL 1649 10	8928	1	11651	3	2119	18	5922	8	7155	4	21	2	-	-	-
2	EHL 1650 10	7446	3	11834	2	3309	12	4741	14	6832	5	1	3	-	-	-
3	RCM 76	6974	10	8040	17	2635	16	4579	16	5557	14	-	-	-	-	-
4	P 51	6361	13	8049	16	1933	19	5217	11	5390	16	-	-	-	-	-
5	EHL 162609	6812	12	9232	11	5405	3	5019	13	6617	8	-	-	-	-	-
6	EHL 1651 10	5959	16	8371	13	3914	7	3900	18	5536	15	-	-	-	-	-
7	EHL 1652 10	7250	8	12569	1	5787	1	8551	2	8539	1	-	10	1	14	6
8	P 54	4875	19	7616	19	3604	10	4534	17	5157	18	-	-	-	-	-
9	EHL 1653 10	7271	7	10956	5	5064	4	9162	1	8113	2	-	-	-	22	1
10	EHL 1654 10	5684	17	9035	12	3801	9	6163	7	6171	11	-	-	-	-	-
11	P 52	6084	15	9826	9	4277	6	6637	5	6706	6	-	-	-	-	-
12	EHL 1655 10	7209	9	10183	6	3379	11	5443	10	6553	9	-	-	-	-	-
13	EHL 1656 10	6953	11	8116	15	4564	5	5552	9	6296	10	-	-	-	-	-
14	EHL 165710	7400	5	9381	10	2282	17	7653	3	6679	7	0	-	-	2	-
15	P 53	5085	18	7101	20	2659	15	6411	6	5314	17	-	-	-	-	-
16	EHL 1658 10	1489	20	9998	8	3874	8	5103	12	5116	19	-	-	-	-	-
17	EHL 1659 10	6111	14	7656	18	2917	13	3760	19	5111	20	-	-	-	-	-
18	Local check* CHECKS	8413	2	10010	7	1709	20	3755	20	5972	12	14	-	-	-	-
19	Bio 9637	7389	6	11459	4	5750	2	7510	4	8027	3	-	-	-	-	-
20	Navjot Location Mean	7419	4	8209	14	2835	14	4628	15	5773	13	0	-	-	-	-
	Mean Stand	6556		9465		3591		5712		6331						
	C.D. (5%)	23		25		29		33		27						
	C.V. (%)	1253		1348		872		1244		1179						
	C.V. (%)	11.56		8.61		14.67		13.17		-						
	F (Prob)	0		0		0		0		-						
	Plot Size	3.6		4.2		4.8		4.8		-						
	AGRONOMY DATA															
	Sowing Date	3-07		11-06		7-06		11-06		-						
	Harvest Date	27-10		1-10		28-10		20-09		-						
	Irrigation Nos	-		2		-		-		-						
	Fertilizer Applied N	100		120		80		120		-						
	Fertilizer Applied P	60		60		60		60		-						
	Fertilizer Applied K	40		40		40		40		-						

TABLE No.29 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Navjot						DAYS TO 50% SILKING				DAYS TO 50% POLLEN SHED					
		ALMO	BAJA	BARA	KANG	ZN 1 MEAN	OV'L MEAN	ALMO	BAJA	BARA	KANG	ZN 1 Mean	ALMO	BAJA	BARA	KANG	ZN 1 Mean
1	EHL 1649 10	20	42	-	28	24	24	57.3	63.3	60.0	63.0	60.9	55.3	61.0	58.0	59.0	58.3
2	EHL 1650 10	0	44	17	2	18	18	58.0	63.7	60.0	61.0	60.7	55.7	60.7	57.0	58.7	58.0
3	RCM 76	-	-	-	-	-	-	58.0	66.3	61.0	57.3	60.7	56.7	63.0	60.0	53.3	58.3
4	P 51	-	-	-	13	-	-	53.3	60.7	60.0	57.7	57.9	52.0	58.3	60.0	53.3	55.9
5	EHL 162609	-	12	91	8	15	15	53.3	59.7	54.0	57.0	56.0	51.7	57.7	53.0	53.7	54.0
6	EHL 1651 10	-	2	38	-	-	-	55.0	61.7	54.0	57.7	57.1	53.3	59.3	53.0	53.3	54.8
7	EHL 1652 10	-	53	104	85	48	48	58.0	63.7	55.0	58.0	58.7	55.3	60.7	54.0	53.7	55.9
8	P 54	-	-	27	-	-	-	56.3	62.7	55.0	63.0	59.3	53.7	60.3	54.0	57.7	56.4
9	EHL 1653 10	-	33	79	98	41	41	57.7	64.7	56.0	59.0	59.3	56.3	62.3	56.0	55.3	57.5
10	EHL 1654 10	-	10	34	33	7	7	54.0	60.0	54.0	57.3	56.3	53.3	57.7	52.0	54.0	54.3
11	P 52	-	20	51	43	16	16	63.0	70.3	54.0	70.7	64.5	63.7	66.0	52.0	66.7	62.1
12	EHL 1655 10	-	24	19	18	14	14	55.7	62.0	55.0	60.3	58.3	54.0	59.0	54.0	56.3	55.8
13	EHL 1656 10	-	-	61	20	9	9	56.3	65.3	56.0	57.7	58.8	54.7	62.0	55.0	53.7	56.3
14	EHL 165710	-	14	-	65	16	16	54.7	62.0	56.0	58.0	57.7	53.7	59.7	54.0	54.0	55.3
15	P 53	-	-	-	39	-	-	54.7	60.7	55.0	62.7	58.3	53.0	58.3	54.0	58.7	56.0
16	EHL 1658 10	-	22	37	10	-	-	-	62.7	58.0	61.3	60.7	53.7	59.7	57.0	57.3	56.9
17	EHL 1659 10	-	-	3	-	-	-	57.0	64.0	58.0	62.7	60.4	54.7	61.0	57.0	58.7	57.8
18	Local check*	13	22	-	-	3	3	54.7	66.0	59.0	63.3	60.8	53.3	62.7	57.0	59.3	58.1
CHECKS																	
19	Bio 9637	-	40	103	62	39	39	56.7	63.3	55.0	60.7	58.9	54.7	61.0	55.0	57.3	57.0
20	Navjot	-	-	-	-	-	-	56.7	60.7	55.0	57.7	57.5	53.3	58.7	54.0	53.3	54.8
	Loc. Mean							53.5	63.2	56.5	60.3	59.1	54.6	60.5	55.3	56.4	56.7
	C.D. (5%)							1.24	2.03	-	1.46	3.01	1.17	1.70	-	1.57	3.02
	C.V. (%)							1.40	1.94	-	1.46	3.60	1.29	1.70	-	1.69	3.76
	F (Prob.)							0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No.29 (Cont..)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK				ZN 1 Mean	MOISTURE % AT HARVEST				ZN 1 Mean	PLANT HEIGHT (cm)				ZN 1 Mean
		ALMO	BAJA	BARA	KANG		ALMO	BAJA	BARA	KANG		ALMO	BAJA	BARA	KANG	
1	EHL 1649 10	101.7	100.0	101.0	98.0	100.2	33.3	19.2	21.0	30.1	25.9	250.0	233.3	162.4	255.7	225.4
2	EHL 1650 10	101.3	100.3	101.0	96.3	99.7	33.8	23.2	22.0	31.6	27.6	238.3	223.0	155.0	249.0	216.3
3	RCM 76	102.0	100.0	102.0	97.7	100.4	35.6	23.3	24.0	26.3	27.3	255.0	228.3	163.0	257.0	225.8
4	P 51	96.3	95.3	102.0	97.3	97.8	31.2	26.8	20.0	32.0	27.5	236.7	206.0	159.7	247.0	212.4
5	EHL 162609	93.7	92.7	102.0	96.0	96.1	27.9	23.2	20.0	28.6	24.9	240.0	226.0	151.4	248.3	216.4
6	EHL 1651 10	95.0	92.0	102.0	95.3	96.1	31.7	24.4	22.0	26.7	26.2	210.0	213.3	150.0	235.0	202.1
7	EHL 1652 10	102.3	95.0	103.0	96.0	99.1	33.5	23.6	24.0	30.4	27.9	226.7	225.0	162.6	241.7	214.0
8	P 54	101.3	95.7	101.0	98.3	99.1	32.4	25.4	24.0	30.8	28.2	225.0	220.0	167.5	226.3	209.7
9	EHL 1653 10	101.7	98.3	101.0	98.0	99.8	34.9	24.3	24.0	32.0	28.8	220.0	220.7	167.4	249.7	214.4
10	EHL 1654 10	95.3	96.3	100.0	96.0	96.9	34.5	27.8	24.7	31.4	29.6	200.0	193.7	138.0	225.7	189.3
11	P 52	102.7	100.7	101.0	107.7	103.0	35.2	28.8	23.3	30.8	29.5	216.7	205.3	127.0	243.7	198.2
12	EHL 1655 10	99.3	94.0	102.0	96.3	97.9	32.7	24.0	23.0	32.0	27.9	230.0	212.7	126.6	250.7	205.0
13	EHL 1656 10	100.7	97.0	103.0	96.3	99.3	33.3	29.0	25.0	31.0	29.6	226.7	214.7	136.6	245.0	205.7
14	EHL 165710	95.3	94.3	102.0	95.7	96.8	29.8	23.2	25.0	26.7	26.2	210.0	208.3	133.5	238.3	197.5
15	P 53	99.7	98.3	102.0	97.7	99.4	30.2	23.8	25.3	29.7	27.2	206.7	201.7	136.8	233.3	194.6
16	EHL 1658 10	-	100.0	102.0	97.7	99.9	34.3	25.3	22.0	29.0	27.7	215.0	206.0	121.0	235.7	194.4
17	EHL 1659 10	100.0	97.0	100.0	97.3	98.6	31.3	27.1	22.0	31.2	27.9	218.3	210.7	133.7	247.3	202.5
18	Local check* CHECKS	94.3	98.0	100.0	96.7	97.3	27.7	24.7	25.3	33.0	27.7	215.0	238.3	145.0	261.7	215.0
19	Bio 9637	100.7	98.7	103.0	96.0	99.6	33.8	26.1	26.0	30.3	29.0	250.0	236.3	198.4	252.7	234.4
20	Navjot	98.7	95.3	101.0	97.3	98.1	31.5	25.1	24.7	32.8	28.5	236.7	223.3	132.1	252.7	211.2
	Loc. Mean	94.1	97.0	101.6	97.4	98.7	32.4	24.9	23.4	30.3	27.8	226.3	217.3	148.4	244.8	209.2
	C.D. (5%)	2.16	2.68	0.00	2.12	2.82	1.75	2.52	0.82	5.85	2.71	9.18	18.23	8.24	17.79	14.13
	C.V. (%)	1.39	1.67	0.00	1.32	2.02	3.26	6.12	2.12	11.67	6.91	2.45	5.07	3.36	4.40	4.77
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.06	0.00	0.00	0.00	0.01	0.00

TABLE No.29 (Cont..)

Sl No	PEDIGREE	EAR HEIGHT(cm)				ZN 1 Mean	GRAIN SHELLING %				ZN 1 Mean	STAND AT HARVEST ('000/ha)				ZN 1 Mean
		ALMO	BAJA	BARA	KANG		ALMO	BAJA	BARA	KANG		ALMO	BAJA	BARA	KANG	
1	EHL 1649 10	150.0	151.7	84.1	131.7	129.4	83.6	80.7	73.9	80.5	79.7	64.8	62.7	55.6	75.0	64.5
2	EHL 1650 10	121.7	135.0	64.0	124.7	111.3	82.8	85.1	75.2	81.5	81.1	63.0	50.0	50.7	70.8	58.6
3	RCM 76	125.0	130.0	70.8	129.7	113.9	84.4	83.7	74.3	73.5	79.0	58.3	46.8	36.8	59.0	50.2
4	P 51	118.3	98.3	64.2	109.7	97.6	82.8	85.1	75.0	80.5	80.8	63.0	61.9	50.7	75.7	62.8
5	EHL 162609	115.0	105.0	49.4	98.3	91.9	85.4	81.3	83.4	81.5	82.9	63.0	61.9	63.9	63.9	63.2
6	EHL 1651 10	96.7	111.0	56.9	88.7	88.3	82.9	79.2	81.4	77.5	80.2	63.0	52.4	63.2	61.8	60.1
7	EHL 1652 10	120.0	123.3	82.8	119.0	111.3	86.3	85.4	84.4	83.0	84.7	64.8	69.0	64.6	68.1	66.6
8	P 54	115.0	131.7	76.1	99.0	105.5	82.1	81.9	77.0	81.0	80.5	64.8	61.9	70.1	74.3	67.8
9	EHL 1653 10	115.0	131.0	83.2	122.3	112.9	84.8	86.5	77.6	79.0	82.0	64.8	61.1	62.5	70.1	64.6
10	EHL 1654 10	86.7	103.3	57.9	82.0	82.5	86.8	85.5	75.4	82.5	82.5	63.9	63.5	68.1	74.3	67.4
11	P 52	115.0	118.3	65.2	124.3	105.7	84.8	84.9	74.6	72.5	79.2	63.9	62.7	66.7	70.8	66.0
12	EHL 1655 10	110.0	113.3	58.3	118.0	99.9	86.9	85.6	83.6	78.0	83.5	61.1	58.7	59.7	67.4	61.7
13	EHL 1656 10	123.3	137.7	74.8	120.7	114.1	85.2	82.9	78.0	79.0	81.3	65.7	61.1	66.0	72.2	66.3
14	EHL 165710	105.0	122.3	57.4	108.3	98.3	86.3	80.6	75.4	84.0	81.6	64.8	57.1	60.4	76.4	64.7
15	P 53	95.0	95.0	49.6	101.7	85.3	81.9	80.6	75.7	82.0	80.0	58.3	65.9	55.6	65.3	61.3
16	EHL 1658 10	113.3	118.3	60.3	109.0	100.2	-	85.7	81.4	78.0	81.7	59.3	71.4	63.9	58.3	63.2
17	EHL 1659 10	103.3	115.7	55.4	103.3	94.4	86.1	82.5	85.9	76.5	82.8	63.9	62.7	66.7	66.0	64.8
18	Local check* CHECKS	96.7	135.0	59.9	119.0	102.6	85.3	85.2	77.0	76.5	81.0	57.4	58.7	41.0	61.1	54.6
19	Bio 9637	120.0	128.3	85.3	111.0	111.2	86.9	80.0	80.7	87.0	83.6	60.2	62.7	64.6	61.1	62.1
20	Navjot	115.0	116.7	60.1	112.7	101.1	85.3	81.5	81.7	79.5	82.0	62.0	60.3	66.7	68.1	64.3
	Loc. Mean	113.0	121.1	65.8	111.7	102.9	84.8	83.2	78.6	79.7	81.5	62.5	60.6	59.9	68.0	62.7
	C.D. (5%)	6.79	24.74	6.67	17.65	11.08	0.99	-	4.71	4.88	4.15	5.05	6.07	8.28	14.49	7.30
	C.V. (%)	3.63	12.36	6.13	9.56	7.61	0.74	-	3.62	3.71	3.60	4.89	6.06	8.37	12.90	8.21
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.37	0.03	0.00	0.00	0.24	0.00

TABLE No.30

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS COMPOSITES AT ALMORA, BAJAURA, BARAPANI, KANGRA, UDHAMPUR
IN ZONAL TRIAL No. TR103 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1	
		ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R
1	PS 83	3453	32	6183	32	3801	32	4479	23	3093	11	4132	32
2	PS 98	6291	31	8195	27	4846	27	4234	26	3449	2	5695	27
3	KDM 322	6505	29	8100	28	4692	29	5391	14	2716	23	5503	28
4	KHM 343A X KDM3401	6499	30	8237	26	4148	31	3735	29	2401	30	5321	31
5	FH 3535	8640	18	9152	21	6104	21	5035	19	2922	18	6705	21
6	FH 3536	9167	15	10410	7	6737	15	5213	16	2526	26	7210	14
7	FH 3539	8382	22	9464	17	8478	6	3113	32	2370	32	7174	15
8	FH 3543	8428	21	9249	19	6121	19	4227	27	2741	21	6635	22
9	FH 3545	9029	17	8538	25	9055	2	5601	11	2982	16	7401	11
10	FH 3548	11387	2	11717	4	8517	5	6600	6	2968	17	8647	2
11	FH 3549	11416	1	13262	1	9162	1	7388	1	2430	29	9068	1
12	FH 3550	11283	3	12190	2	7975	7	5370	15	2568	25	8504	3
13	EHL 164010	9554	11	10356	8	6109	20	5162	17	3242	5	7315	13
14	EHL 164110	7926	25	10204	10	6771	14	7095	2	2511	28	6853	19
15	FH 3552	9653	9	9710	15	4930	26	5099	18	2686	24	6745	20
16	FH 3554	10087	5	9777	14	8719	4	6645	5	2821	19	7851	6
17	FH 3555	10614	4	11125	5	5005	25	4886	20	3144	7	7472	9
18	FH 3556	9920	8	10331	9	8822	3	6859	3	3065	12	8034	5

TABLE No.30 (Cont..)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1	
Sl No	PEDIGREE	ALMO	R	BAJA	R	BARA	R	KANG	R	UDHA	R	MEAN	R
19	FH 3557	9492	12	10033	12	6964	13	5471	13	3378	3	7467	10
20	FH 3558	9931	7	9342	18	7676	10	6454	8	3096	10	7511	8
21	FH 3563	9594	10	10810	6	7357	12	6654	4	3118	8	7720	7
22	EHL 164410	8587	19	7854	29	6534	16	4147	28	3024	14	6500	26
23	EHL 164510	7469	26	9796	13	6316	17	5564	12	2763	20	6586	23
24	EHL 164610	9208	14	9551	16	7403	11	4684	21	3149	6	7328	12
25	EHL 164710	8248	24	8826	24	6154	18	3445	31	3010	15	6560	24
26	FH 3566	8287	23	9246	20	7905	8	6511	7	3043	13	7120	16
27	FH 3570	6966	27	7502	31	4247	30	4452	25	2728	22	5361	30
28	EHL 164310	10071	6	12189	3	7865	9	4469	24	3297	4	8356	4
29	EHL 164210	9284	13	9144	22	5736	24	5764	9	3485	1	6912	18
CHECKS													
30	Vivek Hybrid 9	9139	16	10069	11	5938	23	5602	10	3115	9	7065	17
31	Vivek Hybrid 33	8507	20	9074	23	5947	22	4518	22	2520	27	6512	25
32	Vivek Sankul 35	6933	28	7746	30	4744	28	3502	30	2374	31	5450	29
	Location Mean	8748		9606		6587		5230		2898		6960	
	Mean Stand	30		27		27		30		23		27	
	C.D. (5%)	1310		1059		549		1997		532		863	
	C.V. (%)	9.17		6.76		5.1		23.38		11.24		-	
	F (Prob)	0		0		0		0.004		0.029		-	
	Plot Size	4.8		4.2		4.8		4.8		4.8		-	
AGRONOMY DATA													
	Sowing Date	29-06		11-06		6-08		8-06		28-06		-	
	Harvest Date	20-10		4-10		13-09		25-09		30-09		-	
	Irrigation Nos	-		3		-		-		-		-	
	Fertilizer Applied N	80		120		80		120		80		-	
	Fertilizer Applied P	60		60		60		60		60		-	
	Fertilizer Applied K	40		40		40		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : KANG 23.4 %

TABLE No.30 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9					ZN 1 MEAN	GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 33					ZN 1 MEAN
		ALMO	BAJA	BARA	KANG	UDHA		ALMO	BAJA	BARA	KANG	UDHA	
1	PS 83	-	-	-	-	-	-	-	-	-	-	23	-
2	PS 98	-	-	-	-	11	-	-	-	-	-	37	-
3	KDM 322	-	-	-	-	-	-	-	-	-	19	8	-
4	KHM 343A X KDM3401	-	-	-	-	-	-	-	-	-	-	-	-
5	FH 3535	-	-	3	-	-	-	2	1	3	11	16	3
6	FH 3536	0	3	13	-	-	2	8	15	13	15	0	11
7	FH 3539	-	-	43	-	-	2	-	4	43	-	-	10
8	FH 3543	-	-	3	-	-	-	-	2	3	-	9	2
9	FH 3545	-	-	52	-	-	5	6	-	52	24	18	14
10	FH 3548	25	16	43	18	-	22	34	29	43	46	18	33
11	FH 3549	25	32	54	32	-	28	34	46	54	64	-	39
12	FH 3550	23	21	34	-	-	20	33	34	34	19	2	31
13	EHL 164010	5	3	3	-	4	4	12	14	3	14	29	12
14	EHL 164110	-	1	14	27	-	-	-	12	14	57	-	5
15	FH 3552	6	-	-	-	-	-	13	7	-	13	7	4
16	FH 3554	10	-	47	19	-	11	19	8	47	47	12	21
17	FH 3555	16	10	-	-	1	6	25	23	-	8	25	15
18	FH 3556	9	3	49	22	-	14	17	14	48	52	22	23
19	FH 3557	4	-	17	-	8	6	12	11	17	21	34	15
20	FH 3558	9	-	29	15	-	6	17	3	29	43	23	15
21	FH 3563	5	7	24	19	0	9	13	19	24	47	24	19
22	EHL 164410	-	-	10	-	-	-	1	-	10	-	20	-
23	EHL 164510	-	-	6	-	-	-	-	8	6	23	10	1
24	EHL 164610	1	-	25	-	1	4	8	5	24	4	25	13
25	EHL 164710	-	-	4	-	-	-	-	-	3	-	19	1
26	FH 3566	-	-	33	16	-	1	-	2	33	44	21	9
27	FH 3570	-	-	-	-	-	-	-	-	-	-	8	-
28	EHL 164310	10	21	32	-	6	18	18	34	32	-	31	28
29	EHL 164210	2	-	-	3	12	-	9	1	-	28	38	6
CHECKS													
30	Vivek Hybrid 9	-	-	-	-	-	-	7	11	-	24	24	8
31	Vivek Hybrid 33	-	-	0	-	-	-	-	-	-	-	-	-
32	Vivek Sankul 35	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No.30 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Vivek Sankul 35					ZN 1 MEAN	DAYS TO 50% SILKING					ZN 1 Mean
		ALMO	BAJA	BARA	KANG	UDHA		ALMO	BAJA	BARA	KANG	UDHA	
1	PS 83	-	-	-	28	30	-	54.7	60.0	52.0	61.7	63.3	58.3
2	PS 98	-	6	2	21	45	5	55.0	63.0	57.0	58.7	63.3	59.4
3	KDM 322	-	5	-	54	14	1	55.0	61.3	54.0	59.0	63.3	58.5
4	KHM 343A X KDM3401	-	6	-	7	1	-	53.7	60.0	55.0	58.7	62.0	57.9
5	FH 3535	25	18	29	44	23	23	53.7	62.3	55.0	59.3	62.0	58.5
6	FH 3536	32	34	42	49	6	32	53.0	60.3	54.0	56.0	61.7	57.0
7	FH 3539	21	22	79	-	-	32	48.7	55.3	49.0	52.3	60.0	53.1
8	FH 3543	22	19	29	21	15	22	48.7	57.7	49.0	52.0	60.3	53.5
9	FH 3545	30	10	91	60	26	36	53.0	61.7	55.0	56.3	62.3	57.7
10	FH 3548	64	51	80	88	25	59	56.0	63.3	60.0	60.0	63.7	60.6
11	FH 3549	65	71	93	111	2	66	56.3	63.3	61.0	56.3	63.3	60.1
12	FH 3550	63	57	68	53	8	56	55.7	61.7	61.0	58.7	65.0	60.4
13	EHL 164010	38	34	29	47	37	34	54.0	63.0	57.0	57.0	64.3	59.1
14	EHL 164110	14	32	43	103	6	26	56.3	62.3	58.0	59.0	62.7	59.7
15	FH 3552	39	25	4	46	13	24	49.0	54.3	53.0	48.0	61.7	53.2
16	FH 3554	45	26	84	90	19	44	51.7	60.7	55.0	55.3	63.3	57.2
17	FH 3555	53	44	6	40	32	37	51.0	60.7	54.0	55.7	61.7	56.6
18	FH 3556	43	33	86	96	29	47	53.0	62.0	49.0	59.0	62.7	57.1
19	FH 3557	37	30	47	56	42	37	54.0	63.0	57.0	58.0	63.0	59.0
20	FH 3558	43	21	62	84	30	38	53.0	60.7	54.0	56.3	61.3	57.1
21	FH 3563	38	40	55	90	31	42	52.3	61.3	55.0	57.3	63.3	57.9
22	EHL 164410	24	1	38	18	27	19	52.0	59.3	51.0	54.3	60.7	55.5
23	EHL 164510	8	26	33	59	16	21	52.0	57.3	52.0	52.3	63.0	55.3
24	EHL 164610	33	23	56	34	33	34	53.7	61.3	54.0	52.0	62.3	56.7
25	EHL 164710	19	14	30	-	27	20	49.7	58.7	52.0	54.3	61.0	55.1
26	FH 3566	20	19	67	86	28	31	52.7	61.3	52.0	54.3	63.7	56.8
27	FH 3570	0	-	-	27	15	-	49.7	58.3	50.0	55.3	62.0	55.1
28	EHL 164310	45	57	66	28	39	53	55.3	60.7	58.0	59.3	63.3	59.3
29	EHL 164210	34	18	21	65	47	27	50.7	57.3	51.0	52.0	60.3	54.3
CHECKS													
30	Vivek Hybrid 9	32	30	25	60	31	30	48.3	55.0	49.0	49.0	63.0	52.9
31	Vivek Hybrid 33	23	17	25	29	6	20	51.3	57.3	51.0	52.7	61.7	54.8
32	Vivek Sankul 35	-	-	-	-	-	-	48.3	54.0	50.0	49.3	61.0	52.5
Loc. Mean								52.5	60.0	53.9	55.6	62.4	56.9
C.D. (5%)								1.21	2.09	0.69	4.45	2.27	2.09
C.V. (%)								1.41	2.14	0.78	4.91	2.23	2.93
F (Prob.)								0.00	0.00	0.00	0.00	0.00	0.00

TABLE No.30 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED					ZN 1 Mean	DAYS TO 75% DRY HUSK					ZN 1 Mean
		ALMO	BAJA	BARA	KANG	UDHA		ALMO	BAJA	BARA	KANG	UDHA	
1	PS 83	52.3	57.0	51.0	57.7	58.3	55.3	95.3	97.7	93.0	96.3	86.0	93.7
2	PS 98	53.0	60.7	56.0	54.7	59.0	56.7	97.3	95.3	98.0	96.0	83.0	93.9
3	KDM 322	53.3	58.3	53.0	53.7	58.3	55.3	94.0	96.0	94.0	95.7	84.0	92.7
4	KHM 343A X KDM3401	52.0	56.3	54.0	54.0	57.3	54.7	92.3	95.7	94.0	95.7	85.7	92.7
5	FH 3535	52.3	60.0	54.0	53.7	57.3	55.5	92.7	95.7	94.0	96.3	85.7	92.9
6	FH 3536	52.0	58.3	53.0	50.7	57.0	54.2	91.3	91.7	93.0	96.0	84.3	91.3
7	FH 3539	48.7	53.3	48.0	47.7	56.0	50.7	90.7	89.7	91.0	95.7	85.0	90.4
8	FH 3543	48.7	54.7	48.0	48.0	56.3	51.1	90.7	90.3	91.0	96.0	83.0	90.2
9	FH 3545	51.7	59.3	54.0	50.0	58.0	54.6	96.3	97.3	91.0	96.3	81.3	92.5
10	FH 3548	55.7	61.0	59.0	56.0	59.0	58.1	94.7	95.3	102.0	96.0	84.0	94.4
11	FH 3549	56.0	60.7	60.0	50.3	58.7	57.1	99.3	98.3	104.0	96.7	83.7	96.4
12	FH 3550	55.3	59.7	60.0	54.7	60.3	58.0	98.3	97.7	104.0	96.3	84.3	96.1
13	EHL 164010	52.7	61.0	56.0	53.3	60.3	56.7	93.7	94.3	96.0	96.0	83.3	92.7
14	EHL 164110	53.3	59.7	57.0	54.7	58.3	56.6	101.3	97.3	99.0	96.7	85.0	95.9
15	FH 3552	48.7	51.7	52.0	44.7	57.3	50.9	90.7	89.3	93.0	96.0	84.0	90.6
16	FH 3554	51.0	58.3	54.0	50.7	58.0	54.4	95.7	91.7	94.0	96.3	84.0	92.3
17	FH 3555	50.3	58.3	53.0	50.7	57.3	53.9	92.7	93.0	94.0	96.7	84.0	92.1
18	FH 3556	52.0	59.7	48.0	53.7	58.3	54.3	95.0	94.0	91.0	96.0	84.3	92.1
19	FH 3557	52.7	60.3	56.0	52.3	58.3	55.9	97.3	99.3	96.0	97.0	83.7	94.7
20	FH 3558	51.7	58.0	53.0	51.3	57.0	54.2	96.3	94.7	95.0	96.0	84.0	93.2
21	FH 3563	51.0	58.0	54.0	52.3	59.0	54.9	93.0	95.7	94.0	96.7	83.3	92.5
22	EHL 164410	50.7	55.3	50.0	50.0	56.3	52.5	91.7	93.3	93.0	96.3	84.3	91.7
23	EHL 164510	51.3	54.3	51.0	48.0	58.3	52.6	91.3	96.7	93.0	96.3	84.3	92.3
24	EHL 164610	52.0	59.3	54.0	48.3	58.0	54.3	95.7	97.7	94.0	96.7	83.3	93.5
25	EHL 164710	49.0	56.0	51.0	50.3	56.0	52.5	92.0	94.7	94.0	96.0	85.7	92.5
26	FH 3566	51.7	59.3	51.0	49.3	59.0	54.1	92.3	94.7	94.0	96.3	85.7	92.6
27	FH 3570	49.7	55.7	49.0	51.3	57.3	52.6	90.7	92.7	91.0	95.7	84.0	90.8
28	EHL 164310	53.7	58.0	57.0	55.0	59.3	56.6	95.7	94.7	99.0	96.3	84.0	93.9
29	EHL 164210	49.3	55.0	50.0	49.0	56.0	51.9	92.3	93.3	93.0	95.0	82.0	91.1
CHECKS													
30	Vivek Hybrid 9	48.3	53.0	48.0	45.3	57.7	50.5	92.7	93.3	91.0	95.7	83.0	91.1
31	Vivek Hybrid 33	50.7	54.0	50.0	48.7	56.7	52.0	93.0	90.3	93.0	95.3	82.3	90.8
32	Vivek Sankul 35	48.3	52.0	49.0	46.0	56.7	50.4	90.3	90.7	91.0	96.7	83.3	90.4
	Loc. Mean	51.5	57.4	52.9	51.1	57.8	54.2	93.9	94.4	94.6	96.1	84.0	92.6
	C.D. (5%)	1.11	2.08	0.69	4.74	2.29	2.06	1.74	3.30	0.69	1.29	2.44	2.47
	C.V. (%)	1.32	2.22	0.79	5.68	2.43	3.05	1.14	2.14	0.44	0.82	1.78	2.13
	F (Prob.)	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.59	0.06	0.00

TABLE No.30 (Cont..)

Sl No	PEDIGREE	MOISTURE % AT HARVEST					ZN 1		PLANT HEIGHT(cm)					ZN 1		EAR HEIGHT(cm)		
		ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA	KANG	UDHA	Mean	ALMO	BAJA	BARA		
1	PS 83	30.0	24.7	24.0	28.1	26.0	26.6	235.0	204.7	213.8	117.0	113.9	176.9	116.7	102.3	120.8		
2	PS 98	34.2	24.2	23.0	31.8	26.5	27.9	248.3	217.7	233.5	122.7	163.1	197.1	115.0	111.0	122.2		
3	KDM 322	31.9	24.7	23.0	31.5	25.0	27.2	233.3	210.3	201.4	123.0	137.1	181.0	118.3	94.7	108.0		
4	KHM 343A X KDM3401	32.9	21.6	24.0	26.8	26.0	26.3	230.0	213.3	212.8	110.0	147.7	182.8	121.7	117.0	105.6		
5	FH 3535	35.3	25.6	22.7	35.0	24.5	28.6	213.3	211.7	229.2	101.7	139.6	179.1	95.0	95.0	89.9		
6	FH 3536	31.9	24.2	22.3	27.9	26.0	26.5	225.0	207.0	211.7	124.7	151.0	183.9	113.3	111.0	105.8		
7	FH 3539	30.1	22.0	23.0	30.6	26.5	26.4	226.7	199.3	171.2	99.7	176.9	174.7	103.3	90.0	73.8		
8	FH 3543	29.4	21.2	23.0	34.2	25.0	26.6	226.7	205.7	202.8	112.7	150.8	179.7	103.3	106.3	94.2		
9	FH 3545	32.7	24.9	23.0	31.1	26.5	27.6	236.7	211.7	218.5	125.3	121.4	182.7	123.3	110.0	111.0		
10	FH 3548	32.9	26.4	22.7	28.8	25.5	27.3	238.3	213.0	196.5	126.0	157.0	186.2	126.7	121.3	107.8		
11	FH 3549	34.1	24.3	24.0	31.5	25.0	27.8	255.0	219.3	252.5	117.7	161.1	201.1	126.7	101.7	116.6		
12	FH 3550	33.7	23.8	23.0	33.9	26.5	28.2	260.0	217.3	233.2	119.7	160.0	198.0	123.3	113.0	112.6		
13	EHL 164010	31.9	25.6	23.0	34.1	24.5	27.8	243.3	231.7	239.4	135.7	161.5	202.3	125.0	131.0	129.9		
14	EHL 164110	36.1	25.2	22.3	32.3	25.0	28.2	226.7	215.0	229.8	130.7	142.0	188.8	123.3	114.7	130.2		
15	FH 3552	22.9	22.7	22.7	28.5	25.5	24.5	238.3	204.3	197.1	114.3	137.1	178.2	105.0	95.0	93.0		
16	FH 3554	34.1	26.3	23.0	37.3	26.5	29.5	231.7	212.0	203.2	138.0	160.3	189.0	131.7	124.3	112.9		
17	FH 3555	32.9	24.0	23.0	32.1	27.0	27.8	211.7	195.3	170.4	108.3	143.8	165.9	105.0	99.3	91.5		
18	FH 3556	33.0	24.2	23.7	26.2	25.5	26.5	210.0	193.7	185.6	117.3	142.8	169.9	111.7	112.7	95.0		
19	FH 3557	33.0	24.5	23.0	31.6	26.5	27.7	236.7	215.3	226.5	122.0	169.2	194.0	123.3	119.0	118.2		
20	FH 3558	34.1	25.8	22.7	33.7	27.0	28.7	231.7	212.0	233.5	142.3	192.0	202.3	125.0	118.3	133.0		
21	FH 3563	30.8	25.4	22.7	33.4	26.0	27.6	228.3	227.0	229.8	134.0	128.0	189.4	121.7	131.0	123.9		
22	EHL 164410	31.3	24.5	24.0	33.2	26.0	27.8	231.7	190.0	206.9	111.0	152.1	178.3	113.3	87.0	107.0		
23	EHL 164510	32.7	25.3	23.0	34.5	25.0	28.1	213.3	187.3	196.8	95.3	140.8	166.7	98.3	91.7	85.2		
24	EHL 164610	32.0	24.9	22.7	34.5	27.0	28.2	226.7	200.3	216.3	109.3	156.7	181.9	110.0	114.7	114.3		
25	EHL 164710	32.0	23.0	22.7	30.5	25.0	26.6	223.3	201.3	215.1	108.0	151.0	179.8	108.3	102.7	109.5		
26	FH 3566	33.9	25.4	22.7	34.9	25.0	28.4	210.0	197.0	186.4	109.7	131.6	166.9	106.7	102.7	96.0		
27	FH 3570	30.5	24.6	24.0	32.0	25.5	27.3	210.0	174.3	174.5	99.3	147.3	161.1	96.7	65.7	84.2		
28	EHL 164310	31.9	21.9	23.3	34.1	26.5	27.5	240.0	212.7	239.4	127.3	180.3	199.9	130.0	109.0	128.5		
29	EHL 164210	30.5	25.2	22.3	28.6	25.5	26.4	230.0	187.7	180.8	95.0	136.2	165.9	91.7	88.3	70.5		
CHECKS																		
30	Vivek Hybrid 9	30.5	20.4	22.3	27.3	24.5	25.0	223.3	196.7	205.2	114.3	140.5	176.0	105.0	92.7	97.4		
31	Vivek Hybrid 33	31.8	21.7	22.3	26.6	27.0	25.9	210.0	192.7	193.4	107.3	127.7	166.2	101.7	89.3	100.4		
32	Vivek Sankul 35	25.9	20.1	23.0	30.5	26.0	25.1	216.7	186.7	187.8	122.7	144.6	171.7	101.7	97.3	74.7		
	Loc. Mean	31.9	24.0	23.0	31.5	25.8	27.2	228.8	205.1	209.2	116.9	148.9	181.8	113.2	105.0	105.1		
	C.D. (5%)	1.67	1.57	1.05	3.47	1.37	2.19	10.31	13.30	10.97	16.99	41.53	14.39	8.37	16.90	6.41		
	C.V. (%)	3.21	4.02	2.80	6.76	3.26	6.41	2.76	3.97	3.21	8.90	17.09	6.32	4.53	9.86	3.74		
	F (Prob.)	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00		

TABLE No.30 (Cont..)

Sl No	PEDIGREE	EAR HEIGHT(cm)			GRAIN SHELLING %						STAND AT HARVEST ('000/ha)					
		KANG	UDHA	ZN 1 Mean	ALMO	BAJA	BARA	KANG	UDHA	ZN 1 Mean	ALMO	BAJA	BARA	KANG	UDHA	ZN 1 Mean
1	PS 83	231.0	44.4	123.0	86.9	87.8	80.7	84.0	77.1	83.3	63.9	69.0	40.3	63.9	41.7	55.8
2	PS 98	256.0	66.5	134.1	85.8	84.8	76.2	74.0	80.9	80.3	63.9	64.3	51.4	52.1	34.7	53.3
3	KDM 322	246.3	56.9	124.9	87.5	80.0	84.0	78.0	73.3	80.6	63.2	56.3	45.1	70.8	40.3	55.2
4	KHM 343A X KDM3401	235.7	53.3	126.6	85.0	78.5	76.6	74.0	74.1	77.6	63.2	69.8	31.9	64.6	48.6	55.6
5	FH 3535	229.0	52.0	112.2	84.5	82.7	83.1	78.5	69.5	79.7	61.1	69.0	61.8	69.4	43.8	61.0
6	FH 3536	246.3	66.6	128.6	83.2	81.6	82.3	74.0	74.6	79.1	64.6	58.7	58.3	54.2	45.8	56.3
7	FH 3539	234.0	70.1	114.2	83.7	83.5	83.7	77.0	76.0	80.8	61.1	63.5	62.5	66.7	51.4	61.0
8	FH 3543	246.0	57.1	121.4	85.8	85.8	82.6	73.5	73.7	80.3	64.6	63.5	60.4	59.7	51.4	59.9
9	FH 3545	245.3	43.9	126.7	82.8	77.4	85.9	71.5	73.5	78.2	62.5	63.5	46.5	63.9	53.5	58.0
10	FH 3548	247.3	70.9	134.8	82.9	80.5	80.4	84.0	73.1	80.2	63.2	65.1	66.7	65.3	53.5	62.7
11	FH 3549	251.0	60.9	131.4	83.9	82.5	83.4	83.5	75.9	81.8	66.0	65.9	66.7	66.7	50.7	63.2
12	FH 3550	241.7	58.2	129.8	84.1	84.3	85.2	77.5	73.9	81.0	63.2	62.7	56.9	62.5	53.5	59.8
13	EHL 164010	266.0	71.8	144.8	87.2	84.6	80.7	74.0	76.8	80.7	62.5	62.7	50.0	62.5	44.4	56.4
14	EHL 164110	254.0	53.5	135.1	86.2	82.7	81.9	79.0	71.3	80.2	59.7	61.1	61.1	72.9	43.1	59.6
15	FH 3552	243.7	52.7	117.9	85.1	84.1	83.3	72.5	72.5	79.5	61.1	69.0	51.4	55.6	50.7	57.6
16	FH 3554	253.3	74.3	139.3	85.9	82.6	83.7	80.0	73.9	81.2	61.1	60.3	64.6	63.9	51.4	60.3
17	FH 3555	239.7	62.3	119.6	87.7	86.2	80.9	76.5	72.8	80.8	63.2	66.7	56.9	50.0	49.3	57.2
18	FH 3556	240.3	61.5	124.2	85.7	81.0	80.6	81.5	75.2	80.8	63.9	52.4	66.7	57.6	45.8	57.3
19	FH 3557	247.0	78.3	137.2	83.6	80.4	80.3	81.5	74.6	80.1	66.0	65.9	64.6	70.1	47.2	62.8
20	FH 3558	259.3	92.4	145.6	85.5	84.8	82.9	79.0	76.6	81.8	65.3	64.3	65.3	56.3	43.8	59.0
21	FH 3563	254.0	49.0	135.9	85.9	85.2	80.9	84.5	73.0	81.9	63.9	68.3	63.2	60.4	42.4	59.6
22	EHL 164410	235.7	66.5	121.9	86.5	83.1	79.5	75.5	76.8	80.3	61.8	65.9	59.7	65.3	45.1	59.6
23	EHL 164510	236.7	54.5	113.3	83.0	80.1	84.7	76.0	73.4	79.4	60.4	61.9	48.6	57.6	42.4	54.2
24	EHL 164610	233.0	67.5	127.9	84.6	82.0	85.5	77.5	74.7	80.8	64.6	65.1	54.9	68.8	46.5	60.0
25	EHL 164710	232.3	64.3	123.4	85.1	84.8	77.3	74.0	78.1	79.9	61.1	57.1	51.4	59.0	49.3	55.6
26	FH 3566	229.0	52.3	117.3	85.3	85.1	82.9	81.5	76.8	82.3	64.6	65.1	61.1	69.4	49.3	61.9
27	FH 3570	219.7	62.4	105.7	82.7	81.1	74.0	76.5	71.3	77.1	63.2	71.4	52.1	66.7	46.5	60.0
28	EHL 164310	249.3	75.7	138.5	86.9	85.0	83.9	77.5	75.7	81.8	63.2	69.8	66.0	75.0	54.2	65.6
29	EHL 164210	225.7	52.1	105.7	86.8	87.0	81.9	76.5	82.5	82.9	63.2	63.5	47.2	57.6	50.0	56.3
CHECKS																
30	Vivek Hybrid 9	243.0	57.1	119.0	87.1	83.9	80.4	75.5	76.0	80.6	64.6	67.5	61.1	61.8	47.2	60.4
31	Vivek Hybrid 33	234.3	47.0	114.5	87.1	88.2	79.6	81.0	81.3	83.4	64.6	70.6	54.9	58.3	50.0	59.7
32	Vivek Sankul 35	243.7	50.2	113.5	85.6	83.0	83.3	78.0	74.6	80.9	61.8	66.7	60.4	66.0	51.4	61.3
	Loc. Mean	242.2	60.8	125.3	85.3	83.3	81.6	77.7	75.1	80.6	63.1	64.6	56.6	63.0	47.5	58.9
	C.D. (5%)	17.46	24.91	10.63	0.94	0.00	1.44	2.86	2.75	3.25	4.97	7.32	3.44	16.49	8.85	6.54
	C.V. (%)	4.42	25.10	6.78	0.68	0.00	1.08	2.26	2.25	3.22	4.82	6.94	3.73	16.04	11.43	8.87
	F (Prob.)	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.71	0.00	0.00	0.38	0.01	0.06

TABLE No.31

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT KARNAL, PANTNAGAR, KANPUR IN ZONAL TRIAL No.TR201 DURING KHARIF (2010).

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE							GRAIN YIELD % SUPERIORITY OVER THE PMH 3				GRAIN YIELD % SUPERIORITY OVER THE PMH 1				
		KARN	R	PANT	R	KANP	R	MEAN	R	KARN	PANT	KANP	MEAN	KARN	PANT	KANP	MEAN
							ZN 2					ZN 2				ZN 2	
1	JH31388	3950	4	5840	2	10438	1	6743	1	32	2	9	11	-	22	29	18
2	JH31427	3332	7	6100	1	9152	5	6195	3	12	7	-	2	-	27	13	8
3	AH 2101	3903	6	4952	6	8515	7	5790	7	31	-	-	-	-	3	5	1
4	AH 2102	4503	1	5108	5	8845	6	6152	4	51	-	-	1	7	6	9	8
	CHECKS																
5	PMH 1	4208	2	4806	7	8117	8	5710	8	41	-	-	-	-	-	-	-
6	PMH 3	2985	8	5712	3	9595	3	6097	5	-	-	-	-	-	19	18	7
7	Seedtec 2324	3905	5	4330	8	9740	2	5992	6	31	-	2	-	-	-	20	5
8	BIO 9681	4004	3	5671	4	9375	4	6350	2	34	-	-	4	-	18	15	11
	Location Mean	3849		5315		9222		6129									
	Mean Stand	26		33		37		32									
	C.D. (5%)	489		1437		1582		1169									
	C.V. (%)	7.21		15.33		9.72		-									
	F (Prob)	0		0.736		0.039		-									
	Plot Size	5.6		6		5.6		-									
	AGRONOMY DATA																
	Sowing Date	16-07		16-07		14-07		-									
	Harvest Date	10-10		20-10		30-10		-									
	Irrigation Nos	4		-		-		-									
	Fertilizer Applied N	150		120		120		-									
	Fertilizer Applied P	60		60		60		-									
	Fertilizer Applied K	60		40		40		-									

S1 No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Seedtec 2324				GRAIN YIELD % SUPERIORITY OVER THE BIO 9681			
		KARN	PANT	KANP	ZN 2 MEAN	KARN	PANT	KANP	ZN 2 MEAN
1	JH31388	1	35	7	13	-	3	11	6
2	JH31427	-	41	-	3	-	8	-	-
3	AH 2101	-	14	-	-	-	-	-	-
4	AH 2102	15	18	-	3	12	-	-	-
	CHECKS								
5	PMH 1	8	11	-	-	5	-	-	-
6	PMH 3	-	32	-	2	-	1	2	-
7	Seedtec 2324	-	-	-	-	-	-	4	-
8	BIO 9681	3	31	-	6	-	-	-	-

TABLE No.31 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 50% POLLEN SHED				DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST				
		KARN	PANT	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean	KARN	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean	
1	JH31388	50.3	54.0	53.0	52.4	48.0	51.7	48.0	49.2	78.7	85.0	81.8	32.8	18.5	15.0	22.1	
2	JH31427	48.0	53.0	56.3	52.4	45.7	49.0	51.7	48.8	78.3	89.3	83.8	30.6	24.8	15.0	23.5	
3	AH 2101	47.3	49.0	53.7	50.0	45.0	46.7	48.3	46.7	81.7	84.0	82.8	29.4	23.6	15.0	22.7	
4	AH 2102	46.0	48.7	55.3	50.0	44.0	46.7	50.7	47.1	79.7	87.0	83.3	30.5	23.3	15.0	22.9	
	CHECKS																
5	PMH 1	49.0	54.3	54.7	52.7	46.3	51.7	49.7	49.2	80.0	86.0	83.0	31.4	29.8	15.0	25.4	
6	PMH 3	48.3	49.3	51.7	49.8	46.0	46.7	47.3	46.7	79.3	83.7	81.5	32.5	19.8	15.0	22.4	
7	Seedtec 2324	49.0	54.0	54.7	52.6	46.7	51.3	50.3	49.4	80.0	88.0	84.0	29.5	20.3	15.0	21.6	
8	BIO 9681	49.7	51.0	55.0	51.9	47.3	48.3	50.3	48.7	80.3	89.3	84.8	31.1	26.1	15.0	24.1	
	Loc. Mean	48.5	51.7	54.3	51.5	46.1	49.0	49.5	48.2	79.8	86.5	83.1	31.0	23.2	15.0	23.1	
	C.D. (5%)	3.83	2.96	1.73	2.74	4.06	2.55	1.50	2.70	3.35	1.60	4.52	-	2.56	-	4.09	
	C.V. (%)	4.52	3.27	1.82	3.04	5.03	2.97	1.73	3.20	2.40	1.05	2.30	-	6.28	-	10.12	
	F (Prob.)	0.38	0.00	0.00	0.12	0.53	0.00	0.00	0.16	0.55	0.00	0.69	0.00	0.00	-	0.60	
Sl No	PEDIGREE	PLANT HEIGHT(cm)				EAR HEIGHT(cm)				GRAIN SHELLING %				STAND AT HARVEST ('000/ha)			
		KARN	PANT	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean
1	JH31388	220.0	228.0	89.7	179.2	115.0	104.0	173.7	130.9	80.0	80.0	77.0	79.0	44.0	52.8	67.9	54.9
2	JH31427	226.7	250.0	92.0	189.6	120.0	123.3	209.7	151.0	80.0	75.0	75.5	76.8	44.6	55.6	66.7	55.6
3	AH 2101	211.7	215.3	75.7	167.6	100.0	96.0	161.3	119.1	75.0	85.7	75.0	78.6	54.2	57.2	64.9	58.8
4	AH 2102	211.7	222.7	95.7	176.7	111.7	103.3	186.3	133.8	85.0	87.5	74.0	82.2	44.0	56.7	64.9	55.2
	CHECKS																
5	PMH 1	243.3	269.3	110.3	207.7	123.3	131.7	221.3	158.8	84.0	81.8	76.5	80.8	51.8	56.1	67.3	58.4
6	PMH 3	228.3	250.3	101.7	193.4	116.7	120.0	193.7	143.4	76.0	77.8	76.5	76.8	41.1	54.4	64.9	53.5
7	Seedtec 2324	220.0	230.0	100.0	183.3	110.0	114.7	207.0	143.9	78.0	81.3	75.0	78.1	51.2	57.8	63.1	57.4
8	BIO 9681	216.7	233.3	96.0	182.0	105.0	105.3	205.7	138.7	75.0	88.9	74.5	79.5	42.3	54.4	64.3	53.7
	Loc. Mean	222.3	237.4	95.1	184.9	112.7	112.3	194.8	139.9	79.1	82.2	75.5	79.0	46.7	55.6	65.5	55.9
	C.D. (5%)	15.51	25.19	10.79	11.64	17.89	12.90	13.42	15.46	-	-	1.15	6.67	12.64	6.79	2.63	5.18
	C.V. (%)	3.98	6.06	6.48	3.59	9.06	6.56	3.93	6.31	-	-	0.87	4.82	15.47	6.97	2.30	5.29
	F (Prob.)	0.01	0.01	0.00	0.00	0.19	0.00	0.00	0.00	-	-	0.00	0.66	0.28	0.78	0.02	0.27

TABLE No. 32

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT DE KARNAL, LUDHIANA, PANTNAGAR, KANPUR IN ZONAL TRIAL No. TR202 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE Navjot				
		KARN	R	LUDH	R	PANT	R	KANP	R	ZN 2 MEAN	R	KARN	LUDH	PANT	KANP	ZN 2 MEAN
1	JH31290	3791	5	6885	4	5563	2	7407	2	5911	2	-	29	3	19	13
2	JH31313	3407	9	8076	1	4999	10	6278	11	5690	4	-	51	-	1	8
3	JH31406	3291	11	6862	5	5928	1	6961	5	5760	3	-	28	10	12	10
4	JH31354	3547	8	7913	2	5460	3	7506	1	6107	1	-	48	1	21	16
5	JH31370	3654	6	5624	10	5446	4	7235	3	5490	6	-	5	1	16	5
6	JH31391	3352	10	7369	3	5259	6	6624	7	5651	5	-	38	-	7	8
7	AH 2103	3983	4	6549	7	4858	12	6359	9	5437	8	-	22	-	2	4
8	AH 2104	4207	2	4406	15	5255	8	6116	13	4996	12	5	-	-	-	-
9	AH 2105	3559	7	5389	12	5257	7	5468	16	4918	13	-	1	-	-	-
10	AH 2106	3203	13	4195	16	4582	15	5897	15	4469	16	-	-	-	-	-
11	AH 2107	2855	14	5933	9	5242	9	6459	8	5122	10	-	11	-	4	-
12	AH 2108	3222	12	4463	14	4816	13	6336	10	4709	15	-	-	-	2	-
CHECKS																
13	Navjot	4012	3	5346	13	5408	5	6219	12	5246	9	-	-	-	-	-
14	BIO 9637	4311	1	6575	6	4907	11	6035	14	5457	7	7	23	-	-	4
15	HM 8	2614	16	5514	11	4173	16	6639	6	4735	14	-	3	-	7	-
16	HM 9	2824	15	5955	8	4598	14	7037	4	5104	11	-	11	-	13	-
	Location Mean	3490		6066		5109		6536		5300						
	Mean Stand	25		30		35		35		31						
	C.D. (5%)	414		1244		1334		735		932						
	C.V. (%)	7.11		12.29		15.64		6.73		-						
	F (Prob)	0		0		0.476		0		-						
	Plot Size	5.6		5.46		6		5.6		-						
AGRONOMY DATA																
	Sowing Date	16-07		18-07		16-07		14-07		-						
	Harvest Date	10-10		18-10		20-10		30-10		-						
	Irrigation Nos	4		2		-		-		-						
	Fertilizer Applied N	150		90		120		120		-						
	Fertilizer Applied P	60		30		60		60		-						
	Fertilizer Applied K	60		-		40		40		-						

TABLE No. 32 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO 9637					GRAIN YIELD % SUPERIORITY OVER THE HM 8					GRAIN YIELD % SUPERIORITY OVER THE HM 9				
		KARN	LUDH	PANT	KANP	ZN 2 MEAN	KARN	LUDH	PANT	KANP	ZN 2 MEAN	KARN	LUDH	PANT	KANP	ZN 2 MEAN
1	JH31290	-	5	13	23	8	45	25	33	12	25	34	16	21	5	16
2	JH31313	-	23	2	4	4	30	46	20	-	20	21	36	9	-	11
3	JH31406	-	4	21	15	6	26	24	42	5	22	16	15	29	-	13
4	JH31354	-	20	11	24	12	36	44	31	13	29	26	33	19	7	20
5	JH31370	-	-	11	20	1	40	2	31	9	16	29	-	18	3	8
6	JH31391	-	12	7	10	4	28	34	26	-	19	19	24	14	-	11
7	AH 2103	-	-	-	5	-	52	19	16	-	15	41	10	6	-	7
8	AH 2104	-	-	7	1	-	61	-	26	-	6	49	-	14	-	-
9	AH 2105	-	-	7	-	-	36	-	26	-	4	26	-	14	-	-
10	AH 2106	-	-	-	-	-	23	-	10	-	-	13	-	-	-	-
11	AH 2107	-	-	7	7	-	9	8	26	-	8	1	-	14	-	0
12	AH 2108	-	-	-	5	-	23	-	15	-	-	14	-	5	-	-
	CHECKS															
13	Navjot	-	-	10	3	-	53	-	30	-	11	42	-	18	-	3
14	BIO 9637	-	-	-	-	-	65	19	18	-	15	53	10	7	-	7
15	HM 8	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
16	HM 9	-	-	-	17	-	8	8	10	6	8	-	-	-	-	-

TABLE No. 32 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 50% POLLEN SHED					DAYS TO 75% DRY HUSK			
		KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	KANP	ZN 2 Mean
1	JH31290	48.0	52.7	49.3	45.3	48.8	45.7	51.7	46.7	41.3	46.3	80.0	82.0	76.7	79.6
2	JH31313	52.0	51.7	52.7	46.7	50.8	50.0	50.7	49.0	42.7	48.1	74.7	81.3	78.0	78.0
3	JH31406	49.7	51.3	48.7	52.3	50.5	47.3	50.3	46.0	47.7	47.8	78.3	81.7	84.0	81.3
4	JH31354	48.0	51.7	49.0	50.0	49.7	45.0	50.7	47.0	45.3	47.0	76.3	82.0	79.0	79.1
5	JH31370	49.0	51.7	50.7	49.7	50.3	46.7	50.7	48.0	44.7	47.5	75.3	81.0	81.0	79.1
6	JH31391	49.0	50.7	49.0	53.0	50.4	46.3	49.7	46.3	48.3	47.7	79.7	81.3	84.3	81.8
7	AH 2103	49.7	51.3	49.3	53.3	50.9	47.0	50.3	46.3	48.3	48.0	78.0	81.3	83.3	80.9
8	AH 2104	49.0	50.7	48.7	52.0	50.1	46.3	49.7	46.3	47.3	47.4	76.7	81.0	82.7	80.1
9	AH 2105	50.7	51.0	49.7	52.7	51.0	48.3	50.0	47.3	48.3	48.5	80.0	81.7	84.0	81.9
10	AH 2106	51.3	50.3	48.0	50.3	50.0	49.0	49.3	46.0	45.3	47.4	75.3	80.7	80.3	78.8
11	AH 2107	49.7	50.0	49.7	51.3	50.2	47.3	49.7	47.3	46.3	47.7	78.3	81.3	86.7	82.1
12	AH 2108	49.3	52.7	53.0	50.3	51.3	46.3	51.7	50.0	45.3	48.3	79.0	83.0	83.0	81.7
CHECKS															
13	Navjot	48.0	51.3	50.0	52.7	50.5	45.7	50.3	47.7	48.3	48.0	79.0	82.3	85.0	82.1
14	BIO 9637	49.3	51.3	49.7	50.3	50.2	47.0	50.3	47.3	45.3	47.5	77.3	81.3	81.0	79.9
15	HM 8	50.3	51.0	52.7	52.7	51.7	48.0	50.0	49.7	47.7	48.8	75.3	80.7	83.3	79.8
16	HM 9	48.7	52.7	49.3	52.7	50.8	46.3	51.7	47.0	47.7	48.2	77.3	83.0	86.0	82.1
	Loc. Mean	49.5	51.4	50.0	51.0	50.4	47.0	50.4	47.4	46.3	47.8	77.5	81.6	82.4	80.5
	C.D. (5%)	2.43	1.06	2.78	1.14	2.28	2.42	0.93	2.46	0.95	2.15	4.46	1.36	1.53	2.89
	C.V. (%)	2.94	1.23	3.34	1.35	3.18	3.08	1.10	3.12	1.24	3.16	3.45	1.00	1.12	2.16
	F (Prob.)	0.07	0.00	0.02	0.00	0.77	0.02	0.00	0.04	0.00	0.83	0.25	0.03	0.00	0.07

TABLE No. 32 (Cont..)

Sl No	PEDIGREE	MOISTURE % AT HARVEST					PLANT HEIGHT (cm)					EAR HEIGHT (cm)				
		KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean
1	JH31290	32.5	36.3	25.9	15.0	27.4	216.7	226.7	238.0	100.7	195.5	110.0	130.0	126.0	180.7	136.7
2	JH31313	33.1	36.9	27.5	15.0	28.1	211.7	216.7	241.3	90.0	189.9	110.0	118.3	116.7	182.3	131.8
3	JH31406	29.8	31.7	23.5	15.0	25.0	220.0	206.7	249.3	88.3	191.1	100.0	116.7	132.7	105.7	113.8
4	JH31354	28.8	32.6	26.2	15.0	25.6	226.7	221.7	232.7	105.3	196.6	110.0	115.0	112.7	222.3	140.0
5	JH31370	28.8	31.9	24.5	15.0	25.1	223.3	205.0	224.0	96.3	187.2	98.3	123.3	112.7	206.7	135.3
6	JH31391	29.9	30.9	24.4	15.0	25.0	218.3	225.0	232.7	84.0	190.0	105.0	116.7	116.0	176.3	128.5
7	AH 2103	29.9	32.7	23.2	15.0	25.2	206.7	190.0	225.3	83.7	176.4	106.7	113.3	106.7	181.0	126.9
8	AH 2104	21.0	31.3	20.9	15.0	22.0	208.3	190.0	208.7	86.7	173.4	110.0	91.7	103.7	187.3	123.2
9	AH 2105	30.1	29.8	25.8	15.0	25.2	201.7	193.3	226.0	70.7	172.9	100.0	101.7	111.3	175.3	122.1
10	AH 2106	30.1	28.7	25.3	15.0	24.8	213.3	198.3	215.3	72.0	174.8	110.0	90.0	98.7	175.0	118.4
11	AH 2107	29.7	29.5	25.7	15.0	25.0	208.3	191.7	242.0	82.3	181.1	106.7	100.0	112.7	177.7	124.3
12	AH 2108	28.5	32.4	24.5	15.0	25.1	216.7	200.0	227.3	100.7	186.2	110.0	105.0	113.3	162.3	122.7
CHECKS																
13	Navjot	30.6	30.4	25.2	15.0	25.3	210.0	213.3	220.7	85.0	182.3	110.0	106.7	113.3	154.3	121.1
14	BIO 9637	29.6	31.6	24.9	15.0	25.3	218.3	228.3	236.0	89.0	192.9	105.0	121.7	112.7	226.7	141.5
15	HM 8	29.0	32.4	23.6	15.0	25.0	218.3	195.0	196.0	94.0	175.8	105.0	105.0	99.3	160.3	117.4
16	HM 9	28.8	30.7	24.3	15.0	24.7	203.3	181.7	213.7	77.0	168.9	100.0	93.3	108.7	170.0	118.0
	Loc. Mean	29.4	31.8	24.7	15.0	25.2	213.9	205.2	226.8	87.9	183.4	106.0	109.3	112.3	177.8	126.3
	C.D. (5%)	-	2.38	3.33	-	2.20	19.69	25.29	22.47	1.61	12.99	16.73	21.95	16.48	29.78	22.19
	C.V. (%)	-	4.48	8.08	-	6.13	5.52	7.39	5.94	1.10	4.97	9.46	12.05	8.80	10.05	12.33
	F (Prob.)	0.00	0.00	0.10	-	0.00	0.40	0.01	0.00	0.00	0.00	0.88	0.02	0.03	0.00	0.31

TABLE No. 32 (Cont..)

Sl No	PEDIGREE	GRAIN SHELLING %					STAND AT HARVEST ('000/ha)				
		KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean
1	JH31290	78.0	84.5	82.5	77.0	80.5	45.8	58.0	61.1	66.7	57.9
2	JH31313	83.0	85.2	81.3	74.0	80.9	43.5	65.3	60.0	61.3	57.5
3	JH31406	74.0	85.6	87.5	76.0	80.8	44.0	60.4	56.1	62.5	55.8
4	JH31354	72.0	85.9	84.6	74.5	79.2	45.8	62.9	60.0	60.7	57.4
5	JH31370	76.0	85.0	85.7	75.0	80.4	44.0	63.5	57.2	63.1	57.0
6	JH31391	76.0	84.7	81.3	74.5	79.1	42.9	56.2	61.1	60.7	55.2
7	AH 2103	84.0	84.6	81.3	74.0	81.0	43.5	35.4	56.7	60.7	49.1
8	AH 2104	78.0	84.5	83.3	74.0	80.0	47.0	56.8	58.3	62.5	56.2
9	AH 2105	79.0	87.3	84.6	72.0	80.7	48.2	58.0	57.8	61.3	56.3
10	AH 2106	79.0	86.0	75.0	72.0	78.0	45.8	64.1	55.6	61.3	56.7
11	AH 2107	81.0	84.5	85.7	74.5	81.4	43.5	53.7	57.2	61.9	54.1
12	AH 2108	83.0	85.1	81.3	74.0	80.8	50.0	57.4	57.2	62.5	56.8
CHECKS											
13	Navjot	78.0	84.8	88.9	75.0	81.7	42.9	64.7	57.8	60.7	56.5
14	BIO 9637	82.0	85.5	89.0	74.0	82.6	46.4	61.1	62.2	63.1	58.2
15	HM 8	72.0	79.0	70.0	74.7	73.9	45.2	42.1	56.7	60.7	51.2
16	HM 9	78.0	83.4	86.7	74.7	80.7	46.4	28.7	57.8	64.3	49.3
	Loc. Mean	78.3	84.7	83.0	74.4	80.1	45.3	55.5	58.3	62.1	55.3
	C.D. (5%)	-	1.66	-	0.61	4.31	7.33	13.62	7.05	2.22	7.94
	C.V. (%)	-	1.18	-	0.49	3.78	9.70	14.71	7.25	2.14	10.08
	F (Prob.)	-	0.00	-	0.00	0.09	0.81	0.00	0.80	0.00	0.38

TABLE No.33

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT KARNAL, LUDHIANA, PANTNAGAR, KANPUR IN ZONAL TRIAL No. TR203 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE JH-3459					GRAIN YIELD % SUPERIORITY OVER THE Prakash				
		KARN	R	LUDH	R	PANT	R	KANP	R	ZN 2 MEAN	R	KARN	LUDH	PANT	KANP	ZN 2 MEAN	KARN	LUDH	PANT	KANP	ZN 2 MEAN
1	JH31329	3747	5	5801	2	5208	6	5985	2	5178	2	8	2	1	12	7	-	1	21	3	0
2	JH31433	3861	4	7055	1	4837	8	5791	5	5569	1	11	24	-	8	15	-	23	13	0	8
3	JH31360	3422	10	5384	8	5933	2	5964	3	4923	6	-	-	15	12	2	-	-	38	3	-
4	AH 2109	4047	2	5733	4	5858	3	5028	10	4936	5	16	1	14	-	2	2	-	37	-	-
5	AH 2110	3381	11	4408	11	5504	4	5833	4	4541	11	-	-	7	9	-	-	-	28	1	-
6	AH 2111	4168	1	5397	7	7042	1	5705	7	5090	4	20	-	37	7	5	5	-	64	-	-
7	AH 2112	3440	9	5414	6	4050	11	5654	8	4836	9	-	-	-	6	-	-	-	-	-	-
8	AH 2113	3665	7	5317	9	5221	5	4817	11	4600	10	5	-	1	-	-	-	-	22	-	-
9	AH 2114	3704	6	4963	10	4310	9	6002	1	4889	7	6	-	-	12	1	-	-	0	4	-
CHECKS																					
10	JH-3459	3479	8	5690	5	5153	7	5348	9	4839	8	-	-	-	-	-	-	-	20	-	-
11	Prakash	3984	3	5745	3	4291	10	5790	6	5173	3	15	1	-	8	7	-	-	-	-	-
	Location Mean	3718		5537		5219		5629		4961											
	Mean Stand	29		29		36		36		32											
	C.D. (5%)	960		1212		2030		838		1003											
	C.V. (%)	15.11		12.81		22.76		8.71		-											
	F (Prob)	0.657		0.024		0.14		0.002													
	Plot Size	5.6		5.46		6		5.6		-											
AGRONOMY DATA																					
	Sowing Date	16-07		18-07		16-07		14-07		-											
	Harvest Date	10-10		18-10		20-10		30-10		-											
	Irrigation Nos	4		2		-		-		-											
	Fertilizer Applied N	150		90		120		120		-											
	Fertilizer Applied P	60		30		60		60		-											
	Fertilizer Applied K	60		-		40		40		-											

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : PANT 22.8 %

TABLE No.33 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 50% POLLEN SHED					DAYS TO 75% DRY HUSK				MOISTURE % AT HARVEST					
		KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	
1	JH31329	48.0	50.3	48.3	49.0	48.9	45.3	49.3	46.0	44.3	46.3	78.7	79.0	80.0	79.2	32.5	28.8	21.8	15.0	24.5	
2	JH31433	49.0	51.7	48.0	53.3	50.5	46.7	50.7	45.3	48.3	47.8	81.0	81.3	82.3	81.6	29.5	32.3	26.0	15.0	25.7	
3	JH31360	48.3	50.3	50.3	49.0	49.5	45.7	49.3	48.0	42.7	46.4	78.7	80.0	78.7	79.1	31.1	31.3	20.2	15.0	24.4	
4	AH 2109	49.0	50.7	49.7	47.0	49.1	46.7	49.7	46.7	43.3	46.6	79.3	79.7	77.7	78.9	29.5	34.6	22.2	15.0	25.3	
5	AH 2110	47.7	50.7	51.0	49.3	49.7	45.3	49.7	46.0	44.7	46.4	79.3	80.0	79.7	79.7	29.7	34.0	23.7	15.0	25.6	
6	AH 2111	48.3	51.3	48.0	49.3	49.3	45.3	50.3	46.0	45.0	46.7	79.3	80.3	79.0	79.6	28.5	30.9	23.2	15.0	24.4	
7	AH 2112	48.3	51.3	50.7	49.3	49.9	45.7	50.3	48.0	45.0	47.3	79.3	80.3	78.7	79.4	30.5	37.0	25.9	15.0	27.1	
8	AH 2113	49.3	47.7	48.3	48.0	48.3	46.7	48.0	46.0	43.3	46.0	79.0	78.0	78.7	78.6	28.9	32.3	22.6	15.0	24.7	
9	AH 2114	49.3	50.3	49.0	49.7	49.6	47.0	50.0	46.3	45.3	47.2	80.0	80.0	80.0	80.0	30.1	31.3	20.5	15.0	24.2	
CHECKS																					
10	JH-3459	48.7	50.0	48.7	47.0	48.6	46.0	49.0	46.3	41.7	45.8	78.7	79.7	79.0	79.1	30.9	32.1	21.2	15.0	24.8	
11	Prakash	48.0	50.7	50.7	46.3	48.9	45.7	49.7	47.7	41.7	46.2	78.7	80.3	76.3	78.4	29.5	30.9	25.9	15.0	25.3	
	Loc. Mean	48.5	50.5	49.3	48.8	49.3	46.0	49.6	46.6	44.1	46.6	79.3	79.9	79.1	79.4	30.1	32.3	23.0	15.0	25.1	
	C.D. (5%)	3.15	0.98	4.15	1.78	1.82	2.65	1.25	3.60	1.09	1.67	2.02	1.28	2.40	1.39	-	2.03	5.65	-	2.34	
	C.V. (%)	3.81	1.14	4.94	2.14	2.56	3.39	1.48	4.54	1.44	2.48	1.50	0.94	1.78	1.03	-	3.69	14.43	-	6.47	
	F (Prob.)	0.98	0.00	0.73	0.00	0.49	0.87	0.02	0.83	0.00	0.42	0.42	0.01	0.01	0.01	0.00	0.00	0.32	-	0.41	

Sl No	PEDIGREE	PLANT HEIGHT(cm)					EAR HEIGHT(cm)					GRAIN SHELLING %					STAND AT HARVEST ('000/ha)				
		KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	KARN	LUDH	PANT	KANP	ZN 2 Mean	
1	JH31329	205.0	168.3	227.0	82.7	170.8	95.0	102.7	170.7	122.8	73.0	87.3	-	75.5	78.6	47.0	52.5	58.9	67.9	56.6	
2	JH31433	208.3	186.7	233.7	79.7	177.1	103.3	93.7	180.0	125.7	79.0	87.4	81.3	75.5	80.8	52.4	58.0	60.6	66.1	59.3	
3	JH31360	211.7	185.0	200.3	85.7	170.7	105.0	97.0	185.3	129.1	72.0	84.9	83.3	73.5	78.4	56.5	63.5	66.7	60.7	61.9	
4	AH 2109	213.3	171.7	244.0	83.3	178.1	111.7	113.3	168.7	131.2	83.0	85.7	82.4	74.0	81.3	54.8	45.2	60.6	61.3	55.5	
5	AH 2110	203.3	200.0	254.0	72.3	182.4	100.0	109.3	161.0	123.4	70.0	85.3	78.6	75.0	77.2	51.2	59.8	61.7	65.5	59.5	
6	AH 2111	195.0	180.0	246.7	80.7	175.6	96.7	111.3	186.0	131.3	75.0	84.1	86.2	76.0	80.3	52.4	49.5	60.0	65.5	56.8	
7	AH 2112	203.3	193.3	228.0	82.7	176.8	93.3	102.7	169.3	121.8	79.0	83.0	82.4	74.5	79.7	47.6	37.2	58.9	64.9	52.2	
8	AH 2113	206.7	186.7	218.7	72.7	171.2	100.0	95.3	161.7	119.0	81.0	85.9	89.9	72.0	82.2	53.6	57.4	60.6	61.9	58.4	
9	AH 2114	210.0	191.7	242.0	60.7	176.1	108.3	105.3	154.0	122.6	83.0	83.7	-	74.5	80.4	50.6	56.2	56.7	62.5	56.5	
CHECKS																					
10	JH-3459	201.7	173.3	220.7	84.7	170.1	98.3	96.7	165.3	120.1	76.0	85.7	85.7	74.0	80.4	56.0	53.7	56.7	63.7	57.5	
11	Prakash	210.0	185.0	231.7	84.7	177.8	106.7	98.7	184.3	129.9	85.0	87.0	87.5	74.5	83.5	53.0	58.6	63.9	65.5	60.2	
	Loc. Mean	206.2	183.8	231.5	79.1	175.1	101.7	102.4	171.5	125.2	77.8	85.4	84.1	74.5	80.2	52.3	53.8	60.5	64.1	57.7	
	C.D. (5%)	20.03	19.34	32.98	0.97	15.52	16.78	16.34	3.79	14.20	0.00	0.71	-	1.17	4.50	11.18	12.92	7.89	2.99	5.96	
	C.V. (%)	5.70	6.18	8.36	0.72	6.14	9.69	9.37	1.30	6.66	0.00	0.49	-	0.92	3.88	12.55	14.11	7.66	2.74	7.16	
	F (Prob.)	0.79	0.06	0.12	0.00	0.84	0.44	0.21	0.00	0.57	0.00	0.00	0.00	0.00	0.28	0.75	0.02	0.35	0.00	0.15	

TABLE No.34

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR
IN ZONAL TRIAL No. TR204 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE Vivek QPM 9					GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid 9									
		KARN	R	LUDH	R	PANT	R	KANP	R	MEAN	ZN 2	R	KARN	LUDH	PANT	KANP	MEAN	ZN 2	R	KARN	LUDH	PANT	KANP	MEAN	ZN 2	
1	AH 2115	3159	6	5874	4	4412	6	6332	2	4944	6	-	-	-	5	-	-	-	-	-	-	0	-	-		
2	AH 2116	3308	4	6810	2	5026	3	7039	1	5546	1	4	-	8	17	5	-	13	-	-	12	3	-			
3	AH 2117	3562	2	5619	5	5240	1	5715	6	5034	4	12	-	13	-	-	-	-	1	-	-	-	-			
4	AH 2118	3401	3	5467	6	4850	4	6312	4	5007	5	7	-	4	5	-	-	-	-	-	-	-	-			
CHECKS																										
5	Vivek QPM 9	3193	5	7361	1	4643	5	6012	5	5302	3	-	-	-	-	-	-	22	-	-	-	-	-			
6	Vivek Hybrid 9	4012	1	6027	3	5167	2	6313	3	5380	2	26	-	11	5	1	-	-	-	-	-	-	-			
	Location Mean	3439		6193		4890		6287		5202																
	Mean Stand	26		37		35		35		33																
	C.D. (5%)	470		766		1473		546		814																
	C.V. (%)	7.4		6.7		16.31		4.7		-																
	F (Prob)	0.012		0.006		0.719		0.087		-																
	Plot Size	5.6		5.46		6		5.6		-																
AGRONOMY DATA																										
	Sowing Date	16-07		18-07		16-07		14-07		-																
	Harvest Date	10-10		18-10		20-10		30-10		-																
	Irrigation Nos	4		2		-		-		-																
	Fertilizer Applied N	150		80		120		120		-																
	Fertilizer Applied P	60		40		60		60		-																
	Fertilizer Applied K	60		-		40		40		-																
DAYS TO 50% SILKING																										
Sl No	PEDIGREE	KARN	LUDH	PANT	KANP	ZN 2	KARN	LUDH	PANT	KANP	ZN 2	KARN	LUDH	PANT	KANP	ZN 2	KARN	LUDH	PANT	KANP	ZN 2	KARN	LUDH	PANT	KANP	ZN 2
1	AH 2115	45.3	45.7	48.0	44.7	45.9	42.7	45.0	45.7	40.3	43.4	77.0	75.7	71.0	74.6	74.6	77.0	75.7	71.0	74.6	74.6	77.0	75.7	71.0	74.6	74.6
2	AH 2116	47.0	48.0	49.3	45.0	47.3	44.3	47.0	47.3	40.3	44.8	78.0	76.7	72.3	75.7	75.7	78.0	76.7	72.3	75.7	75.7	78.0	76.7	72.3	75.7	75.7
3	AH 2117	46.0	47.7	47.7	47.0	47.1	43.0	46.7	46.0	42.3	44.5	78.0	77.0	75.3	76.8	76.8	78.0	77.0	75.3	76.8	76.8	78.0	77.0	75.3	76.8	76.8
4	AH 2118	47.0	47.0	49.0	44.3	46.8	44.7	46.0	47.0	39.7	44.3	78.3	76.0	72.3	75.6	75.6	78.3	76.0	72.3	75.6	75.6	78.3	76.0	72.3	75.6	75.6
CHECKS																										
5	Vivek QPM 9	45.7	43.0	48.3	43.7	45.2	42.7	42.0	46.0	39.0	42.4	77.3	74.0	71.0	74.1	74.1	77.3	74.0	71.0	74.1	74.1	77.3	74.0	71.0	74.1	74.1
6	Vivek Hybrid 9	44.7	45.7	48.7	43.3	45.6	41.3	44.7	46.3	38.3	42.7	77.7	75.7	70.7	74.7	74.7	77.7	75.7	70.7	74.7	74.7	77.7	75.7	70.7	74.7	74.7
	Loc. Mean	45.9	46.2	48.5	44.7	46.3	43.1	45.2	46.4	40.0	43.7	77.7	75.8	72.1	75.2	75.2	77.7	75.8	72.1	75.2	75.2	77.7	75.8	72.1	75.2	75.2
	C.D. (5%)	2.48	1.29	2.13	0.74	1.55	2.57	1.44	2.39	1.00	1.56	1.31	1.10	1.47	1.59	1.59	1.31	1.10	1.47	1.59	1.59	1.31	1.10	1.47	1.59	1.59
	C.V. (%)	2.96	1.53	2.41	0.91	2.22	3.27	1.74	2.83	1.37	2.36	0.93	0.80	1.12	1.16	1.16	0.93	0.80	1.12	1.16	1.16	0.93	0.80	1.12	1.16	1.16
	F (Prob.)	0.31	0.00	0.54	0.00	0.05	0.13	0.00	0.62	0.00	0.02	0.31	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00	0.31	0.00	0.00	0.00	0.00

TABLE No.34 (Cont..)

Sl No	PEDIGREE	MOISTURE % AT HARVEST				ZN 2 Mean	PLANT HEIGHT (cm)				ZN 2 Mean	EAR HEIGHT (cm)				ZN 2 Mean
		KARN	LUDH	PANT	KANP		KARN	LUDH	PANT	KANP		KARN	LUDH	PANT	KANP	
1	AH 2115	31.2	26.2	24.0	15.0	24.1	196.7	198.3	214.7	74.3	171.0	96.7	101.7	94.7	186.3	119.8
2	AH 2116	29.6	30.6	23.0	15.0	24.5	195.0	205.0	230.0	86.7	179.2	91.7	100.0	117.3	196.0	126.3
3	AH 2117	30.5	25.7	18.3	15.0	22.4	225.0	191.7	217.7	86.7	180.3	103.3	103.3	102.7	194.7	126.0
4	AH 2118	28.9	27.9	21.1	15.0	23.2	200.0	193.3	249.0	75.0	179.3	101.7	95.0	115.3	190.3	125.6
	CHECKS															
5	Vivek QPM 9	30.0	28.2	24.8	15.0	24.5	205.0	183.3	218.7	79.3	171.6	100.0	85.0	92.0	181.0	114.5
6	Vivek Hybrid 9	29.4	27.5	19.8	15.0	22.9	193.3	180.0	228.0	80.0	170.3	93.3	81.7	96.0	164.0	108.8
	Loc. Mean	29.9	27.6	21.8	15.0	23.6	202.5	191.9	226.3	80.3	175.3	97.8	94.4	103.0	185.4	120.2
	C.D. (5%)	-	1.67	5.60	-	2.28	46.41	22.99	20.29	2.42	15.65	24.78	30.79	14.87	11.66	10.80
	C.V. (%)	-	3.32	14.10	-	6.41	12.60	6.58	4.93	1.65	5.93	13.93	17.92	7.94	3.46	5.96
	F (Prob.)	0.00	0.00	0.16	-	0.27	0.68	0.24	0.03	0.00	0.54	0.87	0.53	0.01	0.00	0.02
Sl No	PEDIGREE	GRAIN SHELLING %				ZN 2 Mean	STAND AT HARVEST ('000/ha)				ZN 2 Mean					
		KARN	LUDH	PANT	KANP		KARN	LUDH	PANT	KANP						
1	AH 2115	72.0	84.5	85.7	74.7	79.2	53.0	66.5	58.3	65.5	60.8					
2	AH 2116	70.0	84.1	88.9	74.0	79.3	39.3	62.9	61.7	61.3	56.3					
3	AH 2117	79.0	84.6	78.6	73.0	78.8	44.0	69.0	60.0	61.9	58.7					
4	AH 2118	78.0	84.7	85.7	75.3	80.9	43.5	70.8	58.9	64.9	59.5					
	CHECKS															
5	Vivek QPM 9	81.0	85.3	85.7	73.0	81.2	42.3	66.5	57.8	62.5	57.3					
6	Vivek Hybrid 9	80.0	85.5	83.3	74.0	80.7	56.5	70.2	57.8	62.5	61.8					
	Loc. Mean	76.7	84.8	84.7	74.0	80.0	46.4	67.7	59.1	63.1	59.1					
	C.D. (5%)	-	0.52	0.00	2.23	4.71	14.17	8.98	7.46	4.15	5.65					
	C.V. (%)	-	0.34	0.00	1.66	3.91	16.78	7.29	6.94	3.62	6.35					
	F (Prob.)	-	0.00	0.00	0.22	0.80	0.13	0.43	0.83	0.24	0.34					

TABLE No.35

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA IN ZONAL TRIAL No. TR502 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE Seed Tech-2324			
		UDAI		R		BANS		GODH		ZN 5		ZN 5	
		UDAI	R	BANS	R	GODH	R	MEAN	R	UDAI	BANS	GODH	MEAN
1	EH-2170	5769	7	5861	5	6203	3	5945	2	58	-	-	5
2	EH-2171	5713	8	5969	4	4816	12	5499	7	56	-	-	-
3	EH-2172	6065	3	6031	3	4382	17	5493	8	66	-	-	-
4	EH-2173	5853	6	5548	9	5770	6	5724	5	60	-	-	1
5	EH-2174	6529	2	5284	12	6042	4	5952	1	78	-	-	5
6	EH-2175	6536	1	5294	11	5863	5	5898	3	78	-	-	4
7	EH-2176	6019	4	4407	19	3486	21	4638	17	64	-	-	-
8	EH-2183	5960	5	4999	15	4796	13	5252	9	63	-	-	-
9	WH-2059	4634	13	4695	18	5234	10	4854	14	27	-	-	-
10	WH-2060	4463	16	3326	21	4666	14	4152	21	22	-	-	-
11	WH-2061	4370	18	4765	16	4258	18	4464	20	19	-	-	-
12	WH-2062	4850	10	5851	6	4168	19	4956	12	32	-	-	-
13	WH-2063	4151	20	5133	14	5286	8	4856	13	13	-	-	-
14	GWH-0512	4592	14	4762	17	4554	15	4636	18	25	-	-	-
15	GWH-0704	5258	9	3599	20	5047	11	4635	19	44	-	-	-
16	GYH-9842	4559	15	5722	7	4108	20	4796	16	24	-	-	-
17	GYH-0461	4771	11	5434	10	5276	9	5160	11	30	-	-	-
18	GYH-0652	4691	12	5274	13	4504	16	4823	15	28	-	-	-
CHECKS													
19	Seed Tech-2324	3663	21	6239	2	7074	1	5659	6	-	-	-	-
20	Malviya Hybrid-2	4271	19	6545	1	6744	2	5853	4	17	5	-	3
21	H.M.-9	4430	17	5583	8	5567	7	5193	10	21	-	-	-
	Location Mean	5102		5253		5135		5164					
	Mean Stand	37		29		32		33					
	C.D. (5%)	725		1764		903		1131					
	C.V. (%)	8.6		20		10.65		-					
	F (Prob)	0		0.213		0		-					
	Plot Size	4.8		4.8		4.8		-					
AGRONOMY DATA													
	Sowing Date	4-07		17-07		7-07		-					
	Harvest Date	12-10		24-10		15-10		-					
	Irrigation Nos	-		1		-		-					
	Fertilizer Applied N	90		120		100		-					
	Fertilizer Applied P	60		40		50		-					
	Fertilizer Applied K	-		-		50		-					

TABLE No.35 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Malviya Hybrid-2				GRAIN YIELD % SUPERIORITY OVER THE H.M.-9				DAYS TO 50% SILKING			
		UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS	GODH	ZN 5 Mean
1	EH-2170	35	-	-	2	30	5	11	14	54.7	47.5	49.0	50.4
2	EH-2171	34	-	-	-	29	7	-	6	50.0	46.7	46.7	47.8
3	EH-2172	42	-	-	-	37	8	-	6	52.0	45.7	51.7	49.8
4	EH-2173	37	-	-	-	32	-	4	10	53.0	46.3	51.0	50.1
5	EH-2174	53	-	-	2	47	-	9	15	52.3	47.7	49.0	49.7
6	EH-2175	53	-	-	1	48	-	5	14	53.3	47.3	52.3	51.0
7	EH-2176	41	-	-	-	36	-	-	-	51.0	46.3	49.0	48.8
8	EH-2183	40	-	-	-	35	-	-	1	50.3	47.3	45.7	47.8
9	WH-2059	9	-	-	-	5	-	-	-	51.0	45.7	47.7	48.1
10	WH-2060	5	-	-	-	1	-	-	-	52.3	45.7	48.0	48.7
11	WH-2061	2	-	-	-	-	-	-	-	52.3	46.0	48.3	48.9
12	WH-2062	14	-	-	-	9	5	-	-	51.0	46.3	45.3	47.6
13	WH-2063	-	-	-	-	-	-	-	-	51.0	46.7	46.7	48.1
14	GWH-0512	8	-	-	-	4	-	-	-	50.0	45.7	46.7	47.4
15	GWH-0704	23	-	-	-	19	-	-	-	50.7	46.7	47.3	48.2
16	GYH-9842	7	-	-	-	3	2	-	-	52.3	47.0	49.0	49.4
17	GYH-0461	12	-	-	-	8	-	-	-	52.3	47.3	50.0	49.9
18	GYH-0652	10	-	-	-	6	-	-	-	52.0	45.7	49.7	49.1
CHECKS													
19	Seed Tech-2324	-	-	5	-	-	12	27	9	56.3	46.0	52.7	51.7
20	Malviya Hybrid-2	-	-	-	-	-	17	21	13	52.3	47.3	49.0	49.6
21	H.M.-9	4	-	-	-	-	-	-	-	53.7	45.3	50.7	49.9
	Loc. Mean									52.1	46.5	48.8	49.1
	C.D. (5%)									1.61	1.45	2.98	2.10
	C.V. (%)									1.87	1.89	3.70	2.59
	F (Prob.)									0.00	0.02	0.00	0.01

TABLE No.35 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 75% DRY HUSK				MOISTURE % AT HARVEST				PLANT HEIGHT(cm)	
		UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS
1	EH-2170	52.0	44.5	49.3	48.6	87.7	80.5	83.3	83.8	15.7	16.2	19.3	17.1	146.7	178.1
2	EH-2171	47.7	44.0	42.7	44.8	84.3	79.7	77.3	80.4	14.9	16.8	18.7	16.8	155.0	193.9
3	EH-2172	49.0	42.7	48.3	46.7	86.3	79.0	82.7	82.7	15.1	17.0	17.1	16.4	178.3	182.2
4	EH-2173	50.3	43.0	48.0	47.1	87.7	79.7	81.7	83.0	16.0	17.0	16.8	16.6	208.3	190.1
5	EH-2174	49.3	44.0	46.7	46.7	86.3	81.3	80.7	82.8	16.1	17.1	17.1	16.7	170.0	201.3
6	EH-2175	51.7	44.0	49.7	48.4	87.0	80.3	83.7	83.7	15.0	15.7	18.0	16.2	196.7	220.5
7	EH-2176	48.3	42.7	44.7	45.2	86.7	78.0	80.0	81.6	17.1	15.8	19.0	17.3	156.7	217.0
8	EH-2183	47.0	43.7	42.3	44.3	86.3	79.3	76.7	80.8	17.1	15.7	13.8	15.5	178.3	203.8
9	WH-2059	48.3	43.0	44.0	45.1	85.7	79.0	78.7	81.1	15.0	16.7	19.2	17.0	203.3	170.7
10	WH-2060	50.0	42.0	43.0	45.0	86.0	78.7	79.7	81.4	15.4	16.7	17.1	16.4	156.7	177.2
11	WH-2061	49.7	42.3	45.3	45.8	86.3	78.7	79.7	81.6	16.0	17.2	16.3	16.5	161.7	172.3
12	WH-2062	47.7	30.0	40.7	39.4	86.3	79.0	76.0	80.4	16.2	16.7	15.5	16.1	170.0	195.5
13	WH-2063	48.3	43.0	42.0	44.4	85.0	81.0	77.3	81.1	14.8	17.2	18.5	16.8	166.7	198.9
14	GWH-0512	46.3	42.3	42.3	43.7	86.0	79.0	76.7	80.6	16.0	16.7	13.9	15.5	181.7	200.5
15	GWH-0704	48.3	43.7	42.7	44.9	85.3	78.3	77.7	80.4	16.0	42.2	17.1	25.1	191.7	213.9
16	GYH-9842	49.7	43.7	45.0	46.1	87.0	80.7	79.7	82.4	15.0	17.5	17.7	16.7	175.0	239.3
17	GYH-0461	50.3	43.7	46.0	46.7	85.7	81.3	81.7	82.9	17.0	17.3	16.3	16.9	163.3	222.4
18	GYH-0652	48.0	42.3	45.0	45.1	87.3	78.7	81.7	82.6	15.1	17.3	18.5	16.9	171.7	197.0
CHECKS															
19	Seed Tech-2324	54.0	42.0	50.0	48.7	89.3	78.0	84.3	83.9	15.0	16.8	18.7	16.8	173.3	175.4
20	Malviya Hybrid-2	49.7	44.0	45.0	46.2	86.3	80.3	80.7	82.4	16.1	16.7	17.8	16.8	150.0	190.6
21	H.M.-9	51.7	42.7	47.3	47.2	87.7	78.3	81.3	82.4	15.1	17.0	18.5	16.8	180.0	205.4
	Loc. Mean	49.4	42.5	45.2	45.7	86.5	79.5	80.0	82.0	15.7	18.0	17.4	17.0	173.1	197.4
	C.D. (5%)	2.11	8.44	2.81	3.20	2.44	3.14	3.10	2.45	0.45	9.41	1.63	5.63	13.26	37.26
	C.V. (%)	2.59	12.03	3.76	4.24	1.71	2.39	2.34	1.81	1.76	31.75	5.70	20.08	4.64	11.44
	F (Prob.)	0.00	0.47	0.00	0.00	0.10	0.53	0.00	0.06	0.00	0.00	0.00	0.55	0.00	0.03

TABLE No.35 (Cont..)

Sl No	PEDIGREE	PLANT HEIGHT(cm)		EAR HEIGHT(cm)		ZN 5		GRAIN SHELLING %			ZN 5		STAND AT HARVEST ('000/ha)			
		GODH	Mean	UDAI	BANS	GODH	Mean	UDAI	BANS	GODH	Mean	UDAI	BANS	GODH	Mean	
1	EH-2170	208.0	177.6	60.0	113.1	98.0	90.4	84.0	68.2	78.4	76.8	81.9	61.5	55.6	66.3	
2	EH-2171	163.7	170.8	70.0	113.9	82.7	88.9	83.0	69.6	84.4	79.0	74.3	59.7	54.2	62.7	
3	EH-2172	193.7	184.7	86.7	100.4	93.3	93.5	86.9	73.1	81.6	80.5	73.6	59.0	57.6	63.4	
4	EH-2173	184.3	194.3	101.7	99.0	84.0	94.9	86.3	69.1	75.3	76.9	77.8	60.4	56.9	65.0	
5	EH-2174	173.7	181.7	66.7	100.0	68.0	78.2	86.8	70.3	84.6	80.6	73.6	59.0	67.4	66.7	
6	EH-2175	203.7	206.9	103.3	116.7	105.0	108.3	84.1	66.2	80.0	76.8	77.1	59.7	59.7	65.5	
7	EH-2176	166.3	180.0	65.0	110.9	71.7	82.5	83.9	67.6	80.7	77.4	77.1	57.6	54.9	63.2	
8	EH-2183	167.3	183.2	86.7	110.5	81.3	92.8	83.9	69.6	83.6	79.0	77.8	61.1	72.9	70.6	
9	WH-2059	178.7	184.2	105.0	102.1	79.0	95.4	85.9	70.6	82.1	79.5	79.2	61.1	71.5	70.6	
10	WH-2060	158.3	164.1	68.3	102.2	66.7	79.1	86.2	36.4	80.4	67.7	77.1	60.4	73.6	70.4	
11	WH-2061	141.3	158.4	70.0	95.6	63.7	76.4	82.5	70.2	84.0	78.9	81.3	63.9	57.6	67.6	
12	WH-2062	164.0	176.5	73.3	97.1	72.3	80.9	85.2	68.7	79.9	77.9	75.0	59.0	64.6	66.2	
13	WH-2063	166.3	177.3	66.7	100.5	71.7	79.6	84.9	70.7	83.5	79.7	78.5	63.2	63.2	68.3	
14	GWH-0512	180.7	187.6	98.3	110.6	90.3	99.8	82.1	70.1	84.7	79.0	77.8	61.8	74.3	71.3	
15	GWH-0704	183.0	196.2	85.0	113.9	88.0	95.6	86.0	68.9	81.9	78.9	84.7	64.6	75.7	75.0	
16	GYH-9842	177.0	197.1	75.0	118.9	78.7	90.9	85.8	68.4	82.1	78.7	80.6	59.0	71.5	70.4	
17	GYH-0461	183.0	189.6	96.7	98.3	94.7	96.5	84.0	70.3	81.1	78.4	81.3	59.0	74.3	71.5	
18	GYH-0652	191.3	186.7	78.3	102.3	90.3	90.3	83.9	68.4	82.1	78.1	83.3	63.2	67.4	71.3	
CHECKS																
19	Seed Tech-2324	183.7	177.5	85.0	115.5	96.0	98.8	85.0	69.1	78.7	77.6	79.9	61.1	73.6	71.5	
20	Malviya Hybrid-2	166.3	169.0	60.0	99.9	79.7	79.9	83.6	70.1	81.8	78.5	72.9	56.9	75.7	68.5	
21	H.M.-9	175.7	187.0	86.7	104.6	84.3	91.9	85.4	70.4	76.2	77.3	72.9	61.1	60.4	64.8	
	Loc. Mean	176.7	182.4	80.4	106.0	82.8	89.7	84.7	67.9	81.3	78.0	78.0	60.6	65.8	68.1	
	C.D. (5%)	16.93	25.01	8.58	17.28	12.73	15.41	1.19	13.41	3.42	7.59	5.08	5.79	11.03	7.70	
	C.V. (%)	5.81	8.31	6.47	9.88	9.31	10.41	0.85	11.97	2.55	5.90	3.95	5.79	10.15	6.85	
	F (Prob.)	0.00	0.07	0.00	0.14	0.00	0.01	0.00	0.01	0.00	0.53	0.00	0.52	0.00	0.12	

TABLE No. 36

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, BANSWARA, GODHRA IN ZONAL TRIAL No. TR503 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE Prakash				GRAIN YIELD % SUPERIORITY OVER THE HM-9			
		UDAI	R	BANS	R	GODH	R	ZN 5 MEAN	R	UDAI	BANS	GODH	ZN 5 MEAN	UDAI	BANS	GODH	ZN 5 MEAN
1	EH-2177	4853	7	5378	1	3465	5	5115	2	42	2	-	18	40	5	-	19
2	EH-2178	5194	5	3846	10	1411	10	4520	8	52	-	-	4	50	-	-	5
3	EH-2179	5223	3	4844	6	1494	9	5034	3	53	-	-	16	50	-	-	17
4	EH-2180	5086	6	4843	7	4066	3	4964	4	49	-	-	15	46	-	-	16
5	EH-2181	5222	4	4167	8	4048	4	4694	5	53	-	-	8	50	-	-	9
6	EH-2182	5283	2	3965	9	2827	7	4624	7	55	-	-	7	52	-	-	8
7	EH-2184	5542	1	5314	2	1883	8	5428	1	62	1	-	25	60	4	-	27
8	EH-2185	4357	8	4940	5	3156	6	4649	6	28	-	-	7	25	-	-	8
CHECKS																	
9	Prakash	3410	10	5254	3	4815	1	4332	9	-	-	-	-	-	3	11	1
10	HM-9	3474	9	5101	4	4332	2	4287	10	2	-	-	-	-	-	-	-
	Location Mean	4764		4765		3150		4765									
	Mean Stand	37		29		29		33									
	C.D. (5%)	457		1595		1606		1026									
	C.V. (%)	5.57		19.43		29.59		-									
	F (Prob)	0		0.271		0		-									
	Plot Size	4.8		4.8		4.8		-									
AGRONOMY DATA																	
	Sowing Date	4-07		9-07		7-07		-									
	Harvest Date	11-10		23-10		15-10		-									
	Irrigation Nos	-		1		-		-									
	Fertilizer Applied N	90		120		100		-									
	Fertilizer Applied P	60		40		50		-									
	Fertilizer Applied K	-		-		50		-									

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : GODH 29.6 %

TABLE No. 36 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 50% POLLEN SHED				DAYS TO 75% DRY HUSK				MOISTURE % AT HARVEST			
		UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	GODH	ZN 5 Mean	
1	EH-2177	48.3	40.5	48.3	45.7	46.0	37.5	44.0	42.5	81.3	74.5	77.0	77.6	16.5	14.5	15.5	
2	EH-2178	50.3	40.7	50.0	47.0	47.7	37.7	47.0	44.1	85.7	75.3	77.3	79.4	15.9	15.3	15.6	
3	EH-2179	50.3	41.0	52.0	47.8	48.3	37.7	49.0	45.0	86.0	76.7	78.0	80.2	17.1	14.9	16.0	
4	EH-2180	52.7	42.0	52.0	48.9	50.3	39.0	48.3	45.9	86.7	75.3	81.0	81.0	16.0	15.2	15.6	
5	EH-2181	51.7	41.3	49.0	47.3	49.0	38.0	44.3	43.8	85.3	74.0	77.0	78.8	15.0	15.2	15.1	
6	EH-2182	52.3	41.0	53.0	48.8	43.3	38.0	49.7	43.7	85.7	75.0	81.0	80.6	14.1	15.2	14.7	
7	EH-2184	51.0	39.7	52.0	47.6	47.7	36.3	48.7	44.2	84.3	75.0	80.0	79.8	15.0	14.1	14.5	
8	EH-2185	51.7	41.0	50.3	47.7	48.3	38.0	47.0	44.4	83.7	73.3	77.7	78.2	16.0	15.2	15.6	
CHECKS																	
9	Prakash	52.3	39.7	49.7	47.2	50.3	36.7	46.3	44.4	85.0	75.3	78.0	79.4	15.6	14.8	15.2	
10	HM-9	51.7	40.0	49.0	46.9	48.7	37.0	44.3	43.3	84.0	74.0	78.3	78.8	16.5	14.6	15.5	
	Loc. Mean	51.2	40.7	50.5	47.5	48.0	37.6	46.9	44.1	84.8	74.9	78.5	79.4	15.7	14.9	15.3	
	C.D. (5%)	0.92	1.29	2.58	1.84	5.66	1.34	1.45	3.13	1.84	2.25	2.48	1.83	0.45	1.98	1.61	
	C.V. (%)	1.04	1.85	2.98	2.25	6.88	2.08	1.81	4.13	1.26	1.75	1.84	1.34	1.65	7.77	4.63	
	F (Prob.)	0.00	0.02	0.01	0.07	0.36	0.03	0.00	0.65	0.00	0.21	0.01	0.02	0.00	0.94	0.61	

Sl No	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				GRAIN SHELLING %				STAND AT HARVEST ('000/ha)			
		UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean	UDAI	BANS	GODH	ZN 5 Mean
1	EH-2177	198.3	165.4	144.7	169.5	96.7	68.2	52.7	72.5	83.0	72.1	83.1	79.4	75.0	66.7	75.7	72.5
2	EH-2178	178.3	173.9	144.7	165.6	76.7	68.9	48.7	64.7	86.4	71.5	67.6	75.1	77.8	61.1	70.1	69.7
3	EH-2179	178.3	180.6	131.3	163.4	83.3	87.3	43.0	71.2	85.8	69.6	80.6	78.6	76.4	54.9	36.1	55.8
4	EH-2180	161.7	190.7	167.0	173.1	65.0	95.5	68.7	76.4	85.3	70.3	83.6	79.7	77.1	57.6	72.2	69.0
5	EH-2181	185.0	193.7	153.7	177.4	96.7	100.2	63.0	86.6	88.0	67.7	85.3	80.3	77.8	61.1	66.0	68.3
6	EH-2182	198.3	201.9	158.3	186.2	93.3	105.3	65.3	88.0	85.9	67.7	77.5	77.0	79.9	61.8	47.2	63.0
7	EH-2184	198.3	203.9	153.7	185.3	101.7	93.9	54.7	83.4	87.0	69.9	81.8	79.6	79.9	58.3	64.6	67.6
8	EH-2185	178.3	184.0	139.3	167.2	86.7	83.8	48.3	72.9	84.0	70.8	82.6	79.1	78.5	61.1	44.4	61.3
CHECKS																	
9	Prakash	200.0	173.8	164.0	179.3	96.7	83.7	68.0	82.8	81.7	71.0	77.4	76.7	77.8	60.4	75.0	71.1
10	HM-9	196.7	195.6	168.0	186.8	100.0	105.9	69.7	91.9	83.4	72.1	86.2	80.6	78.5	54.2	61.1	64.6
	Loc. Mean	187.3	186.3	152.5	175.4	89.7	89.3	58.2	79.0	85.0	70.2	80.6	78.6	77.8	59.7	61.3	66.3
	C.D. (5%)	9.96	31.89	26.14	19.20	10.71	25.61	12.43	16.61	0.49	2.46	9.24	6.23	4.65	6.82	7.58	13.88
	C.V. (%)	3.10	9.98	9.99	6.38	6.96	16.73	12.45	12.25	0.34	2.05	6.69	4.62	3.48	6.66	7.21	12.21
	F (Prob.)	0.00	0.24	0.11	0.12	0.00	0.05	0.00	0.05	0.00	0.01	0.02	0.69	0.55	0.05	0.00	0.36

TABLE No. 37

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR IN ZONAL TRIAL No. TR511 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT15% MOISTURE		GRAIN YIELD % SUPERIORITY OVER THE HQPM-1	GRAIN YIELD % SUPERIORITY OVER THE Bio-9681	GRAIN YIELD % SUPERIORITY OVER THE JH-3459	GRAIN YIELD % SUPERIORITY OVER THE Navjot
		UDAI	R	UDAI	UDAI	UDAI	UDAI
1	EH-2205	1636	13	-	-	-	-
2	EH-2206	2113	11	-	-	-	4
3	EH-2207	2606	7	-	7	1	28
4	EH-2208	2609	6	-	7	1	28
5	EH-2209	2678	5	-	10	4	32
6	EH-2210	2413	10	-	-	-	19
7	EH-2211	2694	4	-	11	5	33
8	EHQ-63	2912	2	-	20	13	43
9	EHQ-64	2703	3	-	11	5	33
	CHECKS						
10	HQPM-1	3555	1	-	46	38	75
11	Bio-9681	2435	9	-	-	-	20
12	JH-3459	2575	8	-	6	-	27
13	Navjot	2031	12	-	-	-	-
	Location Mean	2535					
	Mean Stand	22					
	C.D. (5%)	796					
	C.V. (%)	18.58					
	F (Prob)	0					
	Plot Size	4.8					
	AGRONOMY DATA						
	Sowing Date	4-07					
	Harvest Date	9-10					
	Irrigation Nos	-					
	Fertilizer Applied N	90					
	Fertilizer Applied P	60					
	Fertilizer Applied K	-					

TABLE No. 37 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING UDAI	DAYS TO 50% POLLEN SHED UDAI	DAYS TO 75% DRY HUSK UDAI	MOISTURE % AT HARVEST UDAI	PLANT HEIGHT (cm) UDAI
1	EH-2205	54.3	53.3	84.3	16.1	168.3
2	EH-2206	54.7	53.0	83.0	15.5	205.0
3	EH-2207	54.0	53.0	83.3	16.8	181.7
4	EH-2208	52.7	49.7	80.3	15.0	195.0
5	EH-2209	52.0	49.7	80.7	13.5	185.0
6	EH-2210	53.7	52.7	81.0	15.9	173.3
7	EH-2211	52.7	51.7	83.0	16.3	158.3
8	EHQ-63	47.0	45.0	81.0	13.4	198.3
9	EHQ-64	54.3	53.0	81.0	16.3	200.0
CHECKS						
10	HQPM-1	56.7	55.7	90.0	18.1	181.7
11	Bio-9681	54.3	53.0	85.0	15.1	205.0
12	JH-3459	53.7	52.3	81.7	16.1	196.7
13	Navjot	53.7	51.0	82.7	17.0	171.7
	Loc. Mean	53.4	51.8	82.8	15.8	186.2
	C.D. (5%)	1.19	1.46	1.76	0.40	9.34
	C.V. (%)	1.33	1.68	1.26	1.50	2.98
	F (Prob.)	0.00	0.00	0.00	0.00	0.00
Sl No	PEDIGREE	EAR HEIGHT (cm) UDAI	GRAIN SHELLING % UDAI	STAND AT HARVEST ('000/ha) UDAI		
1	EH-2205	71.7	85.0	32.6		
2	EH-2206	100.0	84.9	52.8		
3	EH-2207	80.0	84.8	37.5		
4	EH-2208	93.3	83.3	53.5		
5	EH-2209	80.0	84.4	56.3		
6	EH-2210	83.3	88.2	53.5		
7	EH-2211	60.0	79.2	29.2		
8	EHQ-63	98.3	85.2	49.3		
9	EHQ-64	98.3	82.3	36.1		
CHECKS						
10	HQPM-1	75.0	84.9	68.1		
11	Bio-9681	100.0	82.2	44.4		
12	JH-3459	96.7	84.5	45.8		
13	Navjot	78.3	85.1	49.3		
	Loc. Mean	85.8	84.1	46.8		
	C.D. (5%)	6.59	0.62	11.02		
	C.V. (%)	4.56	0.44	13.97		
	F (Prob.)	0.00	0.00	0.00		

TABLE No. 38

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, GODHRA IN ZONAL TRIAL No. TR512 DURING KHARIF (2010).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE					
		UDAI		GODH		ZN 5 MEAN	
		R	R	R	R		
1	EH-2186	4755	6	3470	18	4113	11
2	EH-2187	4337	7	3538	16	3937	12
3	EH-2188	6454	1	5285	6	5870	1
4	EH-2189	4113	9	4454	9	4284	8
5	EH-2190	3620	14	3550	15	3585	16
6	EH-2191	5385	2	3706	14	4545	6
7	EH-2192	2112	23	1753	26	1932	28
8	EH-2193	3586	16	5935	2	4761	3
9	EH-2194	1207	29	4693	8	2950	22
10	EH-2195	5004	5	3828	13	4416	7
11	EH-2196	4166	8	4275	11	4220	9
12	EH-2197	3372	19	2088	25	2730	25
13	EH-2198	1603	26	4119	12	2861	24
14	EH-2199	2897	22	4349	10	3623	15
15	EH-2200	4056	10	6414	1	5235	2
16	EH-2201	3596	15	5557	4	4576	4
17	EH-2202	5064	4	1307	28	3186	19
18	EH-2203	5099	3	2268	24	3683	14

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha)				AT 15% MOISTURE	
		UDAI	R	GODH	R	MEAN	R
19	EH-2204	3808	11	2457	22	3132	20
20	EHQ-61	1240	28	1522	27	1381	29
21	EHQ-60	1851	25	2383	23	2117	27
22	EHQ-62	3278	21	2894	20	3086	21
23	EHQ-59	2104	24	5737	3	3920	13
	CHECKS						
24	HQPM-1	3283	20	2540	21	2912	23
25	Vivek Hybrid-9	1572	27	3234	19	2403	26
26	Bio-9681	3781	12	5313	5	4547	5
27	JH-3459	3621	13	4705	7	4163	10
28	Prakash	3448	17	3522	17	3485	17
29	HM-9	3423	18	-	-	3423	18
	Location Mean	3511		3746		3629	
	Mean Stand	29		33		31	
	C.D. (5%)	804		1002		903	
	C.V. (%)	14		16.33		-	
	F (Prob)	0		0		-	
	Plot Size	4.8		4.8		-	
	AGRONOMY DATA						
	Sowing Date	4-07		7-07		-	
	Harvest Date	8-10		15-10		-	
	Irrigation Nos	-		-		-	
	Fertilizer Applied N	90		100		-	
	Fertilizer Applied P	60		50		-	
	Fertilizer Applied K	-		50		-	

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1			GRAIN YIELD % SUPERIORITY OVER THE Vivek Hybrid-9			GRAIN YIELD % SUPERIORITY OVER THE Bio-9681			GRAIN YIELD % SUPERIORITY OVER THE JH-3459		
		UDAI	GODH	ZN 5 MEAN	UDAI	GODH	ZN 5 MEAN	UDAI	GODH	ZN 5 MEAN	UDAI	GODH	ZN 5 MEAN
1	EH-2186	45	37	41	202	7	71	26	-	-	31	-	-
2	EH-2187	32	39	35	176	9	64	15	-	-	20	-	-
3	EH-2188	97	108	102	311	63	144	71	-	29	78	12	41
4	EH-2189	25	75	47	162	38	78	9	-	-	14	-	3
5	EH-2190	10	40	23	130	10	49	-	-	-	-	-	-
6	EH-2191	64	46	56	243	15	89	42	-	-	49	-	9
7	EH-2192	-	-	-	34	-	-	-	-	-	-	-	-
8	EH-2193	9	134	64	128	84	98	-	12	5	-	26	14
9	EH-2194	-	85	1	-	45	23	-	-	-	-	-	-
10	EH-2195	52	51	52	218	18	84	32	-	-	38	-	6
11	EH-2196	27	68	45	165	32	76	10	-	-	15	-	1
12	EH-2197	3	-	-	115	-	14	-	-	-	-	-	-
13	EH-2198	-	62	-	2	27	19	-	-	-	-	-	-
14	EH-2199	-	71	24	84	34	51	-	-	-	-	-	-
15	EH-2200	24	153	80	158	98	118	7	21	15	12	36	26
16	EH-2201	10	119	57	129	72	90	-	5	1	-	18	10
17	EH-2202	54	-	9	222	-	33	34	-	-	40	-	-
18	EH-2203	55	-	27	224	-	53	35	-	-	41	-	-
19	EH-2204	16	-	8	142	-	30	1	-	-	5	-	-
20	EHQ-61	-	-	-	-	-	-	-	-	-	-	-	-
21	EHQ-60	-	-	-	18	-	-	-	-	-	-	-	-
22	EHQ-62	-	14	6	109	-	28	-	-	-	-	-	-
23	EHQ-59	-	126	35	34	77	63	-	8	-	-	22	-
CHECKS													
24	HQPM-1	-	-	-	109	-	21	-	-	-	-	-	-
25	Vivek Hybrid-9	-	27	-	-	-	-	-	-	-	-	-	-
26	Bio-9681	15	109	56	141	64	89	-	-	-	4	13	9
27	JH-3459	10	85	43	130	45	73	-	-	-	-	-	-
28	Prakash	5	39	20	119	9	45	-	-	-	-	-	-
29	HM-9	4	-	18	118	-	42	-	-	-	-	-	-

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE Prakash			GRAIN YIELD % SUPERIORITY OVER THE HM-9			DAYS TO 50% SILKING		
		UDAI	GODH	ZN 5 MEAN	UDAI	GODH	ZN 5 MEAN	UDAI	GODH	ZN 5 Mean
1	EH-2186	38	-	18	39	-	20	52.0	52.7	52.3
2	EH-2187	26	0	13	27	-	15	52.7	50.0	51.3
3	EH-2188	87	50	68	89	-	71	53.0	51.7	52.3
4	EH-2189	19	26	23	20	-	25	54.3	53.7	54.0
5	EH-2190	5	1	3	6	-	5	51.0	49.0	50.0
6	EH-2191	56	5	30	57	-	33	55.0	55.3	55.2
7	EH-2192	-	-	-	-	-	-	56.3	57.0	56.7
8	EH-2193	4	69	37	5	-	39	56.3	56.0	56.2
9	EH-2194	-	33	-	-	-	-	56.3	55.0	55.7
10	EH-2195	45	9	27	46	-	29	53.7	51.3	52.5
11	EH-2196	21	21	21	22	-	23	51.0	57.7	54.3
12	EH-2197	-	-	-	-	-	-	57.7	57.7	57.7
13	EH-2198	-	17	-	-	-	-	55.0	54.7	54.8
14	EH-2199	-	23	4	-	-	6	54.7	57.0	55.8
15	EH-2200	18	82	50	18	-	53	57.0	54.0	55.5
16	EH-2201	4	58	31	5	-	34	54.3	54.7	54.5
17	EH-2202	47	-	-	48	-	-	53.7	52.0	52.8
18	EH-2203	48	-	6	49	-	8	50.3	54.0	52.2
19	EH-2204	10	-	-	11	-	-	51.3	55.7	53.5
20	EHQ-61	-	-	-	-	-	-	54.0	49.3	51.7
21	EHQ-60	-	-	-	-	-	-	49.0	53.7	51.3
22	EHQ-62	-	-	-	-	-	-	53.7	49.3	51.5
23	EHQ-59	-	63	12	-	-	15	46.0	53.3	49.7
CHECKS										
24	HQPM-1	-	-	-	-	-	-	56.0	50.7	53.3
25	Vivek Hybrid-9	-	-	-	-	-	-	49.7	54.3	52.0
26	Bio-9681	10	51	30	10	-	33	52.3	50.7	51.5
27	JH-3459	5	34	19	6	-	22	53.0	50.7	51.8
28	Prakash	-	-	-	1	-	2	50.7	54.0	52.3
29	HM-9	-	-	-	-	-	-	55.7	-	55.7
Loc. Mean								53.3	51.6	53.4
C.D. (5%)								1.68	2.92	4.75
C.V. (%)								1.92	3.47	4.34
F (Prob.)								0.00	0.00	0.11

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST			PLANT HEIGHT (cm)		
		UDAI	GODH	ZN 5 Mean	UDAI	GODH	ZN 5 Mean	UDAI	GODH	ZN 5 Mean	UDAI	GODH	ZN 5 Mean
1	EH-2186	51.0	49.3	50.2	82.0	82.0	82.0	16.2	16.8	16.5	203.3	142.0	172.7
2	EH-2187	49.0	48.0	48.5	73.3	80.0	76.7	16.1	16.0	16.1	208.3	172.0	190.2
3	EH-2188	50.7	47.7	49.2	83.0	83.0	83.0	16.5	16.8	16.6	220.0	175.0	197.5
4	EH-2189	52.7	50.7	51.7	85.7	83.0	84.3	18.6	15.2	16.9	203.3	170.3	186.8
5	EH-2190	45.7	45.3	45.5	78.7	81.0	79.8	14.4	13.8	14.1	206.7	157.7	182.2
6	EH-2191	52.3	52.3	52.3	83.7	84.3	84.0	17.4	14.6	16.0	146.7	141.7	144.2
7	EH-2192	54.3	53.3	53.8	86.3	84.7	85.5	16.1	15.3	15.7	178.3	135.7	157.0
8	EH-2193	55.3	53.3	54.3	83.7	84.3	84.0	17.7	17.7	17.7	190.0	167.0	178.5
9	EH-2194	54.7	51.7	53.2	84.3	83.0	83.7	16.4	15.8	16.1	160.0	164.0	162.0
10	EH-2195	52.7	48.0	50.3	84.7	83.0	83.8	16.5	16.1	16.3	201.7	151.7	176.7
11	EH-2196	48.7	54.7	51.7	81.0	84.7	82.8	15.8	15.5	15.6	186.7	173.0	179.8
12	EH-2197	56.0	53.7	54.8	85.7	85.0	85.3	19.4	17.1	18.2	210.0	140.3	175.2
13	EH-2198	54.0	51.7	52.8	85.0	84.0	84.5	17.3	16.3	16.8	155.0	160.3	157.7
14	EH-2199	53.0	54.0	53.5	84.0	83.7	83.8	16.6	18.6	17.6	183.3	170.3	176.8
15	EH-2200	55.0	51.3	53.2	86.0	82.7	84.3	18.8	16.1	17.4	195.0	189.3	192.2
16	EH-2201	53.0	51.3	52.2	81.3	84.3	82.8	17.3	16.0	16.7	198.3	150.7	174.5
17	EH-2202	52.3	49.0	50.7	84.7	82.3	83.5	17.1	15.2	16.1	175.0	158.3	166.7
18	EH-2203	48.0	50.7	49.3	79.0	82.0	80.5	17.2	15.7	16.4	205.0	151.3	178.2
19	EH-2204	49.3	52.0	50.7	80.0	84.0	82.0	16.8	15.3	16.1	176.7	158.3	167.5
20	EHQ-61	53.0	45.7	49.3	81.7	82.0	81.8	13.9	15.7	14.8	156.7	116.3	136.5
21	EHQ-60	45.0	50.7	47.8	78.0	83.7	80.8	16.2	15.0	15.6	156.7	146.3	151.5
22	EHQ-62	52.0	46.0	49.0	83.0	80.0	81.5	17.3	14.4	15.8	210.0	138.0	174.0
23	EHQ-59	44.0	50.7	47.3	75.3	83.3	79.3	12.8	14.5	13.7	124.5	147.0	135.8
CHECKS													
24	HQPM-1	53.3	45.7	49.5	85.3	82.7	84.0	18.3	15.9	17.1	186.7	147.3	167.0
25	Vivek Hybrid-9	45.3	51.7	48.5	73.7	83.0	78.3	11.7	18.9	15.3	185.0	165.7	175.3
26	Bio-9681	49.7	47.3	48.5	83.0	81.7	82.3	16.3	15.3	15.8	188.3	158.0	173.2
27	JH-3459	51.3	47.7	49.5	83.3	83.0	83.2	16.2	16.1	16.1	168.3	150.0	159.2
28	Prakash	48.7	51.0	49.8	78.7	83.3	81.0	16.6	15.6	16.1	181.7	152.3	167.0
29	HM-9	52.3	-	52.3	84.7	-	84.7	16.6	-	16.6	186.7	-	186.7
	Loc. Mean	51.1	48.4	50.7	82.0	80.1	82.5	16.5	15.3	16.2	184.4	150.0	170.4
	C.D. (5%)	1.57	3.32	5.54	5.95	2.48	4.92	0.41	1.71	2.95	34.24	24.36	33.85
	C.V. (%)	1.87	4.19	5.33	4.43	1.89	2.91	1.52	6.82	8.90	11.35	9.93	9.70
	F (Prob.)	0.00	0.00	0.17	0.00	0.00	0.13	0.00	0.00	0.56	0.00	0.00	0.08

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
		UDAI	GODH	ZN 5 Mean	UDAI	GODH	Mean	UDAI	GODH	Mean
1	EH-2186	101.7	46.3	74.0	84.5	80.4	82.4	75.0	68.8	71.9
2	EH-2187	91.7	65.7	78.7	85.3	82.6	84.0	67.4	81.3	74.3
3	EH-2188	103.3	75.3	89.3	85.5	74.1	79.8	70.1	76.4	73.3
4	EH-2189	101.7	72.0	86.8	81.9	78.5	80.2	70.1	71.5	70.8
5	EH-2190	91.7	56.7	74.2	83.0	81.8	82.4	71.5	83.3	77.4
6	EH-2191	68.3	41.7	55.0	85.3	81.6	83.5	57.6	78.5	68.1
7	EH-2192	66.7	58.0	62.3	81.5	77.2	79.4	29.2	26.4	27.8
8	EH-2193	83.3	75.0	79.2	82.2	80.8	81.5	63.2	66.0	64.6
9	EH-2194	55.0	73.7	64.3	79.7	85.4	82.5	11.1	48.6	29.9
10	EH-2195	90.0	52.0	71.0	86.8	80.2	83.5	60.4	72.9	66.7
11	EH-2196	90.0	76.0	83.0	86.9	68.5	77.7	64.6	76.4	70.5
12	EH-2197	101.7	46.7	74.2	79.8	80.7	80.2	73.6	45.1	59.4
13	EH-2198	63.3	66.0	64.7	85.9	80.9	83.4	18.8	61.8	40.3
14	EH-2199	81.7	72.7	77.2	85.8	83.3	84.5	52.1	67.4	59.7
15	EH-2200	90.0	85.0	87.5	79.8	80.4	80.1	54.9	72.2	63.5
16	EH-2201	86.7	57.7	72.2	81.0	78.8	79.9	71.5	76.4	74.0
17	EH-2202	83.3	57.3	70.3	85.4	85.5	85.4	67.4	63.9	65.6
18	EH-2203	98.3	48.7	73.5	84.2	78.3	81.2	57.6	76.4	67.0
19	EH-2204	71.7	63.3	67.5	81.4	80.2	80.8	66.0	53.5	59.7
20	EHQ-61	63.3	30.3	46.8	79.6	80.9	80.3	42.4	77.8	60.1
21	EHQ-60	76.7	58.7	67.7	82.5	82.1	82.3	71.5	77.8	74.7
22	EHQ-62	85.0	51.7	68.3	82.3	81.9	82.1	58.3	73.6	66.0
23	EHQ-59	88.3	53.3	70.8	86.0	80.6	83.3	63.9	81.9	72.9
CHECKS										
24	HQPM-1	78.3	51.3	64.8	83.3	83.0	83.1	67.4	74.3	70.8
25	Vivek Hybrid-9	75.0	63.3	69.2	82.1	78.1	80.1	68.1	70.1	69.1
26	Bio-9681	75.0	68.7	71.8	85.5	81.9	83.7	56.9	71.5	64.2
27	JH-3459	91.7	72.7	82.2	83.9	85.4	84.6	68.1	74.3	71.2
28	Prakash	88.3	61.0	74.7	86.4	78.9	82.6	75.7	79.2	77.4
29	HM-9	86.7	-	86.7	83.3	-	83.3	76.4	-	76.4
	Loc. Mean	83.7	58.6	72.7	83.4	80.4	82.0	60.4	69.5	65.1
	C.D. (5%)	6.65	20.75	24.87	0.71	5.64	6.44	8.60	8.70	21.04
	C.V. (%)	4.86	21.64	16.71	0.52	4.44	3.84	8.71	7.92	15.78
	F (Prob.)	0.00	0.00	0.28	0.00	0.00	0.82	0.00	0.00	0.00

TABLE No. 39

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, GODHRA, CHHINDWARA IN ZONAL TRIAL No. TRZTQ-01 DURING KHARIF (2010)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD % SUPERIORITY OVER THE HQPM-1				GRAIN YIELD % SUPERIORITY OVER THE HQPM-5			
		UDAI	R	GODH	R	CHHI	R	ZN 5 MEAN	R	UDAI	GODH	CHHI	ZN 5 MEAN	UDAI	GODH	CHHI	ZN 5 MEAN
1	EHQ-51	2653	6	1310	12	5363	8	5363	8	6	-	-	-	-	-	-	-
2	EHQ-52	1755	12	2935	3	4386	12	4386	12	-	-	-	-	-	-	-	-
3	EHQ-53	2622	7	2245	6	4687	11	4687	11	5	-	-	-	-	-	-	-
4	EHQ-54	2907	4	1672	9	5791	5	5791	5	16	-	-	-	-	-	-	-
5	EHQ-55	2900	5	2192	8	5995	3	5995	3	16	-	-	-	-	-	-	-
6	EHQ-56	3213	1	1444	11	5973	4	5973	4	29	-	-	-	4	-	-	-
7	EHQ-57	3086	3	2463	5	5742	7	5742	7	24	-	-	-	-	-	-	-
8	EHQ-58	2407	10	2206	7	5764	6	5764	6	-	-	-	-	-	-	-	-
9	ECQ-02	2404	11	2656	4	5152	10	5152	10	-	-	-	-	-	-	-	-
10	ECQ-03	2496	8	1527	10	5338	9	5338	9	0	-	-	-	-	-	-	-
	CHECKS																
11	HQPM-1	2496	9	3181	2	6685	2	6685	2	-	-	-	-	-	-	-	-
12	HQPM-5	3101	2	3294	1	6811	1	6811	1	24	4	2	2	-	-	-	-
	Location Mean	2670		2260		5641		5641									
	Mean Stand	31		25		34		34									
	C.D. (5%)	1040		1017		748		748									
	C.V. (%)	22.94		26.5		7.81		-									
	F (Prob)	0.021		0		0.014		-									
	Plot Size	4.8		4.8		6		-									
	AGRONOMY DATA																
	Sowing Date	4-07		7-07		28-06		-									
	Harvest Date	9-10		15-01		28-10		-									
	Irrigation Nos	-		-		-		-									
	Fertilizer Applied N	90		100		120		-									
	Fertilizer Applied P	60		50		60		-									
	Fertilizer Applied K	-		50		40		-									

LOCATIONS REJECTED DUE TO HIGH C.V.(i.e.> 20%) : UDAI 22.9 %: GODH 26.5 %

TABLE No. 39 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 50% POLLEN SHED				DAYS TO 75% DRY HUSK				MOISTURE % AT HARVEST			
		UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean
1	EHQ-51	49.0	47.7	49.3	48.7	46.0	44.0	49.0	46.3	76.3	77.3	81.0	78.2	14.8	14.9	15.0	14.9
2	EHQ-52	52.3	50.0	50.0	50.8	50.7	47.7	50.0	49.4	80.3	79.0	85.3	81.6	14.9	15.7	16.3	15.6
3	EHQ-53	50.7	49.0	50.3	50.0	47.0	46.0	50.3	47.8	80.3	78.3	85.3	81.3	16.8	14.1	16.1	15.7
4	EHQ-54	51.0	49.3	51.0	50.4	50.0	45.7	51.0	48.9	79.0	79.0	86.7	81.6	14.6	15.9	16.3	15.6
5	EHQ-55	51.7	47.7	50.7	50.0	49.0	45.3	49.7	48.0	78.3	77.3	85.3	80.3	13.2	16.0	15.9	15.0
6	EHQ-56	51.0	49.3	50.3	50.2	47.7	45.7	49.0	47.4	80.3	78.7	87.0	82.0	14.7	14.7	15.9	15.1
7	EHQ-57	51.3	49.0	50.7	50.3	47.7	46.3	49.3	47.8	82.0	79.7	86.3	82.7	16.4	14.8	15.9	15.7
8	EHQ-58	51.7	51.3	52.7	51.9	49.0	48.3	51.3	49.6	77.7	79.7	85.3	80.9	12.4	14.7	17.3	14.8
9	ECQ-02	47.3	48.3	48.7	48.1	46.7	46.0	48.7	47.1	78.3	77.3	85.0	80.2	14.5	15.3	14.9	14.9
10	ECQ-03	54.3	50.3	52.7	52.4	53.0	49.0	51.7	51.2	85.7	79.7	89.0	84.8	16.5	13.8	18.7	16.3
CHECKS																	
11	HQPM-1	55.0	53.0	54.0	54.0	52.7	49.7	52.7	51.7	87.0	81.0	91.7	86.6	16.8	15.1	19.1	17.0
12	HQPM-5	55.7	52.7	55.0	54.4	54.3	49.3	55.0	52.9	86.3	82.0	90.0	86.1	16.4	16.4	17.9	16.9
	Loc. Mean	51.8	49.8	51.3	50.9	49.5	46.9	50.6	49.0	81.0	79.1	86.5	82.2	15.2	15.1	16.6	15.6
	C.D. (5%)	1.36	2.84	1.50	1.34	1.63	3.00	1.97	1.63	1.19	3.60	1.62	2.37	0.50	1.55	0.89	1.99
	C.V. (%)	1.55	3.37	1.73	1.56	1.94	3.78	2.30	1.96	0.87	2.68	1.11	1.70	1.94	6.04	3.18	7.53
	F (Prob.)	0.00	0.01	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.24	0.00	0.00	0.00	0.05	0.00	0.31

Sl No	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				GRAIN SHELLING %				STAND AT HARVEST ('000/ha)			
		UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean	UDAI	GODH	CHHI	ZN 5 Mean
1	EHQ-51	165.0	145.7	180.0	163.6	78.3	49.7	75.0	67.7	83.2	82.6	88.0	84.6	73.6	66.0	56.1	65.2
2	EHQ-52	170.0	125.3	216.7	170.7	75.0	37.3	88.3	66.9	78.9	83.5	81.8	81.4	62.5	32.6	52.2	49.1
3	EHQ-53	170.0	136.3	170.0	158.8	81.7	46.7	78.3	68.9	82.9	83.5	85.3	83.9	72.9	54.2	63.9	63.7
4	EHQ-54	163.3	153.3	231.7	182.8	75.0	57.7	91.7	74.8	83.3	80.0	84.5	82.6	53.5	59.7	59.4	57.5
5	EHQ-55	178.3	151.0	206.7	178.7	81.7	56.7	88.3	75.6	81.2	80.7	84.4	82.1	62.5	70.8	58.3	63.9
6	EHQ-56	170.0	154.7	190.0	171.6	76.7	55.0	85.0	72.2	83.2	81.6	84.9	83.2	79.9	65.3	58.9	68.0
7	EHQ-57	195.0	153.7	190.0	179.6	98.3	56.0	95.0	83.1	84.1	85.6	83.2	84.3	70.8	43.8	62.2	58.9
8	EHQ-58	180.0	162.7	190.0	177.6	78.3	57.0	90.0	75.1	77.9	82.8	85.9	82.2	62.5	48.6	45.6	52.2
9	ECQ-02	175.0	147.0	176.7	166.2	80.0	62.7	76.7	73.1	84.2	84.5	84.8	84.5	80.6	57.6	52.8	63.7
10	ECQ-03	165.0	131.7	205.0	167.2	70.0	52.7	90.0	70.9	82.7	73.6	80.0	78.8	51.4	47.9	50.0	49.8
CHECKS																	
11	HQPM-1	170.0	137.7	210.0	172.6	68.3	43.3	85.0	65.6	85.0	84.0	78.4	82.4	56.9	36.8	59.4	51.1
12	HQPM-5	183.3	166.7	223.3	191.1	86.7	71.7	111.7	90.0	82.8	79.2	81.2	81.1	45.1	34.7	52.8	44.2
	Loc. Mean	173.8	147.1	199.2	173.4	79.2	53.9	87.9	73.6	82.4	81.8	83.5	82.6	64.4	51.5	56.0	57.3
	C.D. (5%)	9.69	30.07	12.87	23.01	8.30	19.86	11.42	11.28	0.55	5.37	2.97	4.40	8.35	5.94	16.35	14.31
	C.V. (%)	3.29	12.07	3.82	7.84	6.20	21.77	7.67	9.05	0.40	3.88	2.10	3.15	7.66	6.81	17.25	14.75
	F (Prob.)	0.00	0.21	0.00	0.28	0.00	0.12	0.00	0.01	0.00	0.01	0.00	0.31	0.00	0.00	0.53	0.03

AGRONOMY

2010

Table	Contents	Page No.
	Title	
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Table 1: Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Zone II.

Main Plot	Sub Plot	Grain Yield (kg/ha)					
		N Levels	Genotypes	Delhi	Kanpur	Karnal	Ludhiana
100:50:50	PAC745		5156	6583	3844	5904	6468
	PMH 1		5156	7049	4252	5877	6592
	Seedtec 2324		5200	7500	4150	5696	5638
	BIO 9681		4978	7500	3605	4998	6592
150:65:65	PAC745		5822	7014	5136	5917	7587
	PMH 1		5911	7500	4082	6467	6219
	Seedtec 2324		5867	7708	4728	6833	7794
	BIO 9681		5644	7604	4864	5073	6924
200:80:80	PAC745		6311	7153	6361	6240	8955
	PMH 1		6356	7604	4456	6604	7421
	Seedtec 2324		6356	7986	7687	6865	7960
	BIO 9681		6133	7639	4966	5646	6592

Location mean	5740.7	7403.4	4517.4	6009.9	7061.9
C.D.(5%) AiBj-AiBk	353.5	472.8	503.8	625.1	1946.9
C.D.(5%) AiBk-AjBk	322.8	425.2	529.5	648.1	2452.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:50:50	5122	7158	3963	5619	6323
150:65:65	5811	7457	4702	6072	7131
200:80:80	6289	7595	5867	6339	7732

C.D.(5%) Ai-Aj	105.4	117.8	302.8	365.0	1813.8
C.V.(%) Error A	1.6	1.4	6.7	5.4	22.7
F(5%)	s	s	s	s	n.s.

PAC745	5763	6917	4711	6020	7670
PMH 1	5807	7384	4150	6316	6744
Seedtec 2324	5807	7731	5000	6465	7131
BIO 9681	5585	7581	4209	5239	6703

C.D.(5%)Bi-Bj	204.1	273.0	251.9	360.9	1124.0
C.V.(%)ErrorB	3.6	3.7	6.6	6.1	16.1
F(5%)	n.s.	s	s	s	n.s.

Cont....

A - 2

Main Plot	Sub Plot	Cob Yield (kg/ha)	Cob Yield with husk (Kg/ha)	Cob Yield without husk (Kg/ha)	Stover Yield (kg/ha)	
					Delhi	Pantnagar
N Levels	Genotypes	Kanpur	Pantnagar	Pantnagar	Delhi	Pantnagar
100:50:50	PAC745	8681	12106	10904	5422	14262
	PMH 1	9479	10821	10697	5911	14386
	Seedtec 2324	9792	11070	10033	6000	12231
	BIO 9681	9479	11982	11070	4756	13682
150:65:65	PAC745	8819	14096	12438	6978	14262
	PMH 1	9757	11899	10365	7378	12065
	Seedtec 2324	10069	12604	12852	7422	13350
	BIO 9681	9757	12189	10945	5867	12106
200:80:80	PAC745	9028	16086	14469	7867	14594
	PMH 1	10035	13516	12106	8222	13226
	Seedtec 2324	10278	14511	12728	8444	12645
	BIO 9681	9861	11650	10448	6756	13391

Location mean	9586.2	12710.8	11587.9	6751.9	13349.9
C.D.(5%) AiBj-AiBk	214.8	3398.4	3552.7	576.9	4042.8
C.D.(5%) AiBk-AjBk	210.6	4002.3	3492.6	553.3	4350.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	9358	11495	10676	5522	13640
150:65:65	9601	12697	11650	6911	12946
200:80:80	9800	13941	12438	7822	13464

C.D.(5%) Ai-Aj	101.3	2767.1	1696.1	244.2	2642.4
C.V.(%) Error A	0.9	19.2	12.9	3.2	17.5
F(5%)	s	n.s.	n.s.	s	n.s.

PAC745	8843	14096	12604	6756	14373
PMH 1	9757	12078	11056	7170	13226
Seedtec 2324	10046	12728	11871	7289	12742
BIO 9681	9699	11940	10821	5793	13060

C.D.(5%)Bi-Bj	124.0	1962.1	2051.1	333.1	2334.1
C.V.(%)ErrorB	1.3	15.6	17.9	5.0	17.7
F(5%)	s	n.s.	n.s.	s	n.s.

Cont....

A - 3

Main Plot	Sub Plot	Plant Stand (000/ha)					
		N Levels	Genotypes	Delhi	Kanpur	Karnal	Ludhiana
100:50:50	PAC745		64.0	58.7	49.7	83.0	69.7
	PMH 1		66.2	59.7	50.7	83.3	68.8
	Seedtec 2324		64.9	59.7	50.3	83.3	72.1
	BIO 9681		65.3	59.0	51.0	84.0	73.0
150:65:65	PAC745		65.8	59.0	50.3	84.0	63.8
	PMH 1		64.9	60.8	51.7	84.7	64.7
	Seedtec 2324		64.4	60.4	49.7	83.7	63.8
	BIO 9681		64.9	62.8	49.0	82.3	66.3
200:80:80	PAC745		66.2	60.1	51.4	83.0	68.0
	PMH 1		65.8	60.8	52.7	83.3	67.2
	Seedtec 2324		65.8	61.8	52.4	83.0	64.7
	BIO 9681		64.4	60.4	51.7	83.0	69.7

Location mean	65.2	60.3	50.9	83.4	67.6
C.D.(5%) AiBj-AiBk	2.1	3.0	3.9	2.7	9.7
C.D.(5%) AiBk-AjBk	2.4	3.0	5.8	2.7	9.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	65.1	59.3	50.4	83.4	70.9
150:65:65	65.0	60.8	50.2	83.7	64.7
200:80:80	65.6	60.8	52.0	83.1	67.4

C.D.(5%) Ai-Aj	1.6	1.5	4.8	1.4	3.4
C.V.(%) Error A	2.2	2.2	9.4	1.5	4.4
F(5%)	n.s.	n.s.	n.s.	n.s.	s

PAC745	65.3	59.3	50.8	83.3	67.2
PMH 1	65.6	60.4	51.0	83.8	66.9
Seedtec 2324	65.0	60.6	50.9	83.3	66.9
BIO 9681	64.9	60.8	50.9	83.1	69.7

C.D.(5%)Bi-Bj	1.2	1.7	1.9	1.5	5.6
C.V.(%)ErrorB	1.9	2.9	4.5	1.9	8.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Cont....

A - 4

Main Plot	Sub Plot	No. of cobs (000/ha)			Seed moisture at harvest (%)
		Delhi	Ludhiana	Pantnagar	Pantnagar
N Levels	Genotypes				
100:50:50	PAC745	64.0	82.6	63.0	24.7
	PMH 1	65.8	80.6	66.3	24.0
	Seedtec 2324	64.4	84.0	62.2	25.0
	BIO 9681	64.9	78.5	64.7	25.0
150:65:65	PAC745	65.3	84.7	59.7	24.0
	PMH 1	64.9	84.4	64.7	25.0
	Seedtec 2324	64.0	87.5	62.2	24.3
	BIO 9681	64.4	80.6	60.5	25.0
200:80:80	PAC745	64.9	85.1	62.2	24.0
	PMH 1	64.4	84.7	63.0	24.3
	Seedtec 2324	66.2	88.2	63.0	25.0
	BIO 9681	64.4	83.0	63.8	25.0

Location mean	64.8	83.7	62.9	24.6
C.D.(5%) AiBj-AiBk	2.0	6.3	8.9	1.7
C.D.(5%) AiBk-AjBk	2.4	6.0	8.5	1.7
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	64.8	81.4	64.1	24.7
150:65:65	64.7	84.3	61.8	24.6
200:80:80	65.0	85.2	63.0	24.6

C.D.(5%) Ai-Aj	1.6	2.6	3.7	0.8
C.V.(%) Error A	2.2	2.7	5.2	3.0
F(5%)	n.s.	s	n.s.	n.s.

PAC745	64.7	84.1	61.6	24.2
PMH 1	65.0	83.2	64.7	24.4
Seedtec 2324	64.9	86.6	62.5	24.8
BIO 9681	64.6	80.7	63.0	25.0

C.D.(5%)Bi-Bj	1.2	3.6	5.1	1.0
C.V.(%)ErrorB	1.8	4.4	8.2	4.1
F(5%)	n.s.	s	n.s.	n.s.

Cont....

A - 5

Main Plot	Sub Plot	Days to 50% Tasseling		Days to 50% Silking			Days to 75% Husk Brown	
		N Levels	Genotypes	Ludhiana	Pantnagar	Kanpur	Ludhiana	Pantnagar
100:50:50	PAC745		56.3	55.3	74.3	59.3	57.7	89.7
	PMH 1		56.3	55.0	76.3	59.3	57.3	89.0
	Seedtec 2324		57.3	54.7	76.0	60.7	57.0	92.3
	BIO 9681		54.0	52.0	77.3	57.0	56.7	89.7
150:65:65	PAC745		55.0	56.3	76.0	57.7	58.7	87.7
	PMH 1		55.3	56.7	76.7	58.0	59.0	87.7
	Seedtec 2324		55.7	57.3	76.7	59.0	59.7	91.7
	BIO 9681		53.7	52.0	76.0	55.7	56.3	89.3
200:80:80	PAC745		53.7	55.7	76.7	56.7	58.7	87.3
	PMH 1		55.0	55.3	76.0	57.3	58.3	87.3
	Seedtec 2324		54.7	56.0	76.7	58.3	58.7	89.7
	BIO 9681		52.3	53.3	76.3	55.0	56.3	88.7

Location mean	54.9	55.0	76.3	57.8	57.9	89.2
C.D.(5%) AiBj-AiBk	1.2	1.2	2.5	2.1	1.1	3.5
C.D.(5%) AiBk-AjBk	2.4	1.7	2.4	3.4	1.4	3.9
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

100:50:50	56.0	54.3	76.0	59.1	57.2	90.2
150:65:65	54.9	55.6	76.3	57.6	58.4	89.1
200:80:80	53.9	55.1	76.4	56.8	58.0	88.3

C.D.(5%) Ai-Aj	2.2	1.3	1.0	2.9	1.1	2.5
C.V.(%) Error A	3.5	2.1	1.2	4.4	1.7	2.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

PAC745	55.0	55.8	75.7	57.9	58.3	88.2
PMH 1	55.6	55.7	76.3	58.2	58.2	88.0
Seedtec 2324	55.9	56.0	76.4	59.3	58.4	91.2
BIO 9681	53.3	52.4	76.6	55.9	56.4	89.2

C.D.(5%)Bi-Bj	0.7	0.7	1.4	1.2	0.6	2.0
C.V.(%)ErrorB	1.2	1.3	1.9	2.1	1.1	2.3
F(5%)	s	s	n.s.	s	s	s

Cont....

A - 6

Main Plot	Sub Plot	Plant height (cm)					
		N Levels	Genotypes	Delhi	Kanpur	Karnal	Ludhiana
100:50:50	PAC745		203.7	161.7	200.0	185.7	255.7
	PMH 1		221.3	165.3	185.0	201.7	274.3
	Seedtec 2324		196.0	165.3	198.3	173.0	256.0
	BIO 9681		178.0	164.0	208.3	162.7	254.7
150:65:65	PAC745		213.3	169.3	200.0	190.0	248.7
	PMH 1		230.7	173.7	205.0	208.3	251.0
	Seedtec 2324		207.0	169.0	211.7	183.3	258.7
	BIO 9681		186.0	172.3	215.0	172.3	256.7
200:80:80	PAC745		219.7	175.3	215.0	195.0	247.3
	PMH 1		237.3	176.0	228.3	218.3	249.7
	Seedtec 2324		213.3	175.0	195.0	196.7	263.3
	BIO 9681		191.0	175.3	203.3	175.7	261.0

Location mean	208.1	170.2	204.1	188.6	256.4
C.D.(5%) AiBj-AiBk	7.1	4.2	12.1	9.5	26.4
C.D.(5%) AiBk-AjBk	6.3	4.3	14.0	12.3	25.6
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:50:50	199.8	164.1	197.9	180.8	260.2
150:65:65	209.3	171.1	207.9	188.5	253.8
200:80:80	215.3	175.4	210.4	196.4	255.3

C.D.(5%) Ai-Aj	1.4	2.3	9.3	9.2	11.8
C.V.(%) Error A	0.6	1.2	4.6	4.3	4.1
F(5%)	s	s	s	s	n.s.

PAC745	212.2	168.8	202.5	190.2	250.6
PMH 1	229.8	171.7	205.4	209.4	258.3
Seedtec 2324	205.4	169.8	202.1	184.3	259.3
BIO 9681	185.0	170.6	206.3	170.2	257.4

C.D.(5%)Bi-Bj	4.1	2.4	6.1	5.5	15.2
C.V.(%)ErrorB	2.0	1.4	3.5	2.9	6.0
F(5%)	s	n.s.	n.s.	s	n.s.

Cont....

A - 7

Main Plot	Sub Plot	Ear height (cm)		Cob length (cm)		Cob girth (cm)	
		Karnal	Ludhiana	Ludhiana	Pantnagar	Ludhiana	Pantnagar
N Levels	Genotypes						
100:50:50	PAC745	101.7	89.3	16.2	16.7	4.1	13.7
	PMH 1	100.0	105.0	17.1	16.3	4.3	13.9
	Seedtec 2324	103.3	80.0	16.9	16.3	4.3	14.5
	BIO 9681	115.0	73.3	15.7	17.3	4.2	14.3
150:65:65	PAC745	110.0	95.7	17.3	18.4	4.1	14.0
	PMH 1	105.0	106.7	17.8	16.7	4.4	13.6
	Seedtec 2324	103.3	96.7	17.3	16.3	4.3	14.3
	BIO 9681	110.0	70.0	16.3	17.2	4.2	14.7
200:80:80	PAC745	100.0	100.0	18.3	17.3	4.3	13.2
	PMH 1	101.7	115.0	17.9	16.7	4.4	13.3
	Seedtec 2324	83.3	101.7	18.6	17.1	4.4	15.4
	BIO 9681	118.3	73.3	16.8	16.0	4.3	13.3

Location mean	104.9	92.2	17.2	16.8	4.3	14.0
C.D.(5%) AiBj-AiBk	11.1	9.6	0.8	3.3	0.2	1.1
C.D.(5%) AiBk-AjBk	13.0	10.9	1.1	3.2	0.2	2.0
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	105.0	86.9	16.5	16.6	4.2	14.1
150:65:65	107.1	92.3	17.2	17.1	4.3	14.2
200:80:80	100.8	97.5	17.9	16.8	4.4	13.8

C.D.(5%) Ai-Aj	8.8	7.3	0.9	1.6	0.1	1.8
C.V.(%) Error A	8.4	7.0	4.4	8.1	1.6	11.1
F(5%)	n.s.	s	s	n.s.	s	n.s.

PAC745	101.7	95.0	17.2	17.4	4.2	13.6
PMH 1	104.6	108.9	17.6	16.5	4.4	13.6
Seedtec 2324	99.6	92.8	17.6	16.6	4.3	14.7
BIO 9681	113.8	72.2	16.3	16.8	4.2	14.1

C.D.(5%)Bi-Bj	5.5	5.5	0.5	1.9	0.1	0.6
C.V.(%)ErrorB	6.3	6.0	2.7	11.4	2.1	4.5
F(5%)	s	s	s	n.s.	s	s

A - 8

Table 2: Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Zone III.

Main Plot	Sub Plot	Grain yield (kg/ha)			Cob yield (Kg/ha)			
N Levels	Genotypes	Ambikapur	Bahraich	Ranchi	Ambikapur	Bhubaneswar	Dholi	Ranchi
100:50:50	X7B401	6084	5000	5836	7448	6701	7022	7216
	MCH 38	7634	5556	7457	9467	7396	6467	9023
	PMH 1	6210	5500	5965	7752	6458	6356	7900
	Seedtec 2324	6838	5056	6622	8457	7708	4889	7794
	BIO 9681	6461	4389	6228	8229	7083	3378	7947
150:65:65	X7B401	7362	7528	7172	9048	6979	7578	8543
	MCH 38	7882	6889	7810	9657	7674	6933	9615
	PMH 1	6670	7333	6450	8248	6979	6689	8202
	Seedtec 2324	7131	6944	7265	9010	7986	5422	9132
	BIO 9681	7257	6556	7063	9086	7500	4200	8791
200:80:80	X7B401	7613	8611	7437	9295	7118	8200	8952
	MCH 38	8263	8167	8020	10171	8090	7200	9761
	PMH 1	6733	8542	6516	8381	7431	6933	8374
	Seedtec 2324	8305	7667	7774	10229	8264	5778	9821
	BIO 9681	7362	7472	7172	9219	7847	4711	8764

Location mean	7187.0	6747.2	6985.8	8913.0	7414.4	6117.0	8655.6
C.D.(5%) AiBj-AiBk	960.1	437.8	1027.1	1211.0	372.2	269.4	1417.6
C.D.(5%) AiBk-AjBk	884.8	446.3	951.9	1119.8	351.6	295.0	1353.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.	s	n.s.

100:50:50	6645	5100	6422	8270	7069	5622	7976
150:65:65	7261	7050	7152	9010	7424	6164	8856
200:80:80	7655	8092	7384	9459	7750	6564	9134

C.D.(5%) Ai-Aj	220.4	220.5	257.4	293.6	116.7	174.8	487.4
C.V.(%) Error A	3.0	3.2	3.6	3.2	1.6	2.8	5.6
F(5%)	s	s	s	s	s	s	s

X7B401	7020	7046	6815	8597	6933	7600	8237
MCH 38	7926	6870	7762	9765	7720	6867	9466
PMH 1	6538	7125	6310	8127	6956	6659	8159
Seedtec 2324	7425	6556	7220	9232	7986	5363	8915
BIO 9681	7027	6139	6821	8844	7477	4096	8501

C.D.(5%)Bi-Bj	554.3	252.7	593.0	699.2	214.9	155.5	818.5
C.V.(%)ErrorB	7.9	3.8	8.7	8.1	3.0	2.6	9.7
F(5%)	s	s	s	s	s	s	s

Cont...

A - 9

Main Plot	Sub Plot	Plant Stand (000/ha)				
		N Levels	Genotypes	Ambikapur	Bahraich	Bhubaneswar
100:50:50	X7B401	67.4	75.7	69.8	76.0	65.3
	MCH 38	64.8	75.0	68.4	74.2	64.5
	PMH 1	55.4	79.2	69.1	71.6	64.5
	Seedtec 2324	65.5	77.1	68.4	72.2	66.7
	BIO 9681	62.1	77.1	69.1	74.2	62.0
150:65:65	X7B401	68.0	76.4	69.4	73.8	65.1
	MCH 38	69.0	76.4	69.4	71.6	65.8
	PMH 1	63.4	77.1	68.4	78.4	64.5
	Seedtec 2324	59.4	76.4	68.8	73.1	62.9
	BIO 9681	66.5	77.1	68.8	72.0	66.0
200:80:80	X7B401	62.9	74.3	68.1	73.8	62.7
	MCH 38	66.1	79.2	68.8	73.1	65.6
	PMH 1	61.1	79.9	69.8	75.6	64.7
	Seedtec 2324	65.1	81.3	69.8	74.7	67.3
	BIO 9681	65.1	80.6	67.7	74.4	64.9

Location mean	64.1	77.5	68.9	73.9	64.8
C.D.(5%) AiBj-AiBk	6.5	5.3	3.0	7.3	5.9
C.D.(5%) AiBk-AjBk	6.5	5.1	2.7	7.9	6.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	63.0	76.8	69.0	73.6	64.6
150:65:65	65.3	76.7	69.0	73.8	64.9
200:80:80	64.1	79.0	68.8	74.3	65.0

C.D.(5%) Ai-Aj	3.1	1.7	0.4	4.6	3.4
C.V.(%) Error A	4.8	2.2	0.6	6.1	5.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.

X7B401	66.1	75.5	69.1	74.5	64.4
MCH 38	66.6	76.9	68.9	73.0	65.3
PMH 1	60.0	78.7	69.1	75.2	64.5
Seedtec 2324	63.4	78.2	69.0	73.3	65.6
BIO 9681	64.6	78.2	68.5	73.6	64.3

C.D.(5%)Bi-Bj	3.8	3.1	1.7	4.2	3.4
C.V.(%)ErrorB	6.0	4.1	2.5	5.9	5.4
F(5%)	s	n.s.	n.s.	n.s.	n.s.

Cont...

A - 10

Main Plot	Sub Plot	No. of Cobs (000/ha)			
		N Levels	Genotypes	Ambikapur	Bahraich
100:50:50	X7B401	64.4	75.7	80.0	62.9
	MCH 38	60.4	75.7	82.7	59.0
	PMH 1	54.9	79.2	84.4	57.4
	Seedtec 2324	64.8	77.1	82.4	63.3
	BIO 9681	60.4	77.1	86.2	59.0
150:65:65	X7B401	65.3	75.7	91.1	63.8
	MCH 38	66.5	76.4	84.9	64.9
	PMH 1	60.2	77.8	80.7	62.3
	Seedtec 2324	58.5	77.1	85.1	57.1
	BIO 9681	64.6	77.1	79.3	63.1
200:80:80	X7B401	60.8	75.0	84.2	60.1
	MCH 38	64.4	79.2	84.0	63.6
	PMH 1	58.5	82.6	82.0	61.9
	Seedtec 2324	61.3	81.3	87.6	64.9
	BIO 9681	63.4	81.9	87.8	62.7

Location mean	61.9	77.9	84.2	61.7
C.D.(5%) AiBj-AiBk	7.0	5.1	9.0	6.9
C.D.(5%) AiBk-AjBk	7.2	4.8	8.3	7.1
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	61.0	76.9	83.2	60.3
150:65:65	63.0	76.8	84.2	62.2
200:80:80	61.7	80.0	85.1	62.6

C.D.(5%) Ai-Aj	3.7	1.7	1.9	3.7
C.V.(%) Error A	5.9	2.1	2.3	5.9
F(5%)	n.s.	s	n.s.	n.s.

X7B401	63.5	75.5	85.1	62.3
MCH 38	63.7	77.1	83.9	62.5
PMH 1	57.8	79.9	82.4	60.5
Seedtec 2324	61.5	78.5	85.0	61.8
BIO 9681	62.8	78.7	84.4	61.6

C.D.(5%)Bi-Bj	4.0	2.9	5.2	4.0
C.V.(%)ErrorB	6.7	3.9	6.3	6.6
F(5%)	s	s	n.s.	n.s.

Cont...

A - 11

Main Plot	Sub Plot	Plant height (cm)					
		N Levels	Genotypes	Ambikapur	Bahraich	Bhubaneswar	Dholi
100:50:50	X7B401		239.9	153.7	198.3	132.3	223.0
	MCH 38		263.7	161.3	174.6	130.6	245.2
	PMH 1		232.3	164.0	205.9	152.8	216.0
	Seedtec 2324		262.3	153.3	182.9	126.8	243.9
	BIO 9681		236.7	162.3	173.6	116.6	220.1
150:65:65	X7B401		249.0	172.3	222.5	130.9	239.0
	MCH 38		255.8	176.7	190.7	131.6	245.5
	PMH 1		237.1	180.7	212.0	140.7	227.6
	Seedtec 2324		264.1	176.0	181.9	120.5	253.5
	BIO 9681		241.2	193.3	177.3	113.8	231.5
200:80:80	X7B401		253.8	203.3	216.8	144.7	246.1
	MCH 38		279.3	206.7	186.6	140.1	270.8
	PMH 1		246.1	216.7	217.7	152.3	238.7
	Seedtec 2324		260.5	218.3	181.1	136.9	252.6
	BIO 9681		242.5	201.7	176.8	126.7	235.1

Location mean	251.0	182.7	193.2	133.1	239.3
C.D.(5%) AiBj-AiBk	18.8	4.3	8.5	17.4	20.4
C.D.(5%) AiBk-AjBk	21.0	4.9	12.7	18.1	21.9
F(5%)	n.s.	s	s	n.s.	n.s.

100:50:50	247.0	158.9	187.1	131.8	229.6
150:65:65	249.5	179.8	196.9	127.5	239.4
200:80:80	256.4	209.3	195.8	140.1	248.7

C.D.(5%) Ai-Aj	13.0	3.0	10.3	9.5	12.3
C.V.(%) Error A	5.1	1.6	5.3	7.0	5.1
F(5%)	n.s.	s	n.s.	s	s

X7B401	247.6	176.4	212.5	136.0	236.0
MCH 38	266.3	181.6	184.0	134.1	253.9
PMH 1	238.5	187.1	211.8	148.6	227.4
Seedtec 2324	262.3	182.6	182.0	128.1	250.0
BIO 9681	240.1	185.8	175.9	119.0	228.9

C.D.(5%)Bi-Bj	10.9	2.5	4.9	10.0	11.8
C.V.(%)ErrorB	4.5	1.4	2.6	7.8	5.1
F(5%)	s	s	s	s	s

Cont...

A - 12

Main Plot	Sub Plot	Cob placement (cm)		Days to 50% Silking		
		Ambikapur	Ranchi	Bahraic	Bhubaneswar	Dholi
100:50:50	X7B401	91.3	89.4	59.0	56.0	56.3
	MCH 38	101.5	99.4	57.0	57.7	54.0
	PMH 1	92.5	90.6	58.0	57.3	55.7
	Seedtec 2324	106.8	104.6	55.0	57.3	55.7
	BIO 9681	78.5	76.9	55.7	55.3	58.3
150:65:65	X7B401	91.9	92.9	57.0	53.7	54.7
	MCH 38	102.9	104.1	55.0	57.3	53.3
	PMH 1	100.8	101.9	55.7	56.0	57.0
	Seedtec 2324	107.9	109.1	53.7	58.0	55.3
	BIO 9681	71.9	72.7	54.0	54.0	55.7
200:80:80	X7B401	90.9	91.9	53.3	55.3	53.7
	MCH 38	110.2	111.5	53.0	57.7	54.0
	PMH 1	113.7	115.0	54.0	56.0	56.0
	Seedtec 2324	103.6	104.8	52.0	57.3	55.3
	BIO 9681	81.1	82.0	52.3	55.0	54.7

Location mean	96.4	96.5	55.0	56.3	55.3
C.D.(5%) AiBj-AiBk	15.2	12.7	0.5	1.3	2.6
C.D.(5%) AiBk-AjBk	20.9	16.0	0.5	1.7	2.6
F(5%)	n.s.	n.s.	s	n.s.	n.s.

100:50:50	94.1	92.2	56.9	56.7	56.0
150:65:65	95.1	96.2	55.1	55.8	55.2
200:80:80	99.9	101.0	52.9	56.3	54.7

C.D.(5%) Ai-Aj	16.2	11.5	0.3	1.3	1.3
C.V.(%) Error A	16.6	11.7	0.5	2.3	2.3
F(5%)	n.s.	n.s.	s	n.s.	n.s.

X7B401	91.3	91.4	56.4	55.0	54.9
MCH 38	104.9	105.0	55.0	57.6	53.8
PMH 1	102.3	102.5	55.9	56.4	56.2
Seedtec 2324	106.1	106.2	53.6	57.6	55.4
BIO 9681	77.2	77.2	54.0	54.8	56.2

C.D.(5%)Bi-Bj	8.8	7.4	0.3	0.8	1.5
C.V.(%)ErrorB	9.4	7.8	0.5	1.4	2.8
F(5%)	s	s	s	s	s

Cont...

A - 13

Main Plot	Sub Plot	Cob girth (Cm)		Cob length (cm)		No. of rows/cob	
		Ambikapur	Ranchi	Ambikapur	Ranchi	Ambikapur	Ranchi
100:50:50	X7B401	14.6	14.1	16.0	15.2	13.3	13.1
	MCH 38	15.0	14.6	17.2	16.2	14.5	14.0
	PMH 1	13.9	13.5	14.4	13.8	13.7	13.3
	Seedtec 2324	14.3	13.9	16.5	15.6	13.5	13.2
	BIO 9681	14.0	13.6	16.9	16.1	13.7	13.3
150:65:65	X7B401	14.8	15.0	16.7	16.5	13.3	13.6
	MCH 38	15.1	15.2	17.7	17.5	14.9	14.9
	PMH 1	14.2	14.4	14.7	14.7	13.9	14.1
	Seedtec 2324	15.2	15.3	17.3	17.1	14.5	14.1
	BIO 9681	14.3	14.5	16.5	16.3	13.9	14.3
200:80:80	X7B401	14.9	15.2	16.9	16.8	13.7	14.1
	MCH 38	15.3	15.6	18.5	18.3	15.2	15.5
	PMH 1	13.9	14.2	15.6	15.6	14.0	14.4
	Seedtec 2324	15.2	15.4	16.7	16.7	13.6	14.4
	BIO 9681	14.5	14.8	16.5	16.5	14.5	14.7

Location mean	14.6	14.6	16.5	16.2	14.0	14.1
C.D.(5%) AiBj-AiBk	0.7	1.3	1.9	1.7	1.3	1.5
C.D.(5%) AiBk-AjBk	0.7	1.2	2.0	1.8	1.2	1.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	14.4	14.0	16.2	15.4	13.7	13.4
150:65:65	14.7	14.9	16.6	16.4	14.1	14.2
200:80:80	14.8	15.1	16.8	16.8	14.2	14.6

C.D.(5%) Ai-Aj	0.3	0.3	1.1	0.9	0.3	0.4
C.V.(%) Error A	1.9	1.8	6.3	5.7	2.3	3.1
F(5%)	s	s	n.s.	s	s	s

X7B401	14.8	14.8	16.5	16.2	13.5	13.6
MCH 38	15.1	15.1	17.8	17.4	14.9	14.8
PMH 1	14.0	14.1	14.9	14.7	13.9	14.0
Seedtec 2324	14.9	14.9	16.8	16.5	13.8	13.9
BIO 9681	14.3	14.3	16.7	16.3	14.0	14.1

C.D.(5%)Bi-Bj	0.4	0.8	1.1	1.0	0.7	0.9
C.V.(%)ErrorB	3.0	5.3	6.8	6.4	5.4	6.2
F(5%)	s	n.s.	s	s	s	n.s.

Cont...

A - 14

Main Plot	Sub Plot	No. of kernels/row		100 Grain weight (g)		Shelling %	
		Ambikapur	Ranchi	Ambikapur	Ranchi	Ambikapur	Ranchi
100:50:50	X7B401	35.2	32.8	34.2	35.5	81.5	81.4
	MCH 38	38.9	35.4	37.9	36.8	80.5	82.6
	PMH 1	33.3	31.1	32.3	34.0	79.9	75.5
	Seedtec 2324	38.1	34.6	37.1	34.7	80.8	85.0
	BIO 9681	34.1	31.8	33.1	32.5	78.6	78.5
150:65:65	X7B401	38.1	37.1	38.1	35.9	81.2	84.1
	MCH 38	39.0	38.3	39.0	38.0	81.2	81.3
	PMH 1	32.3	32.4	32.3	34.7	81.0	78.7
	Seedtec 2324	37.5	36.9	37.5	36.8	79.2	79.8
	BIO 9681	35.1	34.3	35.1	35.9	79.9	80.3
200:80:80	X7B401	38.8	38.6	39.8	36.5	82.0	83.2
	MCH 38	39.2	39.3	40.2	39.8	81.2	82.2
	PMH 1	33.9	33.5	34.9	35.1	80.2	77.8
	Seedtec 2324	36.8	37.1	37.8	38.1	81.1	79.3
	BIO 9681	34.7	34.8	35.7	36.0	79.7	82.2

Location mean	36.3	35.2	36.3	36.0	80.5	80.8
C.D.(5%) AiBj-AiBk	3.3	3.4	3.3	3.0	2.3	6.4
C.D.(5%) AiBk-AjBk	3.4	3.8	3.4	2.9	2.7	6.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	35.9	33.1	34.9	34.7	80.3	80.6
150:65:65	36.4	35.8	36.4	36.3	80.5	80.8
200:80:80	36.7	36.7	37.7	37.1	80.8	80.9

C.D.(5%) Ai-Aj	1.8	2.3	1.8	1.0	1.8	3.0
C.V.(%) Error A	4.8	6.5	4.8	2.7	2.2	3.7
F(5%)	n.s.	s	s	s	n.s.	n.s.

X7B401	37.4	36.2	37.4	36.0	81.5	82.9
MCH 38	39.1	37.7	39.1	38.2	81.0	82.0
PMH 1	33.2	32.3	33.2	34.6	80.4	77.3
Seedtec 2324	37.5	36.2	37.5	36.5	80.4	81.4
BIO 9681	34.6	33.6	34.6	34.8	79.4	80.3

C.D.(5%)Bi-Bj	1.9	2.0	1.9	1.8	1.4	3.7
C.V.(%)ErrorB	5.3	5.7	5.3	5.0	1.7	4.7
F(5%)	s	s	s	s	s	s

A - 15

Table 2 (a): Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Varanasi Zone III.

Main Plot	Sub Plot	Grain yield (kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Ear height (cm)	No. of barren plants (000/ha)
N Levels	Genotypes	Varanasi							
150:60:60	X7B401	7100	65.0	65.6	50.3	53.3	216.3	122.3	0.6
	MCH 38	8344	65.6	68.3	48.7	53.7	203.3	114.3	0.6
	PMH 1	6978	65.6	65.6	50.0	53.0	226.7	129.3	0.0
	Seedtec 2324	6728	66.1	66.1	50.0	53.7	197.7	116.0	0.6
	BIO 9681	6356	66.7	70.6	48.3	52.7	194.3	84.0	1.1
200:75:75	X7B401	8089	66.7	69.4	48.3	51.0	229.0	133.0	0.0
	MCH 38	7517	65.0	67.2	48.3	52.0	216.3	121.3	0.6
	PMH 1	7250	63.9	63.3	50.0	53.0	230.7	137.3	1.1
	Seedtec 2324	6850	66.7	67.8	51.0	54.0	205.0	122.7	0.0
	BIO 9681	7050	66.7	65.6	48.0	51.3	201.3	88.0	1.7
250:90:90	X7B401	8361	65.6	67.2	48.0	52.3	241.0	134.7	0.6
	MCH 38	8511	66.7	85.0	47.7	52.0	222.0	120.0	0.0
	PMH 1	6789	63.3	67.2	50.0	53.0	233.0	136.0	0.6
	Seedtec 2324	6972	65.0	65.0	49.7	53.0	206.0	121.0	1.1
	BIO 9681	7544	64.4	63.9	47.3	52.3	199.7	95.3	0.6
300:105:105	X7B401	8572	65.6	72.2	48.0	52.3	232.3	131.3	0.0
	MCH 38	8050	65.0	73.3	48.7	52.7	222.0	125.3	0.0
	PMH 1	7172	63.9	67.2	49.0	52.0	229.3	131.0	0.6
	Seedtec 2324	7128	66.1	67.8	50.7	54.0	203.3	122.0	0.0
	BIO 9681	7194	65.0	65.0	46.7	51.7	202.3	92.7	0.6

Location mean	7427.8	65.4	68.2	48.9	52.7	215.6	118.9	0.5
C.D.(5%) AiBj-AiBk	1041.6	2.9	6.6	2.0	2.1	11.5	8.8	1.4
C.D.(5%) AiBk-AjBk	1217.6	3.6	7.0	2.3	2.2	13.7	10.1	1.6
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.

150:60:60	7101	65.8	67.2	49.5	53.3	207.7	113.2	0.6
200:75:75	7351	65.8	66.7	49.1	52.3	216.5	120.5	0.7
250:90:90	7636	65.0	69.7	48.5	52.5	220.3	121.4	0.6
300:105:105	7623	65.1	69.1	48.6	52.5	217.9	120.5	0.2

C.D.(5%) Ai-Aj	791.5	2.4	3.7	1.5	1.3	9.1	6.3	1.0
C.V.(%) Error A	11.9	4.1	6.2	3.4	2.7	4.7	6.0	215.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

X7B401	8031	65.7	68.6	48.7	52.3	229.7	130.3	0.3
MCH 38	8106	65.6	73.5	48.3	52.6	215.9	120.3	0.3
PMH 1	7047	64.2	65.8	49.8	52.8	229.9	133.4	0.6
Seedtec 2324	6919	66.0	66.7	50.3	53.7	203.0	120.4	0.4
BIO 9681	7036	65.7	66.3	47.6	52.0	199.4	90.0	1.0
C.D.(5%)Bi-Bj	520.8	1.5	3.3	1.0	1.0	5.8	4.4	0.7
C.V.(%)ErrorB	8.4	2.7	5.8	2.4	2.4	3.2	4.5	166.7
F(5%)	s	n.s.	s	s	s	s	s	n.s.

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Table 3: Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Zone IV.

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob yield (Kg/ha)		
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur
100:50:50	PFMH- 9737	8344	4800	7411	9722	6580	9069
	PAC745	11378	5163	7717	14278	7280	9650
	MCH 38	8356	5467	7847	10167	7347	9789
	PMH 1	8953	5883	6019	10833	7847	7558
	Seedtec 2324	9850	7177	7006	12111	9022	8586
	BIO 9681	7771	6403	7094	9306	8500	8675
150:65:65	PFMH- 9737	6894	4963	8164	8194	6995	9939
	PAC745	11668	5516	8217	14167	7730	10211
	MCH 38	10213	6404	8856	12139	7960	11033
	PMH 1	8115	6418	7756	10139	8593	9631
	Seedtec 2324	9904	7593	7856	11528	9332	9761
	BIO 9681	7549	6643	8672	9056	8469	10672
200:80:80	PFMH- 9737	6686	5334	8442	8000	7186	10325
	PAC745	10543	5643	8775	12944	7870	10961
	MCH 38	10321	6597	9344	12500	8468	11636
	PMH 1	8596	6718	8108	10278	8450	10086
	Seedtec 2324	9893	7647	8386	11694	9453	10342
	BIO 9681	7653	7108	9456	9083	8848	11739

Location mean	8708.2	6193.2	8062.5	10462.3	8107.3	9981.3
C.D.(5%) AiBj-AiBk	970.6	543.0	609.5	1017.7	613.6	804.2
C.D.(5%) AiBk-AjBk	1048.6	544.7	784.8	1104.8	631.2	1003.9
F(5%)	s	n.s.	n.s.	s	n.s.	n.s.

100:50:50	8909	5816	7182	10877	7763	8888
150:65:65	8689	6256	8253	10425	8180	10208
200:80:80	8790	6508	8752	10520	8379	10848

C.D.(5%) Ai-Aj	547.4	233.0	566.3	584.2	300.2	701.3
C.V.(%) Error A	8.3	4.1	7.6	7.4	4.0	7.6
F(5%)	n.s.	s	s	n.s.	s	s

PFMH- 9737	7235	5032	8006	8549	6920	9778
PAC745	11596	5441	8236	14139	7627	10274
MCH 38	9541	6156	8682	11472	7925	10819
PMH 1	8525	6340	7294	10299	8297	9092
Seedtec 2324	9522	7472	7749	11382	9269	9563
BIO 9681	7086	6718	8407	8472	8606	10362

C.D.(5%)Bi-Bj	485.3	313.5	351.9	508.9	354.3	464.3
C.V.(%)ErrorB	6.8	5.3	4.5	5.9	4.5	4.8
F(5%)	s	s	s	s	s	s

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Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Straw yield (kg/ha)			
			Hyderabad	Arbhavi	Hyderabad	Kolhapur
100:50:50	PFMH- 9737	5278	5420	62.2	60.0	64.4
	PAC745	8306	5994	64.4	61.9	66.1
	MCH 38	6306	4939	65.6	61.5	65.6
	PMH 1	6333	6160	58.3	58.3	63.1
	Seedtec 2324	6333	7955	64.4	62.2	63.1
	BIO 9681	4806	7900	64.7	58.3	64.2
150:65:65	PFMH- 9737	4500	6181	65.8	60.2	63.1
	PAC745	8972	6206	66.1	57.6	66.4
	MCH 38	7944	5751	62.5	61.9	65.3
	PMH 1	5667	7643	60.0	63.5	66.4
	Seedtec 2324	6889	8742	66.7	62.8	65.6
	BIO 9681	4583	8717	62.2	59.3	66.1
200:80:80	PFMH- 9737	4611	6418	65.0	62.4	65.6
	PAC745	7833	6736	62.5	60.7	65.3
	MCH 38	7444	6517	65.3	58.1	65.0
	PMH 1	6111	7967	62.2	59.4	61.7
	Seedtec 2324	6222	9323	70.3	58.1	65.6
	BIO 9681	4222	9129	58.1	60.4	66.4

Location mean	5936.5	7094.4	63.7	60.4	64.9
C.D.(5%) AiBj-AiBk	550.1	720.9	6.5	2.1	3.5
C.D.(5%) AiBk-AjBk	615.7	735.1	8.8	2.3	4.4
F(5%)	s	n.s.	n.s.	s	n.s.

100:50:50	6151	6395	63.1	60.4	64.4
150:65:65	6282	7207	64.3	60.9	65.5
200:80:80	5984	7682	63.5	59.9	64.9

C.D.(5%) Ai-Aj	350.2	338.0	6.4	1.3	3.0
C.V.(%) Error A	7.8	5.1	13.4	2.4	5.0
F(5%)	s	s	n.s.	n.s.	n.s.

PFMH- 9737	4778	6007	62.7	60.9	64.4
PAC745	8167	6312	65.7	60.1	65.9
MCH 38	6813	5736	64.7	60.5	65.3
PMH 1	6056	7257	60.7	60.4	63.7
Seedtec 2324	6153	8673	66.5	61.0	64.7
BIO 9681	5194	8582	63.3	59.3	65.6

C.D.(5%)Bi-Bj	275.1	416.2	3.2	1.2	2.0
C.V.(%)ErrorB	5.6	6.1	6.2	2.1	3.3
F(5%)	s	n.s.	s	n.s.	n.s.

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Main Plot	Sub Plot	No. of Cob (000/ha)			Plant height (cm)			
		N Levels	Genotypes	Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad
100:50:50	PFMH- 9737		62.2	54.3	66.1	190.0	208.0	199.7
	PAC745		68.6	55.4	67.5	192.7	196.7	203.0
	MCH 38		63.3	60.6	66.7	186.2	190.0	202.0
	PMH 1		62.5	62.0	64.4	195.0	226.7	202.0
	Seedtec 2324		65.0	55.2	64.2	175.0	201.7	201.0
	BIO 9681		62.8	59.3	65.3	175.3	195.0	189.7
150:65:65	PFMH- 9737		64.4	58.1	63.9	195.0	214.3	204.7
	PAC745		64.7	58.5	68.1	197.0	205.7	203.7
	MCH 38		58.1	60.6	69.4	179.7	206.3	205.3
	PMH 1		63.6	62.8	67.8	203.0	229.0	207.0
	Seedtec 2324		62.5	60.9	65.8	184.0	207.0	205.0
	BIO 9681		58.9	58.5	68.3	169.0	203.0	198.7
200:80:80	PFMH- 9737		62.5	58.9	67.2	199.6	217.7	208.7
	PAC745		62.2	60.0	67.2	187.7	210.3	205.3
	MCH 38		63.1	61.1	65.6	191.6	209.7	205.3
	PMH 1		61.7	62.6	61.7	196.3	230.0	210.3
	Seedtec 2324		66.4	60.9	66.4	189.3	212.7	210.0
	BIO 9681		59.7	58.1	68.1	175.1	209.0	203.7

Location mean	63.0	59.3	66.3	186.3	209.6	203.6
C.D.(5%) AiBj-AiBk	4.5	2.7	5.0	10.0	15.6	6.2
C.D.(5%) AiBk-AjBk	5.0	2.7	4.7	10.0	14.7	7.1
F(5%)	s	s	n.s.	s	n.s.	n.s.

100:50:50	63.8	57.8	65.7	184.6	203.0	199.6
150:65:65	62.5	59.9	67.2	187.0	210.9	204.1
200:80:80	62.1	60.3	66.0	190.0	214.9	207.2

C.D.(5%) Ai-Aj	2.8	1.2	0.9	3.8	3.9	4.3
C.V.(%) Error A	5.8	2.2	1.5	2.7	2.0	2.3
F(5%)	n.s.	s	s	s	s	s

PFMH- 9737	62.5	57.1	65.7	193.5	213.3	204.3
PAC745	65.2	58.0	67.6	193.4	204.2	204.0
MCH 38	61.9	60.7	67.2	185.9	202.0	204.2
PMH 1	62.8	62.5	64.6	197.1	228.6	206.4
Seedtec 2324	64.0	59.0	65.5	180.7	207.1	205.3
BIO 9681	62.7	58.6	67.2	179.1	202.3	197.3

C.D.(5%)Bi-Bj	2.3	1.6	2.9	5.0	9.0	3.6
C.V.(%)ErrorB	4.4	2.7	4.6	3.3	4.5	1.8
F(5%)	s	s	n.s.	s	s	s

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Main Plot	Sub Plot	Cob placement (cm)	Days to 50% Tasseling		Days to 50% Silking	Shelling (%)	
			Hyderabad	Kolhapur		Hyderabad	Arbhavi
N Levels	Genotypes	Arbhavi	Hyderabad	Kolhapur	Hyderabad	Arbhavi	Hyderabad
100:50:50	PFMH- 9737	78.3	63.7	59.0	65.7	85.6	72.9
	PAC745	103.0	66.0	58.0	68.0	82.5	71.2
	MCH 38	100.7	67.3	58.7	69.3	83.7	74.1
	PMH 1	112.0	67.7	57.3	69.7	83.3	75.3
	Seedtec 2324	94.0	68.0	58.0	69.7	83.0	79.6
	BIO 9681	84.7	68.7	56.7	70.3	82.8	75.4
150:65:65	PFMH- 9737	87.3	64.7	59.0	67.0	85.3	70.9
	PAC745	97.0	66.3	57.3	69.0	83.6	71.5
	MCH 38	89.1	68.3	58.3	70.7	86.2	80.4
	PMH 1	112.7	67.7	56.7	69.3	81.1	74.6
	Seedtec 2324	97.3	68.7	57.3	71.3	85.5	79.3
	BIO 9681	81.3	69.0	56.0	71.3	83.9	77.8
200:80:80	PFMH- 9737	93.0	64.7	57.3	66.7	85.3	74.2
	PAC745	94.7	66.7	56.7	68.7	82.3	72.1
	MCH 38	106.0	68.0	57.3	70.3	85.0	77.9
	PMH 1	108.0	69.0	56.3	71.3	85.3	78.5
	Seedtec 2324	105.7	68.7	56.0	70.7	86.7	80.0
	BIO 9681	77.5	69.3	55.7	71.3	83.6	77.4

Location mean	94.6	67.4	57.3	69.5	84.2	75.7
C.D.(5%) AiBj-AiBk	7.4	1.0	0.7	1.2	4.7	6.5
C.D.(5%) AiBk-AjBk	8.2	1.0	0.7	1.1	4.6	6.1
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	95.2	66.9	57.9	68.8	83.1	74.7
150:65:65	94.5	67.4	57.4	69.8	84.2	75.8
200:80:80	96.6	67.7	56.6	69.8	84.8	76.7

C.D.(5%) Ai-Aj	4.5	0.4	0.1	0.3	1.7	1.4
C.V.(%) Error A	6.3	0.6	0.2	0.5	2.7	2.0
F(5%)	n.s.	s	s	s	n.s.	s

PFMH- 9737	87.4	64.3	58.4	66.4	85.3	72.7
PAC745	97.9	66.3	57.3	68.6	83.7	71.6
MCH 38	95.6	67.9	58.1	70.1	85.0	77.5
PMH 1	111.8	68.1	56.8	70.1	84.0	76.1
Seedtec 2324	99.0	68.4	57.1	70.6	84.9	79.6
BIO 9681	90.7	69.0	56.1	71.0	83.8	76.9

C.D.(5%)Bi-Bj	3.7	0.6	0.4	0.7	2.3	3.7
C.V.(%)ErrorB	4.8	0.9	0.8	1.0	3.4	5.1
F(5%)	s	s	s	s	n.s.	s

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Table 3(a): Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Karimnagar Zone IV.

Main Plot (N levels)	Sub Plot (Genotypes)	Grain yield (kg/ha)	Plant Height (cm)	Cob length (cm)	Cob girth (cm)	No. of rows/cob	Shelling (%)	100 grain wt (g)
F ₁	PFMH- 9737	5743	181.0	17.2	15.9	14.1	73.8	32.7
	PAC745	6599	173.3	18.5	14.9	14.2	75.1	33.4
	MCH 38	5993	184.7	16.2	14.1	13.6	73.3	30.0
	PMH 1	7225	196.7	18.6	15.9	14.7	80.3	36.0
	Seedtec 2324	6245	178.7	16.1	15.8	14.1	73.0	37.0
	BIO 9681	6650	191.0	17.9	15.8	14.1	74.6	36.7
F ₂	PFMH- 9737	5141	204.7	17.0	15.6	14.1	72.3	32.0
	PAC745	6071	187.3	18.1	14.5	13.2	72.5	31.5
	MCH 38	5023	191.3	16.0	14.0	13.2	72.0	29.3
	PMH 1	6314	197.0	18.2	15.8	14.5	75.3	34.7
	Seedtec 2324	5157	187.7	16.0	15.3	13.7	71.0	35.3
	BIO 9681	5627	194.7	17.3	15.7	14.1	72.8	36.0
F ₃	PFMH- 9737	4345	191.0	16.4	15.3	13.5	71.5	30.7
	PAC745	4337	168.3	15.4	14.4	12.2	72.0	30.0
	MCH 38	4493	182.7	16.0	13.9	11.9	71.8	28.7
	PMH 1	5082	193.3	18.1	15.5	14.2	72.3	33.3
	Seedtec 2324	4659	185.3	15.3	15.2	12.8	68.9	32.4
	BIO 9681	4915	176.3	17.3	15.4	12.9	72.1	31.3
F ₄	PFMH- 9737	3508	180.3	16.1	14.5	12.2	69.0	30.7
	PAC745	4296	163.3	15.2	14.1	12.3	70.9	28.0
	MCH 38	3772	165.3	14.6	13.7	11.6	70.4	27.0
	PMH 1	4745	177.7	16.9	15.1	13.4	71.8	31.3
	Seedtec 2324	3872	169.0	15.2	14.9	12.2	65.0	30.0
	BIO 9681	4451	169.0	15.7	14.7	12.5	71.0	31.3

Location mean	5177.6	182.9	16.6	15.0	13.3	72.2	32.1
C.D.(5%) AiBj-AiBk	1485.0	19.7	1.8	1.2	1.5	7.5	6.6
C.D.(5%) AiBk-AjBk	1482.0	22.8	2.0	1.4	1.6	7.1	6.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F1	6409	184.2	17.4	15.4	14.1	75.0	34.3
F2	5555	193.8	17.1	15.1	13.8	72.7	33.1
F3	4639	182.8	16.4	15.0	12.9	71.5	31.1
F4	4107	170.8	15.6	14.5	12.4	69.7	29.7

C.D.(5%) Ai-Aj	606.9	14.2	1.1	0.9	0.7	2.0	2.6
C.V.(%) Error A	14.4	9.5	8.1	7.3	6.3	3.4	9.9
F(5%)	s	s	s	n.s.	s	s	s

PFMH- 9737	4684	189.3	16.7	15.3	13.5	71.6	31.5
PAC745	5326	173.1	16.8	14.5	13.0	72.6	30.7
MCH 38	4820	181.0	15.7	13.9	12.6	71.9	28.8
PMH 1	5841	191.2	17.9	15.6	14.2	74.9	33.8
Seedtec 2324	4983	180.2	15.6	15.3	13.2	69.5	33.7
BIO 9681	5411	182.8	17.1	15.4	13.4	72.6	33.8
C.D.(5%)Bi-Bj	742.5	9.9	0.9	0.6	0.8	3.7	3.3
C.V.(%)ErrorB	17.4	6.5	6.7	4.7	7.0	6.3	12.4
F(5%)	s	s	s	s	s	n.s.	s

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Table 4: Relative performance of pre-release germplasm of Full Season at different levels of Nitrogen during Kharif 2010 at Zone V

Main Plot	Sub Plot	Grain Yield (kg/ha)				Cob Yield (kg/ha)	Fodder Yield (kg/ha)
		Banswara	Chhindwara	Godhra	Udaipur		
N Levels	Genotypes					Banswara	Godhra
100:50:50	X7B401	8175	4670	5480	3730	11028	6711
	PAC745	7414	5674	5813	3282	9664	7333
	PHS-520247	6528	3644	4689	5234	9028	5867
	PMH 1	6433	4144	4487	1906	9528	5667
	Seedtec 2324	6219	5007	4776	1265	8542	6044
	BIO 9681	7083	5267	5456	1716	9306	6844
150:65:65	X7B401	9208	5319	6880	4033	12306	8622
	PAC745	8397	6063	7671	3638	11167	9578
	PHS-520247	6633	5233	5604	5498	10000	7022
	PMH 1	7442	5530	5071	2013	9944	6356
	Seedtec 2324	7197	5248	5862	1410	10083	7378
	BIO 9681	7428	5478	6536	1814	10278	8178
200:80:80	X7B401	9967	5652	7984	4133	13333	17822
	PAC745	9092	6437	8504	3731	11167	10644
	PHS-520247	6986	5548	5882	5520	9583	7422
	PMH 1	7600	5552	6113	1910	10111	7644
	Seedtec 2324	7442	5844	6716	1418	10306	8444
	BIO 9681	7694	5630	7451	1822	10375	9378

Location mean	7607.7	5330.0	6165.3	3003.9	10319.3	8164.2
C.D.(5%) AiBj-AiBk	1670.4	756.6	709.0	316.1	1347.4	5432.7
C.D.(5%) AiBk-AjBk	1677.7	1009.1	759.4	393.2	1626.6	5938.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	6975	4735	5117	2855	9516	6411
150:65:65	7718	5478	6271	3068	10630	7856
200:80:80	8130	5777	7109	3089	10813	10226

C.D.(5%) Ai-Aj	722.5	751.9	409.1	269.7	1091.4	3362.8
C.V.(%) Error A	10.3	15.2	7.2	12.7	11.4	44.5
F(5%)	s	s	s	n.s.	n.s.	n.s.

X7B401	9117	5214	6781	3965	12222	11052
PAC745	8301	6058	7330	3550	10666	9185
PHS-520247	6716	4809	5392	5417	9537	6770
PMH 1	7158	5075	5224	1943	9861	6556
Seedtec 2324	6953	5367	5784	1364	9644	7289
BIO 9681	7402	5458	6481	1784	9986	8133

C.D.(5%)Bi-Bj	964.4	436.8	409.3	182.5	777.9	3136.6
C.V.(%)ErrorB	13.2	8.5	6.9	7.4	7.8	39.9
F(5%)	s	s	s	s	s	n.s.

Cont...

A - 23

Main Plot	Sub Plot	Plant Stand (000/ha)				No. of cobs (000/ha)		
		Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Udaipur
100:50:50	X7B401	65.3	63.0	58.9	58.7	82.5	60.7	57.3
	PAC745	65.3	64.4	59.6	54.7	78.6	63.0	53.3
	PHS-520247	66.1	60.0	57.1	56.0	73.1	55.2	54.7
	PMH 1	65.8	62.6	55.8	56.7	76.9	58.9	46.0
	Seedtec 2324	63.6	64.8	59.3	56.2	76.1	63.3	43.3
	BIO 9681	66.1	63.7	58.7	56.2	78.3	61.1	45.3
150:65:65	X7B401	66.7	65.2	59.6	57.3	86.1	64.8	57.5
	PAC745	66.1	64.4	60.0	53.3	82.2	65.2	53.3
	PHS-520247	66.4	63.3	56.7	54.7	77.2	61.9	54.0
	PMH 1	66.7	65.2	56.4	56.0	81.1	61.9	45.3
	Seedtec 2324	66.7	64.4	59.1	55.3	80.8	64.1	42.7
	BIO 9681	66.7	63.7	59.1	55.3	81.4	61.1	42.7
200:80:80	X7B401	66.7	65.2	59.1	56.7	86.7	65.2	56.3
	PAC745	66.7	64.8	60.9	53.3	83.1	65.9	53.3
	PHS-520247	66.1	64.4	56.7	54.0	78.6	63.0	53.3
	PMH 1	66.7	64.8	56.9	54.7	82.2	63.3	44.2
	Seedtec 2324	66.4	64.4	59.8	54.8	81.4	64.4	41.3
	BIO 9681	66.7	63.7	59.6	54.7	82.5	64.8	41.3

Location mean	66.1	64.0	58.5	55.5	80.5	62.7	49.2
C.D.(5%) AiBj-AiBk	2.4	2.5	2.0	4.2	11.0	4.3	4.2
C.D.(5%) AiBk-AjBk	2.3	2.5	2.1	4.4	11.0	4.7	5.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	65.4	63.1	58.2	56.4	77.6	60.4	50.0
150:65:65	66.5	64.4	58.5	55.3	81.5	63.1	49.3
200:80:80	66.5	64.6	58.8	54.7	82.4	64.4	48.3

C.D.(5%) Ai-Aj	0.7	1.1	1.0	2.2	4.7	2.7	3.3
C.V.(%) Error A	1.2	1.9	1.8	5.7	6.4	4.6	9.5
F(5%)	s	s	n.s.	n.s.	n.s.	s	n.s.

X7B401	66.2	64.4	59.2	57.6	85.1	63.6	57.1
PAC745	66.0	64.6	60.1	53.8	81.3	64.7	53.3
PHS-520247	66.2	62.6	56.8	54.9	76.3	60.0	54.0
PMH 1	66.4	64.2	56.4	55.8	80.1	61.4	45.2
Seedtec 2324	65.6	64.6	59.4	55.4	79.4	64.0	42.4
BIO 9681	66.5	63.7	59.1	55.4	80.7	62.3	43.1

C.D.(5%)Bi-Bj	1.4	1.4	1.2	2.4	6.3	2.5	2.4
C.V.(%)ErrorB	2.2	2.3	2.1	5.3	8.2	4.1	6.0
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s	s

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A - 24

Main Plot	Sub Plot	Plant height (cm)				Days to 50% Silking			No. of PFSR affected plant/plot	Shelling (%)
		Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Godhra		
100:50:50	X7B401	270.0	270.0	180.7	180.1	77.7	60.4	61.0	19.0	76.2
	PAC745	250.0	254.4	167.0	200.4	74.3	60.7	62.7	11.3	69.8
	PHS-520247	277.7	292.2	187.0	208.2	77.3	63.3	63.3	2.8	72.5
	PMH 1	271.0	283.3	165.7	178.4	75.7	58.5	62.0	25.0	83.6
	Seedtec 2324	271.0	248.9	166.7	180.8	78.0	61.1	60.0	31.8	68.3
	BIO 9681	274.0	241.1	183.0	187.1	77.3	58.5	60.0	31.8	79.5
150:65:65	X7B401	281.7	276.3	182.7	184.4	77.7	60.4	61.7	21.0	77.4
	PAC745	265.0	280.0	172.0	203.4	74.3	60.4	63.3	11.8	63.3
	PHS-520247	280.0	293.3	187.0	210.8	77.7	63.3	64.7	5.3	73.8
	PMH 1	275.0	285.2	176.7	181.8	76.0	58.1	62.7	28.8	83.6
	Seedtec 2324	272.7	253.0	165.0	185.1	77.7	60.7	61.3	35.5	68.7
	BIO 9681	275.0	248.5	185.7	186.7	78.0	58.5	61.0	31.0	80.5
200:80:80	X7B401	282.3	276.7	186.0	186.2	78.0	58.9	62.7	23.0	76.5
	PAC745	267.3	284.4	189.0	203.8	75.0	60.4	64.3	13.8	64.1
	PHS-520247	281.3	294.1	189.7	211.3	79.0	57.4	65.0	7.0	75.3
	PMH 1	273.3	289.6	179.7	182.8	79.0	57.4	63.0	29.8	83.7
	Seedtec 2324	273.3	254.4	169.0	187.4	78.0	60.4	62.3	40.0	69.2
	BIO 9681	280.7	250.4	187.7	187.0	79.7	58.1	62.0	35.0	81.6

Location mean	273.4	270.9	178.9	191.4	77.2	59.8	62.4	22.4	74.9
C.D.(5%) AiBj-AiBk	8.2	12.2	13.7	7.5	1.2	1.1	1.4	3.1	6.5
C.D.(5%) AiBk-AjBk	9.0	13.3	16.4	11.1	1.4	1.1	1.3	3.6	8.0
F(5%)	n.s.	n.s.	n.s.	n.s.	s	s	n.s.	n.s.	n.s.

100:50:50	268.9	265.0	175.0	189.2	76.7	60.4	61.5	20.3	75.0
150:65:65	274.9	272.7	178.2	192.0	76.9	60.2	62.4	22.2	74.5
200:80:80	276.4	274.9	183.5	193.1	78.1	58.8	63.2	24.8	75.1

C.D.(5%) Ai-Aj	5.1	7.5	11.0	8.8	0.8	0.4	0.2	2.3	5.4
C.V.(%) Error A	2.0	3.0	6.6	6.5	1.2	0.8	0.4	14.4	10.3
F(5%)	s	s	n.s.	n.s.	s	s	s	s	n.s.

X7B401	278.0	274.3	183.1	183.6	77.8	59.9	61.8	21.0	76.7
PAC745	260.8	273.0	176.0	202.5	74.6	60.5	63.4	12.3	65.7
PHS-520247	279.7	293.2	187.9	210.1	78.0	61.4	64.3	5.0	73.9
PMH 1	273.1	286.0	174.0	181.0	76.9	58.0	62.6	27.8	83.6
Seedtec 2324	272.3	252.1	166.9	184.4	77.9	60.7	61.2	35.8	68.7
BIO 9681	276.6	246.7	185.4	186.9	78.3	58.4	61.0	32.6	80.5

C.D.(5%)Bi-Bj	4.8	7.0	7.9	4.3	0.7	0.6	0.8	1.8	3.8
C.V.(%)ErrorB	1.8	2.7	4.6	2.8	0.9	1.1	1.3	9.7	6.1
F(5%)	s	s	s	s	s	s	s	s	s

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A - 25

Table 5: Relative performance of pre-release germplasm of Medium Maturity at different levels of Nitrogen during Kharif 2010 at Zone II.

Main Plot	Sub Plot	Grain Yield (kg/ha)					
		N Levels	Genotypes	Delhi	Kanpur	Karnal	Ludhiana
100:50:50	KMH-3712		5689	5694	4422	5508	7214
	JH 31242		6222	6007	4932	4558	8914
	KH-9452		6533	6493	5272	5094	6965
	Navjot		5289	6875	4320	4230	5017
	BIO 9637		6000	7118	5272	4583	7546
	HM 8		5200	7639	4830	4513	7587
	HM 9		3822	7396	3741	4176	6136
150:65:65	KMH-3712		6444	5972	6293	6024	8872
	JH 31242		6978	6424	5612	5425	9080
	KH-9452		7111	6771	5782	6122	7960
	Navjot		6044	7188	4609	4499	5721
	BIO 9637		6667	7604	5510	5501	7794
	HM 8		6044	8056	4932	4683	7670
	HM 9		4489	7813	4082	4435	5929
200:80:80	KMH-3712		6844	6424	7857	6233	9660
	JH 31242		7511	6771	7075	5530	9411
	KH-9452		7644	7083	7211	6236	8292
	Navjot		6578	7743	4932	4578	6633
	BIO 9637		7200	7917	6565	5610	7919
	HM 8		6444	8125	5476	4769	8317
	HM 9		4978	7743	4830	4635	6509
Location mean			6177.8	7088.3	4930.2	5146.2	7578.4
C.D.(5%) AiBj-AiBk			367.4	230.9	626.6	437.7	1772.9
C.D.(5%) AiBk-AjBk			354.8	226.7	609.8	497.0	1984.3
F(5%)			n.s.	s	s	n.s.	n.s.
100:50:50			5537	6746	4684	4732	7054
150:65:65			6254	7118	5260	5294	7575
200:80:80			6743	7401	6278	5413	8106
C.D.(5%) Ai-Aj			104.3	77.9	191.0	290.4	1148.5
C.V.(%) Error A			2.0	1.3	5.1	7.0	17.7
F(5%)			s	s	s	s	n.s.
KMH-3712			6326	6030	5621	5922	8582
JH 31242			6904	6400	5230	5171	9135
KH-9452			7096	6782	5468	5817	7739
Navjot			5970	7269	4205	4436	5790
BIO 9637			6622	7546	5230	5232	7753
HM 8			5896	7940	4745	4655	7858
HM 9			4430	7650	4014	4416	6191
C.D.(5%)Bi-Bj			212.1	133.3	313.3	252.7	1023.6
C.V.(%)ErrorB			3.6	2.0	7.7	5.2	14.1
F(5%)			s	s	s	s	s

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A - 26

Main Plot	Sub Plot	Cob Yield (kg/ha)	Cob Yield with husk (Kg/ha)	Cob Yield without husk (Kg/ha)	Stover Yield (kg/ha)
N Levels	Genotypes	Kanpur	Pantnagar	Pantnagar	Delhi
100:50:50	KMH-3712	7396	14967	13847	6933
	JH 31242	7500	13765	13085	7822
	KH-9452	8229	13391	11733	6800
	Navjot	8368	9038	7612	6000
	BIO 9637	8472	13143	11277	6933
	HM 8	8611	11277	10738	5600
	HM 9	8472	10323	9577	6178
150:65:65	KMH-3712	7674	15672	14511	8311
	JH 31242	7743	14594	13474	9200
	KH-9452	8403	13474	12521	8222
	Navjot	8542	10199	9146	7200
	BIO 9637	8750	13922	11526	8489
	HM 8	9167	11965	11318	7022
	HM 9	8889	10489	9660	7067
200:80:80	KMH-3712	7882	18159	16833	9467
	JH 31242	7917	15299	14179	10000
	KH-9452	8576	14221	12844	9200
	Navjot	8958	10323	9328	8222
	BIO 9637	9167	14096	11692	9422
	HM 8	9688	12902	11692	8044
	HM 9	9236	10738	9660	7956

Location mean	8459.0	12950.3	11726.3	7813.8
C.D.(5%) AiBj-AiBk	245.5	2903.7	2891.1	493.0
C.D.(5%) AiBk-AjBk	233.7	3090.4	2950.0	477.4
F(5%)	s	n.s.	n.s.	n.s.

100:50:50	8150	12272	11124	6610
150:65:65	8452	12902	11737	7930
200:80:80	8775	13677	12318	8902

C.D.(5%) Ai-Aj	56.2	1573.2	1282.2	145.0
C.V.(%) Error A	0.8	14.2	12.8	2.2
F(5%)	s	n.s.	n.s.	s

KMH-3712	7650	16266	15064	8237
JH 31242	7720	14552	13579	9007
KH-9452	8403	13695	12366	8074
Navjot	8623	9854	8695	7141
BIO 9637	8796	13720	11498	8281
HM 8	9155	12048	11249	6889
HM 9	8866	10517	9632	7067

C.D.(5%)Bi-Bj	141.7	1676.5	1669.2	284.6
C.V.(%)ErrorB	1.8	13.5	14.9	3.8
F(5%)	s	s	s	s

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A - 27

Main Plot	Sub Plot	Plant Stand (000/ha)				
		N Levels	Genotypes	Delhi	Kanpur	Karnal
100:50:50	KMH-3712	65.8	58.0	49.0	80.9	83.7
	JH 31242	66.7	58.3	49.0	80.9	85.4
	KH-9452	66.2	58.0	53.7	80.6	83.7
	Navjot	66.7	61.1	53.7	81.9	83.7
	BIO 9637	64.0	62.8	51.0	80.2	83.7
	HM 8	65.3	60.4	47.3	81.3	80.4
	HM 9	64.0	64.9	50.0	80.6	82.1
150:65:65	KMH-3712	66.7	57.6	53.1	80.2	86.2
	JH 31242	66.2	60.8	49.0	81.9	83.7
	KH-9452	65.8	57.6	53.4	79.9	84.6
	Navjot	64.4	60.8	51.0	81.3	83.7
	BIO 9637	66.2	59.7	46.6	80.9	77.9
	HM 8	66.2	58.7	50.0	82.3	80.4
	HM 9	65.3	58.3	48.0	81.3	82.9
200:80:80	KMH-3712	66.2	61.8	53.4	81.6	77.9
	JH 31242	66.2	60.1	51.4	82.3	83.7
	KH-9452	66.2	60.1	50.7	80.9	83.7
	Navjot	66.2	60.8	49.7	81.6	81.3
	BIO 9637	65.3	62.8	53.4	80.9	81.3
	HM 8	65.8	64.6	53.4	82.3	80.4
	HM 9	65.3	59.7	52.0	81.3	82.9

Location mean	65.8	60.3	50.7	81.3	82.6
C.D.(5%) AiBj-AiBk	1.6	3.9	5.2	3.3	6.7
C.D.(5%) AiBk-AjBk	1.7	3.7	5.0	3.5	6.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.

100:50:50	65.5	60.5	50.5	81.0	83.3
150:65:65	65.8	59.1	50.1	81.3	82.8
200:80:80	65.9	61.4	52.0	81.6	81.6

C.D.(5%) Ai-Aj	0.7	0.9	1.5	1.6	2.1
C.V.(%) Error A	1.2	1.7	3.8	2.5	2.9
F(5%)	n.s.	s	n.s.	n.s.	n.s.

KMH-3712	66.2	59.1	52.4	80.9	82.6
JH 31242	66.4	59.7	50.5	81.7	84.3
KH-9452	66.1	58.6	53.1	80.4	84.0
Navjot	65.8	60.9	50.9	81.6	82.9
BIO 9637	65.2	61.8	49.5	80.7	81.0
HM 8	65.8	61.2	49.6	81.9	80.4
HM 9	64.9	61.0	49.1	81.0	82.6

C.D.(5%)Bi-Bj	0.9	2.3	2.6	1.9	3.8
C.V.(%)ErrorB	1.5	3.9	6.3	2.5	4.9
F(5%)	s	n.s.	s	n.s.	n.s.

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A - 28

Main Plot	Sub Plot	No. of cobs (000/ha)			Seed moisture at harvest (%)	100 Grain weight (g)
		Delhi	Ludhiana	Pantnagar	Pantnagar	Pantnagar
100:50:50	KMH-3712	65.3	81.9	78.8	25.0	29.7
	JH 31242	66.2	80.6	76.3	24.7	29.9
	KH-9452	65.8	82.6	73.0	25.0	27.4
	Navjot	66.2	81.9	77.9	25.3	27.9
	BIO 9637	64.0	77.8	66.3	24.7	28.5
	HM 8	64.4	82.6	77.9	25.7	28.9
	HM 9	63.6	78.8	68.8	24.3	28.3
150:65:65	KMH-3712	65.8	84.4	82.9	25.0	31.7
	JH 31242	65.3	84.0	83.7	24.7	31.5
	KH-9452	65.3	83.3	73.8	24.7	27.9
	Navjot	64.9	85.1	69.7	25.0	29.5
	BIO 9637	64.9	80.6	76.3	25.0	28.9
	HM 8	66.2	83.0	67.2	25.3	29.6
	HM 9	64.4	80.2	75.5	24.0	29.4
200:80:80	KMH-3712	65.8	85.4	72.1	25.0	33.7
	JH 31242	65.8	85.1	74.6	25.3	33.5
	KH-9452	65.3	84.4	78.8	24.7	28.2
	Navjot	64.4	85.1	76.3	25.0	29.5
	BIO 9637	64.0	81.3	73.0	24.3	29.0
	HM 8	65.3	84.0	77.9	25.7	29.3
	HM 9	64.9	83.0	66.3	26.0	29.8

Location mean	65.1	82.8	74.6	25.0	29.6
C.D.(5%) AiBj-AiBk	2.2	3.4	13.1	1.9	4.5
C.D.(5%) AiBk-AjBk	2.4	3.7	12.6	1.8	4.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	65.1	81.2	74.2	25.0	28.6
150:65:65	65.3	83.0	75.6	24.8	29.8
200:80:80	65.1	84.1	74.2	25.1	30.4

C.D.(5%) Ai-Aj	1.3	2.0	3.5	0.5	0.9
C.V.(%) Error A	2.3	3.0	5.5	2.4	3.5
F(5%)	n.s.	s	n.s.	n.s.	s

KMH-3712	65.6	83.9	77.9	25.0	31.7
JH 31242	65.8	83.2	78.2	24.9	31.6
KH-9452	65.5	83.4	75.2	24.8	27.8
Navjot	65.2	84.0	74.6	25.1	29.0
BIO 9637	64.3	79.9	71.9	24.7	28.8
HM 8	65.3	83.2	74.4	25.6	29.3
HM 9	64.3	80.7	70.2	24.8	29.2

C.D.(5%)Bi-Bj	1.3	2.0	7.6	1.1	2.6
C.V.(%)ErrorB	2.0	2.5	10.6	4.5	9.2
F(5%)	n.s.	s	n.s.	n.s.	s

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A - 29

Main Plot	Sub Plot	Plant height (cm)					
		N Levels	Genotypes	Delhi	Kanpur	Karnal	Ludhiana
100:50:50	KMH-3712		174.0	164.0	166.7	183.3	251.0
	JH 31242		180.7	163.0	158.3	181.7	263.3
	KH-9452		181.7	162.0	213.0	171.7	254.0
	Navjot		169.0	163.0	208.3	181.7	256.3
	BIO 9637		207.0	162.3	166.7	213.3	273.0
	HM 8		167.7	163.0	190.0	168.3	265.0
	HM 9		182.0	161.7	190.0	165.7	239.3
150:65:65	KMH-3712		187.0	168.7	180.0	188.3	267.7
	JH 31242		192.0	169.3	180.7	183.3	264.0
	KH-9452		193.3	170.0	189.3	175.7	256.0
	Navjot		176.0	170.0	181.3	196.7	260.7
	BIO 9637		217.3	168.7	188.3	220.0	279.0
	HM 8		182.0	170.7	183.3	188.3	268.3
	HM 9		192.0	175.0	211.7	173.3	244.7
200:80:80	KMH-3712		194.3	174.0	196.7	198.3	273.7
	JH 31242		199.3	175.0	206.7	188.3	264.3
	KH-9452		200.3	172.7	201.7	183.3	257.3
	Navjot		183.3	172.0	205.0	205.0	262.0
	BIO 9637		223.3	166.7	206.7	223.3	280.3
	HM 8		189.3	168.0	200.0	190.0	269.3
	HM 9		199.0	169.3	198.3	175.0	245.0

Location mean	190.0	168.0	187.5	187.4	261.6
C.D.(5%) AiBj-AiBk	4.0	4.1	17.9	8.9	27.5
C.D.(5%) AiBk-AjBk	4.0	4.5	18.2	11.4	33.4
F(5%)	n.s.	s	s	n.s.	n.s.

100:50:50	180.3	162.7	184.7	180.3	257.4
150:65:65	191.4	170.3	187.8	188.4	262.9
200:80:80	198.4	171.1	202.1	193.6	264.6

C.D.(5%) Ai-Aj	1.5	2.5	7.5	8.0	22.2
C.V.(%) Error A	0.9	1.7	5.3	5.3	9.9
F(5%)	s	s	s	s	n.s.

KMH-3712	185.1	168.9	180.4	190.0	264.1
JH 31242	190.7	169.1	181.1	184.4	263.9
KH-9452	191.8	168.2	192.3	176.9	255.8
Navjot	176.1	168.3	194.9	194.4	259.7
BIO 9637	215.9	165.9	185.4	218.9	277.4
HM 8	179.7	167.2	186.5	182.2	267.6
HM 9	191.0	168.7	192.1	171.3	243.0

C.D.(5%)Bi-Bj	2.3	2.3	9.0	5.1	15.9
C.V.(%)ErrorB	1.3	1.5	5.8	2.9	6.3
F(5%)	s	n.s.	s	s	s

Cont...

A - 30

Main Plot	Sub Plot	Days to 50% Tasseling		Days to 50% Silking			Days to 75% Husk Brown
		Ludhiana	Pantnagar	Kanpur	Ludhiana	Pantnagar	Ludhiana
100:50:50	KMH-3712	54.0	50.0	57.3	57.0	52.7	88.3
	JH 31242	52.0	49.0	57.0	55.3	52.0	86.3
	KH-9452	54.3	52.7	56.3	57.3	52.3	86.7
	Navjot	51.3	49.7	56.0	54.0	52.7	85.7
	BIO 9637	53.7	49.7	56.7	56.0	52.7	87.0
	HM 8	49.3	48.7	56.0	51.3	51.7	85.0
	HM 9	54.0	50.0	56.7	57.0	52.7	88.0
150:65:65	KMH-3712	53.3	50.0	56.7	56.0	52.7	87.0
	JH 31242	51.0	50.3	56.7	54.0	52.7	85.7
	KH-9452	54.0	52.3	58.0	56.7	54.7	85.7
	Navjot	51.0	49.7	56.3	53.7	53.7	84.3
	BIO 9637	53.3	51.3	57.0	55.7	54.0	85.7
	HM 8	49.3	49.7	57.0	51.3	51.3	84.7
	HM 9	53.3	50.3	57.0	56.0	53.0	87.7
200:80:80	KMH-3712	53.3	49.7	56.7	55.7	51.7	85.3
	JH 31242	50.0	48.3	57.7	53.0	51.7	85.0
	KH-9452	53.0	52.7	56.3	56.0	55.0	85.3
	Navjot	49.7	49.0	56.7	52.0	52.3	84.0
	BIO 9637	51.7	50.3	56.7	54.3	53.0	86.3
	HM 8	48.0	49.3	55.0	50.0	51.7	83.7
	HM 9	52.3	51.3	56.3	54.7	54.7	86.3

Location mean	51.8	50.2	56.7	54.5	52.8	85.7
C.D.(5%) AiBj-AiBk	1.2	2.4	2.0	1.1	1.3	1.9
C.D.(5%) AiBk-AjBk	1.5	2.3	2.0	1.4	1.3	2.0
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	52.4	50.0	56.6	55.2	52.4	86.5
150:65:65	52.0	50.5	57.0	54.6	53.1	85.7
200:80:80	51.0	50.1	56.5	53.6	52.9	85.0

C.D.(5%) Ai-Aj	1.0	0.9	0.8	1.0	0.4	0.9
C.V.(%) Error A	2.5	2.1	1.6	2.4	1.0	1.3
F(5%)	s	n.s.	n.s.	s	s	s

KMH-3712	53.6	49.9	56.9	56.2	52.3	86.9
JH 31242	51.0	49.2	57.1	54.1	52.1	85.7
KH-9452	53.8	52.6	56.9	56.7	54.0	85.9
Navjot	50.7	49.4	56.3	53.2	52.9	84.7
BIO 9637	52.9	50.4	56.8	55.3	53.2	86.3
HM 8	48.9	49.2	56.0	50.9	51.6	84.4
HM 9	53.2	50.6	56.7	55.9	53.4	87.3

C.D.(5%)Bi-Bj	0.7	1.4	1.2	0.6	0.8	1.1
C.V.(%)ErrorB	1.4	2.8	2.1	1.2	1.5	1.4
F(5%)	s	s	n.s.	s	s	s

Cont...

A - 31

Main Plot	Sub Plot	Ear height (cm)		Cob length (cm)		Cob girth (cm)	
		Karnal	Ludhiana	Ludhiana	Pantnagar	Ludhiana	Pantnagar
100:50:50	KMH-3712	76.7	90.0	14.5	15.9	4.2	13.3
	JH 31242	75.7	93.3	14.9	18.0	4.0	13.7
	KH-9452	110.0	81.7	14.8	14.3	4.2	14.4
	Navjot	110.0	91.7	12.8	13.7	3.9	12.6
	BIO 9637	95.0	95.0	14.0	15.2	4.1	12.9
	HM 8	104.3	83.3	13.7	14.8	3.9	12.8
	HM 9	92.3	78.3	13.7	16.1	3.8	13.6
150:65:65	KMH-3712	77.7	96.7	15.7	16.4	4.3	13.7
	JH 31242	73.3	95.0	15.1	18.2	4.1	13.7
	KH-9452	93.3	82.7	15.5	16.5	4.3	14.7
	Navjot	83.7	103.3	14.2	14.8	4.1	14.2
	BIO 9637	101.7	100.0	16.0	16.0	4.2	13.1
	HM 8	90.7	96.7	13.7	15.7	4.1	12.8
	HM 9	111.7	85.0	14.3	16.6	4.1	13.6
200:80:80	KMH-3712	86.7	98.3	15.9	17.5	4.4	14.1
	JH 31242	71.7	96.7	15.5	18.4	4.1	13.7
	KH-9452	100.0	85.0	16.0	17.1	4.4	14.6
	Navjot	95.0	110.0	15.9	16.8	4.1	14.7
	BIO 9637	100.0	106.7	16.2	16.5	4.3	13.2
	HM 8	91.7	103.3	14.0	16.5	4.1	12.8
	HM 9	106.7	90.0	14.5	16.7	4.2	13.6

Location mean	93.1	92.9	14.8	16.3	4.2	13.6
C.D.(5%) AiBj-AiBk	12.9	14.1	1.5	2.9	0.3	1.5
C.D.(5%) AiBk-AjBk	13.1	14.0	1.4	3.5	0.3	1.8
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	94.9	86.9	14.1	15.4	4.0	13.3
150:65:65	90.3	93.5	14.9	16.3	4.2	13.7
200:80:80	93.1	98.3	15.4	17.1	4.2	13.8

C.D.(5%) Ai-Aj	5.5	4.7	0.4	2.3	0.1	1.1
C.V.(%) Error A	7.8	6.3	3.3	16.8	2.5	9.5
F(5%)	n.s.	s	s	n.s.	s	n.s.

KMH-3712	84.6	95.0	15.4	16.6	4.3	13.7
JH 31242	80.6	95.0	15.2	18.2	4.1	13.7
KH-9452	99.8	83.1	15.4	16.0	4.3	14.6
Navjot	96.1	101.7	14.3	15.1	4.0	13.8
BIO 9637	99.5	100.6	15.4	15.9	4.2	13.0
HM 8	93.8	94.4	13.8	15.6	4.0	12.8
HM 9	97.4	84.4	14.2	16.5	4.0	13.6

C.D.(5%)Bi-Bj	6.4	8.2	0.8	1.7	0.1	0.9
C.V.(%)ErrorB	8.4	9.2	6.0	10.6	3.8	6.8
F(5%)	s	s	s	s	s	s

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Table 6: Relative performance of pre-release germplasm of Medium Maturity at different levels of Nitrogen during Kharif 2010 at Zone III.

Main Plot	Sub Plot	Grain yield (kg/ha)			Cob yield (Kg/ha)				
		N Levels	Genotypes	Ambikapur	Bahraich	Ranchi	Ambikapur	Bhubaneswar	Dholi
100:50:50	KMH-3712		5222	4833	4890	6547	7188	7911	6000
	JH 31242		5067	4611	4744	6278	7292	6067	5748
	BL 2802		4578	4944	4288	5713	7083	6111	5236
	KH-9452		4733	4611	4432	5947	7083	5667	5451
	KH-717		4400	4507	4120	5731	6563	6378	5251
	MCH 37		4978	4625	4660	6111	5451	8600	5601
	Navjot		4333	4222	4058	5489	6632	5156	5032
	VMH 4060		5378	4667	5037	6467	6076	7511	5927
	HM 8		4756	4389	4454	6049	5833	4978	5544
HM 9		4311	4076	4038	5556	5347	4978	5092	
150:65:65	KMH-3712		5911	6229	5537	7111	7361	9356	6518
	JH 31242		5756	5500	5389	6956	7500	7733	6374
	BL 2802		5422	6389	5079	6644	7361	7822	6089
	KH-9452		5533	5722	5183	6978	6944	7511	6394
	KH-717		5400	5569	5059	6622	6632	8089	6069
	MCH 37		5667	5778	5307	6844	5729	9622	6272
	Navjot		5333	5667	4992	6533	7104	6911	5989
	VMH 4060		6089	6167	5703	7244	6285	9111	6640
	HM 8		5622	5729	5265	6867	5972	6489	6295
HM 9		5133	5403	4806	6622	5729	5822	6071	
200:80:80	KMH-3712		6822	8264	6049	8111	7535	11378	7103
	JH 31242		6800	7278	6029	8044	7778	8533	7043
	BL 2802		6133	8333	5437	7407	7465	9178	6478
	KH-9452		6467	7139	5732	7778	7188	7356	6808
	KH-717		5978	7056	5300	7178	6771	8733	6275
	MCH 37		6622	7208	5874	7933	5868	9600	6946
	Navjot		5622	7389	4986	6800	7153	9622	5938
	VMH 4060		6933	8035	6148	8202	6563	9467	7183
	HM 8		6533	7556	5792	7822	6250	7133	6848
HM 9		5422	7222	4806	7000	5625	7067	6117	
Location mean		5565.2	5970.6	5106.4	6819.5	6645.4	7663.0	6144.4	
C.D.(5%) AiBj-AiBk		982.6	323.0	870.6	1289.6	282.8	843.9	1153.1	
C.D.(5%) AiBk-AjBk		1024.9	310.5	909.4	1355.5	312.7	817.9	1205.0	
F(5%)		n.s.	s	n.s.	n.s.	n.s.	s	n.s.	
100:50:50		4776	4549	4472	5989	6455	6336	5488	
150:65:65		5587	5815	5232	6842	6662	7847	6271	
200:80:80		6333	7548	5615	7628	6819	8807	6674	
C.D.(5%) Ai-Aj		441.6	52.2	394.3	604.6	166.0	173.7	523.6	
C.V.(%) Error A		11.1	1.2	10.8	12.4	3.5	3.2	11.9	
F(5%)		s	s	s	s	s	s	s	
KMH-3712		5985	6442	5492	7256	7361	9548	6540	
JH 31242		5874	5796	5387	7093	7523	7444	6388	
BL 2802		5378	6556	4935	6588	7303	7704	5934	
KH-9452		5578	5824	5116	6901	7072	6844	6218	
KH-717		5259	5711	4826	6510	6655	7733	5865	
MCH 37		5756	5870	5280	6963	5683	9274	6273	
Navjot		5096	5759	4678	6274	6963	7230	5653	
VMH 4060		6133	6289	5629	7304	6308	8696	6583	
HM 8		5637	5891	5170	6913	6019	6200	6229	
HM 9		4956	5567	4550	6393	5567	5956	5760	
C.D.(5%)Bi-Bj		567.3	186.5	502.6	744.6	163.3	487.2	665.8	
C.V.(%)ErrorB		10.8	3.3	10.4	11.5	2.6	6.7	11.5	
F(5%)		s	s	s	n.s.	s	s	n.s.	

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Main Plot	Sub Plot	Plant Stand (000/ha)					Shelling %		
		N Levels	Genotypes	Ambikapur	Bahraich	Bhubaneswar	Dholi	Ranchi	Ambikapur
100:50:50	KMH-3712		72.2	81.3	67.0	76.4	66.0	79.8	81.6
	JH 31242		69.6	70.1	66.3	70.7	63.3	80.5	82.5
	BL 2802		70.9	82.6	67.4	59.3	64.7	80.0	82.2
	KH-9452		71.8	75.7	68.8	64.4	65.6	79.5	81.8
	KH-717		69.8	74.3	68.8	72.2	63.6	77.3	79.5
	MCH 37		70.9	77.1	64.9	63.3	64.7	81.5	83.2
	Navjot		67.6	72.2	66.0	64.2	61.4	79.4	80.9
	VMH 4060		73.8	82.6	67.0	65.3	67.6	82.8	85.0
	HM 8		71.6	77.8	66.7	58.7	65.3	79.3	80.8
HM 9		71.8	78.5	66.0	60.0	65.6	78.3	80.3	
150:65:65	KMH-3712		70.4	75.7	66.7	67.1	65.6	82.9	84.7
	JH 31242		71.8	78.5	66.3	71.3	66.9	82.5	84.6
	BL 2802		70.4	77.8	68.1	50.2	65.3	81.0	83.4
	KH-9452		69.1	79.2	66.3	62.0	63.6	80.1	81.5
	KH-717		70.4	81.3	68.4	64.7	65.6	81.6	83.3
	MCH 37		67.8	79.9	66.3	65.6	62.9	82.4	84.7
	Navjot		70.9	77.1	67.7	63.3	66.0	81.8	83.4
	VMH 4060		70.7	79.9	67.7	66.0	65.3	83.9	85.9
	HM 8		70.2	77.1	66.7	64.7	64.7	81.9	83.7
HM 9		71.3	76.4	66.3	58.9	65.8	77.2	79.2	
200:80:80	KMH-3712		70.9	78.5	67.0	69.6	65.3	83.9	85.1
	JH 31242		74.2	74.3	67.0	65.3	68.7	84.5	85.5
	BL 2802		73.8	81.3	67.7	49.6	68.2	83.4	84.3
	KH-9452		69.1	75.7	66.7	70.9	63.6	83.1	84.3
	KH-717		72.7	74.3	67.7	68.2	67.1	82.8	84.5
	MCH 37		70.9	79.9	65.6	56.2	65.3	83.1	84.6
	Navjot		67.3	77.8	66.7	69.6	61.8	82.9	84.1
	VMH 4060		71.8	75.0	66.3	67.6	66.2	84.4	85.6
	HM 8		72.4	82.6	65.6	64.7	66.9	83.3	84.5
HM 9		70.7	81.3	65.6	56.4	65.1	77.4	78.5	
Location mean		70.9	77.8	66.8	64.2	65.2	81.4	83.1	
C.D.(5%) AiBj-AiBk		6.1	3.3	2.4	12.4	6.2	5.0	5.5	
C.D.(5%) AiBk-AjBk		6.7	3.3	2.8	12.1	6.7	4.9	5.7	
F(5%)		n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	
100:50:50		71.0	77.2	66.9	65.5	64.8	79.8	81.8	
150:65:65		70.3	78.3	67.0	63.4	65.2	81.5	83.4	
200:80:80		71.4	78.1	66.6	63.8	65.8	82.9	84.1	
C.D.(5%) Ai-Aj		3.4	1.1	1.6	2.8	3.2	1.3	2.3	
C.V.(%) Error A		6.8	1.9	3.4	6.0	6.9	2.3	3.9	
F(5%)		n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.	
KMH-3712		71.2	78.5	66.9	71.0	65.6	82.2	83.8	
JH 31242		71.9	74.3	66.6	69.1	66.3	82.5	84.2	
BL 2802		71.7	80.6	67.7	53.0	66.1	81.5	83.3	
KH-9452		70.0	76.9	67.2	65.8	64.2	80.9	82.5	
KH-717		71.0	76.6	68.3	68.4	65.4	80.6	82.4	
MCH 37		69.9	78.9	65.6	61.7	64.3	82.3	84.2	
Navjot		68.6	75.7	66.8	65.7	63.0	81.4	82.8	
VMH 4060		72.1	79.2	67.0	66.3	66.4	83.7	85.5	
HM 8		71.4	79.2	66.3	62.7	65.6	81.5	83.0	
HM 9		71.3	78.7	66.0	58.4	65.5	77.7	79.3	
C.D.(5%)Bi-Bj		3.5	1.9	1.4	7.2	3.6	2.9	3.2	
C.V.(%)ErrorB		5.3	2.6	2.2	11.8	5.8	3.7	4.0	
F(5%)		n.s.	s	s	s	n.s.	s	s	

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Main Plot	Sub Plot	No. of Cobs (000/ha)				100 Grain	100 Grain
		Ambikapur	Bahraich	Dholi	Ranchi	weight (g)	weight (g)
N Levels	Genotypes						
100:50:50	KMH-3712	71.3	82.6	80.0	63.8	32.3	33.3
	JH 31242	69.3	70.1	73.1	61.8	32.0	32.9
	BL 2802	70.4	82.6	62.0	62.9	33.7	34.7
	KH-9452	71.6	76.4	66.4	64.0	31.6	32.6
	KH-717	69.1	75.0	74.0	61.6	30.6	31.5
	MCH 37	70.9	78.5	63.8	63.3	31.0	31.9
	Navjot	66.9	72.2	67.3	59.4	32.4	33.4
	VMH 4060	72.4	82.6	65.8	64.9	34.3	35.3
	HM 8	71.1	78.5	58.2	63.6	33.1	34.1
HM 9	71.1	79.2	58.9	63.6	31.7	32.7	
150:65:65	KMH-3712	70.0	75.7	67.3	63.8	33.7	34.8
	JH 31242	70.7	78.5	73.3	64.5	34.7	35.8
	BL 2802	70.2	78.5	50.9	64.0	34.8	35.9
	KH-9452	68.4	79.2	62.9	62.2	35.5	36.7
	KH-717	69.3	81.3	65.6	63.1	33.7	34.8
	MCH 37	66.9	79.9	67.6	60.7	33.5	34.6
	Navjot	70.0	77.1	64.7	63.8	35.5	36.6
	VMH 4060	70.2	79.9	68.0	64.0	34.7	35.7
	HM 8	69.3	77.1	65.8	63.1	34.6	35.7
HM 9	70.7	76.4	60.0	64.5	33.1	34.2	
200:80:80	KMH-3712	69.8	77.8	70.0	63.6	37.5	38.5
	JH 31242	73.1	74.3	68.0	66.9	36.9	37.9
	BL 2802	72.7	81.3	52.2	66.4	37.8	38.7
	KH-9452	68.7	75.7	71.1	62.5	37.9	38.9
	KH-717	71.8	73.6	69.8	65.6	36.0	36.9
	MCH 37	70.0	79.9	56.7	63.8	34.1	35.0
	Navjot	66.2	77.8	70.4	60.0	36.5	37.4
	VMH 4060	70.4	75.7	68.2	64.2	36.7	37.6
	HM 8	71.3	81.9	66.7	65.1	35.6	36.5
HM 9	69.6	81.3	58.7	63.3	35.5	36.4	
Location mean		70.1	78.0	65.6	63.5	34.4	35.4
C.D.(5%) AiBj-AiBk		6.6	3.2	13.0	7.1	3.1	3.2
C.D.(5%) AiBk-AjBk		7.1	3.1	12.7	7.5	3.2	3.2
F(5%)		n.s.	s	n.s.	n.s.	n.s.	n.s.

100:50:50	70.4	77.8	67.0	62.9	32.3	33.2	
150:65:65	69.6	78.3	64.6	63.4	34.4	35.5	
200:80:80	70.4	77.9	65.2	64.1	36.5	37.4	
C.D.(5%) Ai-Aj		3.4	0.7	3.0	3.5	1.1	1.1
C.V.(%) Error A		6.7	1.3	6.4	7.7	4.5	4.2
F(5%)		n.s.	n.s.	n.s.	n.s.	s	s

KMH-3712	70.4	78.7	72.4	63.7	34.5	35.5	
JH 31242	71.0	74.3	71.5	64.4	34.5	35.5	
BL 2802	71.1	80.8	55.0	64.5	35.4	36.5	
KH-9452	69.6	77.1	66.8	62.9	35.0	36.0	
KH-717	70.1	76.6	69.8	63.4	33.5	34.4	
MCH 37	69.3	79.4	62.7	62.6	32.9	33.8	
Navjot	67.7	75.7	67.5	61.1	34.8	35.8	
VMH 4060	71.0	79.4	67.3	64.4	35.2	36.2	
HM 8	70.6	79.2	63.6	63.9	34.4	35.4	
HM 9	70.4	78.9	59.2	63.8	33.4	34.4	
C.D.(5%)Bi-Bj		3.8	1.9	7.5	4.1	1.8	1.9
C.V.(%)ErrorB		5.8	2.5	12.1	6.8	5.6	5.6
F(5%)		n.s.	s	s	n.s.	n.s.	n.s.

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Main Plot	Sub Plot	Plant height (cm)				
		N Levels	Genotypes	Ambikapur	Bahraich	Bhubaneswar
100:50:50	KMH-3712	232.6	170.7	167.0	123.1	237.0
	JH 31242	226.2	175.0	155.2	129.5	230.1
	BL 2802	225.1	165.0	155.2	113.0	228.9
	KH-9452	216.7	150.0	170.1	114.2	220.5
	KH-717	219.1	155.0	172.9	124.5	222.8
	MCH 37	238.9	175.0	153.4	163.6	243.1
	Navjot	220.9	172.7	171.1	133.5	225.7
	VMH 4060	236.0	175.0	171.5	138.2	241.1
	HM 8	240.3	176.0	149.3	152.4	245.6
HM 9	215.7	152.0	146.3	117.7	220.4	
150:65:65	KMH-3712	246.5	180.0	168.6	144.5	252.9
	JH 31242	234.5	190.0	161.8	135.1	240.6
	BL 2802	237.3	185.0	166.1	127.2	243.5
	KH-9452	219.9	180.0	175.5	131.8	225.7
	KH-717	221.8	165.0	181.5	135.3	227.6
	MCH 37	240.1	181.0	163.1	142.7	246.3
	Navjot	228.0	178.7	184.3	145.1	234.0
	VMH 4060	239.0	185.0	171.1	140.6	245.2
	HM 8	250.6	188.0	158.1	149.3	257.1
HM 9	219.0	160.0	154.9	117.0	224.8	
200:80:80	KMH-3712	261.1	190.7	177.0	140.7	266.7
	JH 31242	237.3	200.0	167.8	146.9	242.4
	BL 2802	239.3	202.0	174.6	134.5	244.5
	KH-9452	226.3	201.7	187.1	119.3	231.2
	KH-717	225.9	180.0	187.5	136.9	230.8
	MCH 37	247.8	191.7	166.9	169.3	253.2
	Navjot	237.1	200.0	191.4	143.9	242.2
	VMH 4060	251.3	195.0	177.7	141.1	256.7
	HM 8	253.0	196.0	166.6	151.3	258.5
HM 9	226.3	186.0	166.5	121.3	231.2	

Location mean	233.8	180.1	168.7	136.1	239.0
C.D.(5%) AiBj-AiBk	22.6	3.8	4.9	17.9	23.9
C.D.(5%) AiBk-AjBk	22.0	5.7	6.1	17.7	23.3
F(5%)	n.s.	s	s	n.s.	n.s.

100:50:50	227.1	166.6	161.2	131.0	231.5
150:65:65	233.7	179.3	168.5	136.9	239.8
200:80:80	240.5	194.3	176.3	140.5	245.8
C.D.(5%) Ai-Aj	5.1	4.5	4.0	5.5	5.5
C.V.(%) Error A	3.1	3.5	3.3	5.6	3.2
F(5%)	s	s	s	s	s

KMH-3712	246.7	180.4	170.9	136.1	252.2
JH 31242	232.6	188.3	161.6	137.2	237.7
BL 2802	233.9	184.0	165.3	124.9	239.0
KH-9452	221.0	177.2	177.6	121.8	225.8
KH-717	222.2	166.7	180.6	132.2	227.1
MCH 37	242.2	182.6	161.2	158.5	247.5
Navjot	228.6	183.8	182.3	140.8	234.0
VMH 4060	242.1	185.0	173.4	140.0	247.7
HM 8	248.0	186.7	158.0	151.0	253.7
HM 9	220.3	166.0	155.9	118.7	225.4
C.D.(5%)Bi-Bj	13.0	2.2	2.8	10.3	13.8
C.V.(%)ErrorB	5.9	1.3	1.8	8.0	6.1
F(5%)	s	s	s	s	s

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Main Plot	Sub Plot	Cob placement (cm)		Days to 50% Silking			No. of kernels/row	
		Ambikapur	Ranchi	Bahraich	Bhubaneswar	Dholi	Ambikapur	Ranchi
100:50:50	KMH-3712	82.7	81.3	59.0	50.3	56.7	36.7	33.1
	JH 31242	80.3	79.0	60.0	50.0	55.3	35.1	31.9
	BL 2802	83.3	82.0	60.3	52.0	58.7	33.6	30.2
	KH-9452	76.6	75.3	61.0	50.3	58.3	34.9	31.4
	KH-717	79.3	78.0	60.0	50.3	57.3	34.1	31.0
	MCH 37	87.0	85.5	60.0	51.7	57.3	33.9	30.5
	Navjot	81.0	79.7	59.0	48.3	56.3	33.2	29.8
	VMH 4060	88.9	87.4	62.0	51.3	56.7	36.1	32.7
	HM 8	90.8	89.3	62.0	50.3	54.3	34.0	30.5
HM 9	74.1	72.9	57.0	49.3	58.0	33.0	29.7	
150:65:65	KMH-3712	95.0	93.8	56.0	47.3	54.0	37.1	34.5
	JH 31242	90.7	89.6	55.0	50.0	54.7	36.5	33.9
	BL 2802	90.4	89.2	57.0	49.7	57.0	35.7	33.2
	KH-9452	78.9	77.9	57.0	51.7	56.0	35.4	32.9
	KH-717	85.6	84.5	56.0	51.0	55.7	34.9	32.5
	MCH 37	92.8	91.6	56.0	51.0	55.3	34.4	31.9
	Navjot	84.3	83.3	57.0	47.3	55.0	33.7	31.3
	VMH 4060	89.8	88.6	58.0	51.0	56.3	37.0	34.5
	HM 8	92.1	91.0	56.0	49.7	54.3	34.1	31.7
HM 9	76.0	75.0	55.0	49.0	55.3	34.5	32.0	
200:80:80	KMH-3712	98.6	96.9	54.0	47.0	53.7	37.8	35.1
	JH 31242	93.9	92.4	55.0	48.0	53.3	38.7	35.9
	BL 2802	93.9	92.4	56.0	49.3	56.0	36.1	33.5
	KH-9452	94.9	93.3	55.0	50.7	55.7	35.5	33.0
	KH-717	87.7	86.2	56.0	49.3	54.3	35.5	32.9
	MCH 37	95.9	94.4	55.0	51.0	55.3	37.6	34.9
	Navjot	88.6	87.1	56.0	45.0	53.7	36.0	33.5
	VMH 4060	91.5	90.0	57.0	51.3	54.3	38.6	36.0
	HM 8	113.3	111.4	55.0	50.0	53.7	34.9	32.5
HM 9	78.3	77.0	54.0	48.3	57.0	35.1	32.8	
Location mean		87.9	86.5	57.2	49.7	55.7	35.5	32.6
C.D.(5%) AiBj-AiBk		14.0	11.4	0.2	1.5	1.9	3.9	3.9
C.D.(5%) AiBk-AjBk		14.9	12.5	0.2	1.8	1.9	4.0	3.9
F(5%)		n.s.	n.s.	s	s	n.s.	n.s.	n.s.
100:50:50		82.4	81.0	60.0	50.4	56.9	34.5	31.1
150:65:65		87.6	86.5	56.3	49.8	55.4	35.3	32.9
200:80:80		93.7	92.1	55.3	49.0	54.7	36.6	34.0
C.D.(5%) Ai-Aj		7.0	6.5	0.1	1.1	0.5	1.5	1.4
C.V.(%) Error A		11.1	10.5	0.2	3.1	1.2	6.0	5.9
F(5%)		s	s	s	n.s.	s	s	s
KMH-3712		92.1	90.7	56.3	48.2	54.8	37.2	34.2
JH 31242		88.3	87.0	56.7	49.3	54.4	36.8	33.9
BL 2802		89.2	87.9	57.8	50.3	57.2	35.2	32.3
KH-9452		83.5	82.2	57.7	50.9	56.7	35.3	32.4
KH-717		84.2	82.9	57.3	50.2	55.8	34.9	32.1
MCH 37		91.9	90.5	57.0	51.2	56.0	35.3	32.4
Navjot		84.6	83.4	57.3	46.9	55.0	34.3	31.5
VMH 4060		90.1	88.7	59.0	51.2	55.8	37.2	34.4
HM 8		98.8	97.2	57.7	50.0	54.1	34.3	31.6
HM 9		76.1	75.0	55.3	48.9	56.8	34.2	31.5
C.D.(5%)Bi-Bj		8.1	6.6	0.1	0.9	1.1	2.3	2.2
C.V.(%)ErrorB		9.7	8.1	0.2	1.8	2.1	6.7	7.2
F(5%)		s	s	s	s	s	s	s

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Main Plot	Sub Plot	Cob girth (Cm)		Cob length (cm)		No. of rows/cob	
		Ambikapur	Ranchi	Ambikapur	Ranchi	Ambikapur	Ranchi
100:50:50	KMH-3712	15.5	14.2	15.9	14.5	15.5	14.1
	JH 31242	15.3	14.0	15.7	14.4	15.1	13.7
	BL 2802	14.6	13.4	15.2	13.9	13.9	12.5
	KH-9452	15.1	13.8	15.2	14.0	14.0	12.6
	KH-717	14.0	12.8	14.1	12.9	13.7	12.3
	MCH 37	14.9	13.7	15.9	14.5	15.1	13.7
	Navjot	13.6	12.4	14.7	13.4	13.7	12.3
	VMH 4060	15.6	14.2	16.5	15.2	15.6	14.2
	HM 8	14.7	13.5	15.6	14.3	14.5	13.1
HM 9	13.5	12.3	13.5	12.3	13.9	12.5	
150:65:65	KMH-3712	15.6	14.6	16.2	15.0	15.9	14.9
	JH 31242	15.4	14.3	16.0	14.8	15.3	14.3
	BL 2802	15.0	14.0	15.9	14.7	14.2	13.2
	KH-9452	15.1	14.1	16.0	14.8	14.4	13.4
	KH-717	14.1	13.1	14.8	13.7	14.3	13.3
	MCH 37	15.0	14.0	16.0	14.8	15.6	14.6
	Navjot	14.0	13.0	15.1	14.0	14.1	13.1
	VMH 4060	15.8	14.7	16.6	15.4	16.3	15.3
	HM 8	15.1	14.1	15.7	14.6	15.0	14.0
HM 9	13.8	12.8	14.1	13.0	14.1	13.1	
200:80:80	KMH-3712	16.0	14.7	16.3	14.9	16.3	15.1
	JH 31242	15.4	14.2	16.5	15.1	16.5	15.3
	BL 2802	15.1	13.9	16.0	14.7	14.5	13.3
	KH-9452	15.4	14.1	16.3	15.0	14.9	13.7
	KH-717	14.1	13.0	16.3	14.9	15.2	14.0
	MCH 37	16.1	14.8	16.0	14.7	15.7	14.5
	Navjot	14.3	13.1	15.1	13.8	14.7	13.5
	VMH 4060	16.5	15.2	16.7	15.4	16.7	15.5
	HM 8	16.0	14.7	16.3	15.0	15.6	14.4
HM 9	14.3	13.2	15.0	13.7	14.5	13.3	

Location mean	15.0	13.8	15.6	14.4	15.0	13.8
C.D.(5%) AiBj-AiBk	1.1	1.2	1.7	1.7	1.4	1.4
C.D.(5%) AiBk-AjBk	1.2	1.2	1.7	1.6	1.5	1.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	14.7	13.4	15.2	13.9	14.5	13.1
150:65:65	14.9	13.9	15.6	14.5	14.9	13.9
200:80:80	15.3	14.1	16.0	14.7	15.5	14.3
C.D.(5%) Ai-Aj	0.4	0.4	0.4	0.3	0.7	0.8
C.V.(%) Error A	3.8	3.9	3.6	3.2	6.5	8.2
F(5%)	s	s	s	s	s	s

KMH-3712	15.7	14.5	16.1	14.8	15.9	14.7
JH 31242	15.4	14.2	16.0	14.8	15.7	14.5
BL 2802	14.9	13.7	15.7	14.4	14.2	13.0
KH-9452	15.2	14.0	15.8	14.6	14.4	13.2
KH-717	14.1	13.0	15.0	13.8	14.4	13.2
MCH 37	15.3	14.1	16.0	14.7	15.5	14.3
Navjot	13.9	12.8	14.9	13.7	14.2	13.0
VMH 4060	16.0	14.7	16.6	15.3	16.2	15.0
HM 8	15.3	14.1	15.9	14.6	15.0	13.8
HM 9	13.9	12.8	14.2	13.0	14.2	13.0
C.D.(5%)Bi-Bj	0.7	0.7	1.0	1.0	0.8	0.8
C.V.(%)ErrorB	4.6	5.1	6.6	7.1	5.5	6.1
F(5%)	s	s	s	s	s	s

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Table 6(a): Relative performance of pre-release germplasm of Medium Maturity at different levels of Nitrogen during Kharif 2010 at Varanasi Zone III.

Main Plot	Sub Plot	Grain yield (kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Ear height (cm)	No. of barren plants (000/ha)
N Levels	Genotypes	Varanasi							
150:60:60	KMH-3712	6933	63.9	64.4	53.7	57.0	185.3	97.0	0.6
	JH 31242	5800	64.4	63.9	50.7	55.7	174.3	92.7	1.1
	BL 2802	6772	55.6	56.1	57.3	62.7	181.7	91.3	0.6
	KH-9452	6261	64.4	63.3	50.3	55.3	163.3	78.3	2.2
	KH-717	5367	62.8	61.7	52.7	56.3	164.3	85.7	1.1
	MCH 37	5711	61.7	59.4	55.7	59.0	200.0	100.0	3.3
	Navjot	3822	63.9	61.1	50.0	56.3	180.0	90.3	2.8
	VMH 4060	5811	66.7	67.2	53.7	57.3	177.0	94.0	0.6
	HM 8	5661	63.3	58.9	52.3	56.0	206.3	96.0	5.0
	HM 9	5817	62.2	63.9	53.0	55.3	172.7	87.3	0.6
200:75:75	KMH-3712	6922	63.9	62.8	53.0	56.0	176.0	89.3	1.1
	JH 31242	6672	65.0	67.2	49.0	54.7	180.3	102.0	0.0
	BL 2802	7483	65.0	68.9	55.3	58.7	181.3	88.3	0.6
	KH-9452	7733	64.4	62.8	51.7	55.7	167.3	88.3	1.7
	KH-717	6600	65.0	65.6	51.3	56.0	162.7	87.0	1.1
	MCH 37	6078	61.1	62.2	54.0	57.0	206.7	101.0	1.7
	Navjot	4311	62.2	66.7	49.3	55.7	193.3	100.3	1.7
	VMH 4060	6139	61.7	63.9	54.0	57.0	182.7	89.3	0.0
	HM 8	5167	60.6	57.8	50.0	55.0	209.0	89.0	5.0
	HM 9	5517	57.8	60.6	53.7	57.0	172.7	82.3	0.0
250:90:90	KMH-3712	7533	62.8	66.1	52.0	55.0	172.0	86.7	0.0
	JH 31242	7133	64.4	63.9	47.7	54.0	188.3	106.0	1.1
	BL 2802	8194	62.8	64.4	54.3	58.7	189.0	96.7	0.6
	KH-9452	7433	64.4	64.4	53.0	56.3	170.3	92.0	1.1
	KH-717	6228	64.4	63.3	53.0	56.0	167.7	94.0	1.1
	MCH 37	6300	59.4	61.7	54.3	57.7	201.7	98.0	2.2
	Navjot	4417	63.9	65.6	49.3	55.7	178.7	86.7	1.1
	VMH 4060	6894	63.3	64.4	53.3	57.0	182.7	94.3	0.0
	HM 8	5878	61.7	60.0	51.7	56.3	200.3	91.3	2.8
	HM 9	5022	60.0	63.3	54.0	57.0	163.0	73.3	0.0
300:105:105	KMH-3712	7567	64.4	67.2	53.3	56.0	180.0	91.7	0.0
	JH 31242	7083	63.9	65.6	49.3	54.3	178.3	96.0	0.0
	BL 2802	7472	61.1	61.7	55.3	61.3	182.3	88.7	0.6
	KH-9452	7233	63.3	63.3	52.3	57.3	172.0	90.7	0.0
	KH-717	7128	63.9	65.0	53.0	55.3	167.3	92.3	0.0
	MCH 37	5872	61.7	60.6	55.3	60.0	210.3	105.7	2.8
	Navjot	4511	63.9	70.0	50.3	55.3	187.0	96.0	0.0
	VMH 4060	7428	64.4	67.2	54.0	56.7	183.7	90.7	0.0
	HM 8	7417	65.6	63.9	50.7	54.7	202.7	89.3	3.9
	HM 9	6178	56.7	63.9	55.0	57.7	166.3	78.7	0.0

Cont...

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Table 7: Relative performance of pre-release germplasm of Medium Maturity at different levels of Nitrogen during Kharif 2010 at Zone IV.

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob yield (Kg/ha)		
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur
N Levels	Genotypes						
100:50:50	KMH-3712	7749	5182	7092	9667	7176	8817
	VMH 4060	7968	5415	6958	9889	7473	8528
	BL 2802	8547	5700	6614	11111	7582	8406
	KH-9452	6159	5258	6336	7722	7284	7733
	KH-717	5780	5008	6139	7333	7217	7647
	EC-3160	6440	5533	5814	8056	7208	7206
	MCH 37	7389	6813	6486	9222	8405	8053
	Navjot	4385	5815	5353	5333	7957	6603
	JH 31242	7347	5842	6286	9444	7327	7725
	HM 8	5674	5940	6014	7111	7578	7367
HM 9	3841	5885	5411	4889	7267	6661	
150:65:65	KMH-3712	8006	5317	7992	10167	5260	9808
	VMH 4060	6539	6120	8700	8056	8130	10103
	BL 2802	7409	6075	7261	9722	7957	9056
	KH-9452	5113	5798	6853	6333	7780	8444
	KH-717	5886	5589	7069	7500	7723	8847
	EC-3160	5176	6399	6539	6444	7652	8150
	MCH 37	9129	7033	8428	11444	8615	10467
	Navjot	3917	4342	6306	4806	7937	7761
	JH 31242	7360	6120	7817	8889	7817	9636
	HM 8	5487	6333	7372	6722	7345	8986
HM 9	4321	6153	6061	5389	7622	7450	
200:80:80	KMH-3712	8699	5408	8819	10944	8218	10867
	VMH 4060	7942	6398	9164	9889	8258	11328
	BL 2802	8961	6339	7625	11611	8337	9444
	KH-9452	6498	6568	8028	7833	8031	9831
	KH-717	6395	5860	7908	8000	8183	9831
	EC-3160	6193	6727	7447	7722	7983	9264
	MCH 37	5219	7246	9222	6500	9153	11486
	Navjot	4514	6302	6853	5500	8298	8450
	JH 31242	8864	6351	8664	10889	8285	10664
	HM 8	4355	6662	8461	5444	7890	10433
HM 9	3884	6750	6806	4833	7968	8350	
Location mean		6357.6	6008.5	7209.0	7956.0	7785.3	8890.9
C.D.(5%) AiBj-AiBk		501.4	1051.9	608.0	540.7	1435.9	702.1
C.D.(5%) AiBk-AjBk		511.4	1078.8	621.5	520.7	1490.9	698.0
F(5%)		s	n.s.	s	s	n.s.	s
100:50:50		6403	5672	6228	8056	7498	7704
150:65:65		6188	5934	7309	7738	7622	8973
200:80:80		6482	6419	8091	8074	8237	9995
C.D.(5%) Ai-Aj		183.1	412.4	232.7	57.5	612.4	205.6
C.V.(%) Error A		4.4	10.0	4.7	1.1	11.5	3.4
F(5%)		s	s	s	s	n.s.	s
KMH-3712		8151	5302	7968	10259	6885	9831
VMH 4060		7483	5978	8274	9278	7954	9986
BL 2802		8306	6038	7167	10815	7958	8969
KH-9452		5923	5875	7072	7296	7698	8669
KH-717		6020	5486	7039	7611	7708	8775
EC-3160		5936	6220	6600	7407	7614	8206
MCH 37		7246	7031	8045	9056	8724	10002
Navjot		4272	5486	6170	5213	8064	7605
JH 31242		7857	6104	7589	9741	7810	9342
HM 8		5172	6312	7282	6426	7604	8929
HM 9		4015	6263	6093	5037	7619	7487
C.D.(5%)Bi-Bj		289.5	607.3	351.0	312.2	829.0	405.3
C.V.(%)ErrorB		4.8	10.7	5.2	4.2	11.3	4.8
F(5%)		s	s	s	s	s	s

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Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Straw yield (kg/ha)	Plant Stand (000/ha)		
				Arbhavi	Hyderabad	Kolhapur
N Levels	Genotypes	Arbhavi	Hyderabad	Arbhavi	Hyderabad	Kolhapur
100:50:50	KMH-3712	6111	5775	61.4	61.1	61.7
	VMH 4060	5417	6225	61.9	64.1	64.4
	BL 2802	6333	5923	61.4	58.0	61.4
	KH-9452	4000	6338	62.2	61.1	59.7
	KH-717	4500	6005	61.9	58.0	54.2
	EC-3160	4667	6175	59.7	54.8	55.0
	MCH 37	4250	7182	60.8	63.7	56.4
	Navjot	3639	7047	62.2	64.1	61.9
	JH 31242	4694	6798	64.4	60.9	62.5
	HM 8	4000	6648	58.9	61.1	56.7
HM 9	2111	6785	53.3	57.8	58.1	
150:65:65	KMH-3712	4222	6052	57.2	62.2	65.3
	VMH 4060	3944	6550	54.2	64.6	63.9
	BL 2802	4889	6307	55.3	59.1	60.8
	KH-9452	3750	6708	49.7	61.9	60.8
	KH-717	3722	6275	56.4	58.9	58.1
	EC-3160	3778	6765	56.7	59.3	56.9
	MCH 37	4944	7717	55.8	65.6	60.6
	Navjot	3944	7319	56.9	64.3	62.2
	JH 31242	4417	6967	63.1	64.6	62.5
	HM 8	3889	7257	54.7	61.7	60.8
HM 9	2722	7097	53.6	58.5	56.9	
200:80:80	KMH-3712	6389	6317	58.1	62.8	60.8
	VMH 4060	5389	6590	61.7	65.2	63.9
	BL 2802	5000	7067	53.3	59.8	58.9
	KH-9452	3722	7008	52.5	62.6	60.6
	KH-717	3944	6740	53.1	59.6	59.7
	EC-3160	3778	7115	53.1	60.2	60.3
	MCH 37	5111	7857	53.3	64.8	63.1
	Navjot	3722	7368	57.2	65.0	60.3
	JH 31242	4056	7137	60.3	65.2	65.3
	HM 8	4944	7760	55.0	62.2	60.0
HM 9	3667	7583	43.9	59.4	59.4	

Location mean	4356.5	6801.7	57.3	61.6	60.4
C.D.(5%) AiBj-AiBk	471.7	565.2	4.5	7.9	4.6
C.D.(5%) AiBk-AjBk	513.0	543.8	4.6	7.5	5.0
F(5%)	s	n.s.	s	n.s.	n.s.

100:50:50	4468	6446	60.9	60.4	59.3
150:65:65	4032	6819	56.0	61.9	60.8
200:80:80	4569	7140	55.0	62.4	61.1

C.D.(5%) Ai-Aj	251.9	75.6	1.6	0.5	2.4
C.V.(%) Error A	8.8	1.6	4.2	1.2	5.8
F(5%)	s	s	s	s	n.s.

KMH-3712	5574	6048	58.9	62.0	62.6
VMH 4060	4917	6455	59.3	64.6	64.1
BL 2802	5407	6432	56.7	59.0	60.4
KH-9452	3824	6685	54.8	61.9	60.4
KH-717	4056	6340	57.1	58.8	57.3
EC-3160	4074	6685	56.5	58.1	57.4
MCH 37	4769	7585	56.7	64.7	60.0
Navjot	3769	7245	58.8	64.4	61.5
JH 31242	4389	6967	62.6	63.6	63.4
HM 8	4278	7222	56.2	61.7	59.2
HM 9	2833	7155	50.3	58.6	58.1

C.D.(5%)Bi-Bj	272.3	326.3	2.6	4.5	2.7
C.V.(%)ErrorB	6.6	5.1	4.9	7.8	4.7
F(5%)	s	s	s	s	s

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Main Plot	Sub Plot	No. of Cob (000/ha)			Plant height (cm)		
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur
100:50:50	KMH-3712	61.4	49.6	63.9	165.0	209.8	180.0
	VMH 4060	63.1	55.4	66.1	157.7	204.7	179.7
	BL 2802	61.4	49.6	63.6	167.0	210.4	171.0
	KH-9452	60.8	55.2	60.6	148.0	201.8	169.3
	KH-717	62.2	54.6	55.3	155.7	202.0	164.7
	EC-3160	57.2	52.8	55.3	158.0	208.9	178.7
	MCH 37	61.4	56.3	56.7	179.3	231.0	176.0
	Navjot	61.7	57.2	63.6	162.3	213.2	172.3
	JH 31242	64.4	53.7	63.3	158.0	215.2	171.0
	HM 8	56.7	52.2	56.9	165.3	216.3	179.3
HM 9	54.2	53.1	58.6	152.7	219.7	172.3	
150:65:65	KMH-3712	58.6	56.9	70.3	167.3	215.0	186.3
	VMH 4060	52.5	57.6	68.1	164.3	213.8	190.7
	BL 2802	53.9	54.3	61.9	159.7	218.3	175.3
	KH-9452	48.6	62.2	61.9	150.7	210.7	172.3
	KH-717	53.9	63.3	58.3	154.0	209.9	181.7
	EC-3160	56.7	58.7	57.2	166.7	216.2	184.0
	MCH 37	53.3	60.7	61.4	181.0	231.9	189.0
	Navjot	56.9	59.6	63.3	153.7	221.0	179.0
	JH 31242	60.3	59.6	63.3	157.3	221.0	175.0
	HM 8	53.6	57.0	64.7	182.0	228.5	181.0
HM 9	51.4	57.8	57.5	153.3	221.8	179.0	
200:80:80	KMH-3712	56.4	60.7	63.1	175.0	219.9	193.3
	VMH 4060	61.9	57.6	64.7	166.3	220.5	196.7
	BL 2802	53.1	52.4	59.7	169.0	222.9	181.0
	KH-9452	52.2	60.4	61.7	146.0	216.2	180.3
	KH-717	52.8	58.3	60.6	146.0	214.6	188.7
	EC-3160	52.2	54.6	61.4	164.7	219.8	186.3
	MCH 37	53.1	61.5	65.8	193.7	234.9	192.0
	Navjot	56.1	58.9	60.6	165.7	224.7	181.7
	JH 31242	58.6	54.3	67.5	167.7	223.5	180.3
	HM 8	54.4	53.9	63.3	186.0	230.6	185.7
HM 9	44.4	55.4	59.7	146.0	224.5	184.7	
Location mean		56.6	56.5	61.8	164.0	218.0	180.6
C.D.(5%) AiBj-AiBk		4.8	5.1	5.0	9.4	11.4	8.4
C.D.(5%) AiBk-AjBk		4.8	5.6	5.9	9.7	11.1	8.6
F(5%)		s	n.s.	s	s	n.s.	n.s.
100:50:50		60.4	53.6	60.4	161.8	212.1	174.0
150:65:65		54.8	58.9	62.6	163.4	218.9	181.2
200:80:80		54.4	57.1	62.6	166.9	222.9	186.4
C.D.(5%) Ai-Aj		1.4	2.9	3.5	3.7	2.7	3.5
C.V.(%) Error A		3.9	7.4	8.3	3.5	1.8	2.8
F(5%)		s	s	n.s.	s	s	s
KMH-3712		58.8	55.7	65.7	169.1	214.9	186.6
VMH 4060		59.2	56.9	66.3	162.8	213.0	189.0
BL 2802		56.1	52.1	61.8	165.2	217.2	175.8
KH-9452		53.9	59.3	61.4	148.2	209.6	174.0
KH-717		56.3	58.8	58.1	151.9	208.8	178.3
EC-3160		55.4	55.4	58.0	163.1	214.9	183.0
MCH 37		55.9	59.5	61.3	184.7	232.6	185.7
Navjot		58.2	58.6	62.5	160.6	219.6	177.7
JH 31242		61.1	55.9	64.7	161.0	219.9	175.4
HM 8		54.9	54.4	61.7	177.8	225.1	182.0
HM 9		50.0	55.4	58.6	150.7	222.0	178.7
C.D.(5%)Bi-Bj		2.8	2.9	2.9	5.4	6.6	4.8
C.V.(%)ErrorB		5.2	5.5	5.0	3.5	3.2	2.8
F(5%)		s	s	s	s	s	s

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Main Plot	Sub Plot	Cob placement (cm)	Days to 50% Tasseling		Days to 50% Silking	Shelling (%)	
			Hyderabad	Kolhapur		Hyderabad	Arbhavi
N Levels	Genotypes	Arbhavi	Hyderabad	Kolhapur	Hyderabad	Arbhavi	Hyderabad
100:50:50	KMH-3712	91.0	56.3	55.3	58.7	85.9	69.2
	VMH 4060	89.3	57.0	55.3	59.0	85.2	72.3
	BL 2802	86.7	57.0	56.0	59.3	85.8	75.0
	KH-9452	71.3	56.3	55.3	58.7	84.7	72.4
	KH-717	82.3	57.3	56.3	59.3	83.8	69.5
	EC-3160	82.7	57.0	55.0	59.3	84.6	76.6
	MCH 37	86.0	58.3	56.7	60.3	86.3	81.0
	Navjot	81.3	56.7	54.7	58.7	84.5	76.2
	JH 31242	83.0	57.7	54.7	59.3	82.6	79.8
	HM 8	89.0	57.0	55.3	59.0	84.2	78.3
HM 9	70.3	56.7	57.3	58.7	83.2	70.8	
150:65:65	KMH-3712	90.7	57.7	54.3	60.0	83.6	70.5
	VMH 4060	79.3	58.0	54.7	59.3	85.4	72.4
	BL 2802	78.3	58.0	55.3	60.0	83.8	76.1
	KH-9452	76.3	57.3	55.0	59.3	84.4	75.2
	KH-717	79.0	57.7	55.3	59.3	82.9	73.7
	EC-3160	80.3	59.0	53.3	60.7	85.2	72.2
	MCH 37	85.3	58.0	55.3	59.0	86.3	78.6
	Navjot	76.0	57.7	52.3	59.7	84.0	81.4
	JH 31242	81.0	58.3	53.0	60.3	86.0	77.1
	HM 8	86.3	58.0	54.0	59.7	85.1	77.6
HM 9	75.3	57.7	57.0	59.7	84.0	78.6	
200:80:80	KMH-3712	95.7	56.7	53.7	59.7	84.0	71.9
	VMH 4060	86.7	57.3	54.0	59.7	85.0	73.8
	BL 2802	83.0	58.3	53.7	60.7	85.9	76.4
	KH-9452	73.0	57.3	54.3	60.3	85.1	76.3
	KH-717	78.0	58.0	54.3	60.3	84.6	74.9
	EC-3160	82.0	58.0	52.7	61.0	85.5	74.4
	MCH 37	89.0	59.0	55.0	60.7	85.9	80.0
	Navjot	83.3	59.0	52.3	59.7	84.0	77.2
	JH 31242	93.3	58.7	52.3	59.7	84.8	77.0
	HM 8	83.0	58.3	52.3	59.7	84.9	77.0
HM 9	77.3	57.7	56.0	59.7	84.6	77.4	
Location mean		83.1	57.7	54.6	59.6	84.7	75.5
C.D.(5%) AiBj-AiBk		7.7	1.3	1.1	1.2	3.1	4.8
C.D.(5%) AiBk-AjBk		9.9	1.3	1.0	1.2	3.2	4.9
F(5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	83.8	57.0	55.6	59.1	84.6	74.7
150:65:65	80.7	57.9	54.5	59.7	84.5	75.8
200:80:80	84.8	58.0	53.7	60.1	85.0	76.0
C.D.(5%) Ai-Aj	6.8	0.2	0.2	0.5	1.2	1.8
C.V.(%) Error A	12.4	0.5	0.5	1.2	2.2	3.5
F(5%)	n.s.	s	s	s	n.s.	n.s.
KMH-3712	92.4	56.9	54.4	59.4	84.5	70.5
VMH 4060	85.1	57.4	54.7	59.3	85.2	72.9
BL 2802	82.7	57.8	55.0	60.0	85.2	75.9
KH-9452	73.6	57.0	54.9	59.4	84.7	74.6
KH-717	79.8	57.7	55.3	59.7	83.7	72.7
EC-3160	81.7	58.0	53.7	60.3	85.1	74.4
MCH 37	86.8	58.4	55.7	60.0	86.2	79.9
Navjot	80.2	57.8	53.1	59.3	84.2	78.3
JH 31242	85.8	58.2	53.3	59.8	84.5	78.0
HM 8	86.1	57.8	53.9	59.4	84.7	77.6
HM 9	74.3	57.3	56.8	59.3	83.9	75.6
C.D.(5%)Bi-Bj	4.4	0.7	0.6	0.7	1.8	2.8
C.V.(%)ErrorB	5.7	1.4	1.2	1.2	2.3	3.9
F(5%)	s	s	s	n.s.	n.s.	s

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Table 7 (a): Relative performance of pre-release germplasm of Medium Maturity at levels of Nitrogen during Kharif 2010 at Karimnagar Zone IV.

Main Plot (N Levels)	Sub Plot (Genotypes)	Grain yield (kg/ha)	Plant Height (cm)	Cob length (cm)	Cob girth (cm)	No. of rows/cob	Shelling (%)	100 grain weight (g)
F1	KMH-3712	6162	209.7	17.6	15.8	14.1	73.7	32.7
	VMH 4060	7118	209.0	19.3	16.6	15.8	72.5	30.7
	BL 2802	8979	201.0	19.7	17.7	16.6	72.7	30.7
	KH-9452	6833	195.3	18.1	16.0	14.9	75.4	33.3
	KH-717	6318	192.3	17.8	15.9	14.6	72.3	33.3
	EC-3160	5886	203.7	17.5	15.2	13.9	72.6	29.3
	MCH 37	7860	219.0	19.4	17.4	16.3	74.1	32.0
	Navjot	5386	200.0	17.4	14.8	13.8	81.8	26.7
	JH 31242	7105	214.3	19.1	16.3	15.5	73.4	33.3
	HM 8	5615	231.7	17.2	14.9	14.1	71.0	27.4
	HM 9	4744	197.3	16.7	14.0	13.8	80.5	32.7
F2	KMH-3712	6106	209.3	17.5	15.6	14.0	70.5	28.7
	VMH 4060	6648	206.7	19.1	16.6	15.6	71.9	29.3
	BL 2802	7889	191.7	19.5	17.5	16.4	72.5	29.3
	KH-9452	6437	189.7	18.0	15.8	14.7	72.6	30.7
	KH-717	6223	185.7	17.7	15.5	14.4	71.5	30.0
	EC-3160	5814	204.3	17.5	15.1	13.7	72.3	28.0
	MCH 37	6831	217.7	19.1	17.1	15.9	71.7	32.0
	Navjot	5243	198.7	16.7	14.5	13.7	76.5	0.0
	JH 31242	6654	200.7	18.7	16.1	15.3	73.4	28.7
	HM 8	5671	222.0	16.8	14.8	13.6	70.1	26.7
	HM 9	3772	195.3	16.1	13.8	13.5	74.8	30.0
F3	KMH-3712	5243	208.0	17.3	15.3	13.9	65.3	28.0
	VMH 4060	5807	203.0	18.7	16.3	15.3	71.6	27.3
	BL 2802	6925	191.0	19.4	17.5	16.1	72.4	29.3
	KH-9452	5604	181.0	18.0	15.7	14.2	68.8	26.0
	KH-717	5420	182.7	17.4	15.5	14.0	70.6	26.0
	EC-3160	5187	199.7	17.1	15.0	13.5	68.8	26.0
	MCH 37	5919	215.7	18.8	16.6	15.6	71.6	32.0
	Navjot	5006	195.0	16.4	14.4	14.3	74.8	23.8
	JH 31242	5834	197.7	18.2	16.0	15.1	71.5	27.3
	HM 8	5137	213.3	16.7	14.8	13.4	69.5	23.3
	HM 9	3742	188.7	15.9	13.8	13.3	73.6	27.3
F4	KMH-3712	4693	207.7	17.2	15.1	13.9	64.7	25.7
	VMH 4060	5083	192.0	18.2	15.6	15.1	66.7	25.3
	BL 2802	6474	190.0	19.3	17.2	16.0	70.7	26.0
	KH-9452	4924	174.0	17.8	15.5	14.1	67.1	22.7
	KH-717	4733	181.3	17.2	15.4	14.0	63.4	26.1
	EC-3160	4543	198.7	16.9	15.0	13.3	67.7	26.0
	MCH 37	5250	209.0	18.7	16.0	15.5	67.4	27.3
	Navjot	4010	186.7	15.9	14.2	13.5	72.7	25.4
	JH 31242	5018	196.3	18.1	15.6	14.9	71.5	24.0
	HM 8	4319	206.7	16.5	14.6	13.2	68.5	22.7
HM 9	3527	188.0	15.8	13.7	13.1	70.4	23.0	

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		Grain yield (kg/ha)	Plant Height (cm)	Cob length (cm.)	Cob girth (cm.)	No. of rows/ cob (cm.)	Shelling (%)	100 grain wt (g)
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Location mean	5720.3	200.0	17.8	15.6	14.5	71.5	27.4
C.D.(5%) AiBj-AiBk	1522.3	21.2	2.2	1.6	1.4	6.8	6.6
C.D.(5%) AiBk-AjBk	1524.8	21.6	2.3	1.7	1.4	6.6	6.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

F1	6546	206.7	18.2	15.9	14.9	74.6	31.1
F2	6117	202.0	17.9	15.7	14.6	72.5	26.7
F3	5438	197.8	17.6	15.5	14.4	70.8	27.0
F4	4779	193.7	17.4	15.3	14.2	68.3	24.9

C.D.(5%) Ai-Aj	474.9	7.6	1.0	0.6	0.4	1.2	2.0
C.V.(%) Error A	13.8	6.3	9.5	6.8	4.1	2.9	12.0
F(5%)	s	s	n.s.	n.s.	s	s	s

KMH-3712	5551	208.7	17.4	15.4	14.0	68.6	28.8
VMH 4060	6164	202.7	18.8	16.3	15.4	70.7	28.2
BL 2802	7567	193.4	19.5	17.5	16.3	72.1	28.8
KH-9452	5950	185.0	18.0	15.7	14.5	71.0	28.2
KH-717	5674	185.5	17.5	15.6	14.3	69.5	28.9
EC-3160	5358	201.6	17.2	15.1	13.6	70.3	27.3
MCH 37	6465	215.3	19.0	16.8	15.8	71.2	30.8
Navjot	4911	195.1	16.6	14.5	13.8	76.5	19.0
JH 31242	6153	202.3	18.5	16.0	15.2	72.5	28.3
HM 8	5185	218.4	16.8	14.8	13.6	69.8	25.0
HM 9	3946	192.3	16.1	13.8	13.4	74.8	28.3

C.D.(5%)Bi-Bj	761.1	10.6	1.1	0.8	0.7	3.4	3.3
C.V.(%)ErrorB	16.4	6.5	7.6	6.4	5.9	5.8	14.7
F(5%)	s	s	s	s	s	s	s

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Table 8: Relative performance of pre-release germplasm of Medium Maturity at different levels of Nitrogen during Kharif 2010 at Zone V

Main Plot	Sub Plot	Grain Yield (kg/ha)				Cob Yield (kg/ha)	Fodder Yield (kg/ha)	
		N Levels	Genotypes	Banswara	Chhindwara			Godhra
100:50:50	KMH-3712		7083	6885	4444	2012	9444	5667
	EH-1858		5167	3737	3033	2018	6944	3822
	Navjot		5694	3926	3196	1324	7500	4022
	BIO 9637		7028	5615	3742	1653	9444	4667
	HM 8		6917	5170	3773	1016	9306	4778
	HM 9		3583	3881	3622	2530	4444	4667
150:65:65	KMH-3712		8167	7496	6384	2126	10556	8111
	EH-1858		5583	4381	3233	2124	7222	4133
	Navjot		6056	4104	3396	1423	7500	4311
	BIO 9637		8111	5800	4358	1714	10694	5467
	HM 8		8222	5311	4669	1143	10278	5822
	HM 9		3583	4526	4624	2639	4444	5844
200:80:80	KMH-3712		8389	7526	7498	2228	11389	9422
	EH-1858		6111	4507	3436	2238	7639	4289
	Navjot		6125	4133	3593	1389	8056	4489
	BIO 9637		8333	5833	4920	1714	11111	6133
	HM 8		8056	5430	6438	1160	10278	8067
	HM 9		4389	4800	5862	2597	6389	7289

Location mean	6477.6	5170.2	4456.8	1835.9	8479.9	5611.1
C.D.(5%) AiBj-AiBk	903.4	670.1	525.2	247.7	1264.8	636.2
C.D.(5%) AiBk-AjBk	980.8	650.5	559.6	259.6	1267.6	671.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s

100:50:50	5912	4869	3635	1759	7847	4604
150:65:65	6620	5270	4444	1861	8449	5615
200:80:80	6900	5372	5291	1888	9144	6615

C.D.(5%) Ai-Aj	546.6	228.6	297.4	129.2	540.2	347.9
C.V.(%) Error A	9.1	4.8	7.2	10.0	6.9	6.7
F(5%)	s	s	s	n.s.	s	s

KMH-3712	7880	7302	6109	2122	10463	7733
EH-1858	5620	4209	3234	2127	7269	4081
Navjot	5958	4054	3395	1378	7685	4274
BIO 9637	7824	5749	4340	1694	10417	5422
HM 8	7731	5304	4960	1106	9954	6222
HM 9	3852	4402	4703	2589	5093	5933

C.D.(5%)Bi-Bj	521.6	386.9	303.2	143.0	730.2	367.3
C.V.(%)ErrorB	8.4	7.8	7.1	9.5	8.9	6.8
F(5%)	s	s	s	s	s	s

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Main Plot	Sub Plot	Plant Stand (000/ha)				No. of cobs (000/ha)		
N Levels	Genotypes	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Udaipur
100:50:50	KMH-3712	66.1	64	61.3	53.3	68.3	65.2	47.5
	EH-1858	65.3	61	59.3	57.0	64.2	57.4	46.7
	Navjot	66.1	62	56.9	54.8	65.6	62.6	40.7
	BIO 9637	66.7	62	55.6	53.3	67.5	58.1	37.3
	HM 8	65.8	61	60.7	54.2	67.2	58.1	42.0
	HM 9	35.3	61	60.9	54.7	42.5	53.0	41.7
150:65:65	KMH-3712	66.7	65	62.2	53.3	75.6	67.8	48.2
	EH-1858	65.6	63	56.0	58.7	67.2	59.3	47.5
	Navjot	66.7	63	56.9	54.7	70.0	64.1	41.3
	BIO 9637	66.4	63	56.9	53.3	72.5	58.9	38.0
	HM 8	66.4	63	60.2	55.0	71.7	64.8	42.7
	HM 9	36.1	64	60.7	55.3	44.2	55.9	42.0
200:80:80	KMH-3712	66.7	65	61.8	53.3	77.8	70.4	48.0
	EH-1858	66.1	64	54.9	57.8	68.6	61.9	48.0
	Navjot	66.7	64	56.2	54.0	71.4	65.2	41.7
	BIO 9637	66.7	64	55.6	53.5	75.0	59.3	37.3
	HM 8	66.7	64	60.4	54.8	73.3	64.8	42.7
	HM 9	40.0	65	61.1	55.3	44.7	57.0	43.0

Location mean	61.4	63.3	58.8	54.8	66.0	61.3	43.1
C.D.(5%) AiBj-AiBk	3.7	2.6	2.4	3.9	6.4	9.3	5.3
C.D.(5%) AiBk-AjBk	3.7	2.5	2.9	4.2	7.2	9.3	5.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	60.9	62	59.1	54.6	62.5	59.1	42.6
150:65:65	61.3	64	58.8	55.1	66.9	61.8	43.3
200:80:80	62.1	65	58.3	54.8	68.5	63.1	43.4

C.D.(5%) Ai-Aj	1.6	0.7	1.9	2.2	4.2	3.8	2.9
C.V.(%) Error A	2.7	1.2	3.6	5.7	7.0	6.7	9.5
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.	n.s.

KMH-3712	66.5	65	61.8	53.3	73.9	67.8	47.9
EH-1858	65.6	63	56.7	57.8	66.7	59.5	47.4
Navjot	66.5	63	56.7	54.5	69.0	64.0	41.2
BIO 9637	66.6	63	56.0	53.4	71.7	58.8	37.6
HM 8	66.3	63	60.4	54.7	70.7	62.6	42.4
HM 9	37.1	64	60.9	55.1	43.8	55.3	42.2

C.D.(5%)Bi-Bj	2.1	1.5	1.4	2.3	3.7	5.4	3.1
C.V.(%)ErrorB	3.6	2.5	2.5	5.0	5.8	9.1	8.6
F(5%)	s	n.s.	s	s	s	s	s

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Main Plot	Sub Plot	Plant height (cm)				Days to 50% Silking				No. of PFSR affectrd plant/plot	Shelling (%)
		Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Godhra	Udaipur		
100:50:50	KMH-3712	260.0	213.7	59.0	176.3	61.3	52.0	173.0	10.5	82.3	
	EH-1858	266.0	222.0	60.0	177.1	66.0	55.0	165.3	18.0	82.5	
	Navjot	251.7	228.7	62.3	165.3	61.0	52.0	170.7	20.0	84.1	
	BIO 9637	263.0	250.3	63.7	164.3	63.7	51.3	180.7	30.3	85.9	
	HM 8	264.7	229.3	62.7	176.4	65.3	50.7	164.0	23.0	80.3	
	HM 9	268.3	214.3	63.3	176.5	68.0	52.7	163.0	22.0	85.2	
150:65:65	KMH-3712	266.7	225.0	61.0	178.3	65.3	51.7	171.7	10.5	82.6	
	EH-1858	269.0	237.3	60.7	176.6	70.7	54.0	164.3	18.0	82.6	
	Navjot	254.0	231.0	63.0	167.6	65.0	51.7	165.3	20.0	84.5	
	BIO 9637	265.3	263.3	63.3	166.7	67.7	51.3	182.3	20.0	86.5	
	HM 8	267.0	235.3	62.0	178.6	68.7	50.3	168.3	24.0	80.7	
	HM 9	271.3	228.0	64.3	180.0	71.3	52.7	166.3	24.5	86.3	
200:80:80	KMH-3712	269.0	230.7	60.7	179.8	67.3	51.3	160.3	12.3	82.3	
	EH-1858	271.7	237.7	63.3	178.9	70.3	54.0	164.0	18.0	82.4	
	Navjot	255.0	233.3	63.0	168.6	67.0	51.3	173.7	22.0	84.5	
	BIO 9637	267.0	268.3	63.3	167.2	68.3	51.3	183.0	21.0	86.5	
	HM 8	269.0	244.7	62.7	179.9	69.0	50.3	169.0	25.0	80.2	
	HM 9	272.7	229.3	63.7	179.4	72.7	52.3	168.7	25.0	85.3	

Location mean	265.1	234.6	62.3	174.3	67.1	52.0	169.6	20.2	83.6
C.D.(5%) AiBj-AiBk	13.2	6.4	1.3	9.1	2.0	1.5	20.5	3.1	3.5
C.D.(5%) AiBk-AjBk	12.8	9.2	1.4	9.8	2.2	1.5	19.3	3.2	3.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	262.3	226.4	61.8	172.6	64.2	52.3	169.4	20.6	83.4
150:65:65	265.6	236.7	62.4	174.6	68.1	51.9	169.7	19.5	83.9
200:80:80	267.4	240.7	62.8	175.6	69.1	51.8	169.8	20.5	83.5

C.D.(5%) Ai-Aj	4.7	7.3	0.7	5.2	1.2	0.8	4.6	1.6	1.9
C.V.(%) Error A	1.9	3.4	1.3	4.2	1.9	1.6	2.9	11.0	3.3
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.

KMH-3712	265.2	223.1	60.2	178.1	64.7	51.7	168.3	11.1	82.4
EH-1858	268.9	232.3	61.3	177.5	69.0	54.3	164.6	18.0	82.5
Navjot	253.6	231.0	62.8	167.2	64.3	51.7	169.9	20.7	84.4
BIO 9637	265.1	260.7	63.4	166.1	66.6	51.3	182.0	23.8	86.3
HM 8	266.9	236.4	62.4	178.3	67.7	50.4	167.1	24.0	80.4
HM 9	270.8	223.9	63.8	178.6	70.7	52.6	166.0	23.8	85.6

C.D.(5%)Bi-Bj	7.6	3.7	0.8	5.3	1.2	0.8	11.9	1.8	2.0
C.V.(%)ErrorB	3.0	1.6	1.3	3.7	1.8	1.7	7.3	10.7	3.0
F(5%)	s	s	s	s	s	s	n.s.	s	s

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Table 9: Relative performance of pre-release germplasm of Early Maturity at different levels of Nitrogen during Kharif 2010 at Zone II.

Main Plot	Sub Plot	Grain Yield (kg/ha)					Cob Yield (kg/ha)	Stover Yield (kg/ha)	
		N Levels	Genotypes	Delhi	Kanpur	Karnal			Ludhiana
100:50:50	R 2006-1		3200	5347	3299	4693	3400	7535	5422
	R 2007-1		5244	5903	3639	5609	5514	7917	6978
	JH-3459		4844	6493	4456	5406	6302	8333	6889
	Prakash		4578	6007	3980	5273	6509	8090	6889
	Navjot		3378	5868	4524	4456	5307	7986	5644
150:65:65	R 2006-1		4000	5660	3571	4906	3731	8021	6889
	R 2007-1		6000	6007	3844	5799	6633	8299	8311
	JH-3459		5644	6736	5340	5583	6965	9028	8400
	Prakash		5600	6424	4218	5732	6426	8854	8356
	Navjot		4222	6042	5102	4578	5763	8715	7156
200:80:80	R 2006-1		4222	6215	4320	4932	4643	8611	7644
	R 2007-1		6400	6389	3673	5852	6716	8854	9333
	JH-3459		6044	7153	5680	5755	6924	9931	9333
	Prakash		5956	6875	4524	6021	6509	9097	9289
	Navjot		4444	6771	5238	4617	5846	8854	8222

Location mean	4918.5	6259.3	4073.1	5280.9	5812.6	8541.7	7650.4
C.D.(5%) AiBj-AiBk	629.1	247.2	630.0	351.4	1470.8	329.5	455.9
C.D.(5%) AiBk-AjBk	589.8	292.1	601.3	393.5	1562.7	352.9	413.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	4249	5924	3980	5088	5406	7972	6364
150:65:65	5093	6174	4415	5320	5904	8583	7822
200:80:80	5413	6681	4687	5435	6128	9069	8764

C.D.(5%) Ai-Aj	182.4	195.3	212.7	242.8	866.8	199.4	72.6
C.V.(%) Error A	3.7	3.1	5.8	4.5	14.7	2.3	0.9
F(5%)	s	s	s	s	n.s.	s	s

R 2006-1	3807	5741	3529	4844	3925	8056	6652
R 2007-1	5881	6100	3427	5753	6288	8356	8207
JH-3459	5511	6794	4719	5582	6730	9097	8207
Prakash	5378	6435	4031	5675	6481	8681	8178
Navjot	4015	6227	4660	4550	5638	8519	7007

C.D.(5%)Bi-Bj	363.2	142.7	315.0	202.9	849.2	190.2	263.2
C.V.(%)ErrorB	7.6	2.3	9.3	3.9	15.0	2.3	3.5
F(5%)	s	s	s	s	s	s	s

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Main Plot	Sub Plot	Cob Yield with husk (Kg/ha)	Cob Yield without husk (Kg/ha)	Plant Stand (000/ha)				
				N Levels	Genotypes	Pantnagar	Pantnagar	Delhi
100:50:50	R 2006-1	7338	6177	65.3	61.1	50.0	82.3	69.7
	R 2007-1	11468	9660	64.9	62.2	49.7	83.0	83.7
	JH-3459	11443	10240	65.3	60.1	51.4	81.9	82.1
	Prakash	10323	9038	65.3	59.0	50.3	83.3	83.7
	Navjot	9163	7711	64.9	60.8	50.3	82.6	83.7
150:65:65	R 2006-1	7504	6260	64.9	60.4	50.0	81.9	71.3
	R 2007-1	12811	11650	65.3	63.2	49.3	81.6	85.4
	JH-3459	12438	10821	65.8	62.5	52.4	82.3	84.6
	Prakash	11153	9776	66.2	61.5	52.4	82.3	82.9
	Navjot	10033	8831	65.8	58.7	51.0	81.9	88.7
200:80:80	R 2006-1	9950	8789	64.9	61.5	49.7	81.6	68.0
	R 2007-1	12148	11028	65.3	62.2	52.4	82.6	86.2
	JH-3459	12231	10862	64.9	60.1	52.4	81.6	87.9
	Prakash	12090	10489	64.4	63.2	51.0	82.3	82.1
	Navjot	10531	9370	64.4	62.2	49.0	82.3	84.6

Location mean	10708.1	9380.3	65.2	61.2	50.6	82.2	81.6
C.D.(5%) AiBj-AiBk	1900.4	2024.0	2.1	3.1	4.9	3.9	11.9
C.D.(5%) AiBk-AjBk	2216.3	2264.4	2.6	4.2	5.6	4.1	11.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	9947	8566	65.2	60.6	50.3	82.6	80.6
150:65:65	10788	9468	65.6	61.3	51.0	82.0	82.6
200:80:80	11390	10108	64.8	61.8	50.9	82.1	81.8

C.D.(5%) Ai-Aj	1456.6	1395.3	1.9	3.1	3.5	2.3	2.9
C.V.(%) Error A	13.4	14.7	2.9	5.0	7.8	2.7	3.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

R 2006-1	8264	7076	65.0	61.0	50.2	81.9	69.7
R 2007-1	12142	10779	65.2	62.5	50.2	82.4	85.1
JH-3459	12037	10641	65.3	60.9	51.7	81.9	84.9
Prakash	11189	9768	65.3	61.2	50.7	82.6	82.9
Navjot	9909	8637	65.0	60.5	50.5	82.3	85.7

C.D.(5%)Bi-Bj	1097.2	1168.6	1.2	1.8	2.4	2.2	6.9
C.V.(%)ErrorB	10.5	12.8	1.9	3.0	5.8	2.8	8.7
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	s

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Main Plot	Sub Plot	No. of cobs (000/ha)			Plant height (cm)				
		Delhi	Ludhiana	Pantnagar	Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
100:50:50	R 2006-1	64.4	78.5	63.0	190.0	162.3	175.0	171.3	226.0
	R 2007-1	64.9	80.2	77.9	192.0	163.7	183.3	172.3	227.7
	JH-3459	65.3	78.8	84.6	182.0	161.0	173.3	157.3	219.3
	Prakash	64.9	81.6	77.1	185.7	162.3	210.0	161.7	223.7
	Navjot	64.4	79.2	71.3	191.3	161.7	180.0	180.7	225.7
150:65:65	R 2006-1	63.1	80.9	58.0	204.7	169.3	191.7	173.3	228.7
	R 2007-1	64.9	84.4	75.5	203.7	168.3	183.3	186.3	232.7
	JH-3459	65.3	81.6	78.8	193.0	168.3	181.7	166.7	223.7
	Prakash	65.8	84.0	81.3	198.7	168.7	191.7	166.0	227.0
	Navjot	64.9	81.3	70.5	203.0	168.3	191.7	181.7	229.7
200:80:80	R 2006-1	64.4	81.9	57.2	214.3	171.3	196.7	174.3	231.0
	R 2007-1	65.3	86.8	69.7	211.3	172.7	195.0	184.0	237.3
	JH-3459	64.9	81.9	83.7	204.3	174.7	178.3	171.0	233.0
	Prakash	63.6	85.1	88.7	205.7	175.0	185.0	172.3	228.7
	Navjot	64.0	83.0	77.9	210.3	173.0	205.0	185.0	231.3

Location mean	64.7	81.9	74.4	199.3	168.0	186.2	173.6	228.4
C.D.(5%) AiBj-AiBk	1.8	3.9	18.2	3.6	3.9	12.4	8.5	20.3
C.D.(5%) AiBk-AjBk	2.8	4.3	21.3	3.8	3.9	15.6	9.0	22.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:50:50	64.8	79.7	74.8	188.2	162.2	184.3	168.7	224.5
150:65:65	64.8	82.4	72.8	200.6	168.6	188.0	174.8	228.3
200:80:80	64.4	83.8	75.5	209.2	173.3	192.0	177.3	232.3

C.D.(5%) Ai-Aj	2.3	2.6	14.1	2.1	1.9	11.1	5.1	13.3
C.V.(%) Error A	3.5	3.1	18.7	1.1	1.1	6.7	2.9	5.7
F(5%)	n.s.	s	n.s.	s	s	n.s.	s	n.s.

R 2006-1	64.0	80.4	59.4	203.0	167.7	185.0	173.0	228.6
R 2007-1	65.0	83.8	74.4	202.3	168.2	186.7	180.9	232.6
JH-3459	65.2	80.8	82.4	193.1	168.0	178.8	165.0	225.3
Prakash	64.7	83.6	82.4	196.7	168.7	196.3	166.7	226.4
Navjot	64.4	81.1	73.2	201.6	167.7	184.2	182.4	228.9

C.D.(5%)Bi-Bj	1.0	2.2	10.5	2.1	2.2	6.2	4.9	11.7
C.V.(%)ErrorB	1.6	2.8	14.5	1.1	1.4	4.0	2.9	5.3
F(5%)	n.s.	s	s	s	n.s.	s	s	n.s.

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Main Plot	Sub Plot	Days to 50% Tasseling		Days to 50% Silking			Days to 75% Husk Brown
		Ludhiana	Pantnagar	Kanpur	Ludhiana	Pantnagar	Ludhiana
N Levels	Genotypes						
100:50:50	R 2006-1	56.0	56.3	46.0	58.7	60.0	91.7
	R 2007-1	56.0	54.7	46.7	59.0	59.0	92.3
	JH-3459	52.7	55.0	45.3	55.0	58.7	85.0
	Prakash	51.0	50.3	46.3	53.0	55.0	84.3
	Navjot	53.0	53.3	46.0	57.0	56.7	85.3
150:65:65	R 2006-1	55.3	56.3	47.0	57.7	60.0	90.0
	R 2007-1	55.0	56.7	45.3	57.7	59.7	88.7
	JH-3459	51.7	53.3	46.3	54.3	56.3	84.7
	Prakash	50.7	56.3	46.7	52.7	59.7	83.7
	Navjot	54.0	52.3	44.7	56.7	55.7	85.0
200:80:80	R 2006-1	54.7	55.0	46.0	56.7	57.3	89.3
	R 2007-1	54.3	56.3	47.3	56.7	59.7	88.0
	JH-3459	51.0	51.0	47.0	53.3	55.3	84.3
	Prakash	49.7	54.0	46.0	51.7	56.3	83.3
	Navjot	51.3	53.7	46.3	53.7	57.0	84.3

Location mean	53.1	54.3	46.2	55.6	57.8	86.7
C.D.(5%) AiBj-AiBk	1.9	1.4	2.2	2.2	1.2	3.3
C.D.(5%) AiBk-AjBk	1.9	1.6	2.2	2.1	1.5	3.4
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

100:50:50	53.7	53.9	46.1	56.5	57.9	87.7
150:65:65	53.3	55.0	46.0	55.8	58.3	86.4
200:80:80	52.2	54.0	46.5	54.4	57.1	85.9

C.D.(5%) Ai-Aj	1.0	1.1	1.0	0.9	1.2	1.6
C.V.(%) Error A	1.9	2.0	2.1	1.6	2.0	1.8
F(5%)	s	n.s.	n.s.	s	n.s.	n.s.

R 2006-1	55.3	55.9	46.3	57.7	59.1	90.3
R 2007-1	55.1	55.9	46.4	57.8	59.4	89.7
JH-3459	51.8	53.1	46.2	54.2	56.8	84.7
Prakash	50.4	53.6	46.3	52.4	57.0	83.8
Navjot	52.8	53.1	45.7	55.8	56.4	84.9

C.D.(5%)Bi-Bj	1.1	0.8	1.3	1.3	0.7	1.9
C.V.(%)ErrorB	2.1	1.5	2.8	2.3	1.2	2.3
F(5%)	s	s	n.s.	s	s	s

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Main Plot	Sub Plot	Ear height (cm)		Cob length (cm)		Cob girth (cm)	
		Karnal	Ludhiana	Ludhiana	Pantnagar	Ludhiana	Pantnagar
N Levels	Genotypes						
100:50:50	R 2006-1	106.7	73.3	14.1	14.8	4.1	13.7
	R 2007-1	98.3	88.3	15.2	15.4	4.2	14.2
	JH-3459	98.3	75.7	14.1	16.2	4.1	13.3
	Prakash	108.3	75.7	15.2	15.1	4.2	12.5
	Navjot	90.0	86.7	13.2	15.2	3.9	13.2
150:65:65	R 2006-1	100.0	85.0	14.5	15.0	4.0	13.9
	R 2007-1	91.7	90.0	15.5	17.2	4.3	14.6
	JH-3459	96.7	85.0	14.5	15.8	4.2	13.7
	Prakash	98.3	78.3	15.2	15.3	4.3	13.1
	Navjot	91.7	93.3	13.9	15.0	4.0	13.5
200:80:80	R 2006-1	98.3	86.7	14.8	16.1	4.2	14.3
	R 2007-1	101.7	93.3	15.6	17.3	4.3	14.8
	JH-3459	96.7	86.7	14.7	16.5	4.3	13.8
	Prakash	105.0	79.3	15.5	15.4	4.4	13.2
	Navjot	103.3	95.0	14.2	15.1	4.3	13.4

Location mean	95.9	84.8	14.7	15.7	4.2	13.7
C.D.(5%) AiBj-AiBk	5.9	6.2	1.2	2.1	0.2	1.1
C.D.(5%) AiBk-AjBk	7.9	6.9	1.1	2.1	0.2	1.1
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	100.3	79.9	14.3	15.3	4.1	13.4
150:65:65	95.7	86.3	14.7	15.7	4.2	13.8
200:80:80	101.0	88.2	15.0	16.1	4.3	13.9

C.D.(5%) Ai-Aj	6.0	4.1	0.4	0.9	0.1	0.5
C.V.(%) Error A	7.0	4.8	3.0	5.8	2.5	3.8
F(5%)	s	s	s	n.s.	s	n.s.

R 2006-1	99.2	81.7	14.4	15.3	4.1	14.0
R 2007-1	91.6	90.6	15.5	16.6	4.3	14.5
JH-3459	96.3	82.4	14.4	16.2	4.2	13.6
Prakash	103.3	77.8	15.3	15.3	4.3	12.9
Navjot	89.3	91.7	13.8	15.1	4.1	13.4

C.D.(5%)Bi-Bj	2.9	3.6	0.7	1.2	0.1	0.7
C.V.(%)ErrorB	3.7	4.3	4.7	7.9	2.4	4.9
F(5%)	s	s	s	n.s.	s	s

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Table 10: Relative performance of pre-release germplasm of Early Maturity at different levels of Nitrogen during Kharif 2010 at Zone IV.

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob yield (Kg/ha)		
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur
100:50:50	R 2006-1	5809	6348	5433	7028	8326	6742
	R 2007-1	7447	5702	5603	8889	8047	6919
	JH-3459	5884	5421	5708	7056	7791	7047
	Prakash	5838	5303	3886	6778	7516	4717
	Navjot	5285	5493	3778	6278	7777	4672
150:65:65	R 2006-1	5465	7180	6794	6556	9390	8403
	R 2007-1	8040	6360	7772	9778	8817	9561
	JH-3459	6448	6785	7789	7667	8947	9594
	Prakash	6331	7025	5472	7556	8637	6769
	Navjot	5130	6143	5325	5972	8635	6492
200:80:80	R 2006-1	5296	7323	7133	6444	9443	8903
	R 2007-1	6668	6920	8575	7944	8971	10522
	JH-3459	5740	6976	8261	7056	8997	10233
	Prakash	6765	7059	6119	7833	8943	7514
	Navjot	4557	6755	6100	5389	8860	7406

Location mean	6025.1	6453.0	6250.0	7190.3	8606.4	7699.6
C.D.(5%) AiBj-AiBk	478.3	498.4	893.4	587.8	639.5	1066.9
C.D.(5%) AiBk-AjBk	478.5	536.0	871.0	543.6	623.3	1072.1
F(5%)	s	n.s.	n.s.	s	n.s.	n.s.

100:50:50	6052	5654	4882	7206	7891	6019
150:65:65	6283	6699	6631	7506	8885	8164
200:80:80	5805	7007	7238	6933	9043	8916

C.D.(5%) Ai-Aj	217.0	305.8	357.3	140.4	255.3	503.0
C.V.(%) Error A	4.0	4.7	5.6	2.2	2.9	6.4
F(5%)	s	s	s	s	s	s

R 2006-1	5516	6951	6454	6639	9053	8016
R 2007-1	7416	6328	7317	8958	8612	9001
JH-3459	5959	6394	7253	7167	8578	8958
Prakash	6279	6462	5159	7333	8365	6333
Navjot	4956	6131	5068	5854	8424	6190

C.D.(5%)Bi-Bj	239.1	287.7	515.8	293.9	369.2	616.0
C.V.(%)ErrorB	4.8	4.6	8.5	4.9	4.4	8.2
F(5%)	s	s	s	s	s	s

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Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Straw yield (kg/ha)			
			Hyderabad	Arbhavi	Hyderabad	Kolhapur
N Levels	Genotypes	Arbhavi	Hyderabad	Arbhavi	Hyderabad	Kolhapur
100:50:50	R 2006-1	3528	6756	53.6	53.0	74.2
	R 2007-1	4389	6364	61.1	56.1	69.7
	JH-3459	3167	5548	52.5	54.8	76.1
	Prakash	3056	5697	60.3	56.7	70.6
	Navjot	3722	4997	59.4	55.0	66.9
150:65:65	R 2006-1	4222	6957	53.1	56.1	70.3
	R 2007-1	5611	6485	60.6	58.7	77.5
	JH-3459	4444	5741	62.2	59.3	78.9
	Prakash	3444	5993	55.8	61.1	74.4
	Navjot	3889	5413	58.6	63.0	73.9
200:80:80	R 2006-1	3222	7342	54.4	58.1	75.0
	R 2007-1	3417	6895	58.6	58.5	72.5
	JH-3459	2944	6073	56.4	59.3	78.1
	Prakash	2833	6457	58.6	58.7	68.3
	Navjot	2889	6024	57.2	61.9	72.5

Location mean	3602.8	6182.8	58.1	58.0	73.3
C.D.(5%) AiBj-AiBk	491.7	816.8	5.5	2.5	6.5
C.D.(5%) AiBk-AjBk	545.2	774.2	5.7	2.7	7.0
F(5%)	s	n.s.	n.s.	s	n.s.

100:50:50	3572	5872	57.4	55.1	71.5
150:65:65	4322	6118	58.1	59.6	75.0
200:80:80	3061	6558	57.1	59.3	73.3

C.D.(5%) Ai-Aj	325.6	264.4	2.9	1.5	4.0
C.V.(%) Error A	10.1	4.2	5.6	2.6	5.3
F(5%)	s	s	n.s.	s	n.s.

R 2006-1	3604	7018	53.5	55.7	73.1
R 2007-1	4507	6581	60.3	57.8	73.2
JH-3459	3389	5787	57.7	57.8	77.7
Prakash	3125	6049	59.1	58.8	71.1
Navjot	3389	5478	60.0	59.9	71.1

C.D.(5%)Bi-Bj	245.8	471.6	2.7	1.4	3.7
C.V.(%)ErrorB	8.2	7.8	5.7	2.5	5.2
F(5%)	s	s	s	s	s

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Main Plot	Sub Plot	No. of Cob (000/ha)			Plant height (cm)		
		Arbhavi	Hyderabad	Kolhapur	Arbhavi	Hyderabad	Kolhapur
100:50:50	R 2006-1	52.8	54.3	66.7	159.3	201.3	192.7
	R 2007-1	61.9	49.1	71.7	171.3	176.6	201.3
	JH-3459	54.2	55.9	75.8	144.7	178.3	175.3
	Prakash	59.4	55.6	70.0	154.3	188.2	189.0
	Navjot	64.2	55.2	71.1	160.0	170.9	190.0
150:65:65	R 2006-1	54.2	54.8	68.3	181.3	191.1	194.3
	R 2007-1	58.6	51.5	78.3	177.0	176.0	199.3
	JH-3459	63.9	56.1	78.9	158.0	192.1	192.7
	Prakash	54.2	58.5	72.8	154.0	206.4	190.7
	Navjot	63.3	57.4	74.4	162.9	182.3	194.0
200:80:80	R 2006-1	52.8	59.1	75.8	160.6	193.5	183.3
	R 2007-1	59.2	55.9	73.9	162.1	190.2	193.3
	JH-3459	58.3	55.6	80.6	148.3	199.7	170.0
	Prakash	59.4	57.8	70.0	160.8	213.6	200.0
	Navjot	46.9	58.9	74.2	164.7	195.7	198.3

Location mean	58.3	55.7	73.5	160.5	190.4	191.0
C.D.(5%) AiBj-AiBk	5.5	3.3	9.7	8.1	10.9	8.5
C.D.(5%) AiBk-AjBk	5.7	3.2	10.5	8.6	10.5	12.9
F(5%)	s	n.s.	n.s.	s	s	s

100:50:50	58.5	54.0	71.1	157.9	183.1	189.7
150:65:65	58.8	55.7	74.6	166.6	189.6	194.2
200:80:80	55.3	57.4	74.9	159.3	198.6	189.0

C.D.(5%) Ai-Aj	2.9	1.3	6.0	4.7	3.9	10.6
C.V.(%) Error A	5.5	2.3	8.1	3.3	2.0	5.5
F(5%)	s	s	n.s.	s	s	n.s.

R 2006-1	53.1	56.0	70.3	167.0	195.3	190.1
R 2007-1	60.8	52.2	74.6	167.5	180.9	198.0
JH-3459	59.7	55.9	78.4	149.1	190.1	179.3
Prakash	58.7	57.3	70.9	156.1	202.7	193.2
Navjot	59.2	57.2	73.2	162.8	183.0	194.1

C.D.(5%)Bi-Bj	2.8	1.9	5.6	4.0	6.3	4.9
C.V.(%)ErrorB	5.7	3.6	7.8	3.0	3.4	2.6
F(5%)	s	s	s	s	s	s

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Main Plot	Sub Plot	Cob placement (cm)	Days to 50% Tasseling		Days to 50% Silking	Shelling (%)	
			Hyderabad	Kolhapur		Hyderabad	Arbhavi
N Levels	Genotypes	Arbhavi	Hyderabad	Kolhapur	Hyderabad	Arbhavi	Hyderabad
100:50:50	R 2006-1	80.7	51.7	57.3	53.7	83.8	73.0
	R 2007-1	90.0	50.7	56.3	52.0	85.0	69.7
	JH-3459	77.3	49.7	53.7	51.3	84.6	69.0
	Prakash	86.7	50.3	53.0	52.7	85.8	66.2
	Navjot	89.7	48.7	54.7	51.3	84.1	67.8
150:65:65	R 2006-1	89.0	50.0	55.7	52.7	85.1	75.5
	R 2007-1	96.0	49.7	56.0	51.3	85.2	72.3
	JH-3459	85.2	51.0	53.3	52.3	84.7	71.6
	Prakash	76.3	51.0	52.0	49.7	84.5	67.8
	Navjot	87.3	50.0	53.3	50.7	85.3	69.6
200:80:80	R 2006-1	83.3	51.7	55.0	53.0	82.7	77.5
	R 2007-1	83.8	50.7	54.7	52.7	84.8	75.5
	JH-3459	77.7	50.7	51.7	53.0	82.1	72.5
	Prakash	80.7	51.0	50.7	53.7	86.0	69.6
	Navjot	76.3	52.0	52.7	54.7	84.4	70.6

Location mean	83.4	50.6	54.0	52.3	84.6	71.2
C.D.(5%) AiBj-AiBk	7.9	1.4	1.2	1.3	3.3	3.3
C.D.(5%) AiBk-AjBk	8.5	1.4	1.2	1.5	3.4	3.0
F(5%)	s	s	n.s.	s	n.s.	n.s.

100:50:50	84.9	50.2	55.0	52.2	84.7	69.2
150:65:65	86.8	50.3	54.1	51.3	85.0	71.4
200:80:80	80.4	51.2	52.9	53.4	84.0	73.1

C.D.(5%) Ai-Aj	4.8	0.6	0.6	1.0	1.7	0.9
C.V.(%) Error A	6.4	1.2	1.1	1.8	2.3	1.2
F(5%)	n.s.	s	s	s	n.s.	s

R 2006-1	82.8	51.1	56.0	53.1	84.3	75.3
R 2007-1	89.4	50.3	55.7	52.0	84.8	72.5
JH-3459	79.7	50.4	52.9	52.2	84.2	71.0
Prakash	82.1	50.8	51.9	52.0	85.6	67.9
Navjot	83.2	50.2	53.6	52.2	84.3	69.3

C.D.(5%)Bi-Bj	4.0	0.8	0.7	0.8	1.7	1.9
C.V.(%)ErrorB	5.7	1.7	1.3	1.5	2.4	2.7
F(5%)	s	n.s.	s	s	n.s.	s

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Main Plot	Sub Plot	Moisture (%)	Cob girth (Cm)	Cob length (cm)	No. of grain rows/cob	No. of grains/cob	Grain weight/cob (g)	100 grain weight (g)	
N Levels	Genotypes	Arbhavi			Hyderabad				
100:50:50	R 2006-1	16.4	15.4	17.7	15.1	15.3	304.0	159.0	29.8
	R 2007-1	16.5	14.4	15.9	14.8	14.7	271.3	144.2	28.8
	JH-3459	16.4	14.3	17.1	16.5	13.3	269.7	142.9	26.6
	Prakash	14.6	13.3	16.6	13.1	13.3	281.7	145.8	29.5
	Navjot	14.8	13.1	15.7	14.4	14.0	276.0	145.6	24.9
150:65:65	R 2006-1	17.0	16.5	17.8	15.5	16.7	321.7	166.7	31.0
	R 2007-1	18.5	15.2	16.8	14.5	14.7	288.0	148.2	29.7
	JH-3459	15.7	13.8	16.4	15.3	14.7	296.3	149.0	28.0
	Prakash	15.8	12.7	15.8	13.1	14.7	292.7	151.8	29.8
	Navjot	14.3	13.0	15.6	14.3	15.3	295.3	152.0	25.9
200:80:80	R 2006-1	15.7	14.5	16.2	15.5	14.7	330.3	173.1	31.2
	R 2007-1	16.1	15.7	17.1	14.5	15.3	296.0	150.4	30.6
	JH-3459	15.9	14.3	15.6	15.9	16.0	308.3	156.5	29.3
	Prakash	14.6	12.9	15.1	12.7	14.7	306.0	156.0	31.4
	Navjot	14.9	13.3	15.9	13.3	15.3	302.3	154.5	27.7

Location mean	15.9	14.3	16.4	14.6	14.8	296.0	153.0	28.9
C.D.(5%) AiBj-AiBk	1.3	1.1	1.1	1.0	2.1	24.5	10.2	1.5
C.D.(5%) AiBk-AjBk	1.4	1.1	1.2	1.1	2.2	22.9	11.2	1.3
F(5%)	s	s	s	s	n.s.	n.s.	n.s.	n.s.

100:50:50	15.8	14.1	16.6	14.8	14.1	280.5	147.5	27.9
150:65:65	16.3	14.3	16.5	14.5	15.2	298.8	153.5	28.9
200:80:80	15.4	14.1	16.0	14.4	15.2	308.6	158.1	30.0

C.D.(5%) Ai-Aj	0.7	0.6	0.7	0.7	1.2	6.8	6.6	0.2
C.V.(%) Error A	5.0	4.6	4.9	5.2	7.6	2.3	4.2	0.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	s	s

R 2006-1	16.4	15.4	17.3	15.3	15.6	318.7	166.3	30.7
R 2007-1	17.3	15.1	16.6	14.6	14.9	285.1	147.6	29.7
JH-3459	16.3	14.2	16.1	15.9	14.7	291.4	149.4	28.0
Prakash	15.0	13.3	15.9	13.4	14.2	293.4	151.2	30.2
Navjot	14.6	13.3	16.1	13.9	14.9	291.2	150.7	26.2

C.D.(5%)Bi-Bj	0.7	0.6	0.6	0.5	1.2	14.2	5.9	0.8
C.V.(%)ErrorB	4.9	4.7	4.2	4.2	8.4	4.9	4.0	3.0
F(5%)	s	s	s	s	n.s.	s	s	s

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Table 10 (a): Relative performance of pre-release germplasm of Early Maturity at different levels of Nitrogen during Kharif 2010 at Karimnagar Zone IV.

Main Plot (N Levels)	Sub Plot (Genotypes)	Grain yield (kg/ha)	Plant Height (cm)	Cob length (cm.)	Cob girth (cm.)	No. of rows/ cob (cm.)	Shelling (%)	100 grain wt (g)
F1	R 2006-1	5628	192.7	17.4	15.6	14.6	78.3	31.4
	R 2007-1	6324	205.3	19.7	16.3	15.3	82.6	33.2
	JH-3459	4831	180.7	16.7	14.7	13.7	70.3	29.0
	Prakash	5115	183.7	16.9	14.7	14.3	72.4	29.2
	Navjot	4513	177.7	16.3	13.0	13.2	67.8	26.9
F2	R 2006-1	5918	192.3	16.7	14.8	14.4	72.4	29.8
	R 2007-1	6543	201.0	18.4	16.0	14.9	77.7	32.0
	JH-3459	4838	178.0	16.0	13.7	12.8	69.7	27.3
	Prakash	5231	184.0	16.5	13.8	14.1	71.3	29.0
	Navjot	4581	175.3	15.6	13.2	12.4	65.1	26.7
F3	R 2006-1	4781	191.7	16.6	14.7	14.2	71.2	29.4
	R 2007-1	5443	197.0	18.3	15.5	14.8	73.1	31.0
	JH-3459	3639	181.7	15.6	13.1	12.4	67.4	27.1
	Prakash	4225	182.7	16.3	13.4	13.8	70.1	28.8
	Navjot	3030	173.0	14.4	12.8	12.1	64.4	25.7
F4	R 2006-1	3487	189.0	16.6	14.5	13.5	70.7	29.5
	R 2007-1	4516	192.3	18.2	15.1	14.5	72.4	30.5
	JH-3459	2929	170.3	14.0	12.4	12.2	64.2	26.7
	Prakash	3164	177.0	14.7	13.1	13.0	68.5	28.0
	Navjot	2647	164.0	13.9	12.1	11.6	62.9	25.0

Location mean	4569.2	184.5	16.4	14.1	13.6	70.6	28.8
C.D.(5%) AiBj-AiBk	1529.6	24.6	2.4	1.8	1.5	5.7	4.7
C.D.(5%) AiBk-AjBk	1479.7	26.4	2.3	2.1	1.6	7.1	4.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F1	5282	188.0	17.4	14.9	14.2	74.3	29.9
F2	5422	186.1	16.6	14.3	13.7	71.2	28.9
F3	4223	185.2	16.3	13.9	13.5	69.2	28.4
F4	3349	178.5	15.5	13.4	13.0	67.7	27.9

C.D.(5%) Ai-Aj	570.8	14.9	0.8	1.3	1.0	5.1	1.8
C.V.(%) Error A	14.0	9.0	5.4	10.3	8.0	8.0	6.9
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.	n.s.

R 2006-1	4953	191.4	16.9	14.9	14.2	73.1	30.0
R 2007-1	5707	198.9	18.6	15.7	14.9	76.4	31.7
JH-3459	4059	177.7	15.6	13.5	12.8	67.9	27.5
Prakash	4434	181.8	16.1	13.8	13.8	70.6	28.7
Navjot	3693	172.5	15.1	12.8	12.3	65.1	26.1

C.D.(5%)Bi-Bj	764.8	12.3	1.2	0.9	0.7	2.8	2.3
C.V.(%)ErrorB	20.1	8.0	8.7	7.8	6.6	4.8	9.7
F(5%)	s	s	s	s	s	s	s

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Table 11: Effect of residue management and tillage practices on productivity and soil health in maize-wheat cropping sequence at Udaipur.

Main Plot (Tillage)	Sub Plot (Residue Levels)	Grain yield (kg/ha)	Stover yield (kg/ha)	No. of plant (000/ha)	No. of cob (000/ha)	cob length (cm)
Zero Till	With	3531	3618	62.2	61.3	20.1
	Without	3431	3509	61.2	60.7	19.1
Bed Planting	With	2940	3008	61.5	60.6	18.0
	Without	3040	4662	61.5	60.4	18.1
Conventional	With	3150	4797	60.9	60.0	17.1
	Without	2440	3689	61.0	59.7	16.0

Location mean	3088.6	3880.6	61.4	60.5	18.1
C.D.(5%) AiBj-AiBk	660.5	833.0	5.3	5.4	1.9
C.D.(5%) AiBk-AjBk	606.7	754.6	4.8	4.9	1.8
F(5%)	n.s.	s	n.s.	n.s.	n.s.

Zero Till	3481	3564	61.7	61.0	19.6
Bed Planting	2990	3835	61.5	60.5	18.1
Conventional	2795	4243	61.0	59.9	16.6

C.D.(5%) Ai-Aj	389.0	473.9	3.0	3.0	1.2
C.V.(%) Error A	7.9	7.6	3.1	3.1	4.2
F(5%)	s	s	n.s.	n.s.	s

With residue	3207	3808	61.5	60.6	18.4
Without residue	2970	3953	61.2	60.3	17.8

C.D.(5%)Bi-Bj	381.4	481.0	3.1	3.1	1.1
C.V.(%)ErrorB	10.7	10.7	4.3	4.5	5.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

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Table 12: Effect of tillage practices x germ plasm on productivity and soil health in maize-wheat cropping sequence at Udaipur.

Main Plot (Tillage)	Sub Plot (Germplasm)	Grain yield (kg/ha)	Stover yield (kg/ha)	No. of plant (000/ha)	No. of cob (000/ha)	cob length (cm)
Zero Till	G ₁	4030	6187	62.7	62.1	21.1
	G ₂	4069	6251	61.9	61.3	20.4
Bed Planting	G ₁	3649	5614	62.2	61.9	19.1
	G ₂	3040	4610	60.4	63.0	19.2
Conventional	G ₁	3125	4739	60.1	63.6	18.1
	G ₂	2652	3993	60.6	64.7	17.6

Location mean	3427.6	5232.5	61.3	62.8	19.2
C.D.(5%) AiBj-AiBk	621.7	968.2	4.9	5.3	1.9
C.D.(5%) AiBk-AjBk	580.2	845.1	4.6	5.1	1.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Zero Till	4050	6219	62.3	61.7	20.8
Bed Planting	3344	5112	61.3	62.4	19.1
Conventional	2889	4366	60.4	64.1	17.8

C.D.(5%) Ai-Aj	380.4	498.0	3.0	3.5	1.1
C.V.(%) Error A	6.9	5.9	3.1	3.5	3.7
F(5%)	s	s	n.s.	n.s.	s

G ₁	3601	5514	61.7	62.5	19.4
G ₂	3254	4951	61.0	63.0	19.1

C.D.(5%)Bi-Bj	358.9	559.0	2.8	3.1	1.1
C.V.(%)ErrorB	9.1	9.3	4.0	4.2	5.0
F(5%)	n.s.	s	n.s.	n.s.	n.s.

Germ plasm	Code
(i) HQPM-1	G ₁
(ii) Pratap Hybrid-2	G ₂

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Table 13: Site specific nutrient management in Maize-Wheat cropping system at Bajaura.

Treatments	Grain yield (kg/ha)	Plant Stand ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)	Barrenness (%)
T ₁	1904	74.1	53.7	126.2	27.3
T ₂	9210	81.5	78.5	189.6	5.0
T ₃	8488	81.9	78.9	183.8	4.6
T ₄	8555	77.4	78.2	175.4	5.3
T ₅	2391	78.1	70.4	134.8	9.9
T ₆	7529	76.7	75.2	171.0	5.4
T ₇	8584	75.6	75.9	167.9	3.4
Mean	6666.0	77.9	73.0	164.1	8.7
CD	562.6	6.0	6.0	7.6	3.3
CV (%)	4.7	4.3	4.7	2.6	21.5
Significance	S	N.S.	S	S	S

Treatment details

S.No	Kharif (Maize)
1	Control (no fertilizers)
2	State recommendations of nutrients (120:60:40)
3	N+ P ₂ O ₅ + K ₂ O+ZnSO ₄ , 150 + 60+ 40 + 25 kg/ha
4	N+ P ₂ O ₅ + K ₂ O+ZnSO ₄ , 188 + 79+ 0 + 25 kg/ha
5	P ₂ O ₅ + K ₂ O+ZnSO ₄ , 79+ 0 + 25 kg/ha
6	N+ K ₂ O+ZnSO ₄ , 188 + 0 + 25 kg/ha
7	N+ P ₂ O ₅ +ZnSO ₄ , 188 + 79+ 25 kg/ha

S.No	Rabi (Wheat)
1	Control (no fertilizers)
2	State recommendations of nutrients (120:60:30)
3	N+ P ₂ O ₅ + K ₂ O, 120 + 60+ 40 kg/ha
4	N+ P ₂ O ₅ + K ₂ O, 188 + 97+ 0 kg/ha
5	P ₂ O ₅ + K ₂ O, 97+ 0 kg/ha
6	N+ K ₂ O, 188 + 0 kg/ha
7	N+ P ₂ O ₅ , 188 + 97kg/ha

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Table 14: Site Specific Nutrient Management (SSNM) in maize-wheat cropping system at Arbhavi

Treatments	Grain Yield (Kg/ha)	Cob yield (Kg/ha)	Fodder Yield (Kg/ha)	Plant Stand (000/ha)	No. of Cob (000/ha)	Moisture (%)
T ₁	3587	4611	3556	62.8	63.3	22.1
T ₂	5745	7417	4889	64.4	64.2	21.4
T ₃	5571	7167	4500	60.3	64.2	22.4
T ₄	5386	7000	4667	63.6	63.9	22.3
T ₅	4801	6167	4389	63.3	64.7	21.4
T ₆	4775	6111	4389	61.9	61.1	21.0
T ₇	5360	6889	4056	60.6	62.2	22.0

Mean	5032.3	6480.2	4349.2	62.4	63.4	21.8
CD	502.4	473.7	442.0	7.1	6.2	2.4
CV (%)	5.6	4.1	5.7	6.3	5.5	6.2
Significance	S	S	S	N.S.	N.S.	N.S.

Treatments	Cob girth (Cm)	Cob length (cm)	No. of rows/cob	Plant height (cm)	Cob placement (cm)	Shelling (%)
T ₁	15.4	4.1	12.7	134.7	46.0	83.7
T ₂	15.1	4.1	13.7	142.3	60.3	82.8
T ₃	16.4	4.4	13.6	148.3	65.0	84.0
T ₄	15.9	4.3	13.7	138.7	55.0	83.0
T ₅	14.9	3.9	11.9	137.0	51.3	83.2
T ₆	14.8	4.3	13.3	135.6	51.5	83.1
T ₇	15.8	4.2	13.5	140.7	55.0	83.6

Mean	15.5	4.2	13.2	139.6	54.9	83.3
CD	1.1	0.4	1.0	6.9	7.2	2.2
CV (%)	4.0	4.8	4.1	2.8	7.3	1.5
Significance	N.S.	N.S.	S	S	S	N.S.

Treatment Details:

Fertilizers applied	N	P2O5 kg/ha	K2O
T1 – Control	0	0	0
T2 – State RDF	150	75	37.5
T3 – DMR RDF	120	60	40
T4 – SSNM for NPK	130	60	0
T5 – SSNM for N	0	60	0
T6 – SSNM for P	130	0	0
T7 – SSNM for K	130	60	0

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Table 15: Site-specific nutrient management in rice-maize cropping system at Godhra.

Treatment	Grain Yield (kg/ha)	Fodder Yield (kg/ha)	Plant Stand (000/ha)	Panicle Length (cm)	Finger of Tillers
T ₁	2698	3600	152.7	21.0	10.0
T ₂	3020	5867	148.7	21.3	12.7
T ₃	7240	9200	156.0	22.7	18.3
T ₄	6789	8511	154.0	22.3	16.7
T ₅	3604	4889	149.0	21.7	12.0
T ₆	4571	5933	152.3	20.7	14.0
T ₇	6951	8933	154.0	22.3	18.0

Mean	4981.9	6704.8	152.4	21.7	14.5
CD	690.1	856.4	7.2	1.9	1.7
CV (%)	7.8	7.2	2.7	4.9	6.6
Significance	S	S	N.S.	N.S.	S

Treatments	N:P:K	ZnSO ₄ (kg/ha)
T ₁	00:00:0	0
T ₂	100:25:00	0
T ₃	150:60:40	25
T ₄	277.5:120.4:00	0
T ₅	00:120.4:0	25
T ₆	277.5:00:00	25
T ₇	226:120.4:0	25

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Table 16: Impact of site specific nutrient management on productivity of quality protein maize at Udaipur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	No. of plant (000/ha)	No. of cob (000/ha)	No. of cob /plant
T ₁	2738	4036	59.7	57.3	0.9
T ₂	3421	5228	60.0	58.7	1.0
T ₃	3503	5139	60.5	59.7	1.1
T ₄	4035	6136	61.3	60.0	1.1
T ₅	2816	4125	60.0	58.0	0.9
T ₅	3416	5138	60.2	58.8	1.0
T ₇	4014	6119	61.0	59.3	1.0
Mean	3420.5	5131.4	60.4	58.8	1.0
CD	485.5	784.8	5.3	5.2	0.1
CV (%)	9.6	10.3	5.9	6.0	9.5
Significance	S	S	N.S.	N.S.	N.S.

Treatment Details:

T1	Control (no fertilizers)	Control
T2	State recommendations of nutrients Improved nutrient recommendation	(115 +40 +30 Kg N + P2O5 +K2O/ha)
T3	(National level recommendation) (120 + 60 + 40 + 25 kg/ha)	N+P2O5+K2O+ZnSo4
T4	Site-specific nutrient management (SSNM)* (229+72+0+25 kg/ha)	N+P2O5+K2O+ZnSo4
T5	SSNM-Nitrogen (72+ 0+25kg/ha)	P2O5+K2O+ZnSo4
T6	SSNM-Phosphorus (229+0+25)	N+K2O+ZnSo4
T7	SSNM-Potash	N+P2O5+ZnSo4(229+72+25 kg/ha)

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Table 17: Evaluation of interactive effects of plant density, geometry and fertility levels on the productivity of QPM at Almora

Main Plot (Row Arrang.)	Sub Plot (Spacing)	Grain yield (kg/ha)	Straw yield (kg/ha)	No. of plants/ha	No. of cobs/ha	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Shellin g (%)
RA ₁	S ₁	6435	8588	42644	42644	46.0	48.0	281.2	16.0	15.4	81.9
	S ₂	7398	9111	49751	49751	45.5	47.5	284.3	15.6	14.9	82.3
	S ₃	8125	10044	59701	59701	46.0	48.0	290.2	15.0	14.9	80.7
RA ₂	S ₁	7228	9743	42644	42644	45.8	47.8	286.4	15.5	15.5	80.1
	S ₂	7550	9981	49751	49751	45.8	47.8	283.7	14.9	15.1	79.8
	S ₃	8142	10230	59701	59701	46.3	48.3	281.5	15.6	15.3	81.4

Location mean	7479.6	9616.1	50698.9	50698.9	45.9	47.9	284.5	15.4	15.2	81.0
C.D.(5%) AiBj-AiBk	747.6	1200.4	0.0	0.0	1.0	1.0	15.3	0.7	0.5	5.4
C.D.(5%) AiBk-AjBk	867.8	2498.5	0.0	0.0	1.1	1.1	13.3	0.7	0.5	5.3
F(5%)	n.s.	n.s.	s	s	n.s.	n.s.	n.s.	s	n.s.	n.s.

RA ₁	7319	9247	50699	50699	45.8	47.8	285.2	15.5	15.0	81.6
RA ₂	7640	9985	50699	50699	45.9	47.9	283.9	15.3	15.3	80.4

C.D.(5%) Ai-Aj	638.1	2330.2	0.0	0.0	0.7	0.7	4.6	0.4	0.3	3.0
C.V.(%) Error A	6.6	18.7	0.0	0.0	1.1	1.1	1.2	2.1	1.3	2.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

S ₁	6832	9165	42644	42644	45.9	47.9	283.8	15.7	15.4	81.0
S ₂	7474	9546	49751	49751	45.6	47.6	284.0	15.2	15.0	81.1
S ₃	8134	10137	59701	59701	46.1	48.1	285.9	15.3	15.1	81.1

C.D.(5%)Bi-Bj	528.7	848.8	0.0	0.0	0.7	0.7	10.8	0.5	0.4	3.8
C.V.(%)ErrorB	6.5	8.1	0.0	0.0	1.5	1.4	3.5	2.9	2.2	4.3
F(5%)	s	n.s.	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment Details:

Main Plo	Row arrangement	Sub Plot	Plant Geometry
RA ₁	Equal row at 67 cm	S ₁	35 cm
RA ₂	Paired row at 84:50 cm	S ₂	30 cm
		S ₃	25 cm

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Table 18: Studies of interactive effects of plant density, geometry and residue management on early maturing maize hybrid-wheat cropping (rainfed) at Bajaura.

Main Plot (RM)	Sub Plot (PG)	Grain yield (Kg/ha)	Plant Stand ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
Residue [®]	ER-PS1	7518	42.2	45.2	188.2
	ER-PS2	7922	49.7	52.1	190.8
	ER-PS3	9115	59.5	61.0	207.8
	ER-PS4	9238	81.4	81.1	202.7
	PR-PS1	6928	42.1	42.8	191.7
	PR-PS2	7714	50.0	52.3	208.7
	PR-PS3	8086	58.6	57.6	203.4
	PR-PS4	9084	82.6	81.2	203.9
No Residue (NR)	ER-PS1	6925	42.4	42.8	187.5
	ER-PS2	8032	50.0	51.3	172.4
	ER-PS3	7927	58.7	57.0	206.8
	ER-PS4	9503	81.6	80.8	203.0
	PR-PS1	7296	41.4	45.2	191.3
	PR-PS2	8445	49.9	42.8	203.4
	PR-PS3	8837	58.3	58.8	200.7
	PR-PS4	9136	83.1	81.2	194.1

Treatments:
Main Plots- Residue levels
Residue levels
a. Residue (5T/ha as surface mulch)-R
b. No Residue (Clean fields)- NR
Sub Plots- Row arrangement & plant geometry
Row Arrangements (2)
a. Equal row at 67cm/60 cm -ER
b. Paired rows at 84:50 cm/80:40 cm-PR
Sub Sub I Plant geometry (3)
a. 42600 (plant spacing 35 cm)-PS1
b. 50000 (plant spacing 30 cm)-PS2
c. 60000 (plant spacing 25 cm)-PS3
d. 83333 (plant spacing 20 cm)-PS4

Location mean	8231.6	58.2	58.3	197.3
C.D.(5%) AiBj-AiBk	435.6	1.1	8.0	8.8
C.D.(5%) AiBk-AjBk	569.2	1.2	9.0	15.5
F(5%)	s	n.s.	n.s.	n.s.

Residue [®]	8201	58.3	59.1	199.7
No Residue(NR)	8263	58.2	57.5	194.9

C.D.(5%) Ai-Aj	448.7	0.7	5.7	14.4
C.V.(%) Error A	438.8	1.0	7.8	5.9
F(5%)	n.s.	n.s.	n.s.	n.s.

ER-PS1	7221	42.3	44.0	187.9
ER-PS2	7977	49.9	51.7	181.6
ER-PS3	8521	59.1	59.0	207.3
ER-PS4	9370	81.5	80.9	202.8
PR-PS1	7112	41.8	44.0	191.5
PR-PS2	8079	50.0	47.5	206.1
PR-PS3	8462	58.4	58.2	202.1
PR-PS4	9110	82.8	81.2	199.0

C.D.(5%)Bi-Bj	308.0	0.8	5.7	6.2
C.V.(%)ErrorB	3.2	1.2	8.2	2.7
F(5%)	s	s	s	s

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Table 19: Evaluation of the interactive effects of plant density, geometry and fertility level on the productivity of early maturity genotypes for rainfed conditions at Kangra.

Main Plot	Sub Plot		Grain Yield (kg/ha)	Cob Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Ear Height (cm)	Ear length (cm)
	Row arrang.	Plant Geometry							
RM-1	PS-1	RL-1	3063	4969	39.0	38.4	200.0	77.7	25.3
		RL-2	3242	5252	37.4	34.0	195.7	74.0	24.9
	PS-2	RL-1	3270	5346	48.1	36.2	208.3	77.3	25.5
		RL-2	3522	5692	48.4	40.3	200.3	76.3	23.9
	PS-3	RL-1	3371	5440	55.7	37.1	211.3	79.0	25.3
		RL-2	3704	6038	56.6	40.6	210.7	81.7	24.8
RM-2	PS-1	RL-1	3192	5220	38.4	37.7	206.7	80.7	25.8
		RL-2	3220	5252	37.1	40.3	204.7	79.3	25.3
	PS-2	RL-1	3286	5346	47.5	35.5	209.3	76.0	24.9
		RL-2	3362	5472	48.4	43.1	210.3	80.3	26.9
	PS-3	RL-1	3579	5818	56.3	34.6	210.7	78.0	23.5
		RL-2	3777	6101	56.0	42.1	209.3	79.7	25.3

Location mean	3382.3	5495.3	47.4	38.3	206.4	78.3	25.1
C.D.(5%) AiBj-AiBk	426.7	659.9	2.0	9.3	13.0	7.6	1.9
C.D.(5%) AiBk-AjBk	563.0	855.6	2.5	10.0	21.9	9.1	3.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

RM-1	3362	5456	47.5	37.7	204.4	77.7	25.0
RM-2	3403	5535	47.3	38.9	208.5	79.0	25.3

C.D.(5%) Ai-Aj	454.8	681.1	2.0	6.1	20.0	6.6	3.0
C.V.(%) Error A	9.4	8.6	2.9	11.1	6.8	5.9	8.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

PS-1 x RL-1	3127	5094	38.7	38.1	203.3	79.2	25.6
PS-1 x RL-2	3231	5252	37.3	37.1	200.2	76.7	25.1
PS-2 x RL-1	3278	5346	47.8	35.8	208.8	76.7	25.2
PS-2 x RL-2	3442	5582	48.4	41.7	205.3	78.3	25.4
PS-3 x RL-1	3475	5629	56.0	35.8	211.0	78.5	24.4
PS-3 x RL-2	3741	6069	56.3	41.4	210.0	80.7	25.1

C.D.(5%)Bi-Bj	301.7	466.6	1.4	6.6	9.2	5.4	1.3
C.V.(%)ErrorB	7.4	7.1	2.5	14.2	3.7	5.7	4.4
F(5%)	s	s	s	n.s.	n.s.	n.s.	n.s.

Treatments:

Main Plots- Row arrangement (2)

RM-1 Equal row at 67cm
 RM-2 Paired rows at 84:50 cm

Sub Plot Plant geometry (3)

PS-1 40000 (plant spacing 37 cm)-PS1
 PS-2 50000 (plant spacing 30 cm)-PS2
 PS-3 60000 (plant spacing 25 cm)-PS3

Sub-Sub Plots- Residue levels

RL-1 Clean field
 RL-2 5t/ha twigs

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Table 20: Evaluation of the interactive effects of plant density/geometry at Kanpur

Main Plot (N levels)	Sub Plot (spacing)	Grain Yield (kg/ha)	Cob Yield (kg/ha)	Plant Stand (000/ha)	Days to 50% Silking	Plant height (cm)
P ₁	F ₁	5764	7153	54.9	54.3	124.3
P ₂		6215	7882	57.6	55.7	129.0
P ₁	F ₂	6771	7778	56.3	53.3	126.3
P ₂		7118	8542	59.4	57.7	132.0
P ₁	F ₃	6979	8958	59.7	56.3	128.3
P ₂		7431	9236	61.5	60.3	135.0
P ₁	F ₄	7153	9618	64.2	62.7	131.0
P ₂		8160	9965	64.6	65.3	135.7

Location mean	6948.8	8641.5	59.8	58.2	130.2
C.D.(5%) AiBj-AiBk	157.5	238.3	3.1	1.1	1.7
C.D.(5%) AiBk-AjBk	179.0	337.6	3.8	1.5	1.9
F(5%)	s	s	n.s.	s	n.s.

P ₁	6467	7839	57.0	55.3	127.9
P ₂	7431	9444	62.5	61.2	132.5

C.D.(5%) Ai-Aj	129.4	291.7	3.0	1.3	1.3
C.V.(%) Error A	1.1	1.9	2.8	1.3	0.6
F(5%)	s	s	s	s	s

F ₁	6372	8056	57.3	55.3	126.3
F ₂	6823	8559	59.5	58.0	132.0
F ₃	6962	8698	60.2	58.0	128.7
F ₄	7639	9253	62.0	61.5	133.8

C.D.(5%)Bi-Bj	111.4	168.5	2.2	0.8	1.2
C.V.(%)ErrorB	1.3	1.5	2.9	1.1	0.7
F(5%)	s	s	s	s	s

Treatment

Main Plot: Plant geometry (population/ha)

P₁ 67×20 cm

P₂ 67×25 cm

Sub Plot: Fertility levels (N:P2O5:K2O kg/ha)

F₁ 200:75:75

F₂ FYM (15t/ha):200:75:75

F₃ FYM (15t/ha):250:90:90

F₄ FYM (15t/ha):300:105:105

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Table 21: Plant geometry and fertility levels at Ludhiana.

Main Plot (Population)	Sub Plot (F levels)	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Tasseling	Days to 50% Silking	Days to 75% Husk Brown	Cob length (cm)	Cob girth (cm)	Plant height (cm)	Ear height (cm)
P ₁	F ₁	4300	57.8	63.4	56.7	59.0	102.0	15.2	4.2	145.7	61.0
	F ₂	4866	57.5	65.0	55.7	58.3	101.7	16.0	4.2	148.3	63.3
	F ₃	4978	57.8	66.5	54.0	56.3	100.7	16.0	4.2	151.7	63.7
	F ₄	4966	57.8	66.5	53.7	56.3	100.0	16.2	4.4	152.3	65.0
P ₂	F ₁	4692	63.4	66.9	57.0	60.0	102.0	14.9	4.0	149.0	62.0
	F ₂	4994	64.7	69.7	55.7	58.7	102.0	15.0	4.1	151.7	65.0
	F ₃	5072	61.9	70.0	54.7	57.3	101.0	15.6	4.2	153.3	66.7
	F ₄	5068	63.4	70.9	54.0	56.7	100.7	15.5	4.3	154.0	68.7
P ₃	F ₁	5009	71.5	72.1	58.0	61.7	102.7	14.4	4.0	150.7	63.3
	F ₂	5168	73.4	75.2	56.7	59.7	102.3	15.0	4.1	157.3	66.7
	F ₃	5177	71.8	74.6	55.0	57.7	101.3	15.2	4.1	158.3	68.7
	F ₄	5258	71.8	74.6	54.7	57.3	100.7	15.5	4.2	159.0	69.7

Location mean	4962.4	64.4	69.6	55.5	58.3	101.4	15.4	4.2	152.6	65.3
C.D.(5%) AiBj-AiBk	448.1	4.3	3.4	2.9	3.3	2.3	1.0	0.2	7.7	2.1
C.D.(5%) AiBk-AjBk	429.2	4.1	5.2	3.0	3.2	3.9	1.0	0.2	7.1	3.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	4778	57.8	65.4	55.0	57.5	101.1	15.9	4.2	149.5	63.3
P ₂	4956	63.4	69.3	55.3	58.2	101.4	15.3	4.2	152.0	65.6
P ₃	5153	72.1	74.2	56.1	59.1	101.8	15.0	4.1	156.3	67.1

C.D.(5%) Ai-Aj	188.3	1.8	4.3	1.6	1.5	3.4	0.6	0.2	2.3	3.0
C.V.(%) Error A	3.3	2.4	5.5	2.6	2.2	2.9	3.6	3.5	1.4	4.0
F(5%)	s	s	s	n.s.	n.s.	n.s.	s	n.s.	s	n.s.

F ₁	4667	64.3	67.5	57.2	60.2	102.2	14.8	4.1	148.4	62.1
F ₂	5009	65.2	70.0	56.0	58.9	102.0	15.3	4.1	152.4	65.0
F ₃	5076	63.8	70.4	54.6	57.1	101.0	15.6	4.2	154.4	66.3
F ₄	5097	64.4	70.7	54.1	56.8	100.4	15.7	4.3	155.1	67.8

C.D.(5%)Bi-Bj	258.7	2.5	2.0	1.7	1.9	1.3	0.6	0.1	4.5	1.2
C.V.(%)ErrorB	5.3	3.9	2.9	3.1	3.3	1.3	3.7	3.0	2.9	1.8
F(5%)	s	n.s.	s	s	s	s	s	s	s	s

Treatment

Main Plot: Plant geometry (populatic Sub Plot: Fertility levels (N:P2O5:K2O kg/ha)

P ₁	60000 (67×25 cm),	F ₁	125:60:30
P ₂	66000 (67×22.5 cm)	F ₂	200:75:75
P ₃	75000 (67×20 cm)	F ₃	250:90:90
		F ₄	300:105:105

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Table 22: Evaluation of interactive effects of plant density, geometry and fertility levels on the productivity of late maturing full season hybrid maize under irrigated condition at Pantnagar.

Main Plot (Spacing)	Sub Plot (N Levels)	Grain Yield (kg/ha)	Cob Yield with husk (Kg/plot)	Cob Yield without husk (Kg/plot)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to 50 Tasseling	Days to 50 Silking	Cob length (cm)	Cob girth (cm)	Seed moisture at harvest (%)	100 grain wt (g)
P ₁	N ₁	3441	6484	5779	54.7	49.8	180.0	53.7	57.0	15.5	12.3	24.7	24.7
	N ₂	3773	7032	6260	55.6	51.4	184.7	54.0	58.3	16.1	12.4	25.0	26.7
	N ₃	3590	6244	5539	54.7	48.9	753.0	55.0	58.0	15.9	12.5	25.7	27.3
	N ₄	3657	6277	6128	52.2	48.9	189.3	53.7	58.0	16.0	12.2	25.3	27.7
P ₂	N ₁	3076	5788	5174	59.7	48.1	741.7	54.3	57.7	15.5	12.4	24.7	24.3
	N ₂	4121	7380	6567	58.0	52.2	188.7	53.7	56.7	16.8	12.9	25.3	25.4
	N ₃	4055	7570	6575	60.5	52.2	189.3	54.0	58.0	16.8	13.6	24.3	25.5
	N ₄	3872	7214	6426	57.2	53.1	190.7	54.7	58.3	16.7	12.8	26.0	26.2
P ₃	N ₁	2927	6119	5431	58.9	49.8	186.3	55.3	58.3	13.9	12.3	24.0	24.1
	N ₂	3615	6667	5954	58.0	52.2	187.3	54.7	58.3	15.7	13.3	25.7	25.0
	N ₃	3458	6658	5771	59.7	53.9	188.3	55.0	57.7	14.9	11.6	25.7	25.4
	N ₄	3557	6617	5821	58.9	50.6	191.3	33.3	31.7	14.9	12.5	26.7	25.9

Location mean	3595.2	6670.8	5952.2	57.4	50.9	280.9	52.6	55.7	15.7	12.6	25.3	25.7
C.D.(5%) AiBj-AiBk	951.8	1805.0	1625.3	5.9	5.8	686.1	1.5	1.8	1.9	1.0	1.5	2.7
C.D.(5%) AiBk-AjBk	1150.5	2268.7	2032.0	5.7	5.3	667.7	1.8	1.8	1.9	1.1	1.5	3.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	s	n.s.	s	n.s.	n.s.

P ₁	3615	6509	5927	54.3	49.8	326.8	54.1	57.8	15.9	12.4	25.2	26.6
P ₂	3781	6988	6186	58.9	51.4	327.6	54.2	57.7	16.4	13.0	25.1	25.3
P ₃	3389	6515	5744	58.9	51.6	188.3	49.6	51.5	14.8	12.4	25.5	25.1

C.D.(5%) Ai-Aj	818.2	1674.3	1492.6	2.5	1.7	312.8	1.3	1.0	1.1	0.6	0.9	3.2
C.V.(%) Error A	20.1	22.1	22.1	3.8	2.9	98.2	2.2	1.6	5.9	4.5	3.0	10.9
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.	s	s	s	n.s.	n.s.	n.s.

N ₁	3148	6130	5462	57.8	49.2	369.3	54.4	57.7	15.0	12.4	24.4	24.4
N ₂	3836	7026	6260	57.2	52.0	186.9	54.1	57.8	16.2	12.9	25.3	25.7
N ₃	3701	6824	5962	58.3	51.7	376.9	54.7	57.9	15.9	12.6	25.2	26.0
N ₄	3695	6703	6125	56.1	50.9	190.4	47.2	49.3	15.9	12.5	26.0	26.6

C.D.(5%)Bi-Bj	549.5	1042.1	938.4	3.4	3.3	396.1	0.9	1.0	1.1	0.6	0.9	1.5
C.V.(%)ErrorB	15.4	15.8	15.9	6.0	6.6	142.4	1.6	1.9	7.1	4.5	3.5	6.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	s	n.s.	n.s.	s	s

Treatment A. Main Plot: Plant Geometry (P):

- P₁: 60,000 (67cm x 25cm)
- P₂: 60,000 (67cm x 22.5 cm)
- P₃: 60,000 (67cm x 20 cm)

B. Sub Plot: Nutrient levels (N):

- N₁: 120:60:40 kg NPK/ha
- N₂: 200:75:75 kg NPK/ha
- N₃: 250:90:90 kg NPK/ha
- N₄: 300:105:105 kg NPK/ha

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Table 23: Evaluation of the interactive effect of plant density, geometry (equal spaced and parried rows) on the productivity of early maturing genotypes for rainfed condition at Ambikapur.

Main Plot (row arrang.)	Sub Plot (Plant Population)	Grain yield (kg/ha)	Cob yield (Kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Cob girth (Cm)	Cob length (cm)	No. of rows/cob	No. of kernels /row	100 Grain weight (g)	Plant height (cm)	Cob placement (cm)	Shelling %
M ₁	S ₁	3769	4664	36.6	36.6	14.3	15.3	13.7	36.6	30.5	226.9	69.1	80.5
	S ₂	4888	5989	47.1	47.0	14.2	14.2	13.6	33.9	30.2	236.1	78.1	81.6
	S ₃	5348	6469	54.6	54.2	14.2	14.3	13.6	34.2	29.6	234.0	76.9	82.4
M ₂	S ₁	4216	4938	38.8	38.7	15.2	15.2	14.0	36.2	31.1	230.4	75.6	85.1
	S ₂	4913	5871	46.1	46.1	14.9	15.2	13.8	36.8	30.6	225.2	68.8	83.2
	S ₃	5995	7301	55.5	55.3	14.3	14.5	13.7	35.2	30.5	230.4	71.7	81.9

Mean of location 4854.9 5871.9 46.5 46.3 14.5 14.8 13.7 35.5 30.4 230.5 73.4 82.4

C.D. at 5 % 1189.4 1313.0 3.4 3.4 0.8 1.5 0.9 2.9 1.1 10.3 10.6 3.5

F n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s.

M ₁	4668	5707	46.1	45.9	14.2	14.6	13.6	34.9	30.1	232.3	74.7	81.5
M ₂	5041	6036	46.8	46.7	14.8	15.0	13.8	36.1	30.7	228.6	72.0	83.4

C.D. at 5 % 686.7 758.1 2.0 1.9 0.5 0.9 0.5 1.6 0.6 6.0 6.1 2.0

F n.s. n.s. n.s. n.s. s n.s. n.s. n.s. n.s. n.s. n.s. n.s.

S ₁	3993	4801	37.7	37.6	14.8	15.2	13.9	36.4	30.8	228.6	72.4	82.8
S ₂	4900	5930	46.6	46.6	14.5	14.7	13.7	35.4	30.4	230.6	73.4	82.4
S ₃	5672	6885	55.0	54.8	14.3	14.4	13.6	34.7	30.0	232.2	74.3	82.1

C.D. at 5 % 841.0 928.4 2.4 2.4 0.6 1.0 0.7 2.0 0.8 7.3 7.5 2.4

C.V. % 16.3 14.8 4.9 4.8 3.7 6.7 4.4 5.3 2.4 3.0 9.5 2.8

F s s s s n.s. n.s. n.s. n.s. n.s. n.s. n.s. n.s.

A Row arrangement (2)

M₁ 1. Equal rows at 67 cm

M₂ 2. Paired rows (84:50 cm)

B. Plant geometry (pop/ha) (3)

S₁ 1. Plant spacing at 37 cm (40000)

S₂ 2. Plant spacing at 30 cm (50000)

S₃ 3. Plant spacing at 25 cm (60000)

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Table 24: Evaluation of the interactive effects of plant density/geometry (equal & parried rows) at Bahraich.

Treatment	Grain Yield (kg/ha)	No. of Plant (000/ha)	No. of cobs (000/ha)	Plant Height (cm)	Days to 50% Silking
T ₁	3571	36.8	36.8	160.0	58.3
T ₂	4160	45.9	44.6	156.0	58.0
T ₃	4854	56.7	55.3	155.0	57.0
T ₄	4533	36.1	35.9	162.0	59.0
T ₅	5119	47.0	45.9	172.3	59.0
T ₆	5694	57.1	54.6	167.3	58.0

Mean 4655.0 46.6 45.5 162.1 58.2

CD 129.8 1.0 1.5 3.6 0.4

CV (%) 1.5 1.2 1.8 1.2 0.4

Significance S S S S S

	Plant Population	Row to Row X plant to plant
T ₁	P ₁ 40,000	67x37 cm (equal)
T ₂	P ₂ 50,000	67x30 cm (equal)
T ₃	P ₃ 60,000	67x25 cm (equal)
T ₄	P ₁ 40,000	50x37 cm (paired row)
T ₅	P ₂ 50,000	50x30 cm (paired row)
T ₆	P ₃ 60,000	50x25 cm (paired row)

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Table 25: Evaporation of the interactive effective of plant density geometry (equal spaced and paired row) and fertility levels on the productivity of lots maturity full season genotypes under irrigated ecology at Dholi.

Main Plot Population	Sub Plot N Levels	Cob Yield (kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days to 50% Silking	Plant Height (cm)
P ₁	F ₁	6235	71.7	74.6	56.7	105.9
	F ₂	6523	71.7	82.0	57.0	106.9
	F ₃	6691	69.8	86.1	56.3	111.6
	F ₄	6882	71.0	84.4	56.0	108.3
P ₂	F ₁	6451	61.4	65.9	56.7	97.3
	F ₂	7314	61.9	72.7	57.3	106.7
	F ₃	7650	60.4	67.6	57.0	102.0
	F ₄	8129	61.2	72.2	56.7	105.8
P ₃	F ₁	6571	54.9	62.4	57.3	100.4
	F ₂	7626	55.9	63.8	55.0	111.7
	F ₃	8249	55.2	60.4	55.3	108.1
	F ₄	9089	57.1	63.5	56.0	106.9

Location mean	7284.2	62.7	71.3	56.4	106.0
C.D.(5%) AiBj-AiBk	310.8	3.4	7.4	1.7	10.3
C.D.(5%) AiBk-AjBk	341.2	3.6	8.1	1.9	9.7
F(5%)	s	n.s.	n.s.	n.s.	n.s.

P ₁	6583	71.0	81.8	56.5	108.2
P ₂	7386	61.2	69.6	56.9	103.0
P ₃	7884	55.8	62.5	55.9	106.8

C.D.(5%) Ai-Aj	214.4	2.2	5.1	1.1	4.0
C.V.(%) Error A	2.6	3.1	6.4	1.8	3.4
F(5%)	s	s	s	n.s.	s

F ₁	6419	62.7	67.6	56.9	101.2
F ₂	7154	63.1	72.8	56.4	108.4
F ₃	7530	61.8	71.4	56.2	107.2
F ₄	8034	63.1	73.4	56.2	107.0

C.D.(5%)Bi-Bj	179.4	1.9	4.3	1.0	5.9
C.V.(%)ErrorB	2.5	3.1	6.0	1.8	5.7
F(5%)	s	n.s.	s	n.s.	n.s.

Treatment

Main Plot Population	Sub Plot N Levels
P ₁ 60000 (67 x 25 cm)	F ₁ State recommendation (100:60:40)
P ₂ 66000 (67 x 22.5 cm)	F ₂ 200:75:75
P ₃ 75000 (67 x 20 cm)	F ₃ 250:90:90
	F ₄ 300:105:105

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Table 26: Evaluation of the interactive effect of plant density, geometry (equal spaced and paired rows) on the productivity of early maturing genotype for rainfed condition at Ranchi.

Main Plot (Row Arrang.)	Sub Plot (Spacing)	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Plant height (cm)	Cob placement (cm)	Cob girth (Cm)	Cob length (cm)	No. of rows/cob	No. of kernels /row	100 Grain wt. (g)	Shelling (%)
M ₁	S ₁	3857	4764	39.3	38.7	213.6	74.6	13.3	14.0	12.7	33.8	30.6	81.1
	S ₂	4613	5614	49.4	48.6	224.3	77.0	13.2	13.0	12.5	31.4	30.3	82.1
	S ₃	4765	5745	58.5	56.8	224.3	79.6	13.3	13.1	12.4	31.4	29.7	82.9
M ₂	S ₁	4210	4976	39.9	39.3	216.9	73.6	14.0	14.0	13.1	33.4	31.0	84.6
	S ₂	4537	5480	49.1	48.4	213.9	76.3	13.6	14.0	12.9	33.7	30.5	82.7
	S ₃	5235	6433	58.5	57.0	220.9	78.9	13.1	13.4	12.5	31.9	30.4	81.4

Mean of location	4536.3	5502.1	49.1	48.1	219.0	76.7	13.4	13.6	12.7	32.6	30.4	82.5
C.D. at 5 %	574.2	621.9	2.3	2.0	17.5	8.4	1.0	1.0	1.0	2.6	1.0	3.5
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

M ₁	4412	5374	49.0	48.1	220.7	77.1	13.2	13.4	12.5	32.2	30.2	82.0
M ₂	4661	5630	49.2	48.2	217.2	76.3	13.6	13.8	12.8	33.0	30.6	82.9

C.D. at 5 %	331.5	359.0	1.3	1.2	10.1	4.9	0.6	0.6	0.6	1.5	0.6	2.0
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

S ₁	4034	4870	39.6	39.0	215.2	74.1	13.6	14.0	12.9	33.6	30.8	82.8
S ₂	4575	5547	49.3	48.5	219.1	76.7	13.4	13.5	12.7	32.5	30.4	82.4
S ₃	5000	6089	58.5	56.9	222.6	79.2	13.2	13.2	12.5	31.6	30.0	82.2

C.D. at 5 %	406.0	439.7	1.6	1.4	12.4	6.0	0.7	0.7	0.7	1.8	0.7	2.4
C.V. %	8.4	7.5	3.1	2.8	5.3	7.3	5.1	5.0	5.4	5.3	2.3	2.8
F	s	s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment Details:

A Row arrangement (2)

- M₁ 1. Equal rows at 67 cm
- M₂ 2. Paired rows (84:50 cm)

B. Plant geometry (pop/ha) (3)

- S₁ 1. Plant spacing at 37 cm (40000)
- S₂ 2. Plant spacing at 30 cm (50000)
- S₃ 3. Plant spacing at 25 cm (60000)

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Table 27: Evaluation of the interactive effects of plant density, geometry (equal spaced and parried rows), and fertility levels on the productivity of maize under rainfed condition at Banswara.

Main Plots	Sub Plots	Grain Yield (kg/ha)
R ₁	P ₁	3588
	P ₂	4252
	P ₃	4440
R ₂	P ₁	3915
	P ₂	3948
	P ₃	4265

Location mean 4068.1
 C.D.(5%) AiBj-AiBk 338.6
 C.D.(5%) AiBk-AjBk 442.8
 F(5%) s

R ₁	4094
R ₂	4043

C.D.(5%) Ai-Aj 348.8
 C.V.(%) Error A 1000.6
 F(5%) n.s.

P ₁	3751
P ₂	4100
P ₃	4353

C.D.(5%)Bi-Bj 239.4
 C.V.(%)ErrorB 6.9
 F(5%) s

Treatments details:

Main Plots:

A. Row Arrangements (2)

R₁: Equal row at 67cm

R₂: Paired rows (84:50cm)

Sub-Plots:

B. Plant geometry (population/ha)

P₁: 40,000 (plant spacing 37 cm)

P₂: 50,000 (plant spacing 30 cm)

P₃: 60,000 (plant spacing 25 cm)

Ultimate plots :

C. Residue levels

RS₁: Clean fields

RS₂: 5t/ha of surface residue mulch

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Table 28: Evaluation of the interactive effect of plant density, geometry and fertilizer levels on productivity of early genotypes for rainfed at Chhindwara.

Treatment	Treatment Combination	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Silking	Plant height (cm)
T ₁	F 0 x 25 X67cm	4867	49.6	48.9	59.3	195.3
T ₂	F 0 x 25 XPaired	4844	50.0	45.6	59.0	201.7
T ₃	F 0 x 30 X67	4800	40.4	37.4	58.3	199.0
T ₄	F 0 x 30X Paired	4733	39.3	38.9	58.0	190.0
T ₅	F 10x 25 X67cm	5422	51.9	48.5	57.0	206.0
T ₆	F 10x25 Xpaired	5400	51.1	47.4	56.7	194.7
T ₇	F 10 x 30 X67cm	5356	41.9	43.0	55.3	206.0
T ₈	F 10x30XPaired	5333	39.6	41.5	55.7	209.0
	Mean	5094.4	45.5	43.9	57.4	200.2
	CD	1006.1	3.8	5.1	2.0	21.4
	CV (%)	11.3	4.8	6.6	2.0	6.1
	Significance	N.S.	S	S	S	N.S.

Treatment Details:

Main Plot: FYM

F0 = No FYM

F1 = With 10 ton/ha

Sub Plot: Plant population

S1 = 30cm plant to plant =50,000/ha plant

S2 = 25cm plant to plant =60,000/ha plant

Sub-Sub Plot: Row arrangements

RA1 = 67cm

RA2 = 84:50 cm paired row

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Table 29: Effect of row arrangement, plant geometry and residue levels on productivity of maize under rain fed conditions at Udaipur.

Treatment combinations			Grain yield (kg/ha)	No. of plant (000/ha)	No. of cob (000/ha)	Plant height (cm)	Cob length (cm)
Row Arrang	Population	Residue Level					
Eq R	P40	CF	2923	36.8	34.8	172.5	18.4
Eq R	P50	CF	3337	47.1	45.8	173.9	17.5
Eq R	P60	CF	3423	57.2	55.6	175.8	17.2
Pai R	P40	CF	3490	37.0	35.0	177.7	19.1
Pai R	P50	CF	3930	47.3	45.9	177.4	18.4
Pai R	P60	CF	4030	57.2	55.4	180.2	18.3
Eq R	P40	SR	2497	36.8	35.3	167.6	16.1
Eq R	P50	SR	2923	47.4	45.8	173.5	15.6
Eq R	P60	SR	3037	57.2	55.7	172.4	15.4
Pai R	P40	SR	2940	37.3	36.0	172.6	18.0
Pai R	P50	SR	3340	47.3	45.8	176.1	17.5
Pai R	P60	SR	3420	57.4	55.7	177.7	17.5

Location mean	3274.2	47.2	45.6	174.8	17.4
C.D.(5%) AiBj-AiBk	468.2	4.0	3.9	12.8	1.8
C.D.(5%) AiBk-AjBk	429.9	3.6	3.6	11.9	1.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Eq R	3522	47.1	45.4	176.3	18.2
Pai R	3026	47.2	45.7	173.3	16.7

C.D.(5%) Ai-Aj	53.9	0.2	0.5	2.8	0.4
C.V.(%) Error A	1.1	0.4	0.8	1.1	1.7
F(5%)	s	n.s.	n.s.	s	s

P40 x CF	2710	36.8	35.1	170.0	17.3
P50 x CF	3130	47.3	45.8	173.7	16.5
P60 x CF	3230	57.2	55.6	174.1	16.3
P40 x SR	3215	37.1	35.5	175.2	18.6
P50 x SR	3635	47.3	45.9	176.8	17.9
P60 x SR	3725	57.3	55.6	179.0	17.9

C.D.(5%)Bi-Bj	331.1	2.8	2.7	9.1	1.2
C.V.(%)ErrorB	8.4	5.0	5.0	4.3	5.9
F(5%)	s	s	s	n.s.	s

Treatment

Row arrangement	Symbol	Plant population	Symbol
Equal row at 67 cm	Eq R	40000 (Plant spacing 37cm)	P 40
Paired row at (84:50 cm)	Pai R	50000 (Plant spacing 30 cm)	P 50
Residue level		60000 (Plant spacing 25 cm)	P 60
Clean field	CF		
Surface residue @ 5t/ha*	SR		

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Table 30: Developing agro-techniques for seed production of inbred parent (VQL 1, parent of QPM 9) at Almora

Main Plot	Sub Plot	Grain yield (kg/ha)	Straw yield (kg/ha)	No. of plants/ha	No. of cobs/ha	Days to 50% tasseling	Days to 50% silking	Plant height (cm)	Cob length (cm)	Cob girth (cm)	Shelling (%)	Test wt (g) 1000 grain
P ₁	F ₁	3550	4042	49751	49751	51.7	54.0	206.5	12.8	12.1	77.7	153.8
	F ₂	3604	4612	49751	49751	52.3	54.3	212.2	12.6	12.3	77.8	145.8
	F ₃	3806	4509	49751	49751	52.0	54.0	211.4	12.5	11.8	78.7	137.3
	F ₄	4487	4483	49751	49751	51.0	53.0	205.5	12.8	11.9	79.4	160.6
P ₂	F ₁	3348	3566	39801	39801	52.7	54.7	207.1	13.1	12.3	76.4	151.3
	F ₂	3299	3648	39801	39801	52.7	54.7	207.8	13.5	12.2	78.4	146.4
	F ₃	3684	3842	39801	39801	52.0	54.0	207.7	13.2	12.3	78.1	155.4
	F ₄	3692	3676	39801	39801	51.3	53.3	209.3	12.6	12.1	80.0	158.6

Mean of location	3683.9	4047.3	44776.1	44776.1	52.0	54.0	208.4	12.9	12.1	78.3	151.1
C.D. at 5 %	617.4	844.4	0.0	0.0	1.7	1.6	8.3	0.7	0.5	1.5	33.1
f	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	3862	4412	49751	49751	51.8	53.8	208.9	12.7	12.0	78.4	149.4
P ₂	3506	3683	39801	39801	52.2	54.2	208.0	13.1	12.2	78.2	152.9

C.D. at 5 %	308.7	422.2	0.0	0.0	0.8	0.8	4.1	0.4	0.2	0.8	16.5
F	s	s	s	s	n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.

F ₁	3449	3804	44776	44776	52.2	54.3	206.8	13.0	12.2	77.0	152.5
F ₂	3452	4130	44776	44776	52.5	54.5	210.0	13.1	12.2	78.1	146.1
F ₃	3745	4175	44776	44776	52.0	54.0	209.5	12.8	12.1	78.4	146.4
F ₄	4090	4079	44776	44776	51.2	53.2	207.4	12.7	12.0	79.7	159.6

C.D. at 5 %	956.9	1191.2	0.0	0.0	1.2	1.1	5.8	0.5	0.3	1.1	23.4
C.V. %	9.6	11.9	2.3	2.3	1.9	1.7	2.3	3.2	2.3	1.1	12.5
F	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

Treatment Details

Main Plot

Plant population

P ₁	67 cm X 20 cm
P ₂	67 cm X 25 cm

Sub Plot

Fertility Levels

F ₁	200:75:75
F ₂	200:75:75+ FYM 15 t/ha
F ₃	250:90:90+ FYM 15 t/ha
F ₄	300:105:105+ FYM 15 t/ha

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Table 31: Agro-techniques for seed production of inbred parents at Srinagar.

Main Plot	Sub Plot	Grain yield (Kg/ha)	Cob yield (Kg/ha)	No. of Plants (000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% Silking	No. of cob/Plant	No. of grain rows/cob	No. of grains/row	Grains wt./cob	Shelling (%)	1000 grain wt. (g)
P1	F1x11	4377	5263	71.0	189.3	68.7	73.3	1.2	14.0	35.0	181.3	80.3	277.7
	F1x12	4555	5430	71.0	186.0	68.0	72.3	1.1	14.0	33.0	184.0	82.0	273.0
	F2x11	5038	5972	72.3	190.0	69.7	74.7	1.1	14.0	34.7	184.3	80.0	269.3
	F2x12	5112	6007	71.7	183.0	67.7	72.7	1.2	15.3	33.3	187.3	82.3	265.7
	F3x11	4893	5827	72.0	189.3	68.7	74.7	1.0	12.7	35.3	182.0	80.0	261.0
	F3x12	4902	5888	71.7	185.7	69.7	74.3	1.2	13.3	37.3	184.7	80.7	258.0
	F4x11	4908	5828	71.3	188.7	67.3	72.3	1.0	14.7	36.0	184.3	81.7	272.3
	F4x12	4925	5915	72.0	185.0	69.3	75.7	1.1	13.3	35.7	188.0	81.3	271.3
P2	F1x11	4138	5070	58.3	182.3	70.7	76.0	1.1	14.0	35.3	185.7	79.7	277.3
	F1x12	4188	5132	57.0	183.7	71.0	75.7	1.1	12.0	35.0	188.7	80.3	273.0
	F2x11	4915	5897	56.3	176.3	69.7	75.0	1.1	13.3	35.0	180.0	82.3	301.3
	F2x12	4993	5887	57.0	176.3	71.0	76.7	1.1	13.3	34.3	183.3	81.0	273.7
	F3x11	4565	5520	58.0	178.0	71.7	77.3	1.0	14.0	33.7	182.3	80.3	279.7
	F3x12	4482	5445	57.7	185.7	71.3	76.0	1.0	14.0	35.7	183.7	79.7	288.0
	F4x11	4638	5465	57.3	185.3	70.0	75.3	1.1	12.0	35.0	183.7	79.3	292.0
	F4x12	4565	5475	57.0	178.3	72.0	76.0	1.1	14.0	34.7	184.0	81.3	291.3

Location mean	4699.7	5626.3	64.5	183.9	69.8	74.9	1.1	13.6	34.9	184.2	80.8	276.5
C.D.(5%) AiBj-AiBk	512.9	568.9	2.0	9.7	2.3	2.3	0.3	2.4	4.7	7.4	3.4	36.7
C.D.(5%) AiBk-AjBk	531.0	572.1	2.1	15.6	2.6	5.1	0.3	2.8	8.5	7.8	3.7	36.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P1	4839	5766	71.6	187.1	68.6	73.8	1.1	13.9	35.0	184.5	81.0	268.5
P2	4561	5486	57.3	180.8	70.9	76.0	1.1	13.3	34.8	183.9	80.5	284.5

C.D.(5%) Ai-Aj	264.1	244.3	1.2	14.0	1.8	4.9	0.2	1.9	7.9	4.1	2.3	13.6
C.V.(%) Error A	4.5	3.5	1.5	6.1	2.1	5.3	14.2	11.2	18.3	1.8	2.3	4.0
F(5%)	s	s	s	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

F1x11	4258	5167	64.7	185.8	69.7	74.7	1.2	14.0	35.2	183.5	80.0	277.5
F1x12	4372	5281	64.0	184.8	69.5	74.0	1.1	13.0	34.0	186.3	81.2	273.0
F2x11	4977	5934	64.3	183.2	69.7	74.8	1.1	13.7	34.8	182.2	81.2	285.3
F2x12	5053	5947	64.3	179.7	69.3	74.7	1.1	14.3	33.8	185.3	81.7	269.7
F3x11	4729	5673	65.0	183.7	70.2	76.0	1.0	13.3	34.5	182.2	80.2	270.3
F3x12	4692	5667	64.7	185.7	70.5	75.2	1.1	13.7	36.5	184.2	80.2	273.0
F4x11	4773	5647	64.3	187.0	68.7	73.8	1.1	13.3	35.5	184.0	80.5	282.2
F4x12	4745	5695	64.5	181.7	70.7	75.8	1.1	13.7	35.2	186.0	81.3	281.3

C.D.(5%)Bi-Bj	362.7	402.3	1.4	6.9	1.6	1.7	0.2	1.7	3.3	5.2	2.4	25.9
C.V.(%)ErrorB	6.5	6.0	1.9	3.2	1.9	1.9	16.4	10.7	8.0	2.4	2.5	7.9
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment Details not available

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Table 32: Agro techniques for seed production of inbred parents (LM-14) at Ludhiana.

Main Plot (Population)	Sub Plot (F levels)	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Tasseling	Days to 50% Silking	Days to 75% Husk Brown	Cob length (cm)	Cob girth (cm)	Plant height (cm)	Ear height (cm)
P ₁	F ₁	2856	71.8	71.8	61.3	63.3	96.7	13.6	4.0	168.0	84.3
	F ₂	3002	72.8	74.6	59.7	62.3	96.3	13.9	4.1	171.7	84.7
	F ₃	3006	71.5	74.6	59.0	61.7	96.0	14.1	4.2	172.3	87.0
	F ₄	3056	72.5	74.9	58.7	61.0	94.7	14.3	3.9	173.7	88.0
P ₂	F ₁	2491	56.3	58.5	59.3	61.7	96.0	14.0	4.2	167.0	81.3
	F ₂	2631	57.8	62.8	58.7	60.7	95.7	14.1	4.2	170.3	86.7
	F ₃	2638	56.6	63.1	57.7	60.0	95.3	14.8	4.1	171.3	87.0
	F ₄	2649	57.2	63.4	57.7	60.0	95.0	14.9	4.3	172.7	87.7

Location mean	2791.0	64.6	68.0	59.0	61.3	95.7	14.2	4.1	170.9	85.8
C.D.(5%) AiBj-AiBk	109.0	3.2	4.3	1.7	1.5	2.4	0.6	0.3	4.8	5.3
C.D.(5%) AiBk-AjBk	140.9	3.6	3.9	2.3	2.7	5.0	0.5	0.4	14.0	6.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	2980	72.1	74.0	59.7	62.1	95.9	14.0	4.1	171.4	86.0
P ₂	2602	57.0	62.0	58.3	60.6	95.5	14.5	4.2	170.3	85.7

C.D.(5%) Ai-Aj	115.2	2.7	1.3	1.9	2.5	4.8	0.2	0.2	13.8	5.1
C.V.(%) Error A	2.4	2.3	1.1	1.8	2.3	2.9	0.9	3.4	4.6	3.4
F(5%)	s	s	s	n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.

F ₁	2674	64.1	65.1	60.3	62.5	96.3	13.8	4.1	167.5	82.8
F ₂	2816	65.3	68.7	59.2	61.5	96.0	14.0	4.2	171.0	85.7
F ₃	2822	64.1	68.9	58.3	60.8	95.7	14.5	4.2	171.8	87.0
F ₄	2853	64.8	69.2	58.2	60.5	94.8	14.6	4.1	173.2	87.8

C.D.(5%)Bi-Bj	77.1	2.3	3.0	1.2	1.1	1.7	0.4	0.2	3.4	3.7
C.V.(%)ErrorB	2.2	2.8	3.6	1.6	1.4	1.4	2.3	4.6	1.6	3.4
F(5%)	s	n.s.	s	s	s	n.s.	s	n.s.	s	n.s.

Treatment details:

Main Plot: Plant geometry (population/ha)

P₁ 75000 (67×20 cm),

P₂ 66000 (67×25 cm)

Sub Plot: Fertility levels (N:P2O5:K2O kg/ha)

F₁ 200:75:75

FYM

F₂ (15t/ha):200:75:75

FYM

F₃ (15t/ha):250:90:90

F₄ FYM (15t/ha):300:105:105

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Table 33: Agro techniques for seed production of inbred parents (LM-17) at Ludhiana.

Main Plot (Population)	Sub Plot (F levels)	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Tasseling	Days to 50% Silking	Days to 75% Husk Brown	Cob length (cm)	Cob girth (cm)	Plant height (cm)	Ear height (cm)
P ₁	F ₁	2170	70.9	81.2	61.3	64.7	103.7	14.5	3.6	150.0	77.7
	F ₂	2360	70.6	84.0	61.0	64.3	103.3	15.0	3.7	158.0	78.3
	F ₃	2478	71.8	84.0	60.7	63.3	102.7	15.1	3.7	160.3	81.7
	F ₄	2494	71.5	84.3	60.0	62.3	102.0	15.2	3.8	162.3	83.3
P ₂	F ₁	1757	55.3	68.7	60.7	63.7	102.7	14.6	3.6	149.7	69.0
	F ₂	2127	55.7	73.1	60.3	63.0	102.3	15.0	3.8	156.7	75.0
	F ₃	2152	56.9	73.4	59.7	62.7	102.0	15.2	3.8	159.0	77.7
	F ₄	2174	56.3	73.7	59.3	62.0	101.3	15.3	3.9	159.3	79.7

Location mean	2213.9	63.6	77.8	60.4	63.3	102.5	15.0	3.7	156.9	77.8
C.D.(5%) AiBj-AiBk	143.8	3.2	4.3	1.4	1.6	2.9	0.3	0.5	11.2	8.3
C.D.(5%) AiBk-AjBk	164.0	3.6	3.9	1.5	2.0	4.6	0.4	0.4	10.0	10.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	2376	71.2	83.3	60.8	63.7	102.9	15.0	3.7	157.7	80.3
P ₂	2052	56.0	72.2	60.0	62.8	102.1	15.0	3.8	156.2	75.3

C.D.(5%) Ai-Aj	119.1	2.7	1.3	1.1	1.6	4.1	0.3	0.1	2.8	7.9
C.V.(%) Error A	3.1	2.4	1.0	1.0	1.4	2.3	1.1	1.1	1.0	5.8
F(5%)	s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F ₁	1964	63.1	74.9	61.0	64.2	103.2	14.6	3.6	149.8	73.3
F ₂	2243	63.1	78.5	60.7	63.7	102.8	15.0	3.8	157.3	76.7
F ₃	2315	64.4	78.7	60.2	63.0	102.3	15.2	3.8	159.7	79.7
F ₄	2334	63.9	79.0	59.7	62.2	101.7	15.2	3.8	160.8	81.5

C.D.(5%)Bi-Bj	101.7	2.3	3.0	1.0	1.2	2.1	0.2	0.4	7.9	5.9
C.V.(%)ErrorB	3.7	2.8	3.1	1.3	1.5	1.6	1.2	7.7	4.0	6.0
F(5%)	s	n.s.	s	s	s	n.s.	s	n.s.	s	s

Treatment details:

Main Plot: Plant geometry (population/ha)

- P₁ 75000 (67×20 cm),
- P₂ 66000 (67×25 cm)

Sub Plot: Fertility levels (N:P2O5:K2O kg/ha)

- F₁ 200:75:75
- F₂ FYM (15t/ha):200:75:75
- F₃ FYM (15t/ha):250:90:90
- F₄ FYM (15t/ha):300:105:105

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Table 34: Agro-techniques for seed production of inbred parents at Pantnagar.

Main Plot	Sub Plot	Grain Yield (kg/ha)	Cob Yield with husk (Kg/ha)	Cob Yield without husk (Kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to 50 Tasselings	Days to 50 Silking	Cob length (cm)	Cob girth (cm)	100 grain wt (g)	Seed moisture at harvest (%)
P ₁	N ₁	5025	7131	5929	54.7	49.8	168.3	43.3	46.3	13.3	11.9	21.1	25.3
	N ₂	5415	7711	6841	55.6	51.4	170.0	43.3	46.7	14.4	11.9	21.6	25.7
	N ₃	5282	7421	6551	54.7	48.9	170.7	43.0	46.7	13.9	14.6	20.8	25.7
	N ₄	5439	7753	6633	52.2	48.9	172.7	43.3	46.7	14.0	12.4	21.0	25.7
P ₂	N ₁	3665	5224	5058	59.7	48.1	175.0	43.0	46.7	13.9	11.7	21.2	24.7
	N ₂	5307	7421	6551	58.0	52.2	180.0	42.7	46.7	15.7	13.0	23.2	25.7
	N ₃	5000	7007	6177	60.5	52.2	181.7	43.7	46.7	12.8	12.7	21.5	25.0
	N ₄	5133	7214	6136	57.2	53.1	176.3	43.0	46.7	14.7	12.6	22.6	25.7

Location mean	5033.2	7110.3	6234.5	56.6	50.6	174.3	43.2	46.6	14.1	12.6	21.6	25.4
C.D.(5%) AiBj-AiBk	1462.6	2134.7	2094.8	7.2	5.7	10.1	1.2	0.7	2.8	3.3	3.2	1.1
C.D.(5%) AiBk-AjBk	2782.5	4008.1	2974.4	6.6	5.4	15.9	1.7	0.7	2.5	3.8	4.4	1.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	5290	7504	6488	54.3	49.8	170.4	43.3	46.6	13.9	12.7	21.1	25.6
P ₂	4776	6716	5981	58.9	51.4	178.3	43.1	46.7	14.2	12.5	22.1	25.3

C.D.(5%) Ai-Aj	2634.3	3785.5	2572.9	2.4	2.4	14.4	1.4	0.4	0.4	2.7	3.7	0.9
C.V.(%) Error A	29.8	30.3	23.5	2.4	2.7	4.7	1.9	0.4	1.7	12.3	9.9	2.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N ₁	4345	6177	5493	57.2	48.9	171.7	43.2	46.5	13.6	11.8	21.1	25.0
N ₂	5361	7566	6696	56.8	51.8	175.0	43.0	46.7	15.0	12.4	22.4	25.7
N ₃	5141	7214	6364	57.6	50.6	176.2	43.3	46.7	13.3	13.7	21.2	25.3
N ₄	5286	7483	6385	54.7	51.0	174.5	43.2	46.7	14.4	12.5	21.8	25.7

C.D.(5%)Bi-Bj	1034.2	1509.4	1481.2	5.1	4.1	7.1	0.9	0.5	2.0	2.4	2.3	0.8
C.V.(%)ErrorB	16.3	16.9	18.9	7.1	6.4	3.2	1.6	0.9	11.2	14.9	8.4	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment:

A. Main Plot: Plant Geometry (P): B. Sub Plot: Nutrient levels (N):

P₁: 75,000 (67cm x 20cm)

N₁: 200:75:75 kg NPK/ha

P₂: 60,000 (67cm x 25cm)

N₂: 200:75:75 kg NPK/ha + FYM (15 t/ha)

N₃: 250:90:90 kg NPK/ha + FYM (15 t/ha)

N₄: 300:105:105 kg NPK/ha + FYM (15 t/ha)

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Table 35: Agro-technique for seed production of inbred parents at Dholi.

Main Plot Population	Sub Plot N Levels	Cob Yield (kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)
P ₁	F1	2504	74.1	71.9
	F2	3383	71.9	68.5
	F3	4229	72.4	69.1
	F4	4450	73.5	71.9
P ₂	F1	2653	56.9	54.7
	F2	2886	55.8	54.2
	F3	3538	56.4	54.7
	F4	4312	58.0	55.8

Location mean	3494.3	64.9	62.6
C.D.(5%) AiBj-AiBk	408.4	3.9	3.8
C.D.(5%) AiBk-AjBk	807.9	3.5	5.1
F(5%)	s	n.s.	n.s.

P ₁	3642	73.0	70.3
P ₂	3347	56.8	54.9

C.D.(5%) Ai-Aj	769.9	1.0	4.3
C.V.(%) Error A	12.5	0.9	3.9
F(5%)	n.s.	s	s

F ₁	2579	65.5	63.3
F ₂	3134	63.8	61.4
F ₃	3883	64.4	61.9
F ₄	4381	65.8	63.8

C.D.(5%)Bi-Bj	288.8	2.7	2.7
C.V.(%)ErrorB	6.6	3.3	3.4
F(5%)	s	n.s.	n.s.

Treatment details:

Main Plot	Population
P ₁	67 x 20 cm (75000 plants/ha)
P ₂	67 x 25 cm (60000 plants/ha)

Sub Plot	N Levels
F ₁	200:75:75 (N-P2O5-K2O kg/ha)
F ₂	FYM (15t/ha) + 200:75:75 (N-P2O5-K2O kg/ha)
F ₃	FYM (15t/ha) + 250:90:90(N-P2O5-K2O kg/ha)
F ₄	FYM (15t/ha) + 300:105:105(N-P2O5-K2O kg/ha)

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Table 36: Developing agro-technique for seed production of inbreds at Ranchi.

Main Plot (Spacing)	Sub Plot (N Levels)	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Plant height (cm)	Ear height(cm)	Cob girth (Cm)	Cob length (cm)	No. of rows/cob	No. of kernels/row	100 Grain weight (g)	Shelling (%)
P ₁	F ₁	2323	3179	71.1	64.9	161.2	66.0	11.1	11.4	10.7	22.7	26.5	73.1
	F ₂	2617	3480	73.1	66.7	166.1	68.0	11.2	11.6	10.7	24.8	27.6	75.2
	F ₃	2975	3930	72.6	66.2	171.8	73.1	11.7	12.5	11.8	26.2	28.2	75.7
	F ₄	3189	4299	72.6	66.2	168.9	69.2	11.9	13.1	11.3	27.2	28.6	74.2
P ₂	F ₁	2572	3405	57.5	56.2	165.0	65.4	11.7	12.6	11.2	24.5	28.5	75.5
	F ₂	2831	3771	58.0	57.7	164.7	67.9	12.1	13.0	11.7	26.3	29.3	75.1
	F ₃	3239	4294	59.5	59.0	162.8	65.5	12.2	13.2	11.4	28.3	30.6	75.4
	F ₄	3274	4368	59.0	58.7	166.9	69.6	12.2	13.5	12.2	29.8	31.5	75.0

Location mean	2877.5	3840.8	65.4	61.9	165.9	68.1	11.8	12.6	11.4	26.2	28.8	74.9
C.D.(5%) AiBj-AiBk	217.6	266.5	3.7	4.6	12.0	7.4	0.7	0.9	0.9	2.3	1.5	1.7
C.D.(5%) AiBk-AjBk	260.7	362.6	3.7	5.3	11.0	8.0	1.0	0.8	0.9	2.1	1.4	1.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	2776	3722	72.4	66.0	167.0	69.1	11.5	12.1	11.1	25.2	27.7	74.6
P ₂	2979	3960	58.5	57.9	164.8	67.1	12.1	13.1	11.6	27.2	30.0	75.2

C.D.(5%) Ai-Aj	200.0	306.6	2.1	3.9	4.1	5.5	0.8	0.3	0.5	0.7	0.5	0.9
C.V.(%) Error A	4.0	4.5	1.9	3.6	1.4	4.6	4.1	1.1	2.6	1.5	0.9	0.7
F(5%)	s	n.s.	s	s	n.s.	n.s.	n.s.	s	s	s	s	n.s.

F ₁	2448	3292	64.3	60.6	163.1	65.7	11.4	12.0	10.9	23.6	27.5	74.3
F ₂	2724	3626	65.5	62.2	165.4	67.9	11.7	12.3	11.2	25.6	28.4	75.1
F ₃	3107	4112	66.0	62.6	167.3	69.3	11.9	12.9	11.6	27.2	29.4	75.6
F ₄	3231	4333	65.8	62.4	167.9	69.4	12.1	13.3	11.8	28.5	30.0	74.6

C.D.(5%)Bi-Bj	153.9	188.4	2.6	3.3	8.5	5.2	0.5	0.6	0.6	1.7	1.1	1.2
C.V.(%)ErrorB	4.3	3.9	3.2	4.2	4.1	6.1	3.1	3.9	4.3	5.0	2.9	1.3
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	s	s	s	s	s	n.s.

Treatment

Main plo Plant geometry (population)

- P₁ (i) 67 X 20 cm spacing (75000 plants/ha)
- P₂ (ii) 67 X 25 cm spacing (60000 plants/ha)

Subplot Fertility levels (4)

- F₁ (i) 200-75-75 N-P2O5-K2O kg/ha
- F₂ (ii) FYM (15 t/ha) + 200-75-75 N-P2O5-K2O kg/ha
- F₃ (iii) FYM (15 t/ha) + 250-90-90 N-P2O5-K2O kg/ha
- F₄ (iv) FYM (15 t/ha) + 250-90-90 N-P2O5-K2O kg/ha

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Table 37: Agro-techniques for seed production of inbred parental at Chhindwara.

Main Plot Plant Pop.	Sub Plot N Levels	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Silking	Plant height (cm)
P1	F1	2689	61.5	51.9	60.7	144.7
	F2	3089	64.1	54.8	60.0	151.3
	F3	3222	64.4	60.0	60.0	151.7
	F4	3267	64.1	60.7	59.7	153.0
P2	F1	2822	43.0	41.1	59.7	155.0
	F2	2867	46.3	45.9	59.3	154.0
	F3	2978	51.5	48.9	59.3	155.3
	F4	3067	51.9	48.9	58.3	155.7

Location mean	3000.0	55.8	51.5	59.6	152.6
C.D.(5%) AiBj-AiBk	389.4	3.0	5.0	1.1	13.0
C.D.(5%) AiBk-AjBk	516.8	4.3	4.7	1.2	11.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.

P1	3067	63.5	56.9	60.1	150.2
P2	2933	48.1	46.2	59.2	155.0

C.D.(5%) Ai-Aj	430.3	3.8	2.2	0.7	2.5
C.V.(%) Error A	8.2	3.9	2.5	0.7	0.9
F(5%)	n.s.	s	s	s	s

F1	2756	52.2	46.5	60.2	149.8
F2	2978	55.2	50.4	59.7	152.7
F3	3100	58.0	54.4	59.7	153.5
F4	3167	58.0	54.8	59.0	154.3

C.D.(5%)Bi-Bj	275.3	2.1	3.5	0.8	9.2
C.V.(%)ErrorB	7.3	3.0	5.4	1.0	4.8
F(5%)	s	s	s	s	n.s.

Treatment details:

Plant population

P1 = 67X20 cm plant to plant =75,000/ha plant

P2 = 67X 25 cm plant to plant =60,000/ha plant

Fertilizer dose N, P and K Kg/ha

F1 = 200:75:75

F2 = 200:75:75+15 ton FYM

F3 = 250:90:90+15 ton FYM

F4 =300:105:105+15 ton FYM

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Table 38: Effect of plant population and fertilizer levels on production of female inbred lines of single cross hybrid HQPM-1 at Udaipur.

Main Plot (Population)	Sub Plot (N Levels)	Grain yield (kg/ha)	No of plant 15 DAS (000/ha)	No of plant at harvest (000/ha)	No. of cob (000/ha)
P ₁	F ₁	3638	81.3	73.3	72.0
	F ₂	4043	81.8	73.8	72.5
	F ₃	4443	82.2	72.8	71.8
	F ₄	4525	82.0	72.8	71.5
P ₂	F ₁	3248	65.8	59.3	57.7
	F ₂	3623	65.5	58.7	58.8
	F ₃	3943	64.7	59.7	57.8
	F ₄	4040	64.0	57.3	55.8

Location mean	3937.5	73.4	66.0	64.8
C.D.(5%) AiBj-AiB	618.5	2.8	5.6	6.0
C.D.(5%) AiBk-AjĒ	536.5	2.7	5.0	5.5
F(5%)	n.s.	n.s.	n.s.	n.s.

P ₁	4162	81.8	73.2	72.0
P ₂	3713	65.0	58.8	57.5

C.D.(5%) Ai-Aj	32.2	1.3	1.3	2.1
C.V.(%) Error A	0.7	1.5	1.8	2.9
F(5%)	s	s	s	s

F ₁	3443	73.6	66.3	64.8
F ₂	3833	73.7	66.3	65.7
F ₃	4193	73.4	66.3	64.8
F ₄	4283	73.0	65.1	63.7

C.D.(5%)Bi-Bj	437.3	2.0	3.9	4.2
C.V.(%)ErrorB	10.6	2.6	5.7	6.2
F(5%)	s	n.s.	n.s.	n.s.

Treatment details:

Main Plot Plant population

(i) 60 x 20 cm (83333/ha)	P ₁
(ii) 60 x 25 cm (66666/ha)	P ₂

Sub Plot Fertilizer levels

(i) 200 + 75 + 75 Kg N + P ₂ O ₅ + K ₂ O/ha	F ₁
(ii) FYM (15 t/ha) + 200 + 75 + 75 Kg N + P ₂ O ₅ + K ₂ O/ha	F ₂
(iii) FYM (15 t/ha) + 250 + 90 + 90 Kg N + P ₂ O ₅ + K ₂ O/ha	F ₃
(iv) FYM (15 t/ha) + 300 + 105 + 105 Kg N + P ₂ O ₅ + K ₂ O/ha	F ₄

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Table 39: Effect of plant population and fertilizer levels on production of male inbred lines of single cross hybrid HQPM-1 at Udaipur.

Main Plot (Population)	Sub Plot (N Levels)	Grain yield (kg/ha)	No of plant 15 DAS (000/ha)	No of plant at harvest (000/ha)	No. of cob (000/ha)	Plant Height (cm)
P ₁	F ₁	2515	82.5	74.7	73.7	160.5
	F ₂	3023	82.8	75.3	74.8	165.1
	F ₃	3145	82.7	74.7	74.0	166.6
	F ₄	3123	82.8	74.0	73.3	166.3
P ₂	F ₁	2005	66.5	60.7	59.8	156.4
	F ₂	2510	66.2	60.0	59.8	164.7
	F ₃	2635	66.3	59.3	58.8	164.4
	F ₄	2630	66.5	57.3	56.8	164.2

Location mean	2698.1	74.5	67.0	66.4	163.5
C.D.(5%) AiBj-AiBk	443.4	0.9	4.3	5.3	8.8
C.D.(5%) AiBk-AjBk	480.9	1.1	3.7	4.7	7.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	2951	82.7	74.7	74.0	164.6
P ₂	2445	66.4	59.3	58.8	162.4

C.D.(5%) Ai-Aj	303.6	0.8	0.4	0.7	1.6
C.V.(%) Error A	10.0	0.9	0.6	0.9	0.9
F(5%)	s	s	s	s	s

F ₁	2260	74.5	67.7	66.8	158.4
F ₂	2766	74.5	67.7	67.3	164.9
F ₃	2890	74.5	67.0	66.4	165.5
F ₄	2876	74.7	65.7	65.1	165.3

C.D.(5%)Bi-Bj	313.5	0.6	3.0	3.8	6.2
C.V.(%)ErrorB	11.1	0.8	4.3	5.4	3.6
F(5%)	s	n.s.	n.s.	n.s.	n.s.

Treatment details:

Main Plot	Plant population	Symbol
(i)	60 x 20 cm (83333/ha)	P1
(ii)	60 x 25 cm (66666/ha)	P2
Sub Plot	Fertilizer levels	
(i)	200 + 75 + 75 Kg N + P2O5+ K2O/ha	F1
(ii)	FYM (15 t/ha) + 200 + 75 + 75 Kg N + P2O5+ K2O/ha	F2
(iii)	FYM (15 t/ha) + 250 + 90 + 90 Kg N + P2O5+ K2O/ha	F3
(iv)	FYM (15 t/ha) + 300 + 105 + 105 Kg N + P2O5+ K2O/ha	F4

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Table 40: Development of Agro-techniques for single cross hybrid seed production at Bajaura.

Main Plot (Fertilizers)	Sub Plot (Population X Spacing)		Grain yield (Kg/ha)	Plant Stand (['] 000/ha)	No. of cobs (['] 000/ha)	Plant height (cm)
F ₁	P ₁	S ₁	2737	37.5	38.3	141.5
	P ₁	S ₂	2759	30.6	34.2	143.0
	P ₂	S ₁	3764	43.2	44.3	143.4
	P ₂	S ₂	3283	37.3	41.5	137.6
	P ₃	S ₁	3714	49.3	49.8	135.3
	P ₃	S ₂	3809	40.7	42.8	131.5
F ₂	P ₁	S ₁	2811	39.7	38.3	140.9
	P ₁	S ₂	2644	30.8	31.1	150.0
	P ₂	S ₁	3592	36.8	41.5	145.7
	P ₂	S ₂	3329	35.7	38.8	140.7
	P ₃	S ₁	3945	44.1	45.7	138.1
	P ₃	S ₂	3807	41.7	44.4	139.9

Location mean	3349.5	38.9	40.9	140.6
C.D.(5%) AiBj-AiBk	238.5	4.4	3.7	5.9
C.D.(5%) AiBk-AjBk	226.8	4.1	4.9	8.3
F(5%)	n.s.	s	n.s.	n.s.

F ₁	3344	39.8	41.8	138.7
F ₂	3355	38.1	40.0	142.6

C.D.(5%) Ai-Aj	73.6	1.1	4.0	7.0
C.V.(%) Error A	153.1	2.1	6.8	3.5
F(5%)	n.s.	s	n.s.	n.s.

P ₁ x S ₁	2774	38.6	38.3	141.2
P ₁ x S ₂	2702	30.7	32.6	146.5
P ₂ x S ₁	3678	40.0	42.9	144.5
P ₂ x S ₂	3306	36.5	40.2	139.1
P ₃ x S ₁	3830	46.7	47.8	136.7
P ₃ x S ₂	3808	41.2	43.6	135.7

C.D.(5%)Bi-Bj	168.7	3.1	2.6	4.2
C.V.(%)ErrorB	4.2	6.6	5.4	2.5
F(5%)	s	s	s	s

Treatments:

Main plots- Fertility levels (N: P2O5:K2O, kg/ha)

F ₁	150:65:65
F ₂	200:80:80

Sub plots- (axb)

a. Plant Geometry (Population)

P ₁	Row ratio 2 (Female) :1 (male)- 2:1
P ₂	Row ratio 3 (Female) :1 (male) - 3:1
P ₃	Row ratio 4 (Female) :1 (male)- 4:1

b. Plant Spacing

S ₁	60 x20 cm
S ₂	60x25 cm

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Table 41: Agro-techniques for single cross hybrids at Srinagar.

Main Plot	Sub Plot	Grain yield (Kg/ha)	Cob yield (Kg/ha)	No. of Plants (m ²)	No. of Plants (000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% Silking
P1	F1xV1	4120	5115	72.0	72.0	202.7	71.0	80.3
	F1xV2	4423	5443	70.7	70.7	207.7	68.0	75.0
	F2xV1	4662	5778	71.3	71.3	204.0	74.3	81.3
	F2xV2	4758	5792	71.7	71.7	204.3	69.0	74.7
	F3xV1	4717	5750	72.3	72.3	201.3	75.3	81.7
	F3xV2	4947	5657	71.7	71.7	203.0	68.0	75.0
P2	F1xV1	3655	4675	73.3	73.3	207.3	72.7	80.3
	F1xV2	4212	5262	71.3	71.3	210.0	67.0	74.0
	F2xV1	4013	5100	72.0	72.0	208.7	73.0	82.0
	F2xV2	4535	5558	72.3	72.3	211.7	66.7	73.7
	F3xV1	4223	5188	73.0	73.0	204.7	75.0	81.7
	F3xV2	4620	5543	71.7	71.7	211.3	68.0	73.7
P3	F1xV1	4522	5484	71.7	71.7	209.3	73.0	81.0
	F1xV2	5005	5992	70.3	70.3	208.0	67.3	74.0
	F2xV1	4908	5272	71.0	71.0	202.7	73.0	80.3
	F2xV2	5365	6088	71.3	71.3	203.7	66.7	74.7
	F3xV1	4972	6095	71.7	71.7	213.0	75.3	81.7
	F3xV2	5488	6373	71.3	71.3	204.7	66.7	73.0

Location mean	4619.2	5564.8	71.7	71.7	206.6	70.6	77.7
C.D.(5%) AiBj-AiBk	202.3	588.9	2.1	2.1	10.9	2.7	3.5
C.D.(5%) AiBk-AjBk	233.2	543.8	2.1	2.1	14.3	3.0	4.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P1	4604	5589	71.6	71.6	203.8	70.9	78.0
P2	4210	5221	72.3	72.3	208.9	70.4	77.6
P3	5043	5884	71.2	71.2	206.9	70.3	77.4

C.D.(5%) Ai-Aj	146.2	84.9	0.7	0.7	10.6	1.8	2.4
C.V.(%) Error A	3.4	1.6	1.1	1.1	5.5	2.8	3.3
F(5%)	s	s	s	s	n.s.	n.s.	n.s.

F1V1	4099	5091	72.3	72.3	206.4	72.2	80.6
F1V2	4547	5566	70.8	70.8	208.6	67.4	74.3
F2V1	4528	5383	71.4	71.4	205.1	73.4	81.2
F2V2	4886	5813	71.8	71.8	206.6	67.4	74.3
F3V1	4637	5678	72.3	72.3	206.3	75.2	81.7
F3V2	5018	5858	71.6	71.6	206.3	67.6	73.9

C.D.(5%)Bi-Bj	116.8	340.0	1.2	1.2	6.3	1.6	2.0
C.V.(%)ErrorB	2.6	6.3	1.8	1.8	3.2	2.3	2.7
F(5%)	s	s	n.s.	n.s.	n.s.	s	s

Treatment details not available

Cont....

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Table 42: Agro techniques for seed production of Single cross (PMH-1) at Ludhiana.

Main Plot (Row ratio)	Sub Plot (F levels)	Grain Yield (kg/ha)	Plant Stand/ha	No. of cobs/ha	Cob length (cm)	Cob girth (cm)	Plant height (cm)	Ear height (cm)
P ₁	F ₁	2017	39979	41045	16.0	4.0	156.0	80.7
	F ₂	2255	40689	42999	16.3	4.1	162.3	82.3
	F ₃	2204	40156	43177	16.7	4.2	163.7	83.0
P ₂	F ₁	2257	46435	48369	16.1	3.9	156.7	80.7
	F ₂	2432	46711	50166	16.4	4.1	162.7	82.7
	F ₃	2559	46573	50304	16.6	4.2	163.7	83.3
P ₃	F ₁	1977	40067	39623	16.0	4.1	156.7	81.3
	F ₂	2107	39979	41045	16.4	4.1	164.0	83.0
	F ₃	2178	40067	41222	16.4	4.2	165.3	84.0

Location mean	2220.5	42295.1	44216.7	16.3	4.1	161.2	82.3
C.D.(5%) AiBj-AiBk	138.3	2032.0	2595.6	0.4	0.2	10.5	6.9
C.D.(5%) AiBk-AjBk	126.1	1927.2	2431.4	0.6	0.1	10.6	6.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

2F:1M	2159	40275	42407	16.3	4.1	160.7	82.0
3F:1M	2416	46573	49613	16.4	4.1	161.0	82.2
4F:2M	2087	40038	40630	16.3	4.1	162.0	82.8

C.D.(5%) Ai-Aj	57.2	999.6	1215.3	0.5	0.1	6.2	4.1
C.V.(%) Error A	197.0	1.8	2.1	2.2	1.2	3.0	3.8
F(5%)	s	s	s	n.s.	n.s.	n.s.	n.s.

200:75:75	2083	42160	43012	16.1	4.0	156.4	80.9
10:200:75:75	2265	42460	44737	16.4	4.1	163.0	82.7
10:250:90:90	2314	42266	44901	16.6	4.2	164.2	83.4

C.D.(5%)Bi-Bj	79.9	1173.2	1498.6	0.3	0.1	6.1	4.0
C.V.(%)ErrorB	3.5	2.7	3.3	1.5	2.1	3.7	4.7
F(5%)	s	n.s.	s	s	s	s	n.s.

Treatment

Main Plot: Plant geometry (row ratio) (60x20 cm)

P ₁	2F:1M
P ₂	3F:1M
P ₃	4F:2M

Sub Plot: Fertility levels (N:P2O5:K2O kg/ha)

F ₁	200:75:75
F ₂	FYM (10t/ha):200:75:75
F ₃	FYM (10t/ha):250:90:90

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Table 43: Developing agro-techniques for seed production of single cross hybrid at Pantnagar.

Main Plot (Plant geometry)	Sub Plot (N Levels)	Grain Yield (kg/ha)	Cob Yield with husk (Kg/plot)	Cob Yield without husk (Kg/plot)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days o 50 Tasseling
P ₁	N ₁	4196	9892	5788	62.2	74.6	203.7	46.0
	N ₂	4254	9038	5804	64.7	73.8	208.0	47.0
	N ₃	4262	10531	5920	66.3	76.3	195.0	47.7
P ₂	N ₁	5912	14677	8615	73.0	122.7	207.3	46.7
	N ₂	6053	13391	8781	87.1	104.5	206.0	47.3
	N ₃	6385	14552	8889	98.7	111.1	203.7	47.3
P ₃	N ₁	9536	20564	14925	134.3	173.3	206.7	46.7
	N ₂	9793	20439	15638	131.8	159.2	208.3	47.3
	N ₃	10166	21227	15614	146.8	161.7	191.7	47.0

Location mean	6728.4	14923.5	9997.2	96.1	117.5	203.4	47.0
C.D.(5%) AiBj-AiBk	794.1	2726.3	1256.5	10.8	15.4	17.0	1.0
C.D.(5%) AiBk-AjBk	1183.2	3645.7	1515.4	18.7	22.2	18.7	1.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	4237	9820	5837	64.4	74.9	202.2	46.9
P ₂	6117	14207	8762	86.2	112.8	205.7	47.1
P ₃	9831	20744	15392	137.6	164.7	202.2	47.0

C.D.(5%) Ai-Aj	999.2	2920.2	1130.4	16.6	18.5	12.7	0.6
C.V.(%) Error A	11.3	15.0	8.6	13.2	12.0	4.8	1.0
F(5%)	s	s	s	s	s	n.s.	n.s.

N ₁	6548	15044	9776	89.8	123.5	205.9	46.4
N ₂	6700	14290	10075	94.5	112.5	207.4	47.2
N ₃	6938	15437	10141	103.9	116.4	196.8	47.3

C.D.(5%)Bi-Bj	458.4	1574.0	725.4	6.2	8.9	9.8	0.6
C.V.(%)ErrorB	6.6	10.3	7.1	6.3	7.4	4.7	1.2
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.	s

Treatment details:

A. Main Plot: Plant Geometry (P):

P₁: Row ratio: 2:1 :: Female: Male with 67cm x 20cm

P₂: Row ratio: 3:1 :: Female: Male with 67cm x 20cm

P₃: Row ratio: 4:1 :: Female: Male with 67cm x 20cm

B. Sub Plot: Nutrient levels (N):

N₁: 200:75:75 kg NPK/ha

N₂: 200:75:75 kg NPK/ha + FYM (10 t/ha)

N₃: 250:90:90 kg NPK/ha + FYM (10 t/ha)

Cont.....

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Main Plot (Plant geometry)	Sub Plot (N Levels)	Days to 50 Silking	Cob length (cm)	Cob girth (cm)	100 grain wt (g)	Seed moisture at harvest (%)
P ₁	N ₁	50.3	15.6	13.8	16.4	26.3
	N ₂	51.3	16.0	11.6	25.7	26.5
	N ₃	52.0	15.7	11.6	27.1	26.2
P ₂	N ₁	50.7	15.1	12.0	25.5	26.3
	N ₂	51.7	15.4	11.8	22.6	25.8
	N ₃	52.0	15.1	10.8	23.3	26.3
P ₃	N ₁	50.3	16.1	12.8	21.7	26.0
	N ₂	51.7	15.0	12.2	22.1	25.1
	N ₃	52.3	14.4	12.4	24.5	26.2

Location mean	51.4	15.4	12.1	23.2	26.1
C.D.(5%) AiBj-AiBk	1.0	1.6	2.0	10.4	1.6
C.D.(5%) AiBk-AjBk	1.0	2.1	2.2	9.4	1.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

P ₁	51.2	15.8	12.3	23.1	26.3
P ₂	51.4	15.2	11.5	23.8	26.2
P ₃	51.4	15.2	12.5	22.8	25.8

C.D.(5%) Ai-Aj	0.5	1.7	1.5	4.1	0.4
C.V.(%) Error A	0.7	8.5	9.6	13.5	1.2
F(5%)	n.s.	n.s.	n.s.	n.s.	s

N ₁	50.4	15.6	12.9	21.2	26.2
N ₂	51.6	15.4	11.9	23.5	25.8
N ₃	52.1	15.1	11.6	25.0	26.2

C.D.(5%)Bi-Bj	0.6	0.9	1.1	6.0	0.9
C.V.(%)ErrorB	1.1	5.9	9.1	25.2	3.4
F(5%)	s	n.s.	n.s.	n.s.	n.s.

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Table 44: Developing agro-technique for seed production of single cross hybrids at Ranchi.

Main Plot (Population)	Sub Plot (N Levels)	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Plant height (cm)	Ear height (cm)	Cob girth (Cm)	Cob length (cm)	No. of rows/cob	No. of kernels/row	100 Grain weight (g)	Shelling (%)
G ₁	F ₁	1970	2451	45.0	42.7	165.2	70.6	12.1	14.0	11.6	29.2	35.4	80.3
	F ₂	2411	2949	45.9	44.0	172.1	74.6	12.8	14.6	12.3	29.3	35.2	81.9
	F ₃	2585	3136	46.3	44.5	173.8	79.7	13.2	14.9	12.7	29.9	35.5	82.4
G ₂	F ₁	2383	2931	51.8	49.8	168.9	73.8	12.2	13.6	11.4	28.0	34.8	81.4
	F ₂	2477	3070	51.8	50.1	172.0	74.0	12.6	14.4	12.0	29.1	35.0	80.7
	F ₃	2616	3217	53.0	51.2	173.7	78.5	12.8	14.7	12.4	30.0	35.1	81.3
G ₃	F ₁	1858	2338	45.9	44.0	167.8	76.1	12.2	13.9	11.2	27.2	33.6	79.6
	F ₂	2075	2603	45.6	44.2	169.9	78.2	12.5	14.3	11.8	29.0	34.8	79.6
	F ₃	2203	2766	45.6	43.7	171.0	71.3	12.6	14.5	12.0	29.6	35.0	79.6

Location mean	2286.4	2829.0	47.9	46.0	170.5	75.2	12.6	14.3	11.9	29.0	34.9	80.8
C.D.(5%) AiBj-AiBk	184.9	202.6	2.7	3.2	12.8	6.7	0.8	1.4	0.8	2.5	1.5	4.4
C.D.(5%) AiBk-AjBk	258.8	304.7	3.1	3.4	12.2	7.5	1.0	1.3	0.8	2.4	1.4	4.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

G ₁	2322	2845	45.7	43.8	170.4	74.9	12.7	14.5	12.2	29.5	35.4	81.5
G ₂	2492	3073	52.2	50.3	171.5	75.4	12.5	14.2	12.0	29.0	35.0	81.1
G ₃	2045	2569	45.7	44.0	169.5	75.2	12.4	14.2	11.7	28.6	34.5	79.6

C.D.(5%) Ai-Aj	212.4	258.3	2.2	2.2	6.4	5.2	0.7	0.7	0.5	1.2	0.6	2.4
C.V.(%) Error A	7.1	7.0	3.5	3.7	2.9	5.3	4.3	3.5	3.4	3.2	1.4	2.3
F(5%)	s	s	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

F ₁	2070	2574	47.6	45.5	167.3	73.5	12.2	13.8	11.4	28.1	34.6	80.4
F ₂	2321	2874	47.8	46.1	171.3	75.6	12.6	14.4	12.0	29.1	35.0	80.7
F ₃	2468	3039	48.3	46.5	172.8	76.5	12.9	14.7	12.4	29.8	35.2	81.1

C.D.(5%)Bi-Bj	106.8	117.0	1.6	1.8	7.4	3.8	0.5	0.8	0.4	1.4	0.9	2.6
C.V.(%)ErrorB	4.5	4.0	3.2	3.9	4.2	5.0	3.5	5.3	3.6	4.8	2.4	3.1
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	s	n.s.	s	n.s.	n.s.	n.s.

Treatment

Main plot Plant geometry (population)

- G₁ Row ratio 2 (female) : 1 (male) with 67 X 20 cm spacing
- G₂ Row ratio 3 (female) : 1 (male) with 67 X 20 cm spacing
- G₃ Row ratio 4 (female) : 2 (male) with 67 X 20 cm spacing

Subplot Fertility levels (4)

- F₁ (i) 200-75-75 N-P2O5-K2O kg/ha
- F₂ (ii) FYM (10 t/ha) + 200-75-75 N-P2O5-K2O kg/ha
- F₃ (iii) FYM (10 t/ha) + 250-90-90 N-P2O5-K2O kg/ha

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Table 45: Agro Techniques for production of Maize Hybrid-HQPM-1 at Kolhapur

Main Plot (Spacing)	Sub Plot (N Levels)	Grain yield (kg/ha)	Cob yield (kg/ha)	No. of Plant (000/ha)	No. of cobs (000/ha)	Days to 50% Tasseling	Plant Height (cm)
S ₁	N ₁	7245	8850	71.2	74.3	57.0	172.0
	N ₂	8542	10410	74.3	75.2	56.7	179.7
	N ₃	8268	9984	67.8	76.8	56.0	180.3
	N ₄	7892	10016	74.6	72.8	56.0	180.0
S ₂	N ₁	7516	8523	58.8	67.5	57.0	177.3
	N ₂	8234	9994	59.4	75.2	56.7	182.7
	N ₃	7652	9406	58.1	74.9	56.0	189.0
	N ₄	7758	9574	58.1	74.0	56.0	183.7

Location mean	7888.3	9594.6	65.3	73.8	56.4	180.6
C.D.(5%) AiBj-AiBk	869.3	1043.9	5.5	5.2	0.5	5.4
C.D.(5%) AiBk-AjBk	1460.4	1801.5	5.5	9.2	0.7	5.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

S ₁	7987	9815	72.0	74.8	56.4	178.0
S ₂	7790	9374	58.6	72.9	56.4	183.2

C.D.(5%) Ai-Aj	1344.7	1670.5	3.0	8.6	0.6	3.1
C.V.(%) Error A	9.7	9.9	2.6	6.6	0.6	1.0
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s

N ₁	7380	8686	65.0	70.9	57.0	174.7
N ₂	8388	10202	66.9	75.2	56.7	181.2
N ₃	7960	9695	63.0	75.9	56.0	184.7
N ₄	7825	9795	66.4	73.4	56.0	181.8

C.D.(5%)Bi-Bj	614.7	738.1	3.9	3.7	0.4	3.8
C.V.(%)ErrorB	6.2	6.1	4.8	3.9	0.5	1.7
F(5%)	s	s	n.s.	s	s	s

Treatment details:

Main Plot: (2) Spacing

- S₁ 67x20 cm
- S₂ 67x25 cm

Sub Plot: (4) Fertility levels

- N₁ 200:75:75
- N₂ FYM (15 t) + 250:75:75
- N₃ FYM (15 t) + 250:90:90
- N₄ FYM (15 t) + 300:105:105

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Table 46: Developing agro-technique for seed production of inbreds and single cross hybrid (HQPM-1) at

Banswara.

Main Plot (Spacing)	Sub Plot (F levels)	Grain Yield (kg/ha)
G ₁	F ₁	971
	F ₂	1060
	F ₃	1161
G ₂	F ₁	1121
	F ₂	1149
	F ₃	1231
G ₃	F ₁	1217
	F ₂	1278
	F ₃	1294

Location mean 1164.6
 C.D.(5%) AiBj-
 AiBk 326.1
 C.D.(5%) AiBk-
 AjBk 346.6
 F(5%) n.s.

G ₁	1064
G ₂	1167
G ₃	1263

C.D.(5%) Ai-Aj 225.6
 C.V.(%) Error A 14.8
 F(5%) n.s.

F ₁	1103
F ₂	1162
F ₃	1229

C.D.(5%)Bi-Bj 188.2
 C.V.(%)ErrorB 15.7
 F(5%) n.s.

Treatments details:

Main

Plots: Plant geometry (population)

G₁. Row ratio 2 (Female):1 (male) with 67 x 20 cm spacing
 G₂. Row ratio 3 (Female):1 (male) with 67 x 20 cm spacing
 G₃. Row ratio 4 (Female): 2 (male) with 67 x 20 cm spacing

Sub-Plots: Fertility levels

F₁. 200-75-75-N-P₂O₅-K₂O kg/ha
 F₂. FYM (10 t/ha) + 200-75-75-N-P₂O₅-K₂O kg/ha
 F₃. FYM (10 t/ha) + 250-90-90-N-P₂O₅-K₂O kg/ha

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Table 47: Agro-techniques for maximum production of single cross hybrid (HQPM-1) at Banswara.

Main Plot (Spacing)	Sub Plot (F levels)	Grain Yield (kg/ha)
S ₁	F ₁	5162
	F ₂	5578
	F ₃	5867
	F ₄	6114
S ₂	F ₁	4684
	F ₂	4893
	F ₃	5203
	F ₄	5253

Location mean	5344.4
C.D.(5%) AiBj-AiBk	872.9
C.D.(5%) AiBk-AjBk	917.4
F(5%)	n.s.

S ₁	5680
S ₂	5008

C.D.(5%) Ai-Aj	585
C.V.(%) Error A	6.2
F(5%)	s

F ₁	4923
F ₂	5236
F ₃	5535
F ₄	5684

C.D.(5%)Bi-Bj	617
C.V.(%)ErrorB	9.2
F(5%)	n.s.

Treatments

Main Plots:

Spacing

S₁. 67 x 20 cm spacing (75,000 plants/ha)

S₂. 67 x 25 cm spacing (60,000 plants/ha)

Sub-Plots:

Fertility levels

F₁. 200-75-75-N-P₂O₅-K₂O

kg/ha

F₂. FYM (15 t/ha) +200-75-75-N-P₂O₅-K₂O

kg/ha

F₃. FYM (15 t/ha) + 250-90-90-N-P₂O₅-K₂O kg/ha

F₄. FYM (15 t/ha) + 300-105-105-N-P₂O₅-K₂O

kg/ha

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Table 48: Weed management in Maize under Kashmir Valley conditions at Srinagar.

Treatments	Grain yield (Kg/ha)	Cob yield (Kg/ha)	No. of Plants (m2)	No. of Plants (000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% Silking
T ₁	4418	5220	81.3	81.3	182.0	67.7	72.3
T ₂	4648	5392	80.3	80.3	183.3	70.7	76.0
T ₃	5049	5805	80.3	80.3	184.7	68.7	73.3
T ₄	4743	5517	80.7	80.7	174.3	66.7	67.7
T ₅	3914	4695	80.7	80.7	134.3	62.3	67.0
T ₆	5395	6111	81.7	81.7	178.0	70.3	74.0

Mean	4694.5	5456.5	80.8	80.8	172.8	67.7	71.7
CD	497.6	481.6	1.8	1.8	12.2	3.6	5.7
CV (%)	5.8	4.9	1.2	1.2	3.9	2.9	4.4
Significance	S	S	N.S.	N.S.	S	S	S

Treatments	No. of cob/Plant	No. of grain rows/cob	No. of grains/row	Grains wt./cob	Shelling (%)	1000 grain wt. (g)
T ₁	1.1	14.7	32.0	190.3	81.7	335.7
T ₂	1.1	14.0	32.7	180.7	81.3	353.0
T ₃	1.1	12.7	35.3	187.7	81.7	346.7
T ₄	1.2	14.7	32.3	185.3	81.0	348.7
T ₅	0.8	11.3	29.0	187.7	74.0	331.0
T ₆	1.1	13.3	33.3	185.3	81.3	348.3

Mean	1.1	13.4	32.4	186.2	80.2	343.9
CD	0.3	3.2	7.7	14.5	5.6	21.3
CV (%)	13.6	13.2	13.0	4.3	3.8	3.4
Significance	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment for Experiment

T1 = Atrazine @ 1 Kg a I / ha PE

T2 = Alachlor @ 0.5 Kg ai / ha + Atrazine @ 0.5 Kg ai / ha PE

T3 = Oxadiraxgyl @ 0.09 Kg ai / ha (80% wp) FE

T4 = Cover crop (coe pea)

T5 = Weedy

T6 = Weed Free

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Table 49: Integrated Weed Management in maize under different cropping systems at Udhampur.

Treatment	Grain Yield (kg/ha)	Cob Yield (kg/ha)	Straw Yield (kg/ha)	Plant Height (cm)	No. of Leaves	Stem Girth (cm)
T ₁	1543	2091	5324	131.9	9.0	5.9
T ₂	3431	4427	10274	144.6	9.4	7.7
T ₃	2520	3437	6252	141.9	9.3	6.2
T ₄	2267	2871	7588	134.3	9.1	7.1
T ₅	3150	4198	9785	147.4	10.4	7.7
T ₆	3326	4126	8186	152.6	10.6	7.7
T ₇	3555	4705	10307	154.8	10.3	7.8
T ₈	3531	4603	9705	148.3	10.0	7.4
T ₉	3282	4124	9589	146.2	10.7	8.2
T ₁₀	3354	5128	8696	145.2	9.9	8.1
T ₁₁	3619	4589	10860	172.3	11.0	8.5
T ₁₂	3767	5055	10957	175.1	10.5	9.2

Mean	3112.0	4112.9	8960.3	149.5	10.0	7.6
CD	633.0	688.1	1159.8	14.2	1.0	0.9
CV (%)	12.0	9.9	7.6	5.6	5.9	6.8
Significance	s	S	S	S	S	S

Treatment details:

T₁ - Control

T₂ - Pendi Pre

T₃ - Post 2,4D

T₄ - Metri Pre

T₅ - Atra Pre

T₆ - Atra + Pendi Pre

T₇ - Atra fb 2,4, d

T₈ - Pendi fb 2,4, d

T₉ - Atra fb metri

T₁₀ - Pendi fb metri

T₁₁ - Hand Weeding

T₁₂ - atra +Pendi + hand weeding

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Table 50: Integrated weed management in maize under different cropping systems at Pantnagar.

Treatment	Grain Yield (kg/ha)	Cob Yield with husk (Kg/ha)	Cob Yield without husk (Kg/ha)	Stover Yield (Kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)
T ₁	5231	12870	11759	20509	80.6	88.9
T ₂	4398	11065	9769	18843	76.9	79.6
T ₃	4722	12917	11509	23287	75.0	84.3
T ₄	5231	13102	9722	23009	79.6	80.6
T ₅	5139	13102	11435	23611	75.0	88.0
T ₆	5509	14398	11481	26806	82.4	88.0
T ₇	4907	12130	10926	20185	78.7	86.1
T ₈	4491	12685	10972	17407	76.9	89.8
T ₉	3241	8565	7685	14676	69.4	72.2
T ₁₀	5741	13519	12361	23194	82.4	92.6

Mean	4861.1	12435.2	10762.0	21152.8	77.7	85.0
CD	992.8	2083.1	1585.2	4291.2	3.1	14.5
CV (%)	11.9	9.8	8.6	11.8	2.3	9.9
Significance	S	S	S	S	S	N.S.

Treatment	Plant height (cm)	Days o 50 Tasseling	Days to 50 Silking	Cob length (cm)	Cob girth (cm)	100 grain wt (g)
T ₁	223.0	42.0	46.3	15.9	14.1	24.4
T ₂	202.0	43.0	57.3	14.6	13.2	25.5
T ₃	239.0	42.0	47.3	15.7	13.7	25.7
T ₄	239.0	43.0	47.3	16.0	13.3	24.4
T ₅	233.0	42.0	47.0	16.5	13.5	25.4
T ₆	243.3	42.7	46.3	16.4	13.4	25.1
T ₇	229.3	42.0	46.7	16.4	14.0	24.1
T ₈	222.0	43.0	46.3	15.6	13.4	25.3
T ₉	214.3	42.7	47.0	13.8	13.0	24.7
T ₁₀	241.7	42.3	46.0	15.0	13.3	25.3

Mean	228.7	42.5	47.8	15.6	13.5	25.0
CD	25.0	1.4	9.9	1.6	1.0	2.8
CV (%)	6.4	1.9	12.1	6.0	4.5	6.6
Significance	S	N.S.	N.S.	S	N.S.	N.S.

Treatment details:

T₁: Atrazine@ 1.0 kg ai/ha, PE

T₂: Metribuzine@ 0.25 kg ai/ha, PE

T₃: Alachlor @ 0.5 kg ai/ha, PE + Atrazine@ 05 kg ai/ha, PE

T₄: Glyphosate @ 1.0 kg ai/ha PE followed by Atrazine@ 375 g ai/ha + Alachlor @ 0.5 kg ai/ha, PE

T₅: Glyphosate @ 1.0 kg ai/ha, PE + 2,4D EE @ 0.1 kg ai/ha, POE

T₆: Atrazine@ 0.5 kg ai/ha, PE + 2,4D EE @ 0.4 kg ai/ha, POE

T₇: Maize + Cowpea (cowpea in between two rows of maize)

T₈: Maize + Mungbean (cMungbean in between two rows of maize)

T₉: Weedy check

T₁₀: Weed free

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**Table 51: Integrated weed management in maize under different cropping system
(Rice-maize) at Dholi.**

Treatment	Grain yield (kg/ha)	Stalk yield (kg/plot)	Days of flowering
T ₁	3022	4089	49.0
T ₂	3278	5304	49.3
T ₃	3109	5570	49.7
T ₄	3324	7111	47.7
T ₅	2756	6015	47.7
T ₆	3080	6726	46.7
T ₇	3238	6963	45.3
T ₈	3111	7748	45.3
T ₉	4021	6237	46.0
T ₁₀	3510	5393	46.0
T ₁₁	2994	6104	47.7
T ₁₂	3105	5733	48.3
T ₁₃	2976	5837	49.7

Mean	3194.2	6063.8	47.6
CD	405.5	1002.0	2.2
CV (%)	7.5	9.8	2.7
Significance	S	S	S

**** Treatment details not available.**

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Table 52: Integrated weed management in maize at Arbhavi.

Treatment	Grain Yield (Kg/ha)	Cob yield (Kg/ha)	Fodder Yield (Kg/ha)	Plant Stand (000/ha)	No. of Cob (000/ha)	Plant height (cm)	Moisture (%)	Grain wt. (5 Cob)	Pith wt. (5 Pith)	Shelling (%)
T ₁	5006	6800	6366	60.8	64.8	175.8	25.3	543.0	117.7	82.1
T ₂	5169	7118	6510	67.1	274.3	173.5	26.7	507.7	110.3	82.3
T ₃	4919	6713	6250	64.2	66.0	166.2	25.7	543.0	119.0	82.1
T ₄	4999	6973	5903	66.3	73.8	154.7	26.9	483.3	109.3	81.4
T ₅	5064	6916	5932	68.0	69.2	173.7	24.9	481.0	110.7	81.3
T ₆	4281	5932	5700	66.3	62.8	165.3	27.1	429.3	93.3	82.1
T ₇	5487	7581	6337	64.8	69.4	169.0	25.8	418.7	96.7	81.2
T ₈	4378	6105	5961	63.9	64.2	176.3	26.9	465.3	106.7	81.4
T ₉	5248	7292	6481	66.6	70.9	174.4	26.7	512.0	115.7	81.5
T ₁₀	4589	6337	6076	63.4	65.1	166.3	25.6	477.3	111.3	81.0
T ₁₁	4750	6453	5787	77.5	71.2	175.8	26.4	464.0	94.3	83.1
T ₁₂	3964	5382	4716	63.4	68.0	158.0	25.9	420.0	88.7	82.6
T ₁₃	4308	5816	5613	62.5	69.4	149.7	24.3	459.0	104.0	81.6
T ₁₄	5362	7350	7118	71.5	68.9	182.1	25.7	589.3	132.0	81.7
T ₁₅	3534	4861	3906	61.9	61.6	147.3	26.8	418.3	89.3	82.4
Mean	4737.4	6508.5	5910.5	65.9	81.3	167.2	26.0	480.8	106.6	81.8
CD	385.2	482.3	654.7	8.6	150.2	10.0	2.8	126.4	28.1	2.1
CV (%)	4.9	4.4	6.6	7.8	110.4	3.6	6.5	15.7	15.8	1.5
Significance	S	S	S	N.S.	N.S.	S	N.S.	N.S.	N.S.	N.S.

Treatment details

T1	Atrazine @ 1.00 Kg a.i. ha ⁻¹ (PRE).
T2	Metribuzine @ 0.25 Kg a.i. ha ⁻¹ (PRE).
T3	Alachlor @ 0.50 kg a.i. ha ⁻¹ + Atrazine @1.0 Kg a.i. ha ⁻¹ (PRE).
T4	Glyphosate @ 1.00 Kg a.i. ha ⁻¹ pre plant followed by (fb) Atrazine @ 375 g a.i. ha ⁻¹ + Alachlor @ 0.50 Kg a.i. ha ⁻¹ (PRE).
T5	Glyphosate @ 1.00 Kg a.i. ha ⁻¹ pre plant fb 2,4-D @ 2.00 Kg a.i. ha ⁻¹ (POST).
T6	Glyphosate @ 1.00 Kg a.i. ha ⁻¹ pre plant + Castor oil @ 4.00 l ha ⁻¹ .
T7	Atrazine @ 1.25 Kg a.i. ha ⁻¹ (PRE) fb Atrazine @ 1.50 Kg a.i. ha ⁻¹ (PRE) to weeds.
T8	Atrazine @ 1.00 Kg a.i. ha ⁻¹ (PRE) Fb 2, 4-D @ 2.00 Kg a.i. ha ⁻¹ (POST).
T9	Alachlor @ 1.00 Kg a.i. ha ⁻¹ (PRE) fb Oxyfluorfen @ 0.20 kg a.i. ha ⁻¹ (POST) directed spray.
T10	Atrazine @ 1.50 Kg a.i. ha ⁻¹ (PRE)
T11	Oxyfluorfen @ 0.15 kg a.i. ha ⁻¹ (PRE).
T12	Maize + Cover crop (cowpea).
T13	Maize + Cover crop (moong bean).
T14	Weed free check.

weed count data on next page

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WEED COUNT PER SQMETER at harvest

Treatment	Dry weight of weed/m ²	Seed Index	DINEBRA RETROFL EXA	PARTHENI UM	ALTERNEN THERA SESSILIS	CYPERUS	MOLLUGO sp	EUPHO RBIA HIRTA	ECHINOC HLOA	ACALYPH A INDICA
T ₁	24.3	28.7	8.0	14.7	0.0	6.7	0.3	0.7	0.0	0.0
T ₂	25.0	31.7	7.7	23.3	0.0	10.7	1.0	1.7	0.0	1.3
T ₃	25.0	30.7	5.0	17.3	1.0	6.0	0.7	1.0	0.0	0.0
T ₄	38.0	28.3	6.3	11.0	0.0	4.0	4.3	3.3	2.7	0.0
T ₅	41.0	29.9	1.3	13.0	0.0	1.3	1.0	1.7	2.3	2.3
T ₆	51.0	26.7	3.7	13.3	0.0	6.3	1.0	1.0	0.7	1.0
T ₇	19.0	25.5	5.3	23.0	0.0	3.0	1.0	0.0	0.0	2.3
T ₈	37.0	27.9	9.3	11.3	0.0	4.7	0.7	1.0	0.0	0.0
T ₉	28.3	29.5	0.0	17.0	2.0	1.0	0.0	0.0	0.3	2.0
T ₁₀	25.3	24.1	6.7	11.3	0.0	7.0	0.7	3.0	0.7	2.7
T ₁₁	23.3	25.3	4.3	8.7	1.0	3.7	0.3	1.3	0.7	1.7
T ₁₂	34.7	29.5	4.7	5.3	0.0	4.7	1.7	0.7	2.0	1.3
T ₁₃	36.7	27.4	2.0	6.7	9.0	5.0	1.0	2.0	0.0	0.0
T ₁₄	0.0	30.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
T ₁₅	55.7	27.1	8.3	10.7	0.0	2.7	0.0	0.0	14.7	0.0

Mean	31.0	28.2	4.8	12.4	0.9	4.4	0.9	1.2	1.6	1.0
CD	5.0	3.6	7.4	12.0	5.4	11.2	2.2	2.7	8.7	2.6
CV (%)	9.7	7.6	91.5	57.6	370.7	150.3	144.2	137.2	323.4	157.6
Significance	S	S	N.S.	S	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Table 53: Integrated Weed management in maize based cropping system at Banswara.

Treatment	Grain Yield (kg/ha)
T ₁ : Atrazine 1.0 kg a.i./ha pre-em (1-2 DAS).	3256
T ₂ : Metribuzin 0.25 kg a.i. /ha pre-em	3431
T ₃ : Ethoxy Sulfuron 15 g a.i. /ha pre-em	2249
T ₄ : Glyphosate 1.0 kg a.i. /ha pre plant fb Atrazine 375g a.i /ha pre-em	3673
T ₅ : Glyphosate 1.0 kg a.i. /ha +2, 4-DEE 0.1 kg a.i. /ha pre plant	3640
T ₆ : Glyphosate 1.0 kg a.i. /ha + Caster oil 4.0 lit /ha pre plant	3333
T ₇ : Atrazine 0.5 kg/ha fb 2, 4-DEE 0.4 kg a.i. /ha post-em at 25 DAS	3947
T ₈ : Atrazine 0.5 kg a.i./ha fb Ethoxy Sulfuron 10 g a.i./ha post em at 25 DAS	2176
T ₉ : Atrazine 0.5 kg/ha fb Metribuzin 0.25 kg a.i./ha post em at 25 DAS	3884
T ₁₀ : Maize +cover crop (cow pea)	4104
T ₁₁ : Weedy check.	1869
T ₁₂ : Weed free.	4258

Mean 3318.3

CD 457.0

CV (%) 8.1

Significance S

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Table 54: Integrated Nutrient Management in Maize-Sarson (Brassica) cropping system at Kangra.

Main Plot (N levels)	Sub Plot (Genotypes)	Grain Yield (kg/ha)	Cob Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Ear Height (cm)	Ear length (cm)	Lodged plants/plot
F ₁	G ₁	3552	5411	48.5	40.1	250.0	109.3	25.1	2.7
	G ₂	3283	4987	47.5	34.7	242.3	107.0	24.4	7.1
	G ₃	3643	5549	55.9	41.8	251.0	116.7	23.7	9.1
	G ₄	3370	5135	58.9	41.4	239.7	112.3	24.7	7.1
	G ₅	3091	4704	46.1	30.3	250.7	111.7	23.7	10.4
	G ₆	3519	5357	51.9	38.0	241.3	109.3	24.5	6.4
F ₂	G ₁	3343	5101	48.5	37.4	252.3	110.7	23.0	5.4
	G ₂	3505	5333	51.2	38.4	249.7	113.0	22.0	7.7
	G ₃	3535	5374	54.2	35.7	247.0	111.0	22.7	4.0
	G ₄	3727	5680	52.5	41.1	255.0	116.7	21.7	2.0
	G ₅	3556	5424	55.9	44.8	258.3	121.0	22.9	4.4
	G ₆	3549	5397	48.1	37.7	246.3	110.0	23.1	5.7
F ₃	G ₁	2852	4343	57.9	38.4	237.7	96.7	21.0	3.0
	G ₂	2646	4027	56.9	43.1	239.7	98.7	21.5	2.7
	G ₃	2744	4175	55.9	41.8	242.7	108.7	21.2	2.7
	G ₄	2653	4037	58.2	43.8	244.7	103.7	19.9	3.7
	G ₅	2788	4239	57.6	41.8	242.0	104.0	22.5	1.7
	G ₆	2539	3865	62.0	40.7	247.7	105.3	21.1	2.4

Location mean	3216.4	4896.6	53.8	39.5	246.6	109.2	22.7	4.9
C.D.(5%) AiBj-AiBk	318.8	485.5	8.7	8.3	15.1	14.9	2.1	5.9
C.D.(5%) AiBk-AjBk	364.3	564.4	8.7	7.9	15.2	15.7	3.2	6.1
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F ₁	3410	5190	51.5	37.7	245.8	111.1	24.4	7.1
F ₂	3536	5385	51.7	39.2	251.4	113.7	22.6	4.9
F ₃	2704	4114	58.1	41.6	242.4	102.8	21.2	2.7

C.D.(5%) Ai-Aj	225.2	358.9	3.6	2.0	6.6	8.1	2.6	3.0
C.V.(%) Error A	7.6	7.9	7.1	5.4	2.9	8.0	12.6	65.8
F(5%)	s	s	s	s	s	s	n.s.	s

G ₁	3249	4952	51.6	38.6	246.7	105.6	23.0	3.7
G ₂	3145	4782	51.9	38.7	243.9	106.2	22.6	5.8
G ₃	3308	5033	55.3	39.7	246.9	112.1	22.6	5.3
G ₄	3250	4951	56.6	42.1	246.4	110.9	22.1	4.3
G ₅	3145	4789	53.2	38.9	250.3	112.2	23.0	5.5
G ₆	3202	4873	54.0	38.8	245.1	108.2	22.9	4.8

C.D.(5%)Bi-Bj	184.0	280.3	5.0	4.8	8.7	8.6	1.2	3.4
C.V.(%)ErrorB	5.9	5.9	9.7	12.7	3.7	8.2	5.5	72.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatments:

Main Plots- Fertility Management (3)

- F₁ Inorganics (120, 60, 40 kg NPK/ha)
- F₂ Integrated (60, 30, 20 kg NPK + 5t Vermicompost/ha)
- F₃ Organics (10t Vermicompost)

Sub Plot- Genotypes of Sarson (6)

- G₁ Neelam
- G₂ ONK 1
- G₃ KBS 3
- G₄ HPBS
- G₅ RCC 4
- G₆ Jayanti

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Table 55: Nutrient Management maize based cropping system at Udhampur.

Treatment	Grain Yield (kg/ha)	Cob Yield (kg/ha)	Straw Yield (kg/ha)	Plant Height (cm)	No. of Leaves	Stem Girth (cm)
F1S1	1896	2902	9624	8.5	109.6	6.5
F1S2	2097	3087	9238	9.1	107.8	4.8
F1S3	2038	3027	10545	8.7	120.9	6.7
F2S1	3119	4356	12356	9.5	138.6	8.3
F2S2	2671	3771	12083	9.3	135.7	7.7
F2S3	2770	4566	12791	9.3	144.6	9.0
F3S1	2529	3650	10620	9.9	125.1	7.7
F3S2	2302	3513	10352	8.0	116.9	7.2
F3S3	2673	3902	11093	8.4	126.0	7.4

Location mean	2455.1	3641.7	10967.0	9.0	125.0	7.3
C.D.(5%) AiBj-AiBk	361.2	700.1	2223.7	1.4	20.2	0.7
C.D.(5%) AiBk-AjBk	824.7	1268.5	3720.6	1.6	38.0	0.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

F1	2011	3005	9802	9	113	6
F2	2853	4231	12410	9	140	8
F3	2501	3689	10688	9	123	7

C.D.(5%) Ai-Aj	773.6	1140.1	3272.8	1.0	34.5	0.2
C.V.(%) Error A	24.1	23.9	22.8	8.8	21.1	2.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

S1	2515	3636	10867	9	124	8
S2	2357	3457	10558	9	120	7
S3	2494	3832	11476	9	130	8

C.D.(5%)Bi-Bj	208.5	404.2	1283.9	0.8	11.7	0.4
C.V.(%)ErrorB	8.3	10.8	11.4	9.0	9.1	5.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

Treatment details not available

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Table 56: Nutrient management in maize based cropping system through exploring potential bio-fertilizers at Banswara.

Treatment	Grain Yield (kg/ha)
T ₁ : 150-60-60 (N-P ₂ O ₅ -K ₂ O kg/ha)	3806
T ₂ : 150-60-60 (N-P ₂ O ₅ -K ₂ O kg/ha) + Bio-fertilizers (single strain)	4194
T ₃ : 150-60-60 (N-P ₂ O ₅ -K ₂ O kg/ha) + Bio-fertilizers (cocktail of strains)	4378
T ₄ : 200-75-75 (N-P ₂ O ₅ -K ₂ O kg/ha)	4464
T ₅ : 200-75-75 (N-P ₂ O ₅ -K ₂ O kg/ha) + Bio-fertilizers (single strain)	4819
T ₆ : 200-75-75 (N-P ₂ O ₅ -K ₂ O kg/ha) + Bio-fertilizers (cocktail of strains)	5103
T ₇ : 250-90-90 (N-P ₂ O ₅ -K ₂ O kg/ha)	4886
T ₈ : 300-105-105 (N-P ₂ O ₅ -K ₂ O kg/ha)	5186

Mean	4604.5
CD	451.4
CV (%)	5.6
Significance	S

Table 57: Nutrients management in maize based cropping system through exploring potential of bio fertilizer at Chhindwara.

Fertilizer dose N, P and K (Kg/ha)	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% Silking	Plant height (cm)
F1=150:60:60	3289	60.7	46.3	60.3	189.0
F2=150:60:60 Bio one	3933	61.1	48.9	60.0	195.3
F3=150:60:60 Bio Cockta	3978	61.9	50.7	59.0	196.7
F4=200:75:75	4044	61.9	53.7	59.3	197.3
F5=200:75:75 Bio One	4200	62.2	54.8	59.7	198.7
F6=200:75:75 Bio Cockta	4267	63.0	55.6	59.7	200.0
F7=250:90:90	4356	63.0	55.9	59.7	201.3
F8= 300:105:105	4578	64.1	58.5	59.7	201.7

Mean	4080.6	62.2	53.1	59.7	197.5
CD	472.2	4.2	5.4	1.6	10.0
CV (%)	6.6	3.8	5.8	1.6	2.9
Significance	S	N.S.	S	N.S.	N.S.

Treatment Details:

Plant population

67X20 cm plant to plant =75,000/ha plant

67X 25 cm plant to plant =60,000/ha plant

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Table 58: Nutrient management in maize based cropping system through exploring bio-fertilizers at Udaipur.

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)	No. of plant (000/ha)	No. of cobs (000/ha)	Plant height (cm)
T ₁	3233	4915	60.4	60.0	188.3
T ₂	3830	5844	61.6	61.1	192.4
T ₃	4037	6208	63.1	62.4	194.4
T ₄	4147	6289	62.9	62.7	193.9
T ₅	4087	5215	62.7	62.7	194.5
T ₆	4153	6189	62.2	59.3	193.6
T ₇	3830	5654	61.6	57.8	194.5
T ₈	3140	4596	58.2	56.7	193.7

Mean	3807.1	5613.8	61.6	60.3	193.1
CD	678.8	1452.7	6.0	4.8	7.7
CV (%)	10.2	14.8	5.5	4.5	2.3
Significance	S	N.S.	N.S.	N.S.	N.S.

Treatment details:

T ₁	150 + 60 + 60 kg N + P ₂ O ₅ + K ₂ O/ha
T ₂	150 + 60 + 60 kg N + P ₂ O ₅ + K ₂ O/ha + Azotobactor alone
T ₃	150 + 60 + 60 kg N + P ₂ O ₅ + K ₂ O/ha + Azotobactor alone + PSB
T ₄	200 + 75 + 75 kg N + P ₂ O ₅ + K ₂ O/ha
T ₅	200 + 75 + 75 kg N + P ₂ O ₅ + K ₂ O/ha + Azotobactor alone
T ₆	200 + 75 + 75 kg N + P ₂ O ₅ + K ₂ O/ha + Azotobactor alone + PSB
T ₇	250 + 90 + 90 kg N + P ₂ O ₅ + K ₂ O/ha
T ₈	300 + 105 + 105 kg N + P ₂ O ₅ + K ₂ O/ha

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Table 59: Effect of nitrogen levels and scheduling on productivity of quality protein maize with and without sulphur application at Udaipur.

Treatment			Grain yield (kg/ha)	Stover yield (kg/ha)
N Levels	N-Schd.	Sulphur Levels		
N1	Sc-1	Cont	2510	3729
N1	Sc-2	Cont	3023	4586
N1	Sc-3	Cont	3227	4980
N2	Sc-1	Cont	3127	4698
N2	Sc-2	Cont	3630	5521
N2	Sc-3	Cont	3823	5877
N3	Sc-1	Cont	3527	5330
N3	Sc-2	Cont	4133	6264
N3	Sc-3	Cont	4623	7107
N1	Sc-1	40kg	3033	4560
N1	Sc-2	40kg	3417	5138
N1	Sc-3	40kg	3643	5604
N2	Sc-1	40kg	3643	5468
N2	Sc-2	40kg	4140	6267
N2	Sc-3	40kg	4640	7187
N3	Sc-1	40kg	4187	6241
N3	Sc-2	40kg	4637	7040
N3	Sc-3	40kg	5040	6754
Mean of location			3778.0	5686.2
C.D. at 5 %			573.5	1242.6
f			s	n.s.

N1	3223	4899
N2	3729	5667
N3	4381	6493

C.D. at 5 % 234.1 507.3
F s s

Sc-1 x Control	3227	4842
Sc-2 x Control	3766	5706
Sc-3 x Control	4163	6425
Sc-1 x 40 kg	3449	5166
Sc-2 x 40 kg	3894	5900
Sc-3 x 40 kg	4169	6079

C.D. at 5 % 331.1 717.4
C.V. % 9.1 13.2
F s s

Treatment

N levels (kg/ha)

125
150
175

Symbol

N1
N2
N3

Scheduling of nitrogen

1/3 at sowing + 1/3 at knee high stage + 1/3 at 50 tasseling
1/4 at sowing + 1/4 at 4-6 leaf stage + 1/4 knee high stage + 1/4 at 50 % tasseling
10 % Basal + 20% at 4-6 leaf stage + 30 % at knee high stage + 30% at 50% tasseling + 10% at grain filling stage

Sc-1
Sc-2
Sc-3

Sulphur levels (kg/ha)

Control
40 kg/ha

Cont
40 kg

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Table 60: Realizing yield potential of single cross hybrid under irrigated conditions at Bajaura.

Main Plot (Fertilizers)	Sub Plot (Spacing)	Grain yield (Kg/ha)	Plant Stand ('000/ha)	No. of cobs ('000/ha)	Plant height (cm)
F ₁	S ₁	4141	59.4	57.0	161.5
	S ₂	4822	62.7	57.9	169.1
	S ₃	5256	72.5	66.7	171.9
F ₂	S ₁	4741	58.7	57.6	170.1
	S ₂	5339	63.0	59.3	169.4
	S ₃	5431	72.1	65.4	181.5
F ₃	S ₁	5976	59.0	59.0	179.1
	S ₂	6182	65.4	63.5	174.1
	S ₃	6700	72.9	70.6	177.9
F ₄	S ₁	6024	58.3	57.6	174.3
	S ₂	7157	63.9	63.4	176.3
	S ₃	7443	72.6	70.6	180.6

Location mean	5767.8	65.0	62.4	173.8
C.D.(5%) AiBj-AiBk	493.1	2.0	3.7	10.3
C.D.(5%) AiBk-AjBk	497.5	2.7	4.4	10.6
F(5%)	n.s.	n.s.	n.s.	n.s.

F ₁	4740	64.9	60.5	167.5
F ₂	5170	64.6	60.7	173.7
F ₃	6286	65.8	64.4	177.0
F ₄	6875	64.9	63.9	177.0

C.D.(5%) Ai-Aj	294.2	2.1	3.3	6.4
C.V.(%) Error A	442.2	2.8	4.5	3.2
F(5%)	s	n.s.	n.s.	s

S ₁	5221	58.9	57.8	171.2
S ₂	5875	63.7	61.0	172.2
S ₃	6208	72.5	68.3	178.0

C.D.(5%)Bi-Bj	246.5	1.0	1.9	5.2
C.V.(%)ErrorB	4.9	1.8	3.4	3.4
F(5%)	s	s	s	s

Treatments:

Main Plots- Fertility levels (N: P2O5:K2O, kg/ha)

F ₁	State recommendation (120:60:40)
F ₂	180:75:60
F ₃	240:90:80
F ₄	300: 105: 100

Sub Plots- Plant geometry (population/ha)

S ₁	60000 (67 x 25 cm)
S ₂	66000 (67 x 22.5 cm)
S ₃	75000 (67 x 20 cm)

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Table 61: QPM trial at Karnal center.

Main Plot (N levels)	Sub Plot (Genotypes)	Grain Yield (kg/ha)	Plant Stand (000/ha)	Plant height (cm)	Ear height (cm)
0:00:00	HQPM-1	3741	53.1	158.3	81.7
	HQPM-14	3469	52.7	166.7	65.0
	HQPM-2	3299	53.1	161.7	61.7
	HQPM-22	3639	54.8	146.7	63.3
100:40:40	HQPM-1	4048	54.8	160.0	80.0
	HQPM-14	3741	52.0	153.3	68.3
	HQPM-2	3469	53.1	163.3	71.7
	HQPM-22	3946	54.1	171.7	81.7
150:60:60	HQPM-1	4218	53.7	183.3	90.0
	HQPM-14	4116	56.5	168.3	63.3
	HQPM-2	3844	54.1	181.7	75.0
	HQPM-22	4150	54.1	170.0	86.7
200:80:80	HQPM-1	5714	53.7	171.7	91.7
	HQPM-14	6531	56.1	198.3	73.3
	HQPM-2	5986	56.1	188.3	83.3
	HQPM-22	5578	56.1	186.7	100.0

Location mean	4343.1	54.3	170.6	77.3
C.D.(5%) AiBj-AiBk	687.6	4.8	15.0	11.1
C.D.(5%) AiBk-AjBk	680.4	5.8	15.3	10.5
F(5%)	n.s.	n.s.	s	s

0:00:00	3537	53.4	158.3	67.9
100:40:40	3801	53.5	162.1	75.4
150:65:65	4082	54.6	175.8	78.8
200:80:80	5952	55.5	186.3	87.1

C.D.(5%) Ai-Aj	332.5	4.1	8.1	4.2
C.V.(%) Error A	7.7	7.5	4.7	5.5
F(5%)	s	n.s.	s	s

HQPM-1	4430	53.8	168.3	85.8
HQPM-14	4464	54.3	171.7	67.5
HQPM-2	4150	54.1	173.8	72.9
HQPM-22	4328	54.8	168.8	82.9

C.D.(5%)Bi-Bj	343.8	2.4	7.5	5.6
C.V.(%)ErrorB	9.4	5.2	5.2	8.5
F(5%)	n.s.	n.s.	n.s.	s

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Table 62: White maize trial at Karnal.

Main Plot (N levels)	Sub Plot (Genotypes)	Grain Yield (kg/ha)	Plant Stand (000/ha)	Plant height (cm)	Ear height (cm)
0:00:00	HKI-1344 x 1378	3367	54.1	148.3	65.0
	HKI-1348-6-2x 1378	3231	54.4	171.7	70.0
	HKI1344x1354-2	3367	54.8	163.3	75.0
	HM5	3129	54.4	161.7	66.7
100:40:40	HKI-1344 x 1378	3810	54.4	176.7	86.7
	HKI-1348-6-2x 1378	3980	56.5	156.7	81.7
	HKI1344x1354-2	3571	54.8	175.0	90.7
	HM5	3980	54.8	171.7	81.7
150:60:60	HKI-1344 x 1378	4184	53.7	175.0	78.3
	HKI-1348-6-2x 1378	3980	53.7	175.0	83.3
	HKI1344x1354-2	4082	54.1	171.7	90.0
	HM5	4762	54.1	155.0	78.3
200:80:80	HKI-1344 x 1378	5476	54.1	175.0	93.3
	HKI-1348-6-2x 1378	6156	54.4	176.7	95.0
	HKI1344x1354-2	5000	54.8	181.7	93.3
	HM5	5646	55.1	170.0	85.0

Location mean	4232.6	54.5	169.1	82.1
C.D.(5%) AiBj-AiBk	639.1	3.3	9.6	6.6
C.D.(5%) AiBk-AjBk	692.0	3.9	8.9	6.6
F(5%)	n.s.	n.s.	s	n.s.

0:00:00	3274	54.4	161.3	69.2
100:40:40	3835	55.1	170.0	85.2
150:65:65	4252	53.9	169.2	82.5
200:80:80	5570	54.6	175.8	91.7

C.D.(5%) Ai-Aj	419.0	2.7	3.4	3.3
C.V.(%) Error A	9.9	4.9	2.0	4.1
F(5%)	s	n.s.	s	s

HKI-1344 x 1378	4209	54.1	168.8	80.8
HKI-1348-6-2x 1378	4337	54.8	170.0	82.5
HKI1344x1354-2	4005	54.6	172.9	87.3
HM5	4379	54.6	164.6	77.9

C.D.(5%)Bi-Bj	319.6	1.6	4.8	3.3
C.V.(%)ErrorB	9.0	3.6	3.4	4.8
F(5%)	n.s.	n.s.	s	s

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Table 63: Normal x QPM trial at Karnal.

Main Plot (N levels)	Sub Plot (Genotypes)	Grain Yield (kg/ha)	Plant Stand (000/ha)	Plant height (cm)	Ear height (cm)
0:00:00	HKH317	3027	54.4	151.7	60.0
	HKH316	3027	56.8	170.0	61.7
	HKH414	3435	57.1	160.0	71.7
	HM10	2789	55.1	170.0	80.0
100:40:40	HKH317	3844	53.1	159.0	63.3
	HKH316	4048	53.4	171.7	81.7
	HKH414	5000	53.1	170.0	85.0
	HM10	3810	52.0	175.0	96.7
150:60:60	HKH317	4422	53.4	156.7	68.3
	HKH316	4558	54.8	165.0	72.7
	HKH414	4898	52.7	163.3	75.0
	HM10	4184	53.7	173.3	81.7
200:80:80	HKH317	5680	53.1	165.0	76.7
	HKH316	5340	57.8	170.0	76.7
	HKH414	5850	54.1	190.0	95.0
	HM10	5340	51.0	180.0	83.3

Location mean	4328.2	54.1	168.2	76.8
C.D.(5%) AiBj-AiBk	729.7	3.5	9.9	7.9
C.D.(5%) AiBk-AjBk	1021.1	4.9	9.2	8.4
F(5%)	n.s.	n.s.	s	s

0:00:00	3070	55.9	162.9	68.3
100:40:40	4175	52.9	168.9	81.7
150:65:65	4515	53.7	164.6	74.4
200:80:80	5553	54.0	176.3	82.9

C.D.(5%) Ai-Aj	806.6	3.9	3.3	5.0
C.V.(%) Error A	18.7	7.3	2.0	6.6
F(5%)	s	n.s.	s	s

HKH317	4243	53.5	158.1	67.1
HKH316	4243	55.7	169.2	73.2
HKH414	4796	54.3	170.8	81.7
HM10	4031	53.0	174.6	85.4

C.D.(5%)Bi-Bj	364.9	1.8	5.0	3.9
C.V.(%)ErrorB	10.0	3.8	3.5	6.1
F(5%)	s	s	s	s

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Table 64: Developing agrotechniques for seed production of hybrid of HQPM 1 maize at Vagarai.

Main Plot (Population)	Sub Plot (N Levels)	Grain yield (kg/ha)	Cob yield (kg/ha)	Plant stand (000/ha)	Plant height (cm)	Cob length (cm)	No. of grains/row	No. of rows/cob
M ₁	S ₁	2212	3125	64.2	167.7	12.1	28.0	12.3
	S ₂	2736	3756	65.8	176.1	13.1	30.0	12.9
	S ₃	2996	3977	68.5	187.4	13.3	31.3	13.6
	S ₄	2715	3696	68.3	185.5	14.3	30.7	12.6
M ₂	S ₁	2256	3129	55.8	169.0	12.8	28.7	12.4
	S ₂	3074	3996	55.6	173.5	14.2	32.0	14.4
	S ₃	2937	3865	57.1	174.4	14.1	31.3	13.6
	S ₄	2811	3815	56.9	177.8	13.5	29.0	12.5

Location mean	2717.1	3669.8	61.5	176.4	13.4	30.1	13.0
C.D.(5%) AiBj-AiBk	156.8	220.7	2.7	11.3	2.2	5.9	1.5
C.D.(5%) AiBk-AjBk	243.3	254.2	5.4	16.8	3.2	5.8	1.6
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

M ₁	2664	3639	66.7	179.2	13.2	30.0	12.8
M ₂	2770	3701	56.4	173.7	13.7	30.3	13.2

C.D.(5%) Ai-Aj	218.5	186.9	5.2	14.8	2.8	3.1	1.1
C.V.(%) Error A	4.6	2.9	4.8	4.8	12.0	5.9	4.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.	n.s.

S ₁	2234	3127	60.0	168.3	12.5	28.3	12.3
S ₂	2905	3876	60.7	174.8	13.7	31.0	13.7
S ₃	2966	3921	62.8	180.9	13.7	31.3	13.6
S ₄	2763	3755	62.6	181.6	13.9	29.8	12.6

C.D.(5%)Bi-Bj	110.8	156.0	1.9	8.0	1.6	4.2	1.0
C.V.(%)ErrorB	3.2	3.4	2.5	3.6	9.2	11.0	6.4
F(5%)	s	s	s	s	n.s.	n.s.	s

Treatment details:

A. Main plots - Plant population

M1: 67 x 20 cm spacing (75000 plants/ha)

M2: 67 x 25 cm spacing (60000 plants/ha)

B. Subplots - Fertility levels

S1: 200-75-75 kg NPK/ha

S2: FYM (15t/ha) + 200-75-75 kg NPK/ha

S3: FYM (15t/ha) + 250-90-90 kg NPK/ha

S4: FYM (15t/ha) + 300-105-105 kg NPK/ha

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Table 65: Developing agrotechniques for seed production of inbred of HQPM 1 maize at Vagarai.

Main Plot (plant geometry)	Sub Plot (N Levels)	Cob yield (kg/ha)	Seed yield (kg/ha)	Plant height (cm) male	Plant height (cm) female
2:1	S1	1358	1014	171.3	99.0
	S2	1585	1180	171.3	107.7
	S3	1599	1189	172.0	109.0
3:1	S1	1555	1231	147.0	92.7
	S2	1755	1289	163.3	102.0
	S3	1802	1333	152.3	105.3
4:2	S1	1694	1300	146.0	100.7
	S2	1900	1460	155.3	95.0
	S3	1955	1503	153.3	102.7

Location mean	1689.3	1277.8	159.1	101.6
C.D.(5%) AiBj-AiBk	205.6	143.0	16.1	11.7
C.D.(5%) AiBk-AjBk	224.0	167.0	20.9	11.6
F(5%)	n.s.	n.s.	n.s.	n.s.

2:1	1514	1128	171.6	105.2
3:1	1704	1285	154.2	100.0
4:2	1850	1421	151.6	99.4

C.D.(5%) Ai-Aj	150.7	121.0	16.5	6.8
C.V.(%) Error A	6.8	7.2	7.9	5.1
F(5%)	s	s	n.s.	n.s.

S ₁	1536	1182	154.8	97.4
S ₂	1747	1310	163.3	101.6
S ₃	1785	1342	159.2	105.7

C.D.(5%)Bi-Bj	118.7	82.6	9.3	6.8
C.V.(%)ErrorB	6.8	6.3	5.7	6.5
F(5%)	s	s	n.s.	n.s.

Treatment details:

A. Main plots - Plant geometry

1. Row ratio - 2:1 with 67 x 20 cm spacing
2. Row ratio - 3:1 with 67 x 20 cm spacing
3. Row ratio - 4:2 with 67 x 20 cm spacing

B. Subplots - Fertility levels

- S1: 200-75-75 kg NPK/ha
 S2: FYM (10t/ha) + 200-75-75 kg NPK/ha
 S3: FYM (10t/ha) + 250-90-90 kg NPK/ha

**** Inbreds of HQPM 1:** Female - HKI - 193 - 1, Male - HKI - 163

ENTOMOLOGY

2010



A NEWLY DEVELOPED COLLAPSIBLE INSECT REARING CAGE

**DIRECTORATE OF MAIZE RESEARCH
NEW DELHI-110012**

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Executive Summary:

Eighty-eight germplasm of different maturity period were evaluated for resistance against *Chilo partellus* under artificial infestation condition. Some of the less susceptible germplasm are: Full Season Maturity: Bisco-74, PRO 378, NMH-731, NMH-920, KH-404, CMH08-156, DMRNSCH 2, KMH-548, JH-12114(2R), Amar 6669 & KF-105(AET 1st Yr.), BIO 9681(AET 2nd Yr.) Medium Maturity: X8B691, KMH-218Plus, KMH-3426, KDMH 017, JK 31285 (1R), NMH-803, Mukhya-108 & Sarpunch-171, KMH-3426 & HKH-313(AET 1st Yr.), BL2802, EH-1858, JH31242, KH-9452, VMH-4060 (AET 2nd Yr.) Early Maturity: BIO-605, FH 3506, REH 2003(AET 1st Yr.) Extra Early Maturity: FH3483, DH-179 & Vivek QPM 9 (AET 1st Yr.) QPM: HQPM 1, HQPM 5, HQPM-7 & HQPM-14. Two hundred inbred lines were also evaluated in which 31 were least susceptible; 168 moderately susceptible and one susceptible.

Habitat manipulation has been found to be one of the very potential pest management tactics in maize ecosystem. Based on percent plant of infestation, leaf injury rating and yield, maize intercropped with cowpea in the ratio of 2:1 row it as par with maize pest control by treatment with endosulfan at Kolhapur and Ludhiana. However in intercrop there is additional gain of cowpea produce and N₂ fixation for next crop. Also in Hyderabad, Srinagar and Udaipur maize intercropped with cowpea in the ratio of 2:1 was on par with treatment with endosulfan.

Correlations between infestation load and leaf injury rating: leaf injury rating and yield loss were worked out at Ludhiana and Udaipur. When the infestation dose of 4, 8, 12, 16, 20, 24, 28, 32 eggs/plant were given, a consistent increase in the leaf injury rating was noticed. On correlating the leaf injury rating with yield, a significant reduction in yield was observed at each unit increase of LIR. A linear correlation between damage symptom and yield loss was also observed in HQPM and basi local at New Delhi. The yield declined drastically in African tall and no yield could be obtained when LIR was more than 8.

Table 1: Summary of germplasm evaluation against *Chilo partellus* in each maturity group at different Coordinating Centres

Level of susceptibility	Extra –early maturity		Early maturity		Medium maturity		Full season maturity		QPM 2-3
	1 st year	2 nd year	1 st year	2 nd year	1 st year	2 nd year	1 st year	2 nd year	
	Total Entry								
Udaipur									
Least susceptible	-	-	1	-	4	-	7	-	3
Moderately susceptible	8	-	4	3	1	3	5	2	-
Highly susceptible	-	-	3	1	8	8	19	6	2
Ludhiana									
Least susceptible	-	-	-	-	1	-	1	-	-
Moderately susceptible	8	-	8	4	12	10	25	6	4
Highly susceptible	-	-	-	-	-	1	5	2	-
Hyderabad									
Least susceptible	3	-	1	0	6	5	6	1	3
Moderately susceptible	5	-	7	3	7	6	21	7	2
Highly susceptible	-	-	-	-	-	-	4	-	-
Karnal									
Least susceptible	5	-	7	3	5	4	9	2	5
Moderately susceptible	3	-	1	1	8	7	22	6	-
Highly susceptible	-	-	-	-	-	-	-	-	-
Dholi									
Least susceptible	4	-	4	2	10	10	27	8	4
Moderately susceptible	4	-	4	2	3	1	4	-	1
Highly susceptible	-	-	-	-	-	-	-	-	-
Kolhapur									
Least susceptible	-	-	1	-	2	-	2	-	-

Moderately susceptible	6	-	5	3	6	6	9	5	2
Highly susceptible	2	-	2	1	5	3	20	3	1

Table: 2. Germplasm found least susceptible against *Chilo partellus* in each maturity group at different Coordinating Centres

Extra-early maturity	Early Maturity	Medium maturity		Full season maturity		QPM 2-3
		1 st year	2 nd year	1 st year	2 nd year	
Udaipur						
-	BIO-605	X8B69 1,KM H- 218Plu s,KMH -3426 & HKH- 313	-	Bisco- 74,PRO 378,NM H- 731,NM H- 920,KH -404, CMH08 - 156,JH- 12114(2 R)	-	HQP M 1,HQ PM 5 & HQP M-14
Ludhiana						
		NMH-803	-	-	-	-
Hyderabad						
FH3483 ,DH- 179 & Vivek QPM 9	FH 3506	KDM H 017,K MH- 218 Plus,J K 31285 (1R), NMH- 803, Mukhya-108	BL2802, EH- 1858, JH31242 ,KH- 9452, VMH 4060	DMRN SCH 2,KMH- 548,PR O 378,JH- 12114(2 R), Amar 6669 & KF-105	BIO 968 1	HQP M 5,HQ PM 7 & HQP M-14

		& Sarpun ch-171				
		Kolhapur				
-	REH 2003	KMH- 3426 & HKH- 313	-	KMH- 548 & Amar 6669	-	-

Table 3: Screening of maize germplasm (Trial No. 75, Full Season Maturity) to *Chilo partellus* during Kharif, 2010

Ent . No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Dholi	Kolhapur	Mean
AET 1st YEAR									
1	DMRNSCH2	5.41	9.0	2.73	2.33	3.00	1.8	7.00	5.29
2	Bisco-74	3.08	2.9	7.33	6.13	3.95	2.0	6.75	5.32
3	X8B562	3.17	9.0	3.17	3.67	2.85	1.8	5.90	4.98
4	KMH-3670	3.95	9.0	4.10	3.45	2.90	2.0	6.22	5.34
5	KMH-548	6.45	4.6	3.88	2.66	3.80	2.4	2.57	4.03
6	JKMH 7005	3.75	4.4	3.19	4.0	3.00	2.2	6.17	4.30
7	JKMH 8033	4.56	9.0	5.50	4.5	3.70	1.6	7.53	6.21
8	PRO 378	4.06	2.5	4.20	2.9	3.50	2.2	5.33	3.79
9	NK 6246	4.09	6.5	4.65	3.44	4.30	1.6	6.30	4.99
10	NK6267/NH6267	5.60	4.6	5.01	4.56	2.75	2.4	6.50	5.25
11	NMH-731	4.63	2.5	4.66	5.0	3.25	2.3	4.90	4.33
12	NMH-958	4.16	6.6	4.00	3.9	3.45	2.6	5.42	4.81
13	NMH-920	2.81	2.8	3.09	5.33	3.85	2.4	7.33	4.27
14	IDX 2901	3.63	9.0	4.87	3.38	3.35	2.6	5.83	5.34
15	C1945	3.16	4.8	5.00	3.22	3.10	2.4	8.25	4.88
16	KH-404	3.89	3.0	4.88	4.1	3.45	2.3	5.33	4.24
17	MAIZE POLO	2.32	9.0	7.34	5.6	4.00	2.0	4.82	5.81
18	BMH-107	5.28	6.6	6.42	4.56	3.35	2.8	6.23	5.81
19	BMH-109	6.01	5.3	4.95	5.11	3.35	2.8	6.90	5.65
20	CMH 08-156	2.86	3.0	4.92	3.55	3.95	2.4	6.33	4.13
21	CMH08-154	5.31	9.0	8.12	4.9	2.75	2.8	6.92	6.85
22	CMH 08-282	4.60	7.2	4.75	6.13	2.50	2.4	5.47	5.63
23	Laxmi Gold	4.37	9.0	4.67	3.43	4.60	2.4	7.67	5.82
	JH-				3.18				5.55
24	116629(1R)2009	3.14	6.6	6.85		4.05	2.0	8.00	
25	JH-12114(2R)	4.09	3.0	4.92	2.44	5.00	3.4	8.42	4.57
	JH-				6.63				6.37
26	11858(2R)2009	4.06	9.0	5.80		2.85	3.2	6.37	
27	BIO-265	3.83	9.0	5.63	3.9	3.35	2.6	5.92	5.65
28	OM 7878	3.52	6.6	5.66	7.11	4.15	2.8	6.50	5.87
29	Amar 6669	2.03	9.0	5.91	3.0	3.10	3.2	2.72	4.53
30	KF-105	3.88	9.0	3.68	2.38	2.60	3.2	7.50	5.28
31	MCH 40	3.20	9.0	4.68	3.3	3.50	2.8	7.00	5.43
AET 2nd YEAR									

32	MCH 38	4.94	3.3	6.01	4.36	2.75	2.4	4.26	4.57
33	PAC745	2.78	9.0	3.72	3.13	3.45	2.0	7.23	5.17
34	PFMH-9737	3.30	6.2	5.61	4.6	3.65	2.4	7.00	5.34
35	PHS-520247	4.65	8.4	4.53	5.56	3.55	2.8	6.08	5.84
36	X7B401	4.42	4.3	3.42	4.18	4.25	2.4	4.32	4.12
37	Seedtec 2324	4.07	9.0	5.00	3.33	4.65	2.0	4.08	5.09
38	BIO 9681	5.10	6.3	7.43	2.88	2.60	2.2	4.83	5.30
39	Prakash	3.01	9.0	3.99	3.1	3.25	2.2	5.18	4.85

Mean leaf injury rating on 1-9 scale

Table 4: Screening of maize germplasm (Trial No. 76, Medium Maturity) to *Chilo partellus* during Kharif, 2010.

Ent No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Dholi	Kolhapur	Mean
AET 1st YEAR									
1	KDMH 017	3.22	9.0	4.31	3.0	3.60	1.8	4.50	4.80
2	X8B557	4.32	7.4	3.52	4.5	2.65	2.4	6.45	5.23
3	X8B691	3.38	2.5	3.72	4.4	2.50	2.6	6.97	4.19
4	KMH-218 Plus	3.06	3.0	3.61	2.14	4.20	2.6	5.70	3.50
5	KMH-3426	2.55	3.0	3.60	5.55	2.35	3.0	1.95	3.37
6	JH 31292	3.91	6.5	3.36	3.83	4.70	2.8	5.75	4.67
7	JH 31285 (1R)	4.04	6.0	3.75	2.57	3.75	2.8	5.35	4.34
8	NMH-803	4.28	9.0	2.90	3.0	3.05	2.6	6.15	5.06
9	Mukhya-108	3.27	6.6	4.68	2.82	3.20	3.2	3.45	4.16
10	Sarpunch-171	5.50	6.7	3.41	3.0	2.70	3.2	6.75	5.07
11	HKH-313	2.75	2.9	5.17	3.5	2.80	3.2	0.00	2.86
12	VEH-09-2	4.90	9.0	5.0	4.57	3.65	2.0	4.25	5.54
13	MCH 42	3.81	7.3	4.0	3.71	3.80	2.2	6.35	5.03
AET 2nd YEAR									
14	BL 2802	2.90	6.3	4.56	2.0	4.15	2.8	5.10	4.17
15	EC-3160	2.54	7.7	3.91	3.1	2.75	2.6	7.15	4.88
16	EH-1858	4.66	7.1	6.11	2.44	3.75	2.4	5.48	5.15
17	JH 31242	2.83	7.3	4.23	3.0	2.90	3.0	7.00	4.87
18	KH-717	4.60	6.4	4.54	5.13	3.55	2.6	4.28	4.99
19	KH-9452	3.06	6.3	3.31	2.86	3.90	2.4	4.07	3.92
20	KMH-3712	4.04	9.0	3.26	4.17	3.50	2.4	5.07	5.10
21	MCH 37	5.48	5.5	4.11	4.13	3.60	3.6	6.95	5.23
22	VMH 4060	4.83	9.0	3.38	2.6	3.15	3.0	5.72	5.10
23	HM 8	4.00	6.0	5.00	6.0	1.20	2.6	No germination	4.2
24	HM 9	2.16	4.4	3.39	3.28	2.45	2.2	No germination	2.64

Mean leaf injury rating on 1-9 scale

Table 5: Screening of maize germplasm (Trial No. 77, EarlyMaturity) to *Chilo partellus* during Kharif, 2010.

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Dholi	Kolhapur	Mean
AET 1st YEAR									
1	FH 3506	2.84	4.2	5.38	2.77	1.60	2.6	4.65	3.96
2	JK 31236(2R)	2.91	9.0	4.46	3.33	2.20	2.5	4.50	4.84
3	85-08-11(2009)	4.16	7.3	4.75	4.64	2.10	2.6	4.85	5.14
4	KH-9560	3.55	4.7	3.81	3.7	3.85	3.6	6.70	4.49
5	BIO-605	2.42	3.0	3.04	4.57	2.20	4.0	5.75	3.75
6	REH 2001	4.52	9.0	4.58	3.67	1.90	3.4	6.15	5.58
7	REH 2002	3.72	4.4	5.57	3.55	1.95	3.4	5.35	4.51
8	REH 2003	2.56	5.9	3.65	4.44	2.10	2.6	2.35	3.78
AET2nd YEAR									
9	R 2006-1	4.05	4.5	4.35	3.33	1.75	3.0	5.35	4.31
10	R 2007-1	3.01	6.5	5.13	0.00	2.20	3.8	6.35	4.19
11	Prakash	2.80	5.0	4.69	5.17	3.05	4.6	5.75	4.68
12	JH-3459	3.22	4.1	3.86	4.75	2.00	2.6	5.35	4.25

Mean leaf injury rating on 1-9 Scale

Table 6: Screening of maize germplasm (Trial No. 78, Extra Early Maturity) to *Chilo partellus* during Kharif, 2010

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Dholi	Kolhapur	Mean
AET 1st YEAR									
1	FH 3478	2.91	3.9	4.75	3.1	2.60	2.6	4.85	3.90
2	FH 3483	4.23	6.0	3.68	3.0	4.60	2.6	4.25	4.23
3	FH 3487	4.19	5.7	3.42	3.38	3.50	3.2	5.05	4.34
4	FH 3488	3.37	5.5	4.03	4.29	3.90	2.8	7.20	4.87
5	DH-179	3.87	4.9	5.01	2.88	2.10	3.6	5.10	4.35
6	DH-177	4.58	3.9	4.09	4.33	2.95	3.6	6.65	4.71
7	Vivek QPM ₉	4.13	4.5	3.64	2.57	2.80	2.4	4.30	3.82
8	Vivek Hybrid ₉	4.41	4.1	3.68	4.11	2.15	3.4	5.90	4.44

Mean leaf injury rating on 1-9 Scale

Table 7: Screening of Quality Protein Maize germplasm (Trial QPM-2-3) to *Chilo partellus* during Kharif, 2010

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Dholi	Kolhapur	Mean
2nd Year trial									
1	JHQPM-250(1R)2009	3.72	9.0	4.29	3.63	1.25	2.4	6.05	5.33
2	HQPM 1	3.50	2.9	4.38	4.75	2.70	2.8	5.30	4.16

3	HQPM 5	4.0 0	3.0	No germina tion	2.0	1.25	2.8	No germinat ion	3.00
4	HQPM 7	4.6 5	6.5	5.71	3.0	1.60	2.4	No germinat ion	4.16
5	HQPM-14	4.1 4	2.8	3.56	2.0	1.65	3.4	5.75	3.65

Mean leaf injury rating on 1-9 Scale

Germplasm of different maturity periods showing resistance against *C. partellus* are:

Full Season Maturity: Bisco-74, PRO 378, NMH-731, NMH-920, KH-404, CMH08-156, DMRNSCH 2, KMH-548, JH-12114(2R), Amar 6669 & KF-105(AET 1st Yr.), BIO 9681(AET 2nd Yr.).

Medium Maturity: X8B691, KMH-218Plus, KMH-3426, KDMH 017, JK 31285 (1R), NMH-803, Mukhya-108 & Sarpunch-171, KMH-3426 & HKH-313(AET 1st Yr.), BL2802, EH-1858, JH31242, KH-9452, VMH-4060 (AET 2nd Yr.)

Early Maturity: BIO-605, FH 3506, REH 2003(AET 1st Yr.)

Extra Early Maturity: FH3483, DH-179 & Vivek QPM 9 (AET 1st Yr.)

QPM: HQPM 1, HQPM 5, HQPM-7 & HQPM-14

Two hundred inbred lines were screened under artificial infestation condition at five centres.

Table: 8. Inbred lines screened against stem borer, *Chilo partellus*

	Pedigree	AVG. MEAN				Karnal*
		Delhi*	Hyderab ad	Ludhiana	Udaipur	
1.	HSSW(HS)C1f3(SH2SH2)	2.81	3.0	3.25	6.0	3.2
2.	Insec 2 (K4)	3.33	2.83	3.00	8.5	1.2
3.	Insec 2 (K4)' Insec (K4)	4.75	5.5	3.71	7.5	2.4
4.	Mas madu (sh2sh2)	5.08	6.5	3.00	6.0	5.7
5.	NSS2W9301A(sh2sh2)	3.91	3.0	3.33	6.75	4.8
6.	Sweet corn 'Insec 1(K4)	1.50	-	6.71	4.0	1.2
7.	Win Sweet corn	3.00	6.43	6.57	6.25	2.8
8.	951-7	2.25	3.0	6.14	7.5	3
9.	WINPOP-16	4.91	3.6	6.57	6.5	1.3
10	CUBA- 377	5.50	3.0	7.67	6.0	5.4
11	CUBA-380	2.5	4.0	8.40	6.25	2.7
12	NC- 392	2.77	3.0	6.75	3.9	1.2
13	DMSC-1	3.00	Not germinated	6.22	4.6	Not germinated
14	DMSC-3	2.44	2.0	5.86	3.5	2
15	DMSC-6	3.67	2.25	7.60	3.0	1.2
16	DMSC-8	Seed Not avail	5.0	6.67	5.5	3
17	DMSC 16-1	Seed Not avail	7.0	6.57	5.0	2.4
18	DMSC 16-2	Seed Not avail	2.0	5.43	6.5	6
19	DMSC 20	Seed Not avail	3.0	4.00	4.3	Not germinated

20	DMSC 28	Seed Not avail	2.5	5.00	6.5	2
21	DMSC 36	2.67	3.0	5.88	4.0	3.4
22	DMSC-37-3	3.75	4.67	6.00	7.5	1.2
23	Gen-1858	1.00	-	6.71	4.3	Not germinated
24	Sc Male	3.00	-	6.17	6.9	1.2
25	HKI PC 4B	5.3	2.25	5.17	5.9	1.2
26	HKI-PC-4B-1	5.00	3.13	5.14	3.5	1.3
27	HKI-PC-5-1	4.08	2.8	5.57	7.0	1.2
28	HKI-PC-5-2	4.33	2.3	2.38	6.5	2.5
29	HKI-PC-7	3.63	2.0	6.17	6.5	1.3
30	HKI PC 8	4.5	2.0	6.57	4.3	1.3
31	HKI-PC-8-2	1.8	-	4.00	5.5	3.2
32	HKI-PC-8-2-1	3.3	6.0	3.78	7.5	1.2
33	WINPOP-1	5.6	2.17	6.17	7.8	1.3
34	WINPOP-2	3.46	2.67	6.57	6.5	2.3
35	WINPOP-3	3.77	4.33	3.33	6.5	5.6
36	WINPOP-4	5.63	2.5	5.88	6.5	1.2
37	WINPOP-21	5.50	2.17	2.13	7.5	1.2
38	WINPOP-21	4.16	3.4	7.33	9.0	6.4
39	WINPOP-43-1	4.0	2.0	6.14	9.0	3
40	WINPOP-43-2	3.5	-	3.25	7.5	3
41	HKI-2-6-2-4(1-2)-4	4.81	6.0	6.57	6.5	1.3
42	HKI 226	6.5	2.0	6.33	7.0	1.3
43	HKI586-1 WG' 33	1.4	2.5	6.57	9.0	1.2
44	HKI-1040-5	4.0	3.2	7.29	9.0	1.2
45	HKI-1040-11-7	5.2	3.6	7.63	4.2	3
46	HKI-1040C2	3.36	2.2	7.00	9.0	5.5
47	HKI-1094-WG	2.33	6.17	3.44	7.0	1.2
48	CML-451 (P2)	3.41	2.0	3.75	5.5	4.8
49	DTPYC9-F46-3-1	4.9	7.33	5.43	9.0	1.2
50	ESM-11-3	2.7	2.0	6.17	4.0	1.2
51	PFSR/51016-1	3.09	2.25	7.71	7.5	3
52	Gen 6033	1.0	5.75	4.88	8.5	2.4
53	Hyd05R/2-1	1.63	2.0	4.88	9.0	2.8
54	Hyd05R/13-2	1.00	2.5	5.25	9.0	3.3
55	Hyd05R/204-1	2.90	2.0	3.89	9.0	1.2
56	LM5	3.54	2.0	2.56	9.0	3
57	LM6	3.81	2.67	3.38	9.0	3.8
58	LM11	1.6	3.25	3.50	9.0	3.6
59	LM12	5.23	2.0	3.25	5.5	1.2
60	LM15	3.60	2.0	4.67	7.0	4.8
61	LM15	3.60	4.0	5.00	9.0	1.2
62	LM16	1.62	2.33	3.33	5.0	2
63	V 335	4.46	2.33	4.14	7.0	1.2
64	V 341-1	2.00	4.6	5.14	7.3	1.2
65	V 341-2	4.91	2.0	5.43	3.0	2.3
66	V 351-1	4.50	2.6	5.29	4.0	5.4
67	V 351-2	2.33	5.67	6.00	4.2	5.2
68	CM105	1.80	3.0	6.43	2.0	3.6
69	CM114	3.25	3.0	7.17	9.0	1.2

70	CM121	2.58	4.33	6.13	2.5	1.2
71	CM123	4.00	2.0	6.14	9.0	1.3
72	CM124	5.27	4.0	6.63	9.0	2.2
73	CM128	2.41	2.5	3.57	8.0	1.2
74	CM129	3.53	3.4	3.78	4.0	2.8
75	CM132	2.00	3.5	3.90	7.5	1.2
76	CM133	3.90	2.0	3.17	9.0	1.2
77	CM139	3.67	2.67	2.86	3.3	1.2
78	CM144	1.00	2.0	5.38	3.5	1.2
79	CM149	2.77	2.67	3.50	5.0	4.4
80	CM500	2.63	2.0	4.56	2.5	4
81	CM501	1.08	2.0	4.50	4.0	3
82	CM502	1.41	2.0	3.43	9.0	1.2
83	HKIC 78	3.40	2.0	2.71	6.5	1.2
84	HKI 141-1	1.63	2.0	5.50	9.0	1.2
85	HKI 141-2	1.00	2.0	2.83	5.6	1.2
86	HKI C 323	1.91	3.0	5.14	3.5	4.5
87	HKI 1352-5-8-9	5.36	2.17	6.11	3.5	2.1
88	Pool 16 BNSEQ.C3F6x38-1	1.53	3.0	6.14	6.5	4.6
89	Ae-40	1.64	2.0	4.00	5.5	2.7
90	CML 141	4.00	-	2.38	5.0	3
91	CML 154	3.93	-	3.43	3.5	2.8
92	CML 269	2.15	2.0	3.25	3.0	3.6
93	CML 384	No germination	2.0	6.50	7.5	4.2
94	CML 395	9.0	-	7.00	9.0	4.4
95	MIRT&PT-3	1.0	-	7.33	6.5	1.2
96	HKI 17-2	1.8	3.0	6.43	7.0	3.4
97	HKI 26-2-4-(1-2)	1.45	2.0	3.00	1.7	1.2
98	HKI 31-2	1.38	-	3.29	7.0	3.2
99	HKI34(1+2)-1	2.33	3.0	5.83	1.7	1.2
100	HKI 164-4-(1-3)-2	1.40	-	3.33	2.0	1.2
101	HKI164-3(2-1)-1	1.62	3.0	5.43	9.0	1.2
102	HKI164-3(2-1)-1-1	6.0	2.2	3.29	5.0	1.2
103	HKI-164-4-(1-3)-2-2	3.0	2.0	4.00	5.7	1.2
104	HKI164-4-(1-3)-2	4.55	2.0	3.88	3.3	1.2
105	HKI164-3(2-1)-1	6.00	2.0	3.33	1.1	1.2
106	HKI164-D-3-3-2	5.75	2.6	3.22	5.5	1.2
107	HKI164-7-7ER2	4.00	2.0	3.25	9.0	2.2
108	HKI 164-7-6x 161	4.63	3.67	3.29	9.0	1.2
109	HKI 164-7-4ER-3	5.37	2.0	3.67	9.0	3.2
110	HKI 164-7-4	3.22	2.0	6.43	9.0	2.2
111	HKI-164-7-4-2	4.16	2.0	3.33	6.4	1.2
112	HKI 164-7-2	3.50	2.5	4.78	4.4	4.6
113	HKI 164-1-4	2.85	4.6	4.75	9.0	3.2
114	HKI 164-4-(1-3)	3.33	2.13	3.88	9.0	1.2
115	HKI-164-7-6X161-2	2.54	2.0	3.67	9.0	3
116	HKI 191-1-2-5	4.10	2.0	3.83	2.5	4.8
117	HKI 193-2-2	6.18	2.0	6.29	4.0	3
118	HKI 193-2-2-1	2.67	2.2	3.83	8.0	2.4
119	HKI-193-2-2-4	2.20	2.0	4.86	6.0	3
120	HKI 193-1	1.27	2.0	4.00	7.7	2.2

12	CML 165	No germinaton	-	5.75	2.0	No germination
12	CML 167	2.77	2.0	6.14	4.5	1.2
12	CML 171	1.00	2.0	3.14	6.5	1.2
12	CML 172	2.08	3.17	6.13	9.0	3.2
12	HKI MBR-139	1.00	3.29	2.38	9.0	1.2
12	HKI-MBR-139-2	3.60	2.0	4.67	9.0	4.8
12	DMR QPM-03-104	1.08	2.17	5.00	7.0	3.8
12	DMRQPM 03-113	2.33	4.0	3.33	3.5	3
12	DMR QPM-03-124	1.16	2.0	4.13	5.3	1.2
13	DMR QPM-58-26	1.76	2.0	3.60	3.0	2.2
13	CML 158	1.00	2.0	3.33	9.0	2.1
13	CML 175	No germination	2.0	4.67	5.6	1.2
13	CL-QRCYQ47	No germination	3.0	2.89	5.5	3.2
13	CLQRCYQ-47-B	2.60	2.5	4.00	6.5	No germination
13	CLQ-RCYQ30	2.84	2.0	4.89	6.5	3.2
13	CLQ-RCYQ36	2.83	2.0	5.56	5.0	2.5
13	CLQ-RCYQ41	No germination	--	4.43	9.0	3
13	CLQ-RCYQ40	1.00	2.0	6.67	9.0	4
13	CML 451Q	1.90	2.0	2.11	2.0	5.8
14	DMRQPM 58	2.07	2.4	4.50	4.8	2.1
14	DMRQPM 58	2.50	3.0	2.50	8.0	4.2
14	HIGH OIL POPULATION OIL II-1	1.00	5.0	4.33	6.8	2.4
14	HIGH OIL POPULATION OIL II-2	1.00	9.0	7.29	6.9	1.2
14	HIGH OIL POPULATION OIL II-3	3.00	2.0	4.00	9.0	2
14	HIGH OIL POPULATION OIL II-4	1.00	2.0	5.00	9.0	2
14	HIGH OIL POPULATION OIL II-5	No germinaton	2.0	4.71	9.0	2.2
14	HKI 3322	No germinaton	2.0	3.63	9.0	4
14	SHD-1 ER6	1.00	2.0	3.71	5.2	2.1
14	DMHOC 4	1.00	4.33	3.00	4.0	2.2
15	Temp.HOC 15	2.07	2.0	4.67	4.6	3
15	02POOL 33 C 24	No germination	--	7.17	4.0	1.2
15	POBLAC 61 C3	2.33	2.0	4.50	5.3	4.9
15	Temp.Trop High oil QPM	4.33	3.4	3.50	5.4	5
15	PFSR-R2	2.14	2.0	6.67	5.5	5.2
15	PFSR-R3	4.60	3.17	4.75	5.6	3.4
15	PFSR-R9	3.40	2.0	5.25	6.0	2.1
15	PFSR-R10	2.88	2.0	4.43	6.3	1.2
15	PFSR-R10	2.25	2.25	5.88	2.9	1.2
15	PFSR-S2	1.75	2.25	3.57	3.3	2
16	PFSR-S3	1.72	3.4	4.67	8.0	3.1
16	PFSR-S3	1.36	2.4	5.83	5.5	4.8
16	SW-930-313-23-PO-49-54-1-3-1-1-2-1-2-1-2-3-1-1-2	1.00	3.33	5.71	9.0	2.3
16	JCY2-1-2-1-1B-1-2-3-1-1	2.36	2.0	3.67	8.0	2.4
16	JCY2-7-1-2-1-B-1-2-1-1	1.00	2.0	4.71	9.0	2.3
16	JCY3-7-1-2-1-B-1-1-4-1	1.00	2.0	3.83	9.0	1.2
16	JCY3-7-1-2-1-B-2-3-2-1-2-3	1.00	2.2	3.83	9.0	2
16	CM 117-3-4-1-2-2-1	1.85	2.43	7.50	6.0	2
16	CML 3	1.57	3.29	2.83	9.0	2
16	CML 321	1.85	2.0	2.86	9.0	3.2
17	CM 117-3-4-1-1-4-1	2.09	2.2	3.44	4.5	2.3

17	CM 117-3-4-1-2-3-1	3.80	2.5	2.89	1.0	1.2
17	CML 311	2.14	2.0	2.83	4.5	3.2
17	CM 117-3-4-1-2-5-1	4.53	2.0	3.17	9.0	2.2
17	CM 117-3-4-1-2-4-1	2.69	3.4	6.00	9.0	1.2
17	42048-2-2-1-1-1-2	3.67	2.75	4.00	9.0	1.4
17	CML 33	1.00	2.0	3.00	7.0	4.6
17	JCY 3-7-1-2-1-B-2-3-2-1-2-1	2.40	--	2.88	8.0	2.2
17	SW-93D-313-23-POP.49-S4-1	1.00	2.6	2.38	9.0	1.2
17	JCY3-7-2-2-1-3-1-1-2-7-1-1-3	4.76	3.75	4.50	2.5	6.4
18	CM 117-3-2-1-1-1-2-1	1.20	2.0	3.14	4.5	2.5
18	JCY3-7-1-2-1-B-2-3-2-7-1-2-2	2.800	2.0	3.33	2.5	6.4
18	JCY3-7-1-2-1-B-2-3-2-1-3-1	3.30	2.0	4.67	9.0	6.6
18	JCY3-7-1-2-1-B-2-3-2-1-3-2	1.00	5.5	2.89	9.0	2.4
18	JCY3-7-1-2-2-1-3-1-1-2-7-1-2-5	1.00	-	4.00	9.0	5.5
18	JCY2-2-4-1-1-1-3-1-3-1	1.00	2.0	3.88	8.0	1.2
18	42050-1-1-2-1-3	2.23	2.66	4.14	9.0	1.2
18	CM117-3-4-1-2-1-1	2.84	2.0	4.33	9.0	1.2
18	JCY3-7-1-2-1-B-1-1-2-3-1-1	1.00	2.0	3.57	9.0	2.1
18	CM117-3-4-1-2-5-2	1.53	2.0	3.11	4.0	5.2
19	JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1	1.33	4.33	2.89	4.0	4.4
19	LM 13	1.83	2.33	3.50	3.4	2.8
19	CM 117-3-4-1-2-2-3	2.29	2.0	3.13	7.5	3.2
19	JCY3-7-1-2-1-B-2-1-2-1	2.25	2.0	3.57	6.5	2.2
19	SW-93D-313-23-POP.49-S4-1-3-1	1.00	3.5	4.00	6.5	2.4
19	CML 44	2.41	2.33	5.75	7.0	2.3
19	SKV 18	3.50	3.0	6.14	9.0	4.6
19	JCY 3-7-1-2-1-b-2-3-2-3-1-1-1	2.43	3.0	3.14	8.0	2.1
19	LTP 1	4.93	2.0	6.13	9.0	4.6
19	LTP 4	1.00	2.0	5.57	8.0	1.2
20	LM 13-3	2.53	3.5	2.63	5.0	5.4
20	Basi Local(S)	2.50	5.0	4.50	-	2.6
20	Win Synthetic (R)	1.66	3.4	3.00	-	2.2

*Experiment was conducted under natural infestation of *Chilo partellus* at Karnal

Based on the mean leaf injury level the inbred lines have been categorized as follow.

Least Susceptible: 31
Moderately Susceptible: 168
Susceptible: 1

Table: 9. Least susceptible inbred lines

S.No.	Pedigree	Mean LIR	S.No.	Pedigree	Mean LIR
1.	Gen-1858	3.00	17.	CML 165	2.58
2.	HKI-PC-8-2	2.90	18.	CML 171	2.76
3.	LM 16	2.85	19.	DMR QPM-03-124	2.75
4.	CM 139	2.74	20.	DMR QPM-58-26	2.51
5.	CM 144	2.61	21.	CL-QRCYQ47	2.91
6.	CM 501	2.91	22.	CML 451Q	2.76
7.	HKI 141-2	2.52	23.	SHD-1 ER 6	2.80
8.	CML 141	2.87	24.	DMHOC 4	2.90
9.	CML 154	2.73	25.	PFSR-R10	2.89
10.	CML 269	2.8	26.	PFSR-S2	2.57
11.	HKI 26-2-4-(1-2)	1.87	27.	CM117-3-4-1-1-4-1	2.90
12.	HKI 31-2	2.97	28.	CM 117-3-4-1-2-3-1	2.27
13.	HKI 34(1+2)-1	2.81	29.	CML 311	2.93
14.	HKI 164-4-(1-3)-2	1.58	30.	CM117-3-2-1-1-1-2-1	2.66
15.	HKI 164-4-(1-3)-2	2.98	31.	LM 13	2.77
16.	HKI 164-3(2-1)-1	2.72			

Table: 10. Moderately susceptible inbred lines

S.No.	Pedigree	Mean LIR	S.No.	Pedigree	Mean LIR
1.	HSSW(HS)C1f3(SH2SH2)	3.65	85.	HKI 17-2	4.32
2.	Insec 2 (K4)	3.77	86.	HKI164-3(2-1)-1	4.05
3.	Insec 2 (K4)' Insec (K4)	4.77	87.	HKI164-3(2-1)-1-1	3.53
4.	Mas madu (sh2sh2)	5.25	88.	HKI-164-4-(1-3)-2-2	3.18
5.	NSS2W9301A(sh2sh2)	4.35	89.	HKI164-D-3-3-2	3.55
6.	Sweet corn 'Insec 1(K4)	3.35	90.	HKI164-7-	4.09

				7ER2	
7.	Win Sweet corn	5.01	91.	HKI 164-7-6x 161	4.35
8.	951-7	4.37	92.	HKI 164-7-4ER-3	4.64
9.	WINPOP-16	4.57	93.	HKI 164-7-4	4.57
10.	CUBA- 377	5.51	94.	HKI-164-7-4-2	3.41
11.	CUBA-380	4.77	95.	HKI 164-7-2	3.95
12.	NC- 392	3.52	96.	HKI 164-1-4	4.88
13.	DMSC-1	4.60	97.	HKI 164-4-(1-3)	3.90
14.	DMSC-3	3.16	98.	HKI-164-7-6X161-2	4.04
15.	DMSC-6	3.54	99.	HKI 191-1-2-5	3.44
16.	DMSC-8	5.04	100.	HKI 193-2-2	4.29
17.	DMSC 16-1	5.24	101.	HKI 193-2-2-1	3.82
18.	DMSC 16-2	4.98	102.	HKI-193-2-2-4	3.61
19.	DMSC 20	3.76	103.	HKI 193-1	3.43
20.	DMSC 28	4.0	104.	CML 167	3.32
21.	DMSC 36	3.79	105.	CML 172	4.71
22.	DMSC-37-3	4.62	106.	HKI MBR-139	3.37
23.	Sc Male	3.45	107.	HKI-MBR-139-2	4.81
24.	HKI PC 4B	3.96	108.	DMR QPM-03-104	3.81
25.	HKI-PC-4B-1	3.61	109.	DMRQPM 03-113	3.23
26.	HKI-PC-5-1	4.13	110.	CML 158	3.48
27.	HKI-PC-5-2	3.60	111.	CML 175	3.36
28.	HKI-PC-7	3.92	112.	CLQRCYQ-47-B	3.90
29.	HKI PC 8	3.73	113.	CLQ-RCYQ30	3.88
30.	HKI-PC-8-2-1	4.60	114.	CLQ-RCYQ36	3.57
31.	WINPOP-1	4.60	115.	CLQ-RCYQ41	4.10
32.	WINPOP-2	4.3	116.	CLQ-RCYQ40	4.53
33.	WINPOP-3	4.70	117.	DMRQPM58	3.17
34.	WINPOP-4	4.34	118.	DMRQPM 58	4.04
35.	WINPOP-21	3.70	119.	HIGH OIL POPULATION OIL II-1	3.90
36.	WINPOP-43-1	4.82	120.	HIGH OIL POPULATION OIL II-2	5.07
37.	WINPOP-43-2	3.45	121.	HIGH OIL POPULATION OIL II-3	4.00
38.	HKI-2-6-2-4(1-2)-4	5.03	122.	HIGH OIL POPULATION OIL II-4	3.80

39.	HKI 226	4.62	123.	HIGH OIL POPULATION OIL II-5	4.47
40.	HKI586-1 WG' 33	4.13	124.	HKI 3322	4.65
41.	HKI-1040-5	4.93	125.	Temp.HOC 15	3.26
42.	HKI-1040-11-7	4.72	126.	02POOL 33 C 24	3.09
43.	HKI-1040C2	5.41	127.	POBLAC 61 C3	3.80
44.	HKI-1094-WG	4.02	128.	Temp.Trop High oil QPM	4.32
45.	CML-451 (P2)	3.89	129.	PFSR-R2	4.38
46.	DTPYC9-F46-3-1	5.57	130.	PFSR-R3	4.30
47.	ESM-11-3	3.21	131.	PFSR-R9	3.75
48.	PFSR/51016-1	4.71	132.	PFSR-R10	3.36
49.	Gen 6033	4.50	133.	PFSR-S3	4.17
50.	Hyd05R/2-1	4.06	134.	PFSR-S3	3.97
51.	Hyd05R/13-2	4.21	135.	SW-930-313-23-PO-49- 54-1-3-1-1-2-1-2-1-2-3- 1-1-2	4.26
52.	Hyd05R/204-1	3.79	136.	JCY2-1-2-1-1B-1- 2-3-1-1	3.68
53.	LM5	4.02	137.	JCY2-7-1-2-1-B-1- 2-1-1	3.80
54.	LM6	4.53	138.	JCY3-7-1-2-1-B-1- 1-4-1	3.40
55.	LM11	4.19	139.	JCY3-7-1-2-1-B-2- 3-2-1-2-3	3.60
56.	LM12	3.43	140.	CM 117-3-4-1-2-2- 1	3.95
57.	LM15	4.41	141.	CML 3	3.73
58.	LM15	4.56	142.	CML 321	3.78
59.	V 335	3.82	143.	CM 117-3-4-1-2-5- 1	4.18
60.	V 341-1	4.04	144.	CM 117-3-4-1-2-4- 1	4.45
61.	V 341-2	3.52	145.	42048-2-2-1-1-1-2	4.16
62.	V 351-1	4.35	146.	CML 33	3.52
63.	V 351-2	4.68	147.	JCY 3-7-1-2-1-B-2- 3-2-1-2-1	3.09
64.	CM105	3.36	148.	SW-93D-313-23- POP.49-S4-1	3.19
65.	CM114	4.72	149.	JCY3-7-2-2-1-3-1- 1-2-7-1-1-3	4.38
66.	CM121	3.34	150.	JCY3-7-1-2-1-B-2- 3-2-7-1-2-2	3.40
67.	CM123	4.48	151.	JCY3-7-1-2-1-B-2- 3-2-1-3-1	5.11
68.	CM124	5.42	152.	JCY3-7-1-2-1-B-2- 3-2-1-3-2	4.15
69.	CM128	3.53	153.	JCY3-7-1-2-2-1-3- 1-1-2-7-1-2-5	3.9
70.	CM129	3.50	154.	JCY2-2-4-1-1-1-3- 1-3-1	3.21
71.	CM132	3.62	155.	42050-1-1-2-1-3	3.84
72.	CM133	3.85	156.	CM117-3-4-1-2-1-1	3.87
73.	CM149	3.66	157.	JCY3-7-1-2-1-B-1- 1-2-3-1-1	3.53
74.	CM500	3.13	158.	CM117-3-4-1-2-5-2	3.16
75.	CM502	3.40	159.	JCY3-7-1-2-2-1-3- 1-1-2-7-1-1-1	3.39
76.	HKIC 78	3.16	160.	CM 117-3-4-1-2-2- 3	3.62
77.	HKI 141-1	3.86	161.	JCY3-7-1-2-1-B-2- 1-2-1	3.30
78.	HKI C 323	3.61	162.	SW-93D-313-23- POP.49-S4-1-3-1	3.48

79.	HKI 1352-5-8-9	3.84	163.	CML 44	3.95
80.	Pool 16 BNSEQ.C3F6x38-1	4.35	164.	SKV 18	5.24
81.	Ae-40	3.16	165.	JCY 3-7-1-2-1-b-2-3-2-3-1-1-1	3.73
82.	CML 384	4.04	166.	LTP 1	5.33
83.	CML 395	5.88	167.	LTP 4	3.55
84.	MIRT&PT-3	3.20	168.	LM 13-3	3.81

Table 11. Oviposition deterrent effect of Neem Seed Kernel Extract (NSKE) on maize stem borer, *Chilo partellus* at New Delhi

Two small plots of maize were enclosed with net. One of the plots was treated with NSKE. *C. partellus* adults were released in the net; the egg masses were counted in both the plots. The experiment was replicated thrice. It was found that 1.25% NSKE has complete oviposition deterrent effect against gravid *Chilo partellus* females. While at 2.5% NSKE, the oviposition reduction was observed to be 78.34 and 53.40% on 10day and 15day old plants respectively.

Plant age	%NSK E	No.of egg masses		No.of eggs		%reductio n in egg laying
		trt	cntl	trt	cntl	
10DAG	12.5	0	8	0	278	100
	25	1	4	24	121	78.34
15DAG	12.5	0	5	0	120	100
	25	3	3	50	96	53.4

Table: 12. Oviposition deterrent effect of Neem Seed Kernel Extract (NSKE) on maize stem borer, *Chilo partellus* at Udaipur

<i>Treatment</i>	Number of eggs /plant	Infested plants
T1 – 12.5 g/l(at 15 DAG),	05	15.5
T2 – 12.5 g/l(at 25 DAG)	09	22.6
T3 – 25 g/l(at 15 DAG),	03	7.2
T4 – 25 g/l(at 25 DAG)	05	11.9
T5 – Control	12	52.5

Table: 13. Oviposition deterrent effect of Neem Seed Kernel Extract (NSKE) on maize stem borer, *Chilo partellus* at Hyderabad.

Dt of sowing: 24.6.2010

Dt of 1st spraying of NSKE : 13.7.2010, Dt of release of adult moths: 14.7.2010

Dt of 2nd spraying of NSKE : 24.7.2010, Dt of release of adult moths: 25.7.2010

Maize hybrid: DHM117

No.of treatments:7

T.No	Treatment	Treated			Untreated		
		No.of Egg masses	% plants with eggs	%Infested plants at 30 days	No.of Egg masses	% plants with eggs	%Infested plants at 30 days
T1	NSKE 12.5g/l at 15DAG	1	4.35	8.70	nil	Nil	4.76
T2	NSKE 12.5g/l at 25DAG	2	10.53	nil	nil	nil	nil
T3	NSKE 25g/l at 15DAG	3	7.14	7.14	5	35.71	7.14
T4	NSKE 25g/l at 25DAG	--	--	---	---	---	----
T5	NSKE 50g/l at 15DAG	5	33.33	nil	2	10.0	20.0
T6	NSKE 50g/l at 25DAG	--	---	---	---	----	---
T7	Control	--	---	---	---	----	--

Table: 14. Maize intercropped with cowpea at Kolhapur

Treatment	% Plant infestation 30 DAG	% Dead Heart 30 DAG	Mean LIR	Grain yield(Kg/ha)
T1 (Maize + Cowpea)	0.67	0.25	0.35	4474.867 (49)
T2 (seed treatment)	2.17	0.00	0.53	3549.716
T3 (Maize+Cowpea+seed treatment)	1.00	0.00	0.20	4738.494 (59.50)
T4 (Seed treatment + endosulfan)	1.00	0.00	0.23	4344.465
T5 (Endosulfan 1 spray)	3.33	0.00	1.43	3696.772
T6 (Endosulfan 2 spray)	3.67	0.00	1.85	3677.725
Control	3.67	0.50	2.33	3441.136

Table: 15. Maize ecosystem management / Intercropped with cowpea at Udaipur.

S.No.	Stem borer infestation (%)	Yieldq/ha
T1 (Maize + Cowpea)	3.7	37
T2 (seed treatment)	3.3	40.5
T3 (Maize+Cowpea+seed treatment)	2.1	48.3
T4 (Seed treatment + endosulfan)	2.9	44.5
T5 (Endosulfan 1 spray)	3.9	35.3
T6 (Endosulfan 2 spray)	3.5	38.6
Control	6.9	27.6

Table: 16. Maize ecosystem management / Intercropped with cowpea at Srinagar.

Date of sowing = 12.06.10 Design =RBD, Replication =3

Maize (KDM-438), Cowpea (Shalimar cowpea-1)

Plot size = 3x 5 mt. (6 rows 60cm apart)

S No.	Treatments	Plant Infestation (%) At 40DAG	Dead Hearts (%) At 40DAG
1.	Maize Intercropped with cowpea(2:1)	1.53 (7.105)*	1.00 (5.739)
2.	Seed treatment of maize with Imidacloprid 600FS@7ml/kg	2.86 (9.736)	1.12 (6.074)
3.	2+1	1.15 (6.156)	0.45 (3.846)
4.	2+One spray (Endosulphan @2ml/kg at 15 DAG)	0.23 (2.748)	0.00

5.	One spray(Endosulphan at 25 DAG)	3.43 (10.672)	1.97 (8.068)
6.	Two spray(Endosulphan at 15 & 25 DAG)	4.31 (11.982)	2.15 (8.431)
7.	Control	18.76 (25.666)	15.65 (23.30)
SE(m)	---	0.860625	0.56882
LS D(0 .05	---	1.87514	1.23935
CV (%)	---	9.9986	8.81332

* Figure in parenthesis is arcsine transformation values

Table: 17. Maize ecosystem management (*Kharif*)/Intercropped with cowpea at Ludhiana.

Treatments	After 25 DAG		After 35 DAG		Yield(q/ha)
	% Dead heart	% Leaf Injury	% Dead heart	% Leaf Injury	
T1 (Maize + Cowpea)	2.67	2.67	2.67	2.67	77.69
T2 (seed treatment)	0.00	4.58	0.33	2.92	81.00
T3 (Maize+Cowpea+seed treatment)	0.00	4.04	1.07	5.01	78.83
T4 (Seed treatment + endosulfan)	0.61	0.61	1.22	2.12	76.19
T5 (Endosulfan 1 spray)	0.00	0.00	0.00	0.00	75.44
T6 (Endosulfan 2 spray)	0.33	2.01	0.59	2.56	76.58
Control	0.00	2.28	0.00	0.57	66.83
CD(p=0.05)	NS	NS	NS	NS	NS

- Incidence of *Chilo partellus* was sporadic due to intermittent rains during the trial period.

Table: 18. Maize ecosystem management / Intercropped with cowpea at New Delhi.

An experiment was conducted to evaluate maize:cowpea intercropping with endosulfan spray and seed treatment with imidacloprid. Maize was intercropped with cowpea in the ratio of 2:1. Cowpea was sown in the furrows. Infestation parameters indicated positive impact of cowpea on *C. partellus* damage.

Treatment	At 30 days after germination			
	Plant infestation (%)	Deadhearts (%)	Leaf Injury Rating	Yield (t/ha)
Maize+Cowpea	2.08	0.0	1.2	2.912 (3.831)
Seed treatment	9.02	1.38	1.58	3.132

				(4.047)
Maize+Cowpea+Seed treatment	3.47	2.77	1.24	2.726
Seed treatment+Endosulfan	7.65	0.69	1.38	3.061
Endosulfan 1 spray	6.25	0.69	1.32	2.724
Endosulfan 2 sprays	4.16	0.69	1.12	2.899
Control	8.33	0.69	1.36	2.593

Table: 19. Maize ecosystem management / Intercropped with cowpea at Hyderabad.

Dt of Sowing: 3.7.2010

Dt of 1st Endosulfan spray: 24.7.2010

Dt of 2nd Endosulfan spray: 4.8.2010

Dt harvest: 23.10.2010

No of treatments:7

No.of replications:3

Plot size : 8 rows of 2m length

Maize hybrid:DHM117, Cowpea:Pusa komal

T.No	Treatment	% infestation	% dead hearts
1	Maize+cowpea 2:1	0.6	0.6
2	Seed treatment-Imidacloprid 600FS@7ml/kg	2.69	0.55
3	T2+T1	0.6	0.6
4	T2+Endosulfan at 15 DAG	1.67	0.0
5	Endosulfan spray at 15 DAG	1.47	1.06
6	Endosulfan sprays at 15 & 25DAG	0.55	0.0
7	Control	4.76	1.12

Table: 20. Review of correlation between damage and yield due to *C.partellus* at Hyderabad

Dt sowing: 23.6.2010

Dt infestation: 9.7.2010

No.of eggs released	Bio 9681		Basi local	
	LIR	Stem tunneling %	LIR	Stem tunneling %
4	4.66	--	2.44	--
8	4.13	--	3.0	--
12	4.777	--	3.4	1.83
16	3.66	1.06	3.75	3.6
20	4.38	--	3.92	--
24	4.02	2.19	2.72	5.86
28	3.065	--	3.22	--
32	4.625	--	3.07	--

Table: 21. Determination of Correlation between leaf injury rating and yield at New Delhi
 Plants of HQPM-1 were artificially infested with *C. partellus* at 12 DAG. The LIR was recorded after 25 days of infestation. Yield was recorded from each group of LIR. The yield was calibrated at 14% moisture level. The yield corresponding to LIR is given below in the table.

LIR	Mean Yield per cob (g)	
	HQPM-1	BASI LOCAL
1	304.76	163.05
2	258.49	118.19
3	256.13	75.69
4	239.09	77.95
5	158.34	108.31
6	103.38	70.92
7	94.85	70.65
8	140.27	61.89

PATHOLOGY

ALL INDIA COORDINATED MAIZE IMPROVEMENT PROJECT

Annual Progress Report

Appendix Table

PATHOLOGY

2010

**DIRECTORATE OF MAIZE RESEARCH
PUSA CAMPUS, NEW DELHI -110012**

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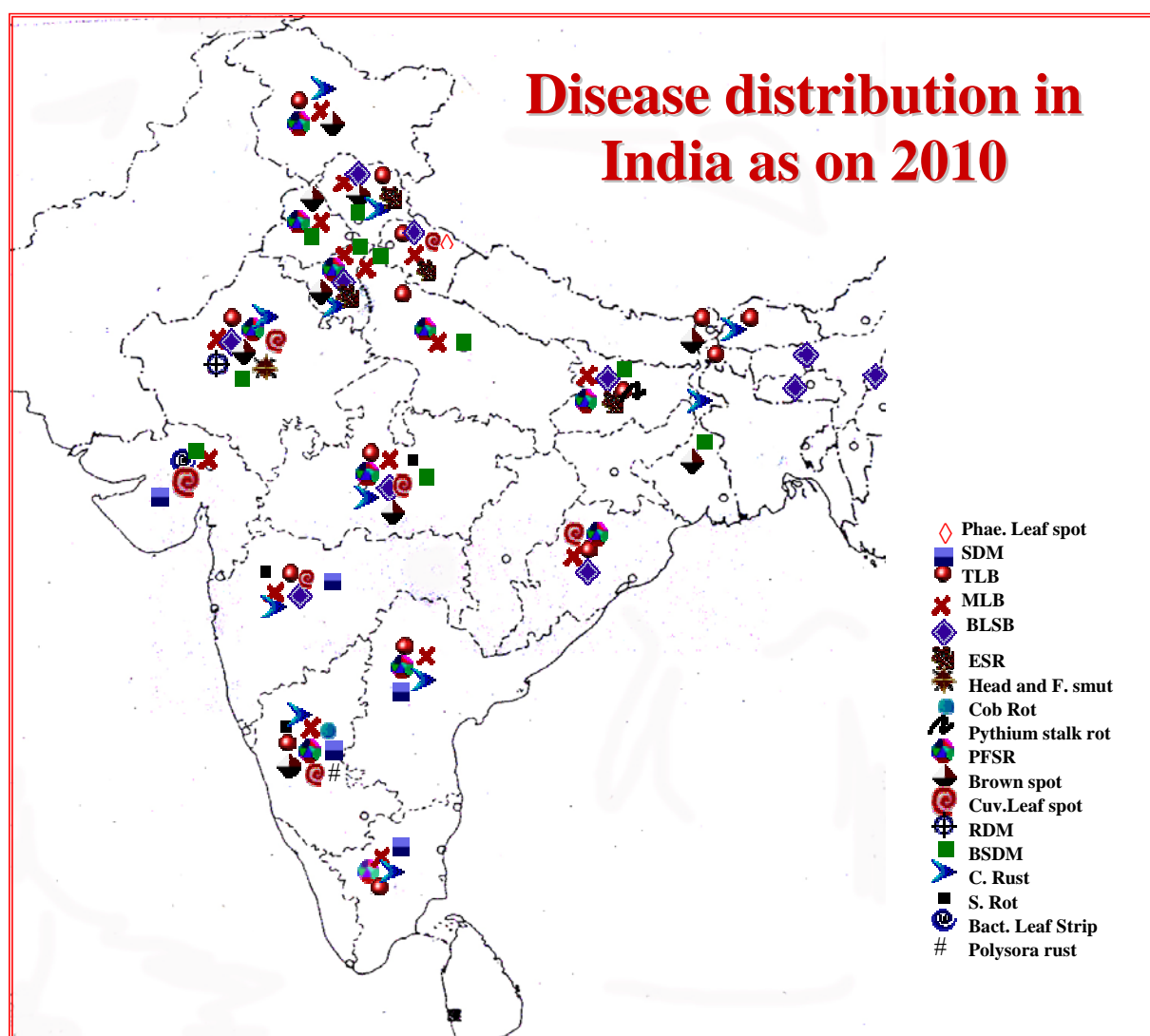
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Achievement for the year 2010 Pathology

Survey and surveillance

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Himachal Pradesh, Karnataka, and Tamil Nadu, The most common diseases of these areas were Turcicum Leaf Blight in Karnataka and H. P, Banded leaf and sheath blight in Rajasthan and H. P, Brown stripe downy mildew, Erwinia stalk rot, Brown spot in H. P. Disease incidence of Curvuleria leaf spot & Rajasthan downy mildew was high in Rajasthan area due to high rain fall & high humidity. Polysora rust is emerging as a potential threat in Karnataka. Based on the survey surveillance, the disease map was updated.



Coordinated trials

A total of 245 maize genotypes and 20 QPM genotypes in 10 different trials comprising of various maturity groups were evaluated against different maize diseases *viz.* Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Post-flowering stalk

rots(PFSR), Common rust (C. Rust), Polysora rust (P. Rust) and Erwinia stalk rot (ESR). The screenings of these genotypes were carried out under artificially inoculated conditions in the various hot spots located in different agro climatic zones of the country. The most promising genotypes with combined resistance to various diseases are:

Resistant maize genotypes in IET full season maturity –

A total of forty eight genotypes were resistant out of fifty two genotypes. Promising enotypes with multiple resistant are;

MM1107	MLB, RDM, PFSR
M9977	MLB, PFSR
BISCO-NEW 704	MLB, BSDM
X8B674	MLB, P.RUST, C. RUST
KMH-2700	MLB, TLB
KMH-509	MLB, RDM, BSDM
KMH – 2559	MLB, BSDM
S 6668/NH 6668	MLB, RDM, P.RUST, C. RUST
S 6718/NH 6718	TLB, RDM, P.RUST, C. RUST
JH 12157	MLB, RDM, BSDM, PFSR
NMH-777	MLB, RDM, BSDM
NMH-713	MLB, RDM, BSDM
GK 3094	MLB, TLB, BSDM, P.RUST, C. RUST
CMHO8-287	TLB, RDM, BSDM
BIO – 562	MLB, P.RUST, C. RUST
MCH 44	MLB, ESR
X8B677	P.RUST, C. RUST
X35A 175	RDM, PFSR
X35A 176	BSDM, PFSR
JKMH 102	RDM, P.RUST, C. RUST
JKMH 101	RDM, BSDM
JH 31291	PFSR, P.RUST, C. RUST
JH 31294	RDM, BSDM, ESR, P.RUST, C. RUST

Resistant maize genotypes in IET medium maturity –

A total of thirty seven genotype showed resistant reaction out of sixty three genotypes Promising genotypes with combined resistance to various diseases are

KDMH 176	MLB, RDM, P. RUST, C. RUST
Safal X-2	MLB, RDM, BSDM
P3540	MLB, RDM. BSDM, PFSR
X35A174	MLB, P. RUST, C. RUST
S 6217	MLB, RDM, P. RUST, C. RUST
S 6304	MLB, RDM, PFSR
JH 31404	MLB, RDM. BSDM, ESR, P. RUST, C. RUST
VMH-4106	MLB, RDM, P. RUST, C. RUST
CMH08-284	MLB, RDM. PFSR
CMH08-292	MLB, RDM. PFSR
Yuvraj Gold	MLB, TLB, RDM, BSDM

BH41001	MLB, RDM, BSDM, PFSR
BH41009	MLB, RDM, BSDM
BIO-151	MLB, RDM, BSDM, PFSR, P.RUST, C. RUST
HKH - 412	TLB, PFSR
MMH-09-1	MLB, P.RUST, C. RUST

Resistant maize genotypes in IET early maturity –

A total of fourteen genotype showed resistant reaction out of twenty six genotypes
Promising genotypes with combined resistance to various diseases are

KDMH 755	MLB, RDM
Sun - Vaaman	MLB, RDM
Sun - 306	MLB, RDM
KNMH-4010141	MLB, RDM
JH-3459	MLB, PFSR
REH 2009-11	MLB, RDM
REH 2009-12	MLB, RDM

Resistant maize genotypes in IET extra early maturity –

A total of six genotype showed resistant reaction out of thirteen genotypes
Promising genotype with multiple resistant

FH 3521	RDM, BSDM
---------	-----------

Resistant maize genotypes in AET medium maturity –

A total of thirteen genotype showed resistant reaction out of twenty four genotypes
Promising genotypes with combined resistance to various diseases are

X8B557	RDM, BSDM, P. RUST, C. RUST
X8B691	TLB, PFSR, P. RUST, C. RUST
NMH-803	MLB, RDM, BSDM
Sarpunch-171	MLB, TLB, PFSR, P.RUST, C.RUST
HKH-313	ESR, P.RUST, C.RUST
BL 2802	MLB, RDM, BSDM, P.RUST, C.RUST
KMH-3712	MLB, RDM, BSDM

Resistant maize genotypes in AET early maturity –

A total of seven genotype showed resistant reaction out of twelve genotypes
Promising genotypes with combined resistance to various diseases are

FH 3506	MLB, RDM, BSDM
85-08-11 (2009)	RDM, BSDM, PFSR

Resistant maize genotypes in AET extra early maturity –

A total of four genotype showed resistant reaction out of eight genotypes
Promising genotypes with combined resistance to various diseases are

FH 3483	MLB, RDM
FH 3488	MLB, RDM

Resistant QPM genotypes to various diseases

EHQ-03	BSDM, ESR, RDM
VEHQ-3028	MLB, TLB, BSDM, PFSR
JHQPM-304 (1R)	MLB, BSDM, ESR

Nematology

Two hundred and twelve (153) maize entries belonging to different maturity groups were screened against cyst nematode, *Heterodera zaeae* maize entries viz. KDMH 755, NMH – 731, EH-2094, KH-101-Gold, NMH-3095, S 6304, CMH08-292, CMH08-350 exhibited moderately resistant reaction to *H. zaeae*.

Survey was carried out in maize growing areas to find out occurrence and distribution of *H. zaeae*. Maximum occurrence (75.00 %) and nematode population was observed from Rajsamand while minimum occurrence (44.44 %) and nematode population was noticed from Jhalawar areas of Rajasthan. Samples were also received from coordinating centers of AICRP (Maize). Maximum average nematode population was obtained from Karnal sample (8 cyst and 360 larvae/100 cc soil) followed by IARI (7 cyst and 320 larvae/100 cc soil). *Heterodera zaeae* was observed in the samples received from Coimbatore (T. N.) and Udhampur (J & K) centres. On the whole, the occurrence of cyst nematode *H. zaeae* in maize growing areas was recorded to the tune of 55.00 percent.

Evaluation of inbred lines against PFSR at Delhi, Hyderabad, Ludhiana and Udaipur

1. A total of 74 entries were evaluated and out of them 22 were selected as a resistant to PFSR across the locations with disease score of <5.0 (1-9 rating scale)
2. A total of ten promising advance lines were identified against Post Flowering Stalk rots and are being multiplied at Hyderabad.

❖ In house projects –

Inbred Line Evaluation against major diseases

A total of 200 elite lines were evaluated against major diseases of maize under artificial epiphytotic conditions at various hot spot locations i.e. PFSR at Hyderabad, Udaipur, Delhi and Ludhiana, MLB at Ludhiana & Delhi, TLB at Almora, Bajaura & Mandya, P. rust & SDM at Mandya, BLSB at Delhi, Pantnagar & Dhaulakuan, ESR at Ludhiana & Dhaulakuan, BSDM at Dhaulakuan and RDM at Udaipur. Out of them 16 lines were found resistant against TLB, 28 against MLB, 40 against BSDM, 121 against PFSR, 18 against P. rust, 17 against RDM, 1 against ESR. Some the promising lines having multiple disease resistance against three or more diseases are listed here;

DMSC16-1	TLB, BLSB (MR), P. rust
DMSC16-2	TLB, MLB, P. rust

Gen1858	TLB, BLSB(MR), PFSR,
PFSR/51016-1	TLB, MLB, BSDM, PFSR, P. rust,
HKI 141-1	TLB, PFSR, P. rust
HKI 141-2	TLB, PFSR, P. rust,
CML141	TLB, PFSR, P. rust
HKI MBR-139	TLB, MLB, BLSB(MR), PFSR, P. rust
HKI-MBR-139-2	TLB, MLB, BSDM, PFSR,
HIGH OIL POPULATION II-2	TLB, MLB, BLSB(MR),
PFSR-S2	TLB, PFSR, P. rust,
CM114	MLB, PFSR, RDM,
CLQRCYQ-47-B	MLB, BLSB(MR), PFSR
HIGH OIL POPULATION II-4	MLB, BSDM, ESR
PFSR-S3	MLB, BSDM, PFSR, RDM
CML 33	MLB, BSDM, PFSR,
DMSC36	BLSB (MR), BSDM, PFSR
LM12	BLSB (MR), BSDM, PFSR
PFSR-R9	BLSB(MR), BSDM, PFSR, RDM
JCY3-7-1-2-1-'B-1-1-4-1	BLSB(MR), PFSR, RDM
SW-93D-313-23-POP.49-S4-1	BLSB(MR), PFSR
LM16	BSDM, PFSR, P. rust
PFSR-R10	BSDM, PFSR, RDM
JCY2-1-2-1-1B-1-2-3-1-1	BSDM, PFSR, RDM

❖ **Post harvest management of losses due to microbial colonization in stored maize grains**

1. Experiment to find out the efficacy of biocontrol agents and non-toxic chemicals for the management of stored grains (Pinnacle and DHM 111) is in progress. Maize grains were inoculated with toxic isolate of *A. flavus* and treated with *T. harzianum*, *A. flavus* (non-toxic strain) and Ammonium carbonate. Germination % in treated grains 100-96% whereas in untreated ranged from 86.6-76.5% in Pinnacle. In DHM 111 the germination % was low as compared to Pinnacle i.e. 83.3-73.3 in treated grains and in untreated grains ranged from 74.4 to 66.6
2. The percent microflora was also reduced treated grains (21-23%) as compared to check 24.8% in Pinnacle. DHMIII exhibited more microflora (63-56%) as compared to Pinnacle (30-25%).
3. Regarding quality parameter the percent of protein, sugar, starch and tryptophane were reduced as compared to initial parameter during 10 months storage period.
4. It was observed that the grain moisture and microflora are positively correlated with R. H. % whereas mean of germination % is negatively correlated. Mean of AFB₁ concentration is maximum at 20% R.H (44.38 ppb) and 100% R.H (47.19 ppb) at ten months storage period. Whereas the concentration was drastically reduced at 60% R.H. (6.12 ppb), may be due to maximum population of bacterial microflora which was dominant at 60% R.H.

❖ **Studies on variability among the isolates of *M. phaseolina* and *F. moniliforme* in maize and Identification of sources of resistance against Post Flowering Stalk Rots of maize.**

- Isolates of *F. moniliforme* causal organism of F. S. R. from Udaipur, Kavita and Mannar areas were found more virulent than the rest isolates.
- A total of 42 entries were selected as highly resistant, with disease score of 2.0 on a scale of 1-9, out of 106 entries.

Promising resistant inbred lines to PFSR (*Fusarium moniliforme* & *Macrophomina phaseolina*) with desirable plant type and good agronomic traits like; optimum ear placement, stiff stalk, good pollen shed etc. were identified during *Kharif*, 2010, are -

- JCY3-7-1-2-1-'b-6-1-2-1-1,
- CM-117-3-2-1-1-1-2-1-3,
- CM-117-3-4-1-1-1-1,
- AF04A-421-7-8-1,
- AF04B-5405-15-3,
- AF-04-B-5796-A-7-1-3,
- CML 356-1,
- CM-117-3-4-1-2-1-1,
- AF03B-5402-15-2,
- CML 321-1,
- CML 248,
- AF04A-421-7-8-1



Promising resistant lines against Post flowering stalk rots

Publication

(a) Based on the project work:

10. Meena Shekhar, Sangita Singh, Anupriya, Ashraf Ali Khan, Archana and Sangit Kumar "Effect of inorganic salts and organic acids on colony growth of *Aspergillus flavus* and their use to control aflatoxin concentration in post harvest maize" Internet Journal of Food Safety, Vol.11, 2009, p. 4-10

1. Meena Shekhar, Ashraf Ali Khan, Sangit Kumar and R. Velazhahan “Genotypic variability in maize for aflatoxin contamination” - Paper accepted and in *Archives of Phytopathology and Plant Protection* and in press. Article ID 414714 (2009/59)

(b) Others

Paper presented -

1. Archana Sharma, Sangit Kumar and Meena Shekhar (2009) “Cultural and morphological variability in the isolates of *Exserohilum turcicum* of maize” 190 (S-04) – **5th International conference Plant Pathology in Globalized Era.**
2. Sangit Kumar, Meena Shekhar and Archana Sharma (2009) “Genetic diversity in *Exserohilum turcicum*, incitant of turcicum leaf blight in maize using RAPD analysis” 191 (S-04) – **5th International conference Plant Pathology in Globalized Era.**
3. Meena Shekhar, Sangit Kumar, Anupriya Kumari, Ashraf Ali Khan and Archana Sharma (2009) “Biological control of Aflatoxin in maize grain at Ambient storage condition” 625 (S-15) – **5th International conference Plant Pathology in Globalized Era, November 10-13, 2009 held at IARI, New Delhi.**
4. S. Kumar and M, Shekhar (2010) “Management strategies for Pre- and Post- harvest mold infection and aflatoxin in maize” **International mycotoxin conference MycoRed 2010 Penang, Malaysia, 1-4 December 2010**

Foreign Visit

- Dr. Sangit Kumar participated in International Mycotoxin Conference MycoRed 2010 on “**Global Mycotoxin Reduction Strategies: Asia and Pacific Rim**” at Penang, Malaysia, 1-4 December 2010

Award

- Prof. K.P.V. Memon Best Postar Paper Award (2009) on “**Cultural and morphological variability in the isolates of *Exserohilum turcicum* of maize**” by Archana, Sangit Kumar and Meena Shekhar during the International Conference on “Plant Pathology in the Global Era”

Human Resource Development in Maize Pathology

- It was a long felt need of pathologists of ACRIP on Maize to get exposed to pathological techniques in disease screening in maize. Therefore, a training on “**Intensive Maize Training for Freshers**” from Oct 11-13, 2010 was organized for them at DMR, New Delhi. The participating pathologists were given hands-on experience in culture maintenance, inoculum preparation, artificial creation of epiphytotics of PFSR (*Macrophomina*, *Fusarium moniliforme*) and disease rating for Assessment of disease severity.

Table: 1

Trial 61 : Evaluation of Maize Genotypes (IET full season maturity) against various diseases of maize during Kharif 2010

S.NO	Pedigree	MLB (1-5)					TLB (1-5)				BLSB (1-5)		PANT
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	ALM	MAND	DEL		
1	Ajeet 301	1.0	2.0	2.5	1.5	1.0	1.5	1.4	1.8	2.8	3.5	5.0	
2	MM1107	1.0	2.0	2.0	2.0	1.0	2.0	3.0	1.5	3.5	3.0	5.0	
3	M9977	1.0	1.0	2.0	1.5	1.0	2.0	2.6	1.5	3.5	3.5	4.8	
4	PFMH- 97 I 02	2.5	2.6	3.5	2.3	1.5	1.5	3.2	1.5	3.0	3.0	5.0	
5	PFMH- 97 I 09	2.0	2.6	3.0	2.3	1.0	2.0	3.0	1.3	3.0	3.0	5.0	
6	PFMH- 97 I 40	2.5	3.0	4.0	2.3	1.0	2.0	3.2	1.3	3.5	3.0	5.0	
7	Bisco -New 704	1.5	2.6	2.0	2.0	1.0	1.5	2.5	1.5	3.8	3.5	3.8	
8	Bisco -X9	1.5	3.0	3.0	2.3	1.5	2.5	3.5	1.3	3.8	3.5	5.0	
9	Bisco -X 6525	2.0	3.0	3.5	2.3	1.0	2.0	2.6	1.5	3.3	3.5	5.0	
10	Bisco -X-11	1.5	3.0	4.0	3.3	1.3	2.5	2.9	1.0	3.0	3.0	5.0	
11	HTMH 5101 Sona	2.0	3.0	2.5	1.5	1.5	2.5	3.0	1.5	2.5	3.5	4.8	
12	X8B674	2.5	2.5	2.0	2.0	1.0	2.0	2.6	1.5	3.3	3.5	4.3	
13	X8B677	2.0	3.0	3.0	2.5	1.0	2.5	3.0	1.8	4.3	4.0	4.8	
14	C6485	0.5	2.6	2.0	2.0	1.0	2.5	3.1	1.5	3.5	3.5	5.0	
15	C1946	1.5	3.0	2.5	2.0	1.5	2.5	2.6	1.8	2.8	3.0	5.0	
16	KMH-2700	2.5	3.0	3.0	2.3	1.5	1.5	2.0	1.5	2.5	2.5	5.0	
17	KMH-509	1.5	2.6	1.5	1.3	1.5	1.5	3.2	1.0	2.5	2.0	4.5	
18	KMH-2559	1.0	1.5	1.5	1.8	1.5	1.5	2.8	1.3	2.8	2.0	4.5	
19	X35A 175	1.5	2.0	3.0	2.3	1.0	2.0	2.0	1.0	3.0	3.0	4.5	
20	X35A 176	1.5	2.6	3.5	2.0	1.0	2.5	1.2	1.0	3.0	3.0	5.0	
21	JKMH 102	1.5	2.0	2.5	2.3	1.0	2.5	1.3	1.3	3.0	3.0	4.0	
22	JKMH 101	1.5	2.6	2.5	2.0	1.0	2.5	3.0	1.5	3.3	3.5	4.5	
23	PRO 379	1.0	2.6	2.0	1.5	1.0	2.5	2.4	1.5	3.0	3.5	4.5	
24	PRO 380	1.5	2.0	2.5	2.3	1.0	1.5	1.8	2.0	2.8	3.0	4.0	
25	S 6668/NH 6668	1.0	1.5	2.0	1.5	1.0	2.0	1.8	1.3	2.8	3.0	4.8	
26	S 6718/NH 6718	1.0	2.0	2.5	1.5	1.0	2.0	1.0	1.0	2.0	4.0	4.5	
27	JH 31291	1.5	2.8	3.0	2.3	1.5	2.5	3.8	2.0	4.8	3.5	4.3	
28	JH 31294	2.0	2.6	2.5	2.3	1.0	1.5	3.5	1.8	5.0	3.0	3.5	
29	JH 12157	1.0	2.8	1.5	1.5	1.0	1.0	2.2	1.5	3.3	3.0	4.5	
30	GH- 1004	1.5	3.0	3.0	2.0	1.5	2.0	2.8	1.5	4.8	3.0	4.3	

Contd.

Table: 1

S.NO	Pedigree	MLB						TLB						BLSB
		(1-5)						(1-5)					(1-5)	PANT
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	ALM	MAND	DEL			
31	GH- 1009	1.5	2.8	3.0	1.8	1.5	2.0	3.2	1.5	3.3	3.5	4.8		
32	GH- 1005	2.5	3.0	3.5	3.0	2.0	2.5	2.6	1.3	2.0	4.0	4.5		
33	GH- 1008	2.0	3.0	2.5	2.0	1.8	2.5	3.6	1.8	3.8	4.0	5.0		
34	A 7501	2.0	3.0	3.0	2.8	1.5	2.5	2.4	1.8	3.3	3.5	4.8		
35	NMH-777	1.5	2.8	1.5	1.5	1.0	2.0	2.7	1.5	3.5	3.5	5.0		
36	NMH-713	1.0	2.0	2.0	2.0	1.0	1.5	2.6	1.3	3.0	2.0	5.0		
37	NMH-4040 (White)	2.5	3.0	3.5	2.3	1.0	2.5	2.5	1.8	3.8	3.0	5.0		
38	GK 3090	2.0	2.6	2.0	1.8	1.0	2.0	1.5	1.0	2.8	3.0	4.8		
39	GK 3094	2.0	2.6	1.5	2.0	1.0	2.0	2.4	1.3	2.0	3.0	4.3		
40	Sun - Kranthi	2.0	2.6	3.5	2.3	1.0	2.5	2.5	2.0	3.5	3.5	4.8		
41	CMH08-239	1.0	1.5	2.0	1.8	1.0	1.5	2.3	1.0	2.8	3.5	4.5		
42	CMH08-259	1.5	1.5	1.5	1.8	1.5	2.5	2.9	1.5	2.5	3.0	5.0		
43	CMH08-287	2.0	1.0	1.5	2.5	1.0	2.0	2.3	1.5	2.0	2.5	3.3		
44	CMH08-337	1.5	1.0	2.0	1.8	1.0	1.5	3.2	1.5	3.5	3.0	4.3		
45	KNMH-401091	1.5	3.0	3.5	1.8	1.5	2.0	2.7	1.0	3.3	3.0	4.5		
46	KNMH-4010131	1.5	2.0	2.0	1.8	1.0	2.0	2.4	1.0	3.0	3.0	4.0		
47	CP 111	1.5	2.0	2.5	1.5	1.0	2.0	2.5	2.0	3.5	3.0	5.0		
48	CP 333	1.5	2.0	2.0	1.5	1.0	2.5	2.3	1.8	3.8	3.0	4.5		
49	HP-222	1.5	2.0	1.5	1.5	1.0	2.0	2.5	1.0	3.0	3.0	5.0		
50	DMR NSCH 6	2.0	2.0	1.5	1.3	1.0	2.0	2.5	1.3	2.8	3.5	4.8		
51	DMR NSCH 7	1.5	2.6	3.5	1.8	1.5	1.5	2.3	1.5	3.0	4.0	5.0		
52	BIO-562	2.0	2.5	2.0	1.8	1.5	1.0	3.0	1.5	3.5	3.5	5.0		
53	HKH - 413	1.5	2.5	2.5	2.0	1.5	1.0	2.5	1.0	2.5	3.5	4.8		
54	MCH 44	2.0	2.0	2.0	1.8	1.0	2.5	2.0	1.0	3.3	3.0	3.0		
55	Nidhi Pearl	1.5	2.2	2.5	2.3	1.5	2.5	3.0	1.0	3.3	3.5	5.0		
56	PMH 1	1.5	2.0	1.5	1.8	1.0	2.5	2.9	1.0	3.3	3.0	5.0		
57	PMH 3	1.5	1.5	2.0	1.5	1.3	2.5	2.4	1.8	3.5	3.5	4.5		
58	Seedtec 2324	1.0	3.0	3.5	2.5	2.0	1.5	2.6	1.5	3.0	3	5.0		
59	BIO 9681	1.0	2.5	3.5	2.0	2.0	2.5	3.2	1.8	3.0	3.5	4.8		
60	Resistant Check	-	-	-	-	3.0	-	-	-	2.0	-	-		
61	Susceptible Check	-	-	-	-	-	-	5.0	3.5	4.5	-	-		
62	Local check	3.5	4.2	-	-	-	3.5	-	-	-	-	-		

Table:1		SDM	DM	RDM	BSDM	PFSR			ESR		P.RUST	C.RUST	CYST
S.NO	Pedigree	(%)	(%)	(%)	(1-5)	(1-9)			(%)		(1-5)	(1-5)	Nema#
		MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	UDP
1	Ajeet 301	92.1	100.0	50.0	2.0	6.4	4.2	5.2	43.8	58.0	3.0	1.4	48-57
2	MM1107	64.2	90.0	21.0	4.0	4.8	4.6	3.4	96.7	66.3	3.3	2.5	30-38
3	M9977	62.9	100.0	33.3	3.0	3.8	2.9	5.0	63.6	51.6	3.8	2.8	44-50
4	PFMH- 97 I 02	100.0	100.0	82.3	4.0	7.3	6.0	3.8	58.2	29.4	3.8	3.0	39-48
5	PFMH- 97 I 09	97.4	100.0	57.1	4.0	5.7	5.0	4.6	57.4	54.6	3.8	2.8	47-52
6	PFMH- 97 I 40	100.0	100.0	75.0	3.0	5.9	4.4	3.8	72.7	72.9	3.5	2.8	40-47
7	Bisco -New 704	97.00	100.0	50.0	2.0	5.5	6.9	3.7	16.1	29.2	3.5	2.0	30-36
8	Bisco -X9	100.0	100.0	34.8	2.0	7.2	1.8	5.8	24.3	76.7	4.8	3.3	18-24
9	Bisco -X 6525	100.0	100.0	62.5	2.0	6.6	6.4	4.4	46.7	62.7	4.5	3.3	23-30
10	Bisco -X-11	100.00	100.0	44.0	3.0	8.8	6.3	4.6	55.2	41.4	4.8	3.7	19-27
11	HTMH 5101 Sona	100.0	100.0	50.0	2.0	4.0	4.9	3.7	38.6	45.1	3.0	3.5	11-19
12	X8B674	100.0	100.0	44.4	4.0	5.8	2.1	3.4	76.0	13.4	2.0	1.5	18-23
13	X8B677	93.3	100.0	36.0	3.0	4.8	2.5	5.2	44.0	17.4	2.0	1.4	10-18
14	C6485	100.0	95.5	87.5	4.0	7.3	5.1	4.3	73.3	25.7	4.3	3.5	18-21
15	C1946	100.0	100.0	100.0	4.0	4.5	4.1	5.2	86.8	36.7	3.5	3.0	15-17
16	KMH-2700	100.0	100.0	65.0	3.0	7.0	7.3	3.5	30.8	50.0	3.3	2.3	26-32
17	KMH-509	55.0	94.1	5.8	2.0	4.2	7.1	6.2	39.7	33.0	2.8	2.4	22-27
18	KMH-2559	96.9	100.0	35.2	2.0	4.5	7.6	4.1	48.2	15.0	3.8	2.3	18-24
19	X35A 175	71.4	90.9	4.1	3.0	3.7	2.4	5.0	21.4	33.0	3.8	2.4	25-28
20	X35A 176	92.85	88.0	47.0	2.0	3.7	4.3	4.5	28.8	30.0	2.8	1.8	13-16
21	JKMH 102	15.0	51.5	0.0	3.0	6.5	4.3	4.5	72.5	39.1	2.5	1.0	24-30
22	JKMH 101	23.5	100.0	10.0	2.0	5.4	5.4	3.4	45.3	25.0	3.5	2.7	38-44
23	PRO 379	84.3	100.0	33.3	3.0	4.6	2.8	4.8	31.3	31.7	2.8	1.3	10-14
24	PRO 380	90.00	100.0	50.0	2.0	5.9	4.5	5.8	15.0	15.0	3.8	2.4	28-33
25	S 6668/NH 6668	76.90	60.0	8.7	1.0	3.5	1.9	5.3	42.9	54.6	2.0	1.7	11-15
26	S 6718/NH 6718	100.00	93.1	9.0	3.0	5.8	6.3	5.3	58.1	46.7	2.0	1.0	31-36
27	JH 31291	100.0	100.0	89.4	3.0	3.4	3.2	5.0	30.2	18.0	2.5	2.0	15-20
28	JH 31294	100.0	58.3	12.5	2.0	3.9	7.8	5.0	22.2	12.6	2.0	1.3	35-42
29	JH 12157	87.4	79.2	4.3	2.0	4.3	3.6	4.4	50.0	45.9	2.0	2.8	17-23
30	GH- 1004	87.9	91.3	18.7	2.0	5.9	4.9	4.4	59.2	77.8	3.8	2.9	10-17
31	GH- 1009	77.5	92.9	9.5	3.0	6.0	5.8	4.9	58.6	48.2	3.3	2.7	25-32

Contd.

Table: 1

S.NO	Pedigree	SDM	DM	RDM	BSDM	PFSR				ESR	P.RUST	C.RUST	CYST
		(%)	(%)	(%)	(1-5)	(1-9)	UDP	HYD	(%)	(1-5)	(1-5)	Nema#	
		MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	UDP
32	GH- 1005	82.4	86.37	15.0	3.0	6.3	3.7	3.5	59.2	57.5	4.5	3.1	15-20
33	GH- 1008	93.6	92.86	27.2	2.0	5.6	5.7	3.5	53.6	48.6	4.0	2.9	17-23
34	A 7501	19.0	64	31.2	1.0	4.4	5.9	3.5	10.9	33.2	2.5	1.3	4-18
35	NMH-777	89.2	79.0	10.0	1.0	6.2	4.6	4.8	52.1	66.7	3.0	1.9	10-18
36	NMH-713	81.5	100.0	14.3	1.0	6.8	7.3	4.8	35.5	55.4	4.3	2.9	20-27
37	NMH-4040 (White)	100.0	100.0	14.2	3.0	4.8	6.1	5.3	48.3	56.3	3.5	2.4	31-36
38	GK 3090	73.5	93.6	71.4	2.0	6.7	6.1	5.3	42.1	46.4	3.3	1.5	25-30
39	GK 3094	74.5	91.7	40.0	1.0	6.3	6.9	5.0	45.8	50.0	2.0	1.8	19-25
40	Sun - Kranthi	94.7	100.0	100.0	3.0	7.8	5.6	4.0	79.2	23.0	4.8	2.4	13-17
41	CMH08-239	100.0	100.0	22.7	2.0	5.9	2.3	5.4	76.0	29.2	3.3	3.5	9-13
42	CMH08-259	100.0	100.0	100.0	2.0	4.1	6.5	6.4	34.2	21.7	4.3	2.4	13-18
43	CMH08-287	97.9	100.0	11.8	1.0	3.7	7.4	5.5	34.5	27.3	2.0	2.8	22-27
44	CMH08-337	72.2	90.9	10.0	1.0	3.0	5.4	4.3	52.1	13.0	4.3	2.8	15-23
45	KNMH-401091	75.0	100.0	50.0	1.0	4.0	7.0	4.9	41.9	46.7	3.0	1.7	33-38
46	KNMH-4010131	71.0	67.9	18.2	2.0	4.8	6.2	5.1	32.4	0.0	3.5	2.8	14-20
47	CP 111	96.9	94.4	11.8	2.0	3.9	8.2	4.1	39.5	50.0	3.5	3.2	21-28
48	CP 333	91.7	80.0	42.1	1.0	5.8	7.1	5.7	44.4	40.3	3.0	1.8	27-31
49	HP-222	100.0	100.0	14.3	3.0	6.6	6.0	3.6	67.9	86.4	2.0	1.8	33-42
50	DMR NSCH 6	96.7	71.4	53.0	2.0	6.0	5.5	3.4	57.1	70.9	3.0	2.2	40-48
51	DMR NSCH 7	100.0	100.0	77.7	3.0	7.0	6.5	3.7	20.0	75.0	4.5	3.3	22-26
52	BIO-562	96.0	100.0	22.0	2.0	4.1	7.4	3.6	27.3	26.5	2.0	2.0	17-22
53	HKH - 413	90.9	100.0	50.0	2.0	5.7	7.9	5.8	50.0	10.0	3.5	1.7	14-18
54	MCH 44	96.2	69.2	44.0	3.0	4.9	6.1	4.1	10.0	15.0	2.8	2.0	16-23
55	Nidhi Pearl	100.0	100.0	44.0	3.0	4.9	5.1	3.2	51.6	46.0	3.5	3.0	23-27
56	PMH 1	84.3	100.0	28.0	3.0	3.6	2.9	5.7	39.1	50.0	4.5	2.6	22-30
57	PMH 3	100.0	100.0	24.0	2.0	4.6	5.5	5.4	66.0	70.0	3.8	3.5	17-24
58	Seedtec 2324	83.75	85.0	20.0	3.0	4.5	4.2	4.4	60.4	65.2	3.5	2.2	28-32
59	BIO 9681	-	85.7	24.0	2.0	5.6	4.3	5.2	57.2	43.7	4.8	3.0	23-29
60	Resistant Check	11.7	-	-	-	-	-	-	-	-	2.0	-	-
61	Susceptible Check	100.0	-	-	-	-	-	-	-	-	4.5	3.5	-
62	Surya	-	-	44.0	-	-	-	-	-	-	-	-	-
63	HM-9	-	-	-	-	-	7.9	-	-	-	-	-	-
64	Local check	-	-	-	-	-	3.7	6.8	-	-	-	-	37-42

range of cyst/ plant

Table: 2

Trial 62 : Evaluation of Maize Genotypes (IET medium maturity) against various diseases of maize during Kharif 2010

S.NO	Pedigree	MLB (1-5)					TLB (1-5)				BLSB (1-5)	
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	ALM	MAND	DEL	PANT
1	NMH-3095	3.5	2.8	3.0	2.8	1.8	3.0	2.1	1.3	3.3	3.5	4.8
2	PFMH- 96 I 41	1.5	2.5	3.5	2.0	1.8	1.5	3.1	1.5	3.8	3.0	4.8
3	PFMH- 96 I 26	2.0	2.8	4.0	3.3	1.8	1.5	2.7	1.3	4.5	3.5	4.5
4	PFMH- 96 N 46 (W)	2.5	2.6	3.5	2.3	1.3	1.5	2.5	1.3	3.8	3.0	4.5
5	Bisco -2668	2.5	3.0	4.0	2.5	1.8	1.5	2.2	1.5	3.8	3.0	5.0
6	KDMH 176	2.0	2.0	2.0	2.5	1.0	2.0	1.0	1.3	3.5	2.5	4.3
7	Safal X-2	1.5	1.0	1.5	1.8	1.0	1.5	1.8	1.8	3.3	2.5	5.0
8	X8B684	1.0	2.8	3.0	2.5	2.0	1.5	2.9	1.5	3.0	3.0	4.5
9	X8B685	2.0	3.0	3.5	2.8	1.8	2.5	3.3	1.0	4.5	3.5	5.0
10	KMH-48	2.5	2.5	2.5	1.8	1.0	2.0	3.0	1.0	4.3	4.5	4.5
11	P3540	2.0	2.6	2.5	1.8	1.3	1.5	1.9	1.0	3.3	3.5	4.5
12	Hy. P3293	2.0	2.6	2.5	2.5	1.0	2.0	2.3	1.3	3.3	3.5	3.8
13	Hy. P3396	1.5	2.5	3.5	2.3	1.5	1.5	2.9	1.5	3.5	3.5	4.0
14	X35A173	2.0	2.8	3.5	2.0	1.3	2.5	2.4	2.0	2.0	3.0	4.8
15	X35A174	1.5	2.5	2.0	2.3	1.8	2.5	1.5	1.5	3.8	3.0	4.5
16	JKMH-7014	2.5	2.6	3.5	3.3	1.3	2.0	2.0	1.5	2.0	3.0	4.3
17	JKMH-7004	2.5	2.5	3.5	2.5	1.0	2.0	1.9	2.0	3.8	4.0	4.8
18	S 6217	1.5	2.5	2.0	2.0	1.0	1.5	2.0	1.5	3.3	3.5	5.0
19	S 6304	2.5	2.6	2.5	2.5	1.5	1.0	2.9	1.5	3.5	3.5	4.8
20	JH 31404	2.5	2.2	2.0	2.0	1.0	2.0	2.8	2.0	4.5	3.0	4.0
21	NMH-1242	1.0	2.2	2.5	1.8	1.5	1.5	1.8	1.5	3.5	4.0	4.0
22	NMH-589 (Suvarna)	1.0	2.8	4.0	2.0	1.0	1.5	2.2	1.5	3.8	3.5	5.0
23	VMH-4106	1.0	2.5	1.5	2.0	1.0	1.5	2.5	2.0	3.5	2.5	4.0
24	KH-B63	1.0	2.8	2.0	2.0	1.0	1.5	2.3	2.0	3.0	2.5	4.3
25	KH-B52	1.5	2.5	3.5	2.0	1.0	2.0	2.2	1.5	3.3	3.5	5.0
26	KH-B55	1.5	2.3	1.5	1.8	1.5	1.5	1.9	1.8	4.5	3.0	5.0
27	KNMH-401061	1.0	2.0	2.0	2.3	1.5	2.5	2.5	1.5	3.8	3.0	3.5
28	CMH08-284	1.0	2.0	2.0	2.0	1.0	1.0	2.6	1.0	4.3	3.5	4.5
29	CMH08-292	1.0	1.0	1.5	1.3	1.0	1.5	2.4	1.0	3.3	3.0	4.0
30	CMH08-350	1.5	1.0	2.5	1.8	1.0	1.5	2.4	1.5	3.8	4.0	4.3
31	CMH08-433	1.5		1.5	2.0	1.0	1.5	2.0	1.0	3.5	3.0	3.0
32	Yuvraj Gold	1.5	1.0	1.5	1.5	1.0	1.5	1.8	1.5	2.0	3.0	5.0
33	Titan	1.5	2.8	3.5	2.3	1.0	2.5	2.9	1.8	4.0	3.5	5.0

Table: 2

S.NO	Pedigree	MLB (1-5)					TLB (1-5)				BLSB (1-5)	
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	ALM	MAND	DEL	PANT
34	IMH-111	1.5	2.3	3.0	1.5	1.3	2.5	2.5	1.5	3.5	3.0	4.5
35	IMH-666	1.5	2.3	3.5	2.5	1.5	2.0	2.8	1.3	3.8	3.5	4.8
36	SMH-9	2.5	2.5	4.0	2.3	1.5	1.5	2.4	1.3	4.3	3.5	5.0
37	AMH-2002	3.0	2.5	3.5	2.8	1.0	2.0	2.7	1.0	4.3	4.0	4.0
38	EHL 161708	2.5	2.3	2.5	2.3	1.5	2.0	2.3	1.8	4.8	3.0	4.5
39	EHL 163909	3.0	3.0	4.0	2.8	1.5	3.5	2.4	1.8	3.8	3.0	5.0
40	EHL 164810	2.5	3.0	4.0	2.3	1.0	2.5	2.3	1.8	3.8	3.5	4.8
41	EHL 164910	2.0	3.0	3.0	2.3	1.5	2.5	1.9	1.0	3.8	4.0	5.0
42	L230	3.0	3.2	4.5	2.8	1.8	2.5	3.0	1.5	4.5	4.0	5.0
43	EH-2074	3.0	3.0	4.5	2.0	1.5	2.5	3.5	1.8	4.8	4.5	4.5
44	EC-3161	1.5	2.2	3.0	2.5	1.5	1.5	2.1	1.5	4.5	3.0	4.8
45	BH41001	1.5	2.0	2.0	1.5	1.0	1.5	2.4	1.5	3.3	3.0	4.3
46	BH41009	2.0	2.5	2.5	1.8	1.5	1.5	2.5	1.8	3.3	3.0	4.5
47	BIO-688	2.5	2.5	2.5	2.5	1.5	1.5	2.5	1.8	3.5	3.5	5.0
48	BIO-151	2.0	2.3	2.5	1.8	1.0	1.5	1.4	1.5	3.3	3.0	4.3
49	HKH - 411	2.5	2.5	2.5	1.8	1.0	1.5	2.3	1.0	3.3	2.0	5.0
50	HKH - 412	2.5	2.2	3.0	2.0	1.0	2.0	1.8	1.5	2.0	3.0	5.0
51	HKH - 414	2.0	2.6	4.0	2.8	1.0	2.5	2.6	1.5	4.5	3.0	4.8
52	HKH - 316	2.5	3.0	4.5	2.5	1.5	2.5	2.5	1.0	3.3	3.0	4.3
53	REH 2009-15	2.0	2.8	3.5	2.3	1.5	2.5	2.3	1.5	3.3	3.5	4.5
54	REH 2009-18	2.0	2.6	3.5	2.0	1.5	2.5	2.6	1.5	3.3	3.0	4.5
55	REH 2009-20	2.0	2.8	2.5	3.3	1.0	2.0	2.5	2.0	4.5	3.5	5.0
56	MMH-09-1	2.0	2.5	2.0	2.0	1.0	2.5	2.9	1.5	3.8	3.0	5.0
57	MMH-09-2	2.0	2.0	3.5	2.0	1.0	2.0	3.0	1.5	4.5	3.5	5.0
58	MMH-09-3	2.0	2.0	3.0	2.0	1.0	2.0	1.8	1.8	3.5	3.0	5.0
59	MMH-09-4	2.5	2.0	2.5	1.5	1.0	2.0	2.5	1.5	3.5	3.5	4.8
60	Navjot	3.0	3.0	4.0	3.5	1.5	2.0	3.3	1.0	4.8	3.5	5.0
61	BIO 9637	2.0	3.0	4.0	2.5	1.5	2.0	2.8	1.0	3.8	3.0	4.5
62	HM 8	2.5	2.5	4.0	2.0	2.0	2.5	NG	1.0	3.0	2.5	4.8
63	HM 9	2.5	2.5	3.0	2.0	1.5	2.0	2.1	1.0	3.5	3.0	4.3
64	Resistant Check	-	-	-	-	-	-	-	-	1.8	-	-
65	Susceptible Check	-	-	-	-	1.3	-	5.0	4.8	5.0	-	-
66	FR632H100	-	-	-	2.5	-	-	-	-	-	-	-
67	Local Check	4.0	4.0	-	-	-	3.5	-	-	-	-	-

Table : 2

S.NO	Pedigree	SDM	DM	RDM	BSDM	PFSR					ESR	P.RUST	C.RUST	CYST
		(%)	(%)	(%)	(1-5)	(1-9)	UDP	HYD	DHAU	PANT	(%)	(1-5)	(1-5)	Nema#
		MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	UDP	
1	NMH-3095	100.0	100.0	24.0	2.0	3.8	6.2	4.8	35.9	70.0	3.8	2.8	3-7	
2	PFMH- 96 I 41	100.0	100.0	72.0	3.0	7.3	5.8	5.0	24.5	71.4	3.8	2.9	16-20	
3	PFMH- 96 I 26	100.0	100.0	28.0	3.0	5.7	7.9	3.3	46.3	92.3	4.5	2.3	20-27	
4	PFMH- 96 N 46 (W)	100.0	100.0	72.0	3.0	3.7	6.7	5.0	12.7	47.1	3.8	3.0	25-33	
5	Bisco -2668	100.0	100.0	44.0	4.0	5.6	6.3	2.8	53.7	72.5	3.0	2.2	14-18	
6	KDMH 176	96.7	96.8	0.0	4.0	5.1	7.3	2.9	24.0	33.3	2.0	1.0	31-35	
7	Safal X-2	100.0	100.0	12.0	2.0	5.0	5.3	2.0	60.3	83.0	3.3	2.1	17-22	
8	X8B684	77.3	83.3	0.0	2.0	4.3	7.3	2.0	29.2	52.5	3.5	1.8	38-50	
9	X8B685	100.0	100.0	68.0	3.0	3.8	5.2	4.0	83.7	58.4	3.0	1.0	33-42	
10	KMH-48	95.5	85.0	0.0	2.0	4.0	6.3	4.0	37.5	26.7	4.3	2.4	17-24	
11	P3540	100.0	100.0	6.0	1.0	4.4	3.4	2.9	22.9	57.7	3.8	1.9	15-21	
12	Hy. P3293	100.0	100.0	80.0	3.0	3.9	5.7	2.9	16.9	65.6	2.0	2.8	11-17	
13	Hy. P3396	97.8	100.0	88.0	2.0	5.0	7.1	3.0	53.8	77.7	3.8	2.9	25-32	
14	X35A173	100.0	100.0	88.0	2.0	6.8	3.2	5.2	17.3	32.7	3.5	2.8	24-30	
15	X35A174	100.0	100.0	20.0	3.0	4.8	6.0	5.5	52.6	41.4	2.0	2.2	20-23	
16	JKMh-7014	98.1	100.0	56.0	3.0	4.5	3.8	2.2	40.7	57.3	3.8	3.0	23-28	
17	JKMh-7004	100.0	100.0	48.0	3.0	5.9	5.2	3.4	40.7	100.0	4.0	2.4	12-16	
18	S 6217	77.7	76.5	0.0	3.0	3.0	5.2	3.4	50.9	53.6	2.0	2.0	15-19	
19	S 6304	100.0	100.0	12.5	3.0	3.7	3.9	3.0	54.4	40.0	3.8	2.5	6-9	
20	JH 31404	89.5	80.0	16.7	2.0	3.2	6.3	5.5	24.6	9.1	2.0	2.3	17-28	
21	NMH-1242	100.0	100.0	72.0	2.0	5.3	5.8	4.0	29.0	31.1	2.0	2.6	13-20	
22	NMH-589 (Suvarna)	85.0	95.5	33.3	2.0	4.9	5.2	4.0	31.3	65.0	3.0	2.7	21-26	
23	VMH-4106	86.7	63.6	0.0	3.0	5.2	5.1	5.3	79.3	34.4	2.0	1.3	38-47	
24	KH-B63	63.2	84.0	0.0	1.0	4.1	6.2	4.8	17.6	58.9	2.0	1.4	28-34	
25	KH-B52	97.4	84.9	0.0	1.0	5.1	4.5	5.3	7.5	38.1	3.8	2.8	18-23	
26	KH-B55	100.0	86.8	8.0	1.0	3.9	4.7	2.8	6.5	25.0	3.8	2.4	20-28	
27	KNMH-401061	100.0	95.5	28.0	3.0	5.7	6.7	4.7	109.7	71.4	3.8	2.8	26-35	
28	CMH08-284	100.0	93.1	0.0	4.0	3.8	1.7	2.9	75.0	18.3	2.0	2.8	23-30	
29	CMH08-292	87.8	95.0	8.0	4.0	4.7	2.2	3.2	86.4	35.2	2.0	2.8	5-8	
30	CMH08-350	94.8	100.0	0.0	4.0	4.4	3.3	3.0	72.9	43.1	4.3	2.5	4-9	
31	CMH08-433	100.0	73.9	0.0	3.0	3.0	3.2	4.2	33.9	66.7	3.8	2.7	20-27	
32	Yuvraj Gold	100.0	100.0	0.0	2.0	5.0	6.3	3.0	37.5	79.2	2.0	2.8	15-24	
33	Titan	100.0	100.0	80.0	2.0	5.6	5.9	3.5	40.7	45.0	5.0	2.8	28-36	
34	IMH-111	84.2	100.0	68.0	2.0	4.2	7.5	3.0	43.5	41.7	3.0	2.4	17-21	

Table : 2

S.NO	Pedigree	SDM (%)	DM (%)	RDM (%)	BSDM (1-5)	PFSR (1-9)	UDP	HYD	ESR (%)	PANT	P.RUST (1-5)	C.RUST (1-5)	CYST Nema#
		MAND	COIM	UDP	DHAU	LUD			DHAU		MAND	ARB	UDP
35	IMH-666	94.4	100.0	4.0	3.0	6.5	5.3	2.0	57.9	87.1	4.5	3.0	15-18
36	SMH-9	100.0	75.0	48.0	3.0	6.1	5.0	4.1	46.8	75.0	3.5	2.5	31-40
37	AMH-2002	100.0	88.5	16.0	2.0	5.6	4.6	2.8	31.6	51.7	4.8	2.9	24-32
38	EHL 161708	100.0	100.0	20.0	2.0	6.8	4.3	4.1	34.5	70.0	3.0	3.1	21-27
39	EHL 163909	100.0	100.0	68.0	3.0	4.5	3.4	4.5	30.6	39.7	4.8	2.8	13-16
40	EHL 164810	98.1	100.0	48.0	4.0	6.3	5.1	3.0	66.7	61.7	5.0	2.4	30-38
41	EHL 164910	100.0	100.0	65.0	2.0	3.4	6.1	4.0	12.2	29.9	4.8	3.1	24-31
42	L230	97.9	95.0	56.0	3.0	6.9	5.1	2.8	51.8	68.9	4.8	1.9	33-44
43	EH-2074	100.0	100.0	76.0	2.0	5.8	4.5	2.6	16.0	43.8	4.8	2.5	17-22
44	EC-3161	92.9	100.0	20.0	2.0	4.3	4.6	5.0	29.2	61.1	4.5	2.9	15-19
45	BH41001	97.7	88.0	12.0	1.0	4.1	2.0	3.7	21.2	55.6	4.3	2.9	16-23
46	BH41009	100.0	100.0	4.0	2.0	5.5	3.6	4.5	48.4	40.1	4.0	3.0	14-20
47	BIO-688	100.0	100.0	64.0	3.0	4.9	4.6	2.9	15.9	56.1	4.3	1.9	22-31
48	BIO-151	69.8	63.6	10.0	2.0	4.2	3.8	2.9	19.6	33.3	2.0	1.5	11-16
49	HKH - 411	100.0	100.0	96.0	2.0	5.9	4.9	4.8	40.0	83.4	3.3	2.0	15-23
50	HKH - 412	100.0	100.0	96.0	4.0	4.8	4.9	2.0	43.8	60.0	3.8	3.0	23-27
51	HKH - 414	100.0	100.0	88.0	3.0	5.4	6.1	3.0	44.4	50.0	3.3	1.8	23-28
52	HKH - 316	100.0	100.0	80.0	2.0	4.5	3.3	4.0	17.1	28.8	4.8	3.0	11-14
53	REH 2009-15	100.0	95.7	52.0	2.0	5.0	6.0	5.7	40.4	37.5	4.3	2.5	29-36
54	REH 2009-18	91.3	95.5	25.0	2.0	4.3	5.5	2.1	18.9	47.1	4.3	2.2	26-32
55	REH 2009-20	100.0	100.0	63.1	2.0	5.8	5.0	2.8	50.0	36.1	4.3	2.4	33-38
56	MMH-09-1	100.0	83.3	26.0	2.0	4.5	6.0	2.9	46.7	100.0	2.0	2.0	22-30
57	MMH-09-2	100.0	100.0	72.0	2.0	4.7	6.0	5.0	11.4	38.8	4.8	2.6	30-37
58	MMH-09-3	100.0	100.0	68.4	2.0	5.9	5.2	4.9	64.0	54.2	3.5	1.9	31-41
59	MMH-09-4	100.0	100.0	40.0	2.0	5.1	3.9	3.0	12.5	74.2	4.8	2.8	15-24
60	Navjot	100.0	100.0	72.0	4.0	6.7	6.2	3.2	14.7	61.1	5.0	2.5	33-45
61	BIO 9637	100.0	100.0	44.0	3.0	5.3	5.8	3.9	19.5	16.7	2.0	2.8	37-48
62	HM 8	100.0	100.0	80.0	3.0	4.6	3.5	5.4	80.0	66.7	4.5	-	26-33
63	HM 9	100.0	12.5	75.0	3.0	6.3	4.5	5.1	26.3	46.4	3.0	2.9	27-36
64	Resistant Check	16.7	7.9	-	-	-	-	-	-	-	2.0	-	-
65	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	5.0	4.0	-
66	Surya	-	-	56.0	-	-	-	-	-	-	-	-	-
67	Local Check	-	-	-	-	-	4.8	6.2	-	-	-	-	34-45
68	Hm-9	-	-	-	-	-	8.5	-	-	-	-	-	-
69	FR632H100	-	-	-	-	5.5	-	-	-	-	-	-	-

range of cyst/ plant

Table : 3

Trial 63 : Evaluation of Maize Genotypes (IET early maturity) against various diseases of maize during Kharif 2010

S.NO	Pedigree	MLB (1-5)					TLB (1-5)				BLSB (1-5)	
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	ALM	MAND	DEL	PANT
1	KDMH 755	2.5	1.5	2.0	1.8	1.5	2.0	2.6	1.8	4.3	3.0	4.5
2	X7D610	2.5	2.0	3.0	2.3	1.3	3.0	2.4	1.8	5.0	3.0	5.0
3	X8F984	3.0	3.0	3.0	3.0	1.5	3.5	2.9	3.0	4.3	3.0	4.8
4	FH 3513	2.0	2.0	2.0	3.0	1.0	2.5	2.3	1.5	4.8	3.5	5.0
5	KMH-128	2.5	2.5	2.0	2.0	1.0	2.0	2.9	1.5	5.0	5.0	5.0
6	JKMH-7037	2.5	2.6	3.5	3.3	1.0	2.5	2.5	1.8	4.8	3.5	4.3
7	Hy. P 1635	2.5	2.8	3.5	2.5	1.0	3.5	3.2	1.8	5.0	3.5	4.3
8	X8B561	2.0	2.8	3.0	2.5	1.0	2.0	2.9	2.5	4.8	3.5	5.0
9	Hy. 31Y45	1.5	2.8	3.5	2.3	1.0	4.5	3.0	2.8	4.8	3.5	5.0
10	JH 31204	2.0	2.5	4.0	2.3	1.0	2.5	3.3	2.8	4.8	3.0	4.8
11	JH 31403	2.5	2.6	3.0	1.8	1.0	4.0	3.5	3.0	5.0	4.0	4.0
12	KH-101-Gold	2.0	2.8	3.5	2.8	1.0	3.0	3.5	1.5	4.5	3.0	4.5
13	Sun - Vaaman	2.5	2.2	2.0	1.8	1.0	2.0	2.7	2.0	4.3	4.0	5.0
14	Sun - 306	1.5	2.8	2.5	2.3	1.0	1.5	2.5	2.3	4.5	3.5	5.0
15	KNMH-4010141	1.5	2.5	2.5	1.8	1.0	1.5	2.0	2.3	4.5	3.5	4.3
16	L210	3.5	3.0	3.0	2.8	1.8	3.0	2.6	1.5	4.8	3.0	5.0
17	EH-2094	2.0	2.2	2.0	2.0	1.0	2.0	2.4	2.0	4.8	3.0	4.0
18	VEH-10-1	2.0	3.0	4.5	3.3	1.0	2.0	3.1	2.8	5.0	4.0	4.8
19	WH-2051	3.0	2.6	3.0	2.0	1.5	2.5	3.1	2.0	5.0	4.0	4.5
20	WH-2058	2.0	3.0	3.5	2.5	1.5	2.0	3.2	1.8	5.0	3.5	5.0
21	JH-3459	1.5	2.0	2.5	1.5	1.3	2.0	2.9	1.8	5.0	3.5	5.0
22	Prakash	1.0	2.8	3.0	1.8	1.0	1.5	3.5	2.0	5.0	3.0	4.5
23	REH 2009-11	2.0	2.8	2.5	2.3	1.0	2.0	2.4	1.8	4.3	3.5	5.0
24	REH 2009-12	2.5	2.2	2.0	2.5	1.8	2.0	2.6	1.5	4.3	3.5	5.0
25	HKH - 317	3.0	3.0	3.0	2.5	1.8	2.0	NG	1.5	3.5	3.5	5.0
26	HKH - 318	-	2.8	-	2.0	1.5	-	NG	1.5	NG	3.0	5.0
27	Resistant Check	-	-	-	-	-	-	-	-	2.0	-	-
28	Susceptible Check	-	-	-	-	2.0	-	5.0	3.8	5.0	-	-
29	FR632H100	-	-	-	2.5	-	-	-	-	-	-	-
30	Local Check	-	4.0	-	-	-	-	-	-	-	-	-

NG - Not Germinated

TABLE : 3

S.NO	Pedigree	SDM	DM	RDM	BSDM	PFSR			ESR		P.RUST	C.RUST	CYST	
		(%)	(%)	(%)	(1-5)	(1-9)			(%)	(1-5)	(1-5)	Nema#		
		MAND	COIM	UDP	DHAU	PANT	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	UDP
1	KDMH 755	25.0	62.5	0.0	2.0	62.5	5.8	4.5	4.4	30.0	16.7	2.0	1.9	6-9
2	X7D610	100.0	100.0	92.0	2.0	100.0	3.3	3.8	6.0	23.2	30.7	3.3	1.5	32-40
3	X8F984	100.0	100.0	100.0	2.0	100.0	6.5	7.0	5.1	8.8	70.8	3.8	2.2	21-28
4	FH 3513	70.5	73.7	0.0	2.0	73.7	7.4	4.0	5.2	10.9	77.8	4.5	2.5	15-18
5	KMH-128	80.0	100.0	32.0	3.0	100.0	4.4	5.5	4.1	42.9	80.0	5.0	2.9	29-37
6	JKMH-7037	45.6	59.1	0.0	2.0	59.1	6.8	4.2	3.5	16.9	74.5	3.3	1.8	11-16
7	Hy. P 1635	100.0	100.0	76.0	2.0	100.0	7.8	7.4	3.0	36.4	54.7	3.8	2.0	31-37
8	X8B561	100.0	100.0	100.0	2.0	100.0	3.4	6.0	3.1	10.7	37.5	3.8	3.0	5-9
9	Hy. 31Y45	100.0	100.0	88.0	3.0	100.0	6.3	8.2	3.2	38.6	60.6	4.5	2.5	25-34
10	JH 31204	100.0	100.0	84.0	2.0	100.0	5.4	4.9	4.0	42.9	70.9	4.3	2.0	15-20
11	JH 31403	100.0	100.0	92.0	2.0	100.0	4.0	2.9	5.0	28.3	65.0	4.0	1.5	13-17
12	KH-101-Gold	100.0	94.1	38.8	3.0	94.1	6.7	5.4	2.9	31.4	70.0	2.0	2.7	26-31
13	Sun - Vaaman	97.6	92.6	0.0	2.0	92.6	36.8	6.2	3.0	32.8	71.4	4.3	1.8	17-23
14	Sun - 306	90.4	100.0	8.3	3.0	100.0	5.4	6.0	3.9	22.4	61.1	3.5	3.0	29-35
15	KNMH-4010141	90.5	100.0	4.1	2.0	100.0	3.2	6.7	5.4	14.1	16.4	3.5	2.0	10-14
16	L210	100.0	100.0	48.0	2.0	100.0	5.6	6.7	5.5	17.2	45.7	3.3	2.4	22-30
17	EH-2094	100.0	100.0	40.0	2.0	100.0	4.8	5.5	3.2	20.0	50.0	4.0	3.2	4-8
18	VEH-10-1	85.4	100.0	33.3	2.0	100.0	3.1	7.3	4.5	29.6	23.3	4.0	2.0	23-29
19	WH-2051	100.0	100.0	32.0	3.0	100.0	5.5	6.5	2.9	34.9	100.0	4.3	2.0	18-22
20	WH-2058	100.0	100.0	50.0	3.0	100.0	5.3	7.2	4.3	31.1	50.0	4.0	2.5	25-33
21	JH-3459	100.0	100.0	89.4	1.0	100.0	5	4.3	4.0	29.5	40.0	3.5	1.9	17-24
22	Prakash	100.0	100.0	66.6	1.0	100.0	4.7	5.5	3.9	16.3	53.9	4.3	1.5	20-27
23	REH 2009-11	59.3	92.9	20.0	2.0	92.9	3.7	6.3	5.0	13.3	57.5	3.8	2.8	32-37
24	REH 2009-12	100.0	96.7	20.0	1.0	96.7	5.5	7.3	3.1	22.5	60.0	3.8	2.7	10-16
25	HKH - 317	100.0	100.0	20.0	2.0	100.0	4.9	4.4	5.2	0.0	50.0	4.3	NG	17-24
26	HKH - 318	78.1	100.0	100.0	3.0	100.0	7.3	NG	3.4	0.0	100.0	-	NG	11-15
27	Resistant Check	17.2	7.9	-	-	7.9	-	-	-	-	-	NG	-	-
28	Susceptible Check	100.0	100.0	-	-	100.0	-	-	-	-	-	2.0	4.5	-
29	Surya	-	-	63.0	-	-	-	-	-	-	-	5.0	-	-
30	HM-9	-	-	-	-	-	-	8.8	-	-	-	-	-	-
31	FR632H100	-	-	-	-	-	5.8	-	-	-	-	-	-	-
32	Local Check	-	-	-	-	-	-	-	5.9	-	-	-	-	30-39

NG – Not Germinate
range of cyst/ plant

Table : 4

S.NO	Pedigree	SDM	DM	RDM	BSDM	PFSR				ESR	P.RUST	C.RUST	CYST
		(%)	(%)	(%)	(1-5)	(1-9)	UDP	HYD	(%)	(1-5)	(1-5)	Nema#	
		MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	UDP
1	FH 3510	100.0	100.0	48.0	2.0	7.8	3.4	5.2	22.6	65.0	4.8	2.6	15-22
2	FH 3520	100.0	100.0	8.0	3.0	6.3	4.9	5.8	23.5	75.0	5.0	2.9	13-19
3	FH 3521	100.0	50.0	0.0	2.0	5.8	4.7	4.7	25.0	52.8	5.0	2.9	14-21
4	FH 3525	100.0	100.0	56.0	2.0	8.1	7.3	4.5	21.1	42.4	4.5	2.5	16-23
5	33H25	100.0	100.0	100.0	3.0	7.6	5.0	5.0	27.1	59.7	4.8	2.7	12-19
6	Hy. P 1453	100.0	100.0	33.3	2.0	8.4	6.1	4.4	12.9	100.0	5.0	3.0	16-25
7	KH-9888	97.2	100.0	64.7	2.0	8.7	3.9	5.5	30.0	33.3	5.0	3.1	18-26
8	DH-192	100.0	100.0	68.0	2.0	6.9	6.7	5.5	5.1	56.1	4.3	3.1	27-38
9	DH-193	100.0	100.0	14.2	3.0	8.1	7.5	5.2	25.5	77.4	3.5	2.5	44-60
10	DH-194	100.0	100.0	50.0	4.0	4.4	6.8	6.0	38.6	69.5	5.0	2.5	28-42
11	Vivek QPM 9	86.7	100.0	27.7	3.3	8.8	6.6	6.1	44.8	56.1	4.3	3.0	52-64
12	Vivek Hybrid 9	100.0	100.0	81.8	3.0	7.1	7.8	6.0	17.5	78.6	5.0	2.8	42-50
13	HM-7	100.0	100.0	100.0	3.0	7.0	NG	4.0	50.0	75.0	4.8	3.0	48-55
14	Resistant Check	10.5	9.8	-	-	-	-	-	-	-	2.0	-	-
15	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	5.0	4.0	-
16	Surya	-	-	50.0	-	-	-	-	-	-	-	-	-
17	Local Check	-	-	-	-	-	5.4	6.2	-	-	-	-	34-42
18	HM-9	-	-	-	-	-	9.0	-	-	-	-	-	-
19	FR632H100	-	-	-	-	6.6	-	-	-	-	-	-	-

NG : Not germinate

range of cyst/ plant

Table : 5

Trial 75 : Evaluation of Maize Genotypes (full season maturity) against various diseases of maize during Kharif 2010

S.NO	Pedigree	MLB (1-5)					TLB (1-5)					BLSB (1-5)	
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	BAP	ALM	MAND	DEL	PANT
	AET 1st YEAR												
1	DMRNSCH2	1.5	1.5	2.0	2.5	1.5	1.5	2.6	1.4	1.5	4.5	3.5	4.8
2	Bisco -74	2.5	2.0	2.5	2.3	1.0	1.5	2.7	1.7	2.0	3.3	3.5	4.8
3	X8B562	2.0	2.0	2.5	1.8	1.0	1.5	3.0	2.1	1.5	4.0	3.0	4.3
4	KMH-3670	3.0	2.5	3.5	2.8	1.0	1.5	1.8	1.0	1.8	3.5	2.0	5.0
5	KMH-548	1.5	2.8	3.0	2.0	1.0	1.0	2.8	2.9	1.8	3.3	3.0	3.8
6	JKMH 7005	1.5	2.0	1.5	1.5	1.0	1.5	2.8	3.0	2.5	4.5	3.0	4.0
7	JKMH 8033	2.0	2.6	3.0	2.8	1.0	2.5	3.2	4.6	1.8	4.3	3.0	4.3
8	PRO 378	1.0	2.5	2.5	1.8	1.3	2.0	2.9	1.9	1.5	3.5	2.5	4.0
9	NK 6246	1.5	2.6	3.0	2.3	1.0	1.5	2.9	2.5	1.8	4.3	3.0	4.3
10	NK 6267/NH 6267	2.5	2.5	3.5	2.5	1.5	2.0	2.1	3.1	1.3	3.8	3.0	4.8
11	NMH-731	2.5	2.6	2.5	1.5	1.0	2.0	2.5	1.5	2.0	2.0	3.5	5.0
12	NMH-958	1.5	2.8	2.0	2.3	1.0	1.5	2.5	1.5	1.5	3.3	2.0	4.5
13	NMH-920	1.5	1.5	1.5	1.8	1.3	1.0	2.3	1.3	1.8	3.3	3.0	5.0
14	IDX 2901	2.0	2.5	2.5	2.3	1.0	1.0	1.8	1.7	2.0	3.5	4.5	4.3
15	C1945	1.5	2.5	3.0	2.3	1.3	2.0	3.3	3.5	1.8	4.5	3.0	3.8
16	KH-404	3.0	2.8	2.0	2.0	1.0	2.0	2.6	3.1	2.0	3.8	4.0	5.0
17	MAIZE POLO	3.0	2.8	3.5	2.3	1.0	2.0	2.5	2.1	2.0	4.5	3.0	4.8
18	BMH-107	3.0	2.5	3.5	3.0	1.3	2.0	3.0	2.4	2.3	3.5	3.5	4.8
19	BMH-109	1.5	2.5	3.0	2.3	1.5	1.0	2.7	1.6	1.5	4.5	3.5	5.0
20	CMH 08-156	1.5	2.2	2.0	1.5	1.3	1.0	1.8	1.4	1.8	4.3	4.0	4.5
21	CMH 08-154	2.0	2.5	1.5	2.5	1.3	1.5	2.0	1.5	1.3	4.3	3.0	4.0
22	CMH 08-282	1.5	2.0	2.0	2.0	1.3	1.0	2.3	1.4	1.5	4.5	3.5	3.5
23	Laxmi Gold	2.5	2.5	2.0	2.3	1.0	1.0	2.9	1.4	1.8	4.0	4.0	5.0
24	JH-11662(1R) 2009	2.0	2.2	2.0	1.8	1.0	1.5	2.0	2.8	1.8	4.0	3.5	3.3
25	JH-12114 (2R)	2.0	2.6	2.0	2.0	1.5	1.5	1.4	2.1	1.3	4.8	3.5	4.5
26	JH-11858 (2R) 2009	2.0	2.4	2.0	1.8	1.0	1.5	3.3	2.1	2.3	4.0	3.5	4.5
27	BIO-265	1.5	2.4	3.5	1.8	1.3	1.5	3.0	2.0	1.5	3.5	3.5	4.8
28	OM 7878	1.5	2.5	3.5	1.8	1.3	1.5	2.3	1.7	1.5	3.3	3.0	5.0
29	Amar 6669	2.5	2.8	2.5	2.8	1.0	1.5	2.2	2.9	2	3.8	3.5	4.5

S.NO	Pedigree	MLB					TLB					BLSB		
		(1-5)					(1-5)					(1-5)		
		BAJ	DHO	DEL	LUD	ALM	BAJ	ARB	BAP	ALM	MAND	DEL	PANT	
30	KF-105	2.0	2.8	3.0	2.3	-	1.0	2.5	1.7	1.8	4.8	4.0	4.8	
31	MCH 40	2.0	2.2	1.5	1.8	-	1.0	2.3	1.3	2.0	4.0	3.5	4.8	
	AET 2nd YEAR													
32	MCH 38	2.0	2.0	1.5	1.5	-	1.0	2.8	1.5	2.8	3.5	2.0	4.3	
33	PAC745	2.5	2.2	2.5	1.8	-	1.5	2.0	1.6	1.8	3.8	3.5	4.3	
34	PFMH- 9737	2.0	2.8	3.0	2.8	-	1.0	2.8	2.3	1.8	3.3	3.0	4.5	
35	PHS-520247	1.5	2.8	2.5	1.8	-	2.0	2.7	2.2	1.8	4.0	4.0	4.8	
36	X7B401	2.0	2.5	2.0	1.8	-	2.5	3.1	4.5	2.0	3.8	3.0	3.5	
37	Seedtec 2324	1.5	2.8	2.5	2.0	1.3	2.5	2.0	2.1	1.8	3.5	3.0	5.0	
38	BIO 9681	2.5	2.5	2.5	2.8	1.3	2.0	1.9	1.5	1.5	3.5	4.5	5.0	
39	Prakash	2.5	2.6	3.5	2.5	-	2.0	3.5	4.6	2.8	5.0	3.0	5.0	
40	Resistant Check	-	-	-	-	-	-	3.5	-	-	1.8	-	-	
41	Susceptible Check	-	-	-	-	2.0	-	5.0	-	3.8	4.8	-	-	
42	FR632H100	-	-	-	2.5	-	-	-	-	-	-	-	-	
	Local Check	4.0	4.0	-	-	-	4.5	-	-	-	-	-	-	

Table : 5

S.NO	Pedigree AET 1st YEAR	SDM (%) MAND	DM (%) COIM	RDM (%) UDP	BSDM (1-5) DHAU	PFSR (1-9) LUD	UDP	HYD	ESR (%) DHAU	PANT	P.RUST (1-5) MAND	C.RUST (1-5) ARB
1	DMRNSCH2	94.4	100.0	36.3	2.0	4.3	3.0	6.5	4.9	28.0	4.0	2.5
2	Bisco -74	100.0	100.0	5.0	2.0	5.7	7.4	5.8	18.6	79.2	3.8	2.5
3	X8B562	100.0	100.0	23.8	3.0	4.6	5.3	5.8	21.3	60.6	2.0	1.0
4	KMH-3670	85.0	100.0	5.8	3.0	6.0	6.3	5.2	21.8	75.0	3.3	1.4
5	KMH-548	92.3	100.0	25.0	2.0	3.9	7.6	4.4	12.9	21.2	3.5	1.8
6	JKMH 7005	24.5	22.7	0.0	2.0	3.5	7.6	4.8	16.1	20.8	3.8	1.0
7	JKMH 8033	100.0	100.0	68.1	2.0	8.8	6.4	4.0	22.2	35.7	4.8	2.4
8	PRO 378	100.0	100.0	0.0	3.0	8.3	6.7	3.5	1.8	40.0	2.0	1.9
9	NK 6246	100.0	95.8	0.0	1.0	4.1	6.6	5.0	31.1	50.6	3.8	2.5
10	NK 6267/NH 6267	94.4	95.7	8.0	3.0	3.7	5.2	5.8	45.5	57.5	4.5	3.0
11	NMH-731	100.0	100.0	16.0	2.0	7.3	7.3	5.6	35.3	69.4	4.3	3.1
12	NMH-958	100.0	100.0	42.8	2.0	5.4	6.4	6.3	36.4	27.8	3.8	2.5
13	NMH-920	100.0	100.0	14.2	2.0	8.3	7.5	6.0	35.3	96.7	3.3	2.3
14	IDX 2901	88.9	93.3	12.0	2.0	4.7	5.5	4.3	10.4	64.1	4.0	2.5
15	C1945	82.1	100.0	64.7	1.0	7.6	7.2	4.6	26.2	26.7	4.3	2.8
16	KH-404	47.9	100.0	0.0	2.0	4.8	5.3	4.3	36.5	48.1	2.0	2.0
17	MAIZE POLO	100.0	100.0	9.5	3.0	6.6	6.9	4.2	41.3	83.4	3.8	2.5
18	BMH-107	100.0	100.0	72.0	2.0	7.5	5.1	5.4	25.4	81.8	3.8	3.0
19	BMH-109	97.7	100.0	26.0	2.0	7.5	6.5	6.5	7.0	100.0	4.5	3.0
20	CMH 08-156	78.1	94.4	0.0	2.0	2.9	5.0	4.3	21.2	53.9	2.0	2.3
21	CMH 08-154	100.0	100.0	65.0	2.0	4.8	2.7	5.4	0.0	52.1	2.0	1.8
22	CMH 08-282	55.0	75.0	0.0	2.0	3.9	3.8	4.2	3.0	68.9	4.0	2.4
23	Laxmi Gold	100.0	100.0	57.8	2.0	5.8	6.7	6.3	14.3	82.9	4.5	2.7
24	JH-11662(1R) 2009	22.2	47.4	0.0	2.0	3.4	5.8	5.5	4.9	55.0	4.3	1.8
25	JH-12114 (2R)	69.4	100.0	0.0	1.0	6.9	3.5	4.8	3.9	26.9	4.8	3.3
26	JH-11858 (2R) 2009	24.9	54.5	0.0	1.0	3.1	4.1	5.6	6.1	23.6	3.8	3.0
27	BIO-265	85.0	100.0	33.3	1.0	4.2	5.4	5.2	8.9	49.5	3.5	1.3
28	OM 7878	81.8	95.2	40.0	2.0	6.2	4.4	4.3	9.8	48.7	3.3	2.4
29	Amar 6669	100	100.0	72.2	3.0	6.6	5.9	4.8	47.1	75.0	2.0	1.5
30	KF-105	92.9	95.0	8.0	2.0	7.1	3.8	4.1	27.1	60.4	4.8	3.3
31	MCH 40	75.0	94.7	12.0	1.0	5.1	5.0	5.1	0.0	19.4	3.3	2.2

Contd.

Table : 5

S.NO	Pedigree AET 2nd YEAR	SDM (%) MAND	DM (%) COIM	RDM (%) UDP	BSDM (1-5) DHAU	PFSR (1-9) LUD	UDP	HYD	ESR (%) DHAU	PANT	P.RUST (1-5) MAND	C.RUST (1-5) ARB
32	MCH 38	51.9	83.3	25.0	1.0	4.6	6.5	5.8	8.1	73.4	2.0	2.4
33	PAC745	75.0	90.9	0.0	1.0	4.2	7.0	6.0	11.1	56.3	3.8	2.0
34	PFMH- 9737	92.1	100.0	66.6	2.0	6.1	7.4	5.7	14.9	45.5	3.8	2.5
35	PHS-520247	92.5	100.0	31.2	1.0	6.0	6.9	5.7	10.6	56.4	2.0	1.9
36	X7B401	100.0	100.0	48.0	1.0	4.4	4.3	6.2	12.9	100.0	2.0	1.4
35	Seedtec 2324	100.0	88.9	20.0	2.0	5.1	5.9	4.4	12.3	53.0	3.3	2.3
38	BIO 9681	100.0	88.9	50.0	2.0	7.3	5.9	4.5	9.1	48.4	4.3	2.5
39	Prakash	100.0	100.0	75.0	2.0	5.0	7.6	4.0	9.7	26.7	4.0	2.0
40	Resistant Check	16.2	7.0	-	-	-	-	-	-	-	2.0	-
41	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	4.8	4.0
42	Surya	-	-	64.0	-	-	-	-	-	-	-	-
43	Local Check	-	-	-	-	-	5.5	7.0	-	-	-	-
44	HM-9	-	-	-	-	-	8.7	-	-	-	-	-
45	FR632H100	-	-	-	-	7.4	-	-	-	-	-	-

Table :6		SDM	DM	RDM	BSDM	PFSR				ESR	P.RUST		C.RUST
		(%)	(%)	(%)	(1-5)	(1-9)				(%)	(1-5)	(1-5)	
S.NO	Pedigree	MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	
AET 1st YEAR													
1	KDMH 017	100.0	93.8	31.5	2.0	4.1	4.7	5.2	29.3	46.4	3.0	2.3	
2	X8B557	97.2	94.7	20.0	2.0	4.8	3.4	6.0	17.1	21.7	2.0	1.0	
3	X8B691	100.0	95.2	35.3	2.0	4.6	5.0	4.5	15.7	66.7	2.0	1.0	
4	KMH-218 Plus	61.5	100.0	60.0	3.0	3.4	6.6	4.6	13.6	49.5	3.8	1.8	
5	KMH-3426	100.0	100.0	44.4	3.0	4.4	4.9	5.4	32.5	54.1	4.0	2.0	
6	JH 31292	100.0	100.0	47.3	2.0	3.2	6.4	5.6	30.0	11.7	3.8	1.7	
7	JH 31285 (1R)	100.0	100.0	45.8	1.0	3.3	5.0	5.1	21.6	41.7	4.5	3.0	
8	NMH-803	100.0	100.0	17.4	1.0	5.9	6.3	4.9	13.0	50.0	3.8	1.8	
9	Mukhya-108	100.0	100.0	70.8	2.0	5.3	6.6	4.6	2.0	68.8	4.0	2.4	
10	Sarpunch-171	100.0	100.0	87.0	2.0	4.2	3.5	4.5	9.6	62.0	2.0	2.0	
11	HKH-313	100.0	100.0	21.0	2.0	3.5	7.5	6.2	0.0	0.0	2.0	1.7	
12	VEH-09-2	100.0	100.0	100.0	1.0	6.3	4.6	5.9	0.0	50.0	4.8	3.1	
13	MCH 42	100.0	100.0	66.6	1.0	3.5	6.3	5.4	76.9	19.5	3.5	2.5	
AET 2nd YEAR													
14	BL 2802	95.8	100.0	8.7	2.0	4.3	6.5	5.1	10.0	31.3	2.0	1.5	
15	EC-3160	100.0	100.0	15.0	2.0	5.3	5.2	5.4	11.1	56.7	4.8	3.0	
16	EH-1858	100.0	92.3	58.3	1.0	5.5	5.7	4.3	12.8	100.0	5.0	3.0	
17	JH 31242	100.0	100.0	40.0	1.0	4.9	6.4	4.7	3.7	42.9	4.8	2.1	
18	KH-717	54.9	84.2	56.0	2.0	6.8	7.0	5.5	8.3	53.5	3.5	3.0	
19	KH-9452	90.4	100.0	0.0	3.0	7.3	4.9	5.2	15.9	58.3	4.8	2.8	
20	KMH-3712	97.7	100.0	20.0	2.0	6.0	5.4	5.2	23.3	71.4	3.3	2.7	
21	MCH 37	100.0	100.0	20.8	2.0	3.5	5.9	4.6	8.9	78.9	4.0	2.3	
22	VMH 4060	100.0	100.0	31.2	2.0	5.2	3.9	4.4	10.6	80.3	3.8	2.0	
23	HM 8	100.0	100.0	48.9	2.0	4.7	NG	4.4	25.0	0.0	3.3	NG	
24	HM 9	100.0	100.0	100.0	2.0	5.9	3.9	4.3	0.0	25.0	3.3	2.6	
25	Resistant Check	11.2	8.8	-	-	-	-	-	-	-	2.0	-	
26	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	5.0	4.3	
27	Surya	-	-	58.3	-	-	-	-	-	-	-	-	
28	Local Check	-	-	-	-	-	5.5	7.0	-	-	-	-	
29	HM-9	-	-	-	-	-	8.6	-	-	-	-	-	
30	FR632H100	-	-	-	-	4.5	-	-	-	-	-	-	

NG – Not Germinate

Table :7

S.NO	Pedigree	SDM	DM	RDM	BSDM	PFSR					ESR	P.RUST	C.RUST			
		(%)	(%)	(%)	(1-5)	(1-9)	MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND
AET 1st Year																
1	FH 3506	100.0	88.9	0.0	1.0	5.5	5.8	5.2	2.0	100.0	3.5	2.8				
2	JH 31236 (2R)	100.0	100.0	52.0	2.0	4.8	4.9	4.4	24.1	35.2	3.8	1.4				
3	85-08-11 (2009)	73.0	94.1	0.0	2.0	3.7	4.5	4.6	2.1	78.6	3.3	2.9				
4	KH-9560	100.0	100.0	42.8	2.0	4.7	5.2	5.4	26.8	62.5	3.8	1.9				
5	BIO-605	100.0	86.7	0.0	2.0	5.0	4.4	5.6	4.2	66.7	4.5	2.5				
6	REH 2001	97.2	88.2	24.0	2.0	5.5	5.4	4.6	13.6	39.2	4.0	1.9				
7	REH 2002	97.1	100.0	38.8	2.0	5.2	5.7	5.0	25.0	100.0	3.8	2.5				
8	REH 2003	100.0	100.0	12.5	3.0	5.2	4.7	4.4	12.5	50.0	4.0	2.8				
AET 2nd Year																
9	R 2006-1	97.2	94.7	26.6	2.0	5.3	6.5	5.8	19.0	0.0	4.0	2.8				
10	R 2007-1	100.0	81.8	21.0	2.0	5.5	5.0	4.9	20.4	54.1	3.8	2.3				
11	Prakash	100.0	100.0	56.0	2.0	5.6	7.1	5.0	7.3	75.0	3.8	2.0				
12	JH-3459	100.0	100.0	52.9	2.0	5.2	5.9	4.5	4.7	56.3	3.3	1.5				
13	Resistant Check	12.0	7.1	-	-	-	-	-	-	-	2.0	-				
14	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	5.0	4.5				
15	Surya	-	-	52.2	-	-	-	-	-	-	-	-				
16	Local Check	-	-	-	-	-	4.5	7.0	-	-	-	-				
17	HM-9	-	-	-	-	-	8.8	-	-	-	-	-				
18	FR632H100	-	-	-	-	6.4	-	-	-	-	-	-				

Table : 8

Trial 78 : Evaluation of Maize Genotypes (extra early maturity) against various diseases of maize during Kharif 2010

S.NO	Pedigree	MLB (1-5)					TLB (1-5)					BLSB (1-5)		
		BAJ	DHO	DEL	RANCHI	LUD	ALM	BAJ	ARB	BAP	ALM	MAND	DEL	PANT
	AET 1st Year													
1	FH 3478	1.5	1.5	2.5	2.0	2.3	1.0	1.5	2.4	2.2	1.8	4.3	4.0	5.0
2	FH 3483	2.0	1.0	2.0	1.5	1.8	1.0	1.5	2.1	3.2	1.8	4.5	4.0	5.0
3	FH 3487	2.0	1.5	3.5	2.5	2.0	1.3	1.5	2.4	2.7	1.5	4.8	4.5	4.8
4	FH 3488	1.0	1.2	1.5	1.4	1.5	1.0	1.0	2.2	1.8	1.8	5.0	4.5	5.0
5	DH-179	2.5	2.8	4.0	3.4	3.3	1.8	1.5	2.9	3.3	2.5	4.0	3.0	5.0
6	DH-177	2.5	2.6	4.5	3.6	3.5	1.0	1.0	2.8	4.6	2.5	4.8	4.0	5.0
7	Vivek QPM 9	3.0	2.5	3.0	2.8	2.0	1.3	1.5	2.7	3.7	1.8	5.0	4.5	4.5
8	Vivek Hybrid 9	2.5	2.2	3.0	2.6	2.0	1.0	1.5	2.5	2.9	2.3	4.8	4.5	5.0
9	Resistant Check	-	-	-	-	-	-	-	-	-	-	2.0	-	-
10	Susceptible Check	-	-	-	-	-	1.5	-	5.0	-	3.8	5.0	-	-
11	FR632H100	-	-	-	-	2.5	-	-	-	-	-	-	-	-
	Local Check	-	4.0	-	-	-	-	-	-	-	-	-	-	-

Table : 8

S.NO	Pedigree	SDM (%)	DM (%)	RDM (%)	BSDM (1-5)	PFSR (1-9)	ESR (%)				P.RUST (1-5)	C.RUST (1-5)	
		MAND	COIM	UDP	DHAU	LUD	UDP	HYD	DHAU	PANT	MAND	ARB	
	AET 1st Year												
1	FH 3478	100.0	96.4	52.1	2.0	8.4	3.3	4.9	5.5	46.6	4.8	3.1	
2	FH 3483	100.0	100.0	8.0	3.0	6.6	5.2	5.5	13.0	66.7	4.0	2.3	
3	FH 3487	100.0	100.0	33.3	2.0	7.7	4.9	5.0	7.3	60.0	4.8	3.1	
4	FH 3488	87.5	100.0	0.0	3.0	6.3	5.0	5.3	13.2	71.7	4.5	2.9	
5	DH-179	97.4	100.0	31.2	3.0	7.3	6.9	4.1	10.0	79.2	4.5	2.5	
6	DH-177	100.0	100.0	16.6	3.0	7.5	7.4	4.3	16.3	76.7	4.8	3.1	
7	Vivek QPM 9	100.0	100.0	5.8	2.0	6.1	7.9	4.7	6.7	90.0	4.0	2.5	
8	Vivek Hybrid 9	100.0	100.0	35.7	2.0	8.0	7.8	4.7	4.4	80.0	4.8	3.3	
9	Resistant Check	12.7	7.0	-	-	-	-	7.2	-	-	2.0	-	
10	Susceptible Check	100.0	100.0	-	-	-	-	-	-	-	5.0	5.0	
11	Surya	-	-	59.0	-	-	-	-	-	-	-	-	
12	Local Check	-	-	-	-	-	3.5	-	-	-	-	-	
13	HM-9	-	-	-	-	-	8.3	-	-	-	-	-	
14	FR632H100	-	-	-	-	8.6	-	-	-	-	-	-	

Table : 9

Table: 9

Trap Nursery - Evaluation of Genotype against various Maize diseases in natural environmental condition during Kharif 2010

S.No	Pedigree	MLB (1-5)									TLB (1-5)					
		RANCHI	UDP	DEL	DHAU	LUD	BAP	ALM	BAJ	DHO	HYD	ARB	ALM	MAND	BAP	BAJ
1	HKI 163	1.5	3.0	2.0	3.0	2.5	0.5	2.8	3.0	2.0	2.8	3.0	2.0	2.0	0.0	3.0
2	HKI 193-1	2.0	1.5	3.5	3.0	4.0	4.5	3.5	4.0	2.5	2.0	2.5	1.5	2.5	1.0	2.0
3	HKI 1105	2.0	2.0	3.5	2.0	4.5	3.0	3.0	4.0	3.0	3.0	3.5	2.5	3.0	0.0	2.0
4	HKI 1344	2.5	0.5	2.5	2.0	2.5	1.0	1.8	3.0	2.5	3.0	3.0	1.5	2.0	1.8	2.0
5	HKI 1352	2.5	2.0	3.0	1.0	3.0	2.5	3.0	2.0	2.8	2.6	2.5	1.5	2.5	0.3	2.0
6	HKI 323	2.0	2.5	3.0	3.0	0.0	2.5	3.5	2.0	3.0	3.5	3.0	1.5	3.0	0.0	3.5
7	LM 5	2.0	Tr	2.0	2.0	3.5	1.0	2.3	2.0	2.5	3.5	3.0	2.0	4.0	0.3	4.0
8	CM 115	1.5	1.5	5.0	3.0	3.5	0.0	3.0	3.0	2.8	2.6	3.0	1.5	4.0	0.0	2.5
9	CM 212	2.5	1.5	4.5	4.0	4.5	0.0	3.8	2.5	3.0	2.0	2.5	3.0	3.5	0.0	4.0
10	JCY2-7-1	1.5	-	2.0	2.0	3.0	1.0	1.0	1.5	2.5	1.8	2.5	1.0	3.5	0.3	2.0
11	Local check	-	2.0	-	-	-	-	-	-	-	3.8	-	-	-	-	-

S.No.	Pedigree	BLSB (1-5)			PFSR (1-9)			PFSR (%)			CLS (1-5)		RDM (%)	BSDM (1-5)	ESR (%)	SDM (%)
		UDP	BAJ	PANT	DHAU	HYD	UDP	DEL	LUD	UDP	BAJ	DHAU	UDP	DHAU	PANT	MAND
1	HKI 163	-	1.0	5.0	1.0	1.5	-	66.6	4.8	Tr.	2.0	2.0	5.8	2.0	100.0	85.0
2	HKI 193-1	-	1.5	NG	1.0	3.7	-	40.0	6.8	Tr.	2.0	3.0	-	1.0	NG	95.0
3	HKI 1105	-	1.5	NG	2.0	4.9	-	76.9	6.4	Tr.	2.0	3.0	-	3.0	NG	90.0
4	HKI 1344	-	1.5	NG	1.0	5.0	4.2	87.5	2.8	Tr.	2.0	3.0	-	2.0	NG	75.0
5	HKI 1352	-	1.5	NG	1.0	2.0	-	75.0	5.6	3.5	2.0	3.0	-	1.0	NG	85.0
6	HKI 323	-	1.5	NG	3.0	5.2	-	50.0	0.0	3.0	2.0	2.0	-	2.0	NG	80.0
7	LM 5	2.0	2.0	NG	1.0	4.0	3.5	0.0	4.4	2.0	2.5	2.0	-	2.0	NG	75.0
8	CM 115	-	1.5	NG	2.0	5.7	-	100.0	8.6	2.0	2.0	3.0	-	3.0	NG	85.0
9	CM 212	-	2.0	5.0	2.0	2.2	-	100.0	6.8	Tr	1.5	2.0	-	2.0	100.0	75.0
10	JCY2-7-1	-	2.0	NG	1.0	1.3	-	25.0	4.2	Tr	1.5	2.0	-	1.0	NG	90.0
11	Local check	1.0	-	-	-	6.5	4.5	-	-	2.0	-	-	35.0	-	-	-
12	Sus. Check	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100.0

NG- Not Germination

Table : 9

S.No	Pedigree	PSR	Rust		P.Rust	B.S	C.Rust	Other Diseases
		(%) DEL	(1-5) HYD	ARB	(1-5) MAND	(1-5) DHAU	(1-5) BAP	MAND
1	HKI 163	23.1	1.0	3.0	3.0	-	1.8	-
2	HKI 193-1	0.0	1.5	3.0	3.0	-	0.0	Maydis Leaf Blight
3	HKI 1105	0.0	1.0	2.5	3.5	2.0	0.0	PFSR, Phaeospora Leaf Spot
4	HKI 1344	0.0	2.0	2.5	2.5	1.0	2.3	PFSR, Maydis Leaf Blight
5	HKI 1352	22.2	1.8	2.0	3.0	-	0.0	PFSR, Curvularia Leaf Spot
6	HKI 323	0.0	1.8	2.0	3.5	2.0	0.0	-
7	LM 5	0.0	2.2	2.0	4.5	1.0	2.5	PFSR
8	CM 115	20.0	2.0	2.5	3.5	2.0	0.0	PFSR
9	CM 212	7.7	2.0	2.0	3.5	2.0	0.0	PFSR
10	JCY2-7-1	0.0	1.0	1.5	3.0	-	0.0	-
11	Local check	-	2.2	-	-	-	-	-
12	Sus. Check				-	-	-	-

Table : 10

Evaluation of QPM - 1 & 2 Genotype against Maize diseases during Kharif 2010

S.No	Pedigree	MLB (1-5)					TLB (1-5)				BLSB (1-5)	
		BAJ	DHO	DEL	LUD	ALM	MAND	BAJ	BAP	ALM	DEL	PANT
1	EHQ-03	1.0	2.6	3.5	1.8	1.8	4.8	1.0	1.3	1.0	4.5	5.0
2	EHQ-10	2.5	2.8	3.0	3.3	2.0	5.0	1.5	1.4	1.3	4.0	5.0
3	EHQ-16	2.5	2.6	3.0	2.0	1.5	4.5	1.5	1.1	1.0	4.0	4.8
4	ECQ-02	2.0	2.6	3.5	2.8	2.0	4.8	1.5	1.3	1.5	3.5	4.5
5	ECQ-03	2.5	2.6	3.0	3.0	2.3	4.5	1.5	1.2	1.5	4.0	5.0
6	BQPMH-227	2.0	2.5	3.5	2.5	1.8	4.5	1.5	1.5	1.5	3.5	4.8
7	HQPM-2	2.0	2.5	3.5	2.3	1.5	3.3	1.5	1.0	1.5	3.0	4.3
8	HQPM-24	2.0	2.2	3.0	2.0	1.5	3.3	1.0	1.1	1.5	2.0	5.0
9	HQPM-22	1.5	2.0	2.5	2.0	1.5	4.0	1.0	1.1	1.5	2.0	4.3
10	VEHQ-3028	1.5	2.6	2.5	2.3	2.0	2.0	1.5	1.0	1.8	2.5	4.8
11	JHQPM-304 (1R)	2.0	1.5	1.5	2.0	1.0	4.5	1.5	1.2	1.0	3.5	3.5
12	JHQPM-250 (1R)2009	2.0	1.5	2.0	1.8	1.0	4.5	1.5	1.3	1.3	3.5	4.0
13	HQPM 1	2.0	2.0	3.0	2.0	2.0	4.0	1.0	1.1	1.0	3.5	4.8
14	HQPM 5	-	2.0	-	2.0	2.0	4.3	-	1.0	1.5	-	-
15	HQPM 7	2.5	2.6	4.0	2.8	2.3	3.3	1.0	1.1	1.5	4.0	5.0
16	HQPM-14	2.0	2.6	3.5	2.3	2.3	4.0	1.5	1.1	1.0	4.0	3.8
17	MHQPM-09-5	2.0	2.5	3.5	2.5	1.5	4.5	1.5	1.0	1.5	2.5	5.0
18	MHQPM-09-6	2.0	2.5	2.5	2	1.5	4.5	1.5	1.1	1.8	4.0	5.0
19	MHQPM-09-7	2.0	2.6	3	2.3	1.5	4.0	2.0	1.2	1.3	4.5	5.0
20	MHQPM-09-8	2.0	2.5	3.5	1.8	2.0	4.3	1.5	1.4	1.5	4.0	4.8
21	Resistant Check	-	-	-	-	-	2.0	-	-	-	-	-
22	Susceptible Check	-	-	-	-	1.3	5.0	-	-	4.0	-	-
23	Surya	-	-	-	-	-	-	-	-	-	-	-
24	FR632H100	-	-	-	2.5	-	-	-	-	-	-	-
25	Local Check	-	4.0	-	-	-	-	-	-	-	-	-

Table : 10

S.No	Pedigree	BSDM	ESR	PANT	P. Rust	RDM	PFSR	LUD	HYD	SDM	DM
		(1-5)	(%)		(1-5)	(%)	(1-9)			(%)	(%)
		DHAU	DHAU		MAND	UDP	UDP			MAND	COIM
1	EHQ-03	2.0	14.3	41.0	4.8	5.0	5.6	3.5	3.2	100.0	100.0
2	EHQ-10	2.0	38.1	65.2	4.8	7.1	4.6	4.8	5.5	100.0	100.0
3	EHQ-16	2.0	25.0	36.3	4.5	4.3	5.6	4.6	2.6	100.0	100.0
4	ECQ-02	2.0	28.6	55.8	4.3	21.0	5.2	5.1	5.2	100.0	100.0
5	ECQ-03	3.0	42.9	83.4	3.3	13.3	3.1	6.0	2.7	100.0	100.0
6	BQPMH-227	2.0	47.5	26.3	3.8	40.0	4.9	4.4	5.1	100.0	100.0
7	HQPM-2	2.0	25.5	0.0	4.5	48.0	4.6	3.6	3.8	100.0	100.0
8	HQPM-24	3.0	50.0	43.8	4.3	73.9	5.2	4.8	4.0	100.0	100.0
9	HQPM-22	2.0	51.2	13.4	4.5	55.0	6.1	4.6	4.2	100.0	100.0
10	VEHQ-3028	1.0	31.3	46.7	4.0	68.7	4.6	4.3	3.0	97.5	100.0
11	JHQPM-304 (1R)	2.0	14.9	0.0	4.8	37.5	5.4	4.1	4.3	100.0	96.7
12	JHQPM-250 (1R)2009	3.0	43.9	0.0	3.3	65.0	6.0	4.6	3.2	100.0	100.0
13	HQPM 1	2.0	26.1	37.5	4.0	80.0	5.8	4.7	3.0	100.0	100.0
14	HQPM 5	1.0	0.0	-	4.3	0.0	NG	9	3.0	100.0	20.0
15	HQPM 7	1.0	42.9	0.0	4.8	50.0	3.3	4.8	5.5	100.0	71.4
16	HQPM-14	-	0.0	18.8	2.0	60.0	4.0	5.1	2.1	100.0	100.0
17	MHQPM-09-5	2.0	40.0	100.0	3.8	95.4	6.1	5.6	3.2	100.0	100.0
18	MHQPM-09-6	2.0	14.6	66.7	3.3	80.0	6.9	6.3	3.5	100.0	100.0
19	MHQPM-09-7	2.0	18.4	66.7	2.0	86.3	6.0	5.0	3.9	100.0	100.0
20	MHQPM-09-8	0.0	32.1	62.5	3.8	84.0	6.6	5.5	2.2	100.0	100.0
21	Resistant Check	-	-	-	2.0	-	-	-	-	13.0	7.9
22	Susceptible Check	-	-	-	5.0	-	5.2	-	-	100.0	100.0
23	Surya	-	-	-	-	52.0	8.8	-	-	-	-
24	FR632H100	-	-	-	-	-	-	7.5	-	-	-
25	Local Check	-	-	-	-	-	-	-	6.0	-	-

Not germinate

Table: 11 Identification of Stable Sources of Resistance to Major Diseases of Maize Kharif-2010 at Delhi, Hyderabad, Mandya, Almora, Bajura, Ludhiana, Pantnagar, Udaipur and Dhaulakuan

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
1	HSSW(HS)C1f3(SH2 SH2)	2.5	3.5	2.0	2.5	2.5	5.0	-	3.0	2.0	1.4	7.7	3.0	100.0	75.0	100.0	50.0
2	Insec2(k4)	2.5	2.5	2.3	2.0	2.5	5.0	4.5	2.0	3.0	-	8.0	3.0	100.0	100.0	0.0	40.0
3	Insec 2(k4)' Insec(K4)	2.5	2.0	2.0	3.5	4.0	4.0	-	5.0	-	2.0	3.4	3.0	100.0	-	75.0	100.0
4	Mas madu (sh2sh2)- NSS2W9301A(sh2sh2)	2.0	2.5	2.0	-	2.0	2.0	5.0	3.0	3.0	3.0	5.2	2.5	80.0	85.7	85.7	40.0
5	Sweet corn 'Insec 1(k4)	2.0	-	-	2.5	1.5	3.0	-	-	-	-	0.0	-	100.0	-	100.0	-
6	Win sweet corn	2.5	3.0	1.8	3.0	3.0	3.0	5.0	3.0	1.0	3.8	7.0	3.5	100.0	50.0	71.4	100.0
7	951-7	2.0	2.5	1.5	2.5	2.0	1.5	4.5	3.0	1.0	1.5	3.5	3.0	100.0	80.0	-	-
8	WINPOP-16	2.5	2.5	2.3	2.5	2.5	4.0	5.0	3.0	-	-	5.3	2.5	100.0	100.0	100.0	-
9	CUBA 377	4.0	4.0	2.5	3.5	3.0	3.5	5.0	5.0	2.0	5.2	9.0	4.0	100.0	100.0	-	100.0
10	CUBA 380	3.5	-	3.0	4.0	2.5	4.5	5.0	3.0	1.0	3.3	6.2	-	75.0	100.0	100.0	85.7
11	NC 392	-	-	3.0	3.0	0.0	2.0	5.0	1.0	-	-	4.3	-	100.0	100.0	100.0	100.0
12	DMSC1	3.0	-	2.0	3.0	0.0	2.0	-	-	-	2.0	0.0	-	100.0	-	-	-
13	DMSC3	3.5	2.5	1.8	3.0	1.5	4.5	5.0	1.0	2.0	2.3	5.5	2.5	100.0	100.0	100.0	50.0
14	DMSC6	3.0	3.5	2.3	3.0	1.5	4.5	-	3.0	3.0	4.3	8.0	3.0	100.0	100.0	-	100.0
15	DMSC8	2.0	2.5	2.0	3.5	4.5	4.0	5.0	2.0	2.0	3.2	6.2	2.5	100.0	100.0	-	50.0
16	DMSC16-1	2.0	2.0	2.0	2.5	1.5	-	-	1.0	2.0	3.1	8.2	2.0	100.0	80.0	100.0	71.4
17	DMSC16-2	2.0	2.0	1.8	2.0	1.5	2.5	5.0	2.0	2.0	2.6	7.7	2.0	100.0	100.0	100.0	100.0
18	DMSC20	3.0	3.0	1.8	3.5	0.0	4.0	-	2.0	-	4.4	9.0	4.0	100.0	100.0	-	33.3

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
20	DMSC28	3.5	2.5	1.5	5.0	2.5	5.0	5.0	1.0	2.0	4.2	5.7	3.0	100.0	40.0	100.0	66.6
21	DMSC36	2.0	2.5	1.8	-	2.5	-	-	1.0	1.0	3.0	4.5	3.0	100.0	100.0	100.0	60.0
22	DMSC-37-3	3.5	2.5	3.0	4.5	3.5	5.0	5.0	2.0	2.0	2.6	4.0	3.0	100.0	80.0	100.0	80.0
23	Gen1858	-	-	1.0	3.5	0.0	-	-	3.0	-	-	0.0	-	100.0	66.6	-	-
24	Sc Male	3.5	-	1.3	4.5	2.0	-	5.0	2.0	3.0	5.3	0.0	-	100.0	71.4	100.0	83.3
25	HKI PC 4B	1.5	2.0	1.3	4.5	4.0	4.0	5.0	1.0	2.0	1.0	3.0	2.5	100.0	100.0	100.0	100.0
26	HKI -PC-4B-1	4.0	2.0	2.0	3.5	0.0	4.0	-	2.0	1.0	3.0	8.0	2.5	100.0	87.5	100.0	16.6
27	HKI-PC-5-1	4.0	3.0	1.5	4.5	3.0	4.0	5.0	1.0	2.0	3.1	4.2	2.5	100.0	88.2	100.0	57.1
28	HKI-PC-5-2	3.5	4.0	1.5	4.5	3.0	4.0	5.0	1.0	2.0	2.8	3.0	4.5	100.0	78.5	88.8	70.0
29	HKI-PC-7	3.5	2.0	1.8	3.5	2.5	3.0	5.0	2.0	2.0	1.8	3.8	2.5	100.0	81.8	71.4	100.0
30	HKI PC 8	3.5	4.0	1.8	4.5	3.0	4.5	5.0	3.0	3.0	-	3.8	4.0	100.0	82.3	61.5	77.7
31	HKI-PC-8-2	3.5	3.5	1.3	4.5	3.0	2.0	5.0	2.0	4.0	-	3.2	3.5	100.0	90.9	46.2	100.0
32	HKI-PC-8-2-1	3.0	4.0	1.3	4.5	2.5	3.0	5.0	2.5	1.0	1.0	3.2	4.0	100.0	75.0	100.0	87.5
33	WINPOP-1	4.0	4.0	2.8	5.0	3.5	4.0	5.0	2.0	2.0	-	3.4	5.0	100.0	100.0	100.0	100.0
34	WINPOP-2	4.0	4.5	2.8	5.0	3.0	3.5	5.0	1.0	2.0	1.3	4.0	5.0	100.0	100.0	63.6	100.0
35	WINPOP-3	4.0	4.5	2.8	4.5	3.5	3.5	5.0	1.0	3.0	1.0	4.4	5.0	100.0	100.0	80.0	100.0
36	WINPOP-4	4.0	4.0	1.8	4.5	3.0	4.0	5.0	1.0	2.0	3.2	5.3	5.0	100.0	100.0	100.0	55.5
37	WINPOP-21	3.5	2.0	1.8	4.5	3.0	4.0	4.0	2.0	2.0	3.0	3.2	2.5	100.0	100.0	100.0	100.0
38	WINPOP-21	3.0	2.0	2.0	4.5	4.0	4.0	4.5	3.0	-	3.1	4.8	2.5	100.0	100.0	100.0	77.7
39	WINPOP-43-1	2.5	2.0	2.0	4.5	3.5	5.0	5.0	2.0	2.0	3.6	4.4	2.0	100.0	75.0	100.0	85.7
40	WINPOP-43-2	2.5	2.0	1.8	4.5	2.5	4.5	5.0	2.5	1.0	5.6	3.5	2.0	100.0	100.0	100.0	83.3
41	HKI-2-6-2-4(1-2)-4	2.5	2.0	1.0	3.5	2.5	4.0	5.0	2.0	-	2.5	4.5	2.0	100.0	100.0	100.0	66.6
42	HKI 226	3.5	-	1.8	-	3.0	4.0	-	2.0	2.0	1.5	4.0	-	100.0	100.0	-	100.0
43	HKI 586-1 WG' 33	3.0	2.5	1.3	4.0	3.5	5.0	5.0	3.0	3.0	3.8	7.0	3.0	100.0	88.8	100.0	87.5

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
44	HKI1040-5	2.5	2.0	1.3	4.0	2.0	4.0	4.5	2.0	2.0	3.4	4.3	2.0	100.0	85.7	-	33.3
45	HKI 1094-11-7	2.5	2.5	1.3	3.0	4.0	4.5	5.0	3.0	-	1.0	4.6	3.0	100.0	100.0	100.0	-
46	HKI 1040-5	2.5	4.5	1.0	4.5	2.0	5.0	5.0	3.0	3.0	2.2	3.7	4.0	100.0	100.0	100.0	100.0
47	HKI 1094-WG	1.5	3.5	2.5	2.5	2.0	5.0	5.0	4.0	2.0	4.3	3.1	3.0	100.0	87.5	88.8	100.0
48	CML 451(P2)	2.5	4.0	1.8	3.0	3.0	4.5	5.0	2.0	2.0	-	4.7	4.5	100.0	100.0	100.0	100.0
49	DTPYC9-F46-3-1	2.5	2.5	1.8	3.0	1.5	5.0	5.0	2.0	1.0	4.5	5.3	3.0	100.0	75.0	28.5	100.0
50	ESM-11-3	2.5	3.0	2.5	2.5	0.0	5.0	5.0	2.0	1.0	3.5	4.2	4.5	100.0	100.0	100.0	-
51	PFSR/51016-1	2.0	2.0	1.0	2.0	1.5	3.5	5.0	2.0	1.0	1.6	3.2	2.0	83.3	63.6	83.3	100.0
52	Gen 6033	2.0	3.0	1.0	3.0	2.5	3.0	-	1.0	2.0	2.0	2.8	3.5	100.0	50.0	-	100.0
53	Hyd05r/2-1	4.0	2.5	1.0	3.5	2.5	4.0	5.0	2.0	1.0	3.3	3.0	3.0	100.0	100.0	100.0	85.7
54	Hyd05R/13-2	3.0	3.0	3.0	4.5	2.0	4.0	-	2.0	-	1.0	3.1	3.5	100.0	37.5	-	100.0
55	Hyd05204-1	3.0	4.5	3.5	4.5	3.0	3.0	5.0	2.0	3.0	3.5	3.2	5.0	83.3	90.0	100.0	100.0
56	LM 5	2.0	3.0	1.8	2.5	2.5	5.0	5.0	2.0	2.0	4.5	4.2	3.5	100.0	86.6	20.0	50.0
57	LM6	2.5	3.0	1.8	3.5	1.5	3.5	5.0	1.0	1.0	1.4	3.6	3.0	100.0	81.8	-	71.4
58	LM11	2.0	3.0	3.0	2.5	1.5	3.0	-	1.0	2.0	1.0	4.0	2.5	100.0	75.0	-	-
59	LM12	3.5	5.0	3.0	3.5	2.5	3.0	3.0	1.0	1.0	2.0	2.9	5.0	100.0	50.0	28.6	50.0
60	LM15	4.0	3.0	2.3	4.0	2.5	4.0	3.5	2.0	2.0	2.2	3.2	3.5	100.0	33.3	100.0	75.0
61	LM15	2.5	2.5	2.5	3.5	3.0	4.0	3.0	2.5	2.0	3.7	4.0	3.5	100.0	8.3	100.0	40.0
62	LM16	3.0	2.0	3.0	3.0	2.0	3.5	5.0	2.0	1.0	3.3	4.2	2.0	100.0	55.5	66.7	42.8
63	V 355	2.0	4.5	2.0	3.0	3.0	4.0	5.0	3.0	1.0	4.6	6.9	5.0	100.0	66.6	71.4	-
64	V341-1	2.5	2.5	2.0	5.0	1.5	5.0	5.0	4.0	1.0	3.0	5.0	3.0	83.3	50.0	100.0	100.0
65	V341-2	2.5	2.5	2.3	5.0	1.5	5.0	5.0	5.0	2.0	4.8	6.8	3.0	100.0	100.0	100.0	100.0
66	V351-1	3.5	2.0	3.8	2.0	2.0	4.5	5.0	4.0	3.0	1.9	4.7	3.0	100.0	50.0	100.0	100.0
67	V 351-2	3.5	2.5	3.8	2.5	1.0	4.0	5.0	4.0	2.0	2.0	4.0	3.0	100.0	50.0	100.0	100.0

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
68	CM105	-	2.0	3.0	2.5	2.0	3.0	-	3.0	2.0	-	6.0	2.0	100.0	100.0	25.0	100.0
69	CM114	2.5	2.5	2.0	2.0	2.0	4.5	5.0	3.0	2.0	1.8	0.0	3.0	100.0	12.5	100.0	100.0
70	CM121	2.5	3.0	2.0	3.5	2.0	4.0	5.0	3.0	3.0	5.8	5.7	3.5	80.0	84.6	100.0	100.0
71	CM123	2.5	2.5	2.0	3.0	1.5	3.5	4.0	2.0	1.0	1.0	5.0	3.0	100.0	33.3	40.0	100.0
72	CM124	2.5	3.0	1.8	2.5	3.0	5.0	3.5	3.0	2.0	3.0	6.3	3.5	100.0	80.0	72.7	55.5
73	CM128	3.0	3.5	2.0	5.0	2.0	5.0	5.0	3.0	3.0	5.0	8.0	4.0	100.0	36.3	100.0	100.0
74	CM129	3.0	3.0	1.5	3.5	1.5	4.0	5.0	3.0	3.0	6.0	9.0	3.5	80.0	100.0	100.0	100.0
75	CM132	2.5	3.0	2.5	3.5	3.0	4.0	5.0	1.0	2.0	1.3	4.0	3.0	100.0	70.0	100.0	33.3
76	CM133	3.5	3.0	1.8	3.0	2.0	3.5	-	2.0	3.0	4.2	9.0	4.5	100.0	100.0	100.0	100.0
77	CM139	3.5	2.5	3.0	3.5	2.0	4.0	5.0	1.0	2.0	5.0	7.0	3.0	100.0	72.7	87.5	40.0
78	CM144	3.5	2.5	2.8	4.0	2.0	3.5	5.0	1.0	2.0	1.2	3.3	2.5	100.0	80.0	100.0	100.0
79	CM149	3.5	4.5	2.0	4.0	3.0	-	5.0	4.0	1.0	3.3	3.2	5.0	100.0	81.8	100.0	100.0
80	CM500	3.5	5.0	1.8	4.0	2.5	2.5	5.0	2.0	1.0	2.3	5.0	5.0	100.0	100.0	100.0	66.6
81	CM501	2.5	3.5	1.5	3.5	2.0	5.0	5.0	2.0	3.0	1.2	6.5	3.0	100.0	22.2	100.0	75.0
82	CM502	2.5	3.5	1.3	3.5	1.5	4.5	5.0	1.0	2.0	4.8	5.0	3.0	75.0	20.0	100.0	75.0
83	HKI C 78	-	3.0	1.3	3.0	2.5	4.5	5.0	3.0	2.0	2.2	4.0	3.5	100.0	14.2	100.0	77.0
84	HKI 141-1	2.0	2.0	1.0	3.0	2.5	4.5	5.0	3.5	3.0	2.5	3.7	2.0	100.0	64.2	100.0	87.5
85	HKI 141-2	1.5	2.0	1.0	2.5	2.0	4.0	-	4.0	2.0	1.0	3.0	2.0	100.0	100.0	100.0	-
86	HKI C 323	2.0	2.5	1.0	2.5	2.5	4.0	-	3.0	2.0	3.1	3.4	3.5	100.0	81.8	100.0	100.0
87	HKI 1352-5-8-9	1.5	4.0	1.3	2.0	1.5	2.5	-	5.0	3.0	-	3.0	3.0	100.0	100.0	100.0	100.0
88	Pool 16 BNSEQ.C3F6x38-1	2.0	4.0	2.0	3.5	2.0	4.0	5.0	3.0	1.0	5.4	6.5	4.0	100.0	86.3	37.5	72.7
89	ae-40	2.0	3.5	1.0	3.0	3.0	4.5	5.0	3.0	3.0	2.3	5.5	2.0	33.3	28.5	100.0	60.0
90	CML141	2.0	2.0	1.0	2.5	2.0	3.5	5.0	2.0	3.0	1.3	4.3	2.0	100.0	100.0	-	-

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
91	CML154	1.5	3.5	1.0	3.0	-	4.5	-	5.0	2.0	3.2	5.8	2.5	100.0	100.0	-	25.0
92	CML 269	2.0	3.0	1.5	3.0	2.5	4.0	5.0	3.0	2.0	1.2	3.4	4.0	90.0	40.0	16.67	50.0
93	CML 384	3.0	2.5	1.0	2.5	2.0	4.0	5.0	3.0	2.0	1.6	2.5	3.0	77.7	73.3	75.0	85.7
94	CML 395	2.0	2.5	1.8	3.5	3.0	4.0	5.0	5.0	3.0	1.3	7.0	3.0	100.0	25.0	100.0	100.0
95	MIRT& PT-3	2.5	4.0	2.0	-	0.0	-	5.0	3.0	2.0	-	7.0	2.5	100.0	90.0	-	100.0
96	HKI 17-2	3.5	5.0	2.0	4.0	3.5	-	-	4.0	-	-	6.7	2.5	100.0	53.3	100.0	75.0
97	HKI 26-2-4-(1-2)	4.0	4.5	2.8	4.0	4.0	4.0	5.0	3.0	2.0	2.5	6.5	3.5	100.0	30.0	-	75.0
98	HKI 31-2	2.5	4.5	3.0	2.5	2.5	4.0	-	3.0	2.0	1.4	6.1	4.5	100.0	-	-	40.0
99	HKI 34(1+2)-1	2.0	3.0	1.3	5.0	4.5	4.5	5.0	3.0	3.0	1.2	7.8	4.0	75.0	100.0	-	100.0
100	HKI 16-4-(1-3)-2	3.0	3.0	-	3.5	1.0	4.5	-	3.0	2.0	2.0	0.0	4.0	100.0	100.0	100.0	-
101	HKI 164-3(2-1)-1	2.0	2.5	2.5	2.5	2.0	4.0	-	4.0	3.0	1.3	5.5	3.5	100.0	100.0	100.0	87.5
102	HKI 164-4(2-1)-1-1	2.5	3.0	1.8	3.5	2.0	3.0	-	3.0	-	-	7.5	3.5	100.0	58.3	-	100.0
103	HKI 164 -4-(1-3)-2-2	2.0	3.0	1.8	-	2.5	3.5	-	3.0	2.0	2.5	6.5	3.0	100.0	100.0	-	-
104	HKI 164-4-(1-3)-2	2.0	3.0	1.8	3.5	2.0	3.0	5.0	3.0	3.0	1.0	6.2	3.0	100.0	100.0	-	100.0
105	HKI 164-3(2-1)-1	2.0	2.5	1.8	2.5	2.0	2.5	-	3.0	2.0	1.3	5.5	3.0	100.0	100.0	-	-
106	HKI 164-D-3-3-2	2.5	2.5	1.8	3.0	0.0	4.5	5.0	3.0	2.0	1.1	6.0	3.0	100.0	100.0	-	100.0
107	HKI 164-7-7ER2	2.5	4.0	1.0	3.0	2.0	3.5	-	3.0	2.0	1.1	7.5	3.5	100.0	100.0	100.0	-
108	HKI 164-7-6x161	2.0	2.5	1.0	3.0	1.5	4.5	5.0	3.0	2.0	1.5	5.2	3.0	100.0	66.6	66.7	100.0
109	HKI 164-7-4 ER-3	2.5	3.0	1.0	3.0	2.0	3.5	-	3.0	-	1.3	4.0	3.0	100.0	-	-	50.0
110	HKI 164-7-4	1.5	2.5	1.0	3.5	2.5	4.5	5.0	3.0	2.0	1.5	3.0	2.0	100.0	100.0	100.0	33.3
111	HKI 164-7-4-2	3.0	3.5	1.5	-	2.0	2.5	5.0	3.0	3.0	1.4	3.3	4.5	100.0	100.0	-	100.0
112	HKI164-7-2	1.5	4.5	1.5	4.0	0.0	4.0	5.0	3.0	-	-	3.0	5.0	100.0	50.0	100.0	-
113	HKI 164-1-4	2.0	5.0	1.5	3.0	2.0	3.5	-	4.0	2.0	1.0	7.6	4.0	100.0	100.0	50.0	80.0
114	HKI 164-4-(1-3)	2.5	4.0	1.0	4.0	2.5	4.5	-	5.0	2.0	1.3	8.5	4.0	100.0	80.0	-	62.5

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
115	HKI 164-7-6X161-2	2.0	3.5	1.5	3.5	3.0	3.5	-	5.0	1.0	2.1	6.6	3.0	100.0	100.0	-	75.0
116	HKI 191-1-2-5	2.5	3.5	1.5	3.0	2.0	2.0	5.0	3.0	1.0	4.1	8.2	3.5	100.0	87.5	0.0	75.0
117	HKI 193-2-2	2.5	2.0	1.8	4.0	3.0	2.5	5.0	3.0	2.0	1.2	3.0	3.0	100.0	25.0	-	50.0
118	HKI 193 2-2-1	2.5	2.5	1.8	4.0	3.0	3.0	*3.5	3.5	2.0	2.0	2.2	3.5	100.0	71.4	0.0	37.5
119	HKI 193-2-2-4	2.5	3.5	1.8	3.0	3.5	3.5	5.0	3.0	2.0	1.3	2.8	4.0	100.0	-	80.0	33.3
120	HKI 193-1	2.5	2.0	1.8	3.5	3.5	3.5	5.0	3.0	2.0	1.2	3.2	3.0	88.8	-	66.7	50.0
121	CML 165	-	-	-	-	1.5	-	-	-	-	-	0.0	-	100.0	-	-	-
122	CML 167	2.0	3.5	1.0	2.0	0.0	4.0	5.0	3.0	2.0	1.2	4.3	3.5	100.0	100.0	-	-
123	CML 171	2.5	3.5	1.0	3.0	0.0	4.0	-	2.0	3.0	2.8	4.0	4.0	85.7	58.3	100.0	66.6
124	CML 172	1.5	3.0	1.0	3.0	2.5	3.0	5.0	2.0	2.0	1.0	4.2	3.5	100.0	76.9	-	-
125	HKI MBR-139	1.5	2.0	1.0	2.0	2.0	3.0	-	3.0	2.0	1.8	5.0	2.0	100.0	100.0	100.0	-
126	HKI-MBR-139-2	2.0	2.0	1.5	1.5	1.5	3.5	5.0	3.0	1.0	1.1	4.2	4.0	100.0	100.0	100.0	100.0
127	DMR QPM-03-104	2.5	4.0	1.5	2.5	2.5	2.5	5.0	3.0	1.0	2.4	5.0	4.0	87.5	37.5	60.0	80.0
128	DMR QPM 03-113	3.0	4.5	2.0	3.5	3.0	5.0	5.0	4.0	1.0	6.0	3.0	4.0	100.0	100.0	100.0	100.0
129	DMR QPM 03-124	3.5	5.0	2.0	2.5	2.5	4.0	5.0	3.0	3.0	5.3	8.3	3.5	88.8	100.0	-	100.0
130	DMR QPM-58-26	3.5	2.5	3.8	3.0	2.5	4.0	5.0	4.0	2.0	-	4.1	5.0	100.0	50.0	33.3	40.0
131	CML 158	2.0	3.5	2.0	-	2.5	4.0	5.0	3.0	3.0	-	5.0	3.0	100.0	33.3	100.0	50.0
132	CML 175	-	3.5	2.3	-	3.0	4.5	5.0	3.0	2.0	-	6.8	3.0	100.0	-	100.0	50.0
133	CL-QRCYQ47	2.5	-	1.8	-	0.0	1.5	5.0	4.0	2.0	-	3.0	-	75.0	-	100.0	-
134	CLQRCYQ-47-B	2.0	3.0	2.3	2.0	0.0	2.0	-	3.0	3.0	-	4.0	3.0	100.0	100.0	-	-
135	CLQ-RCYQ30	2.0	3.5	2.3	2.0	2.5	4.0	5.0	3.0	1.0	-	5.0	4.5	100.0	66.6	-	-
136	CLQ-RCYQ36	2.5	3.0	1.8	3.0	2.0	3.5	5.0	3.0	1.0	2.6	4.7	4.0	100.0	66.6	100.0	-
137	CLQ-RCYQ41	2.0	-	-	2.5	2.0	4.0	5.0	4.0	-	1.2	6.0	-	100.0	-	66.7	100.0
138	CLQ-RCYQ40	2.0	-	1.5	2.0	2.0	4.0	-	4.0	-	2.2	3.0	-	100.0	-	-	100.0

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
139	CML 451Q	3.5	5.0	2.8	4.5	3.0	4.0	-	3.0	2.0	1.0	3.8	4.0	100.0	100.0	100.0	100.0
140	DMR QPM58	4.0	5.0	4.0	3.5	0.0	4.0	5.0	5.0	2.0	1.4	6.0	5.0	100.0	69.2	100.0	37.5
141	DMR QPM 58	4.0	5.0	4.3	3.5	3.0	4.0	5.0	3.0	2.0	4.6	5.0	5.0	100.0	66.6	100.0	85.7
142	HIGH OIL POPULATION II-1	2.0	4.5	2.3	-	1.5	3.5	-	-	2.0	5.1	7.0	3.5	100.0	100.0	-	-
143	HIGH OIL POPULATION II-2	2.0	-	1.5	-	1.5	-	-	3.0	3.0	-	7.0	-	100.0	66.6	-	-
144	HIGH OIL POPULATION II-3	2.5	3.5	1.3	2.5	2.0	4.0	-	3.0	-	4.0	8.0	4.5	100.0	-	-	71.4
145	HIGH OIL POPULATION II-4	2.5	3.5	1.8	-	2.0	4.0	5.0	3.0	1.0	-	6.2	4.5	100.0	75.0	-	20.0
146	HIGH OIL POPULATION II-5	2.0	-	1.3	-	2.0	-	-	-	2.0	3.4	6.0	-	100.0	100.0	-	-
147	HKI 3322	3.5	-	2.3	-	0.0	4.5	5.0	3.0	3.0	-	5.0	-	100.0	40.0	-	-
148	SHD-1 ER6	3.0	2.0	2.5	-	1.5	4.0	5.0	3.0	2.0	5.0	5.5	3.0	100.0	33.3	-	-
149	DMHOC 4	2.5	3.5	2.0	4.0	2.0	3.5	5.0	4.0	3.0	1.0	4.8	3.0	100.0	14.2	66.7	100.0
150	Temp. Hoc15	4.0	4.0	2.8	4.0	4.0	4.0	5.0	1.0	2.0	4.1	4.7	4.0	100.0	94.1	100.0	100.0
151	02POOL 33 C24	-	4.0	2.8	-	0.0	3.5	-	3.0	2.0	4.8	6.0	4.5	100.0	100.0	100.0	-
152	POBLAC 61 C3	2.0	2.0	1.3	4.0	2.0	4.0	5.0	3.0	1.0	6.0	7.0	3.0	100.0	50.0	100.0	-
153	Tem.Trop High oil QPM	4.0	3.5	1.8	5.0	5.0	5.0	5.0	3.5	3.0	1.0	5.0	3.5	100.0	50.0	100.0	66.6
154	PFSR-R2	2.5	2.5	1.8	3.0	4.0	4.0	5.0	3.0	2.0	3.0	4.0	3.5	100.0	100.0	100.0	66.6
155	PFSR-R3	2.0	3.0	1.0	2.0	1.5	2.0	5.0	3.0	2.0	1.2	4.8	3.0	100.0	37.5	100.0	-
156	PFSR-R9	2.0	2.5	1.0	2.0	2.0	2.0	-	3.0	1.0	1.3	4.8	3.0	100.0	9.0	0.0	50.0
157	PFSR-R10	1.5	3.5	1.0	3.5	3.0	2.0	5.0	3.0	2.0	1.3	4.0	4.0	100.0	37.5	75.0	57.1
158	PFSR-R10	2.0	2.5	1.0	3.5	1.5	3.0	5.0	1.0	1.0	1.1	6.0	3.5	100.0	0.0	-	85.7
159	PFSR-S2	1.5	2.0	1.0	2.5	1.5	2.0	5.0	3.0	2.0	1.2	4.4	2.0	100.0	100.0	-	-

S.no	Pedigree	TLB (1-5)			MLB (1-5)		BLSB (1-5)			BSDM (1-5)	PFSR (1-9)	P.rust (1-5)		SDM (%)	RDM (%)	ESR (%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
160	PFSR-S3	2.0	2.5	1.0	2.0	1.5	2.5	5.0	3.5	1.0	1.1	5.0	4.0	50.0	11.1	100.0	30.0
161	PFSR-S3	2.0	3.5	1.0	2.0	1.5	2.0	5.0	3.0	1.0	1.1	6.3	4.0	20.0	33.3	100.0	33.3
162	SW-930-313-23-OQ-49-54-1-3-1-1-1-2-1-2-1-2-31-1-2	2.0	2.5	1.0	2.5	1.5	2.5	5.0	3.0	1.0	1.0	2.6	3.5	75.0	100.0	-	-
163	JCY2-1-2-1-1B-1-2-3-1-1	2.0	2.5	1.0	2.5	1.5	2.5	5.0	4.0	1.0	1.5	4.6	3.5	66.6	5.9	60.0	22.2
164	JCY2-7-1-2-1-B-1-2-1-1	1.5	3.0	1.0	3.0	2.0	2.5	-	3.0	1.0	1.1	6.2	4.0	83.3	28.6	-	50.0
165	JCY3-7-1-2-1-'B-1-1-4-1	2.0	2.5	1.0	2.5	1.5	2.5	-	3.0	3.0	2.0	2.5	3.5	100.0	0.0	-	60.0
166	JCY3-7-1-2-1-'B-2-3-2-1-2-3	2.0	4.0	1.5	4.0	2.0	3.5	5.0	4.0	2.0	1.0	4.4	3.0	100.0	16.7	80.0	75.0
167	CM 117-3-4-1-2-2-1	2.0	3.0	1.0	2.5	2.0	3.5	-	3.0	2.0	1.3	5.4	3.5	40.0	25.0	100.0	66.6
168	CML 3	2.0	2.5	1.5	2.5	1.5	4.0	5.0	5.0	2.0	1.0	3.8	3.5	100.0	42.8	100.0	66.6
169	CML 321	2.0	3.0	1.3	2.5	2.0	3.5	5.0	1.0	3.0	1.0	6.5	3.5	50.0	50.0	100.0	50.0
170	CM 117-3-4-1-1-4-1	2.5	3.0	1.0	2.0	1.5	3.0	5.0	3.0	3.0	1.5	3.3	3.5	57.1	58.3	50.0	12.5
171	CM 117-3-4-2-3-1	1.5	2.5	1.0	2.0	2.0	2.5	5.0	4.0	2.0	1.1	5.1	3.0	75.0	40.0	60.0	57.1
172	CML 311	2.0	3.0	1.3	2.5	2.0	4.0	5.0	3.5	2.0	5.7	4.0	3.5	100.0	0.0	100.0	-
173	CM 117-3-4-1-2-5-1	2.0	3.5	1.0	2.5	2.0	2.5	5.0	3.0	2.0	1.0	3.6	4.0	83.3	11.0	0.0	37.5
174	CM 117-3-4-1-2-3-1	1.5	3.0	2.5	3.0	2.0	2.5	5.0	4.0	1.0	4.2	5.3	4.0	100.0	90.9	33.3	30.0
175	42048-2-2-1-1-1-2	1.5	3.5	2.8	2.5	1.5	5.0	5.0	3.0	2.0	1.1	4.0	3.5	100.0	30.0	66.7	60.0
176	CML 33	1.5	3.0	1.5	2.0	2.0	4.0	-	2.0	1.0	2.0	4.0	3.5	100.0	36.4	100.0	100.0
177	JCY3-7-1-2-1-'B-2-3-2-1-2-1	2.5	3.5	2.0	3.0	2.5	4.5	5.0	3.0	1.0	3.0	4.7	4.0	100.0	57.1	50.0	57.1
178	SW-93D-313-23-POP.49-S4-1	2.5	3.0	1.5	2.0	3.5	3.0	-	3.0	2.0	3.4	4.8	4.5	100.0	85.7	100.0	100.0
179	JCY3-7-2-2-1-3-1-1-2-7-1-1-3	2.0	3.5	1.5	2.5	3.0	2.5	-	3.5	2.0	5.5	5.0	5.0	100.0	66.7	50.0	42.8

S.no	Pedigree	TLB			MLB			BLSB			BSDM	PFSR	P.rust	SDM	RDM	ESR	DHAU
		(1-5)			(1-5)			(1-5)			(1-5)	(1-9)	(1-5)	(%)	(%)	(%)	
		BAJ	MAND	ALM	DEL	LUD	DEL	PANT	DHAU	DHAU	HYD	LUD	MAND	MAND	UDP	PANT	DHAU
180	CM117-3-2-1-1-1-2-1	2.0	3.0	1.3	3.0	2.0	4.0	5.0	3.5	3.0	1.0	5.2	3.5	100.0	0.0	100.0	25.0
181	JCY3-7-1-2-1-B-2-3-2-7-1-2-2	2.5	3.5	2.0	3.5	2.0	4.0	5.0	4.0	3.0	1.5	4.6	3.0	100.0	57.1	100.0	60.0
182	JCY3-7-1-2-1-B-2-3-2-1-3-1	2.5	4.0	2.5	2.5	2.5	4.0	5.0	5.0	3.0	2.0	4.2	3.5	100.0	41.7	100.0	77.7
183	JCY3-7-1-2-1-B-2-3-2-1-3-2	2.5	4.0	2.0	3.0	3.0	4.0	*3.0	4.0	2.0	3.2	7.0	3.5	100.0	91.7	83.3	77.7
184	JCY3-7-1-2-2-1-3-1-1-2-7-1-2-5	2.5	3.5	1.8	3.0	3.0	4.0	5.0	5.0	2.0	2.2	4.2	5.0	100.0	76.5	100.0	16.6
185	JCY2-2-4-1-1-1-3-1-3-1	2.5	3.0	1.0	2.5	2.0	4.0	-	3.0	3.0	1.1	4.8	4.0	66.6	44.4	66.7	28.5
186	42050-1-1-2-1-3	2.5	2.5	1.0	2.0	1.5	3.0	-	5.0	3.0	1.1	4.8	3.5	100.0	100.0	0.0	50.0
187	CM117-3-4-1-2-1-1	2.0	2.5	1.0	2.5	2.0	3.0	-	4.0	2.0	1.0	5.7	3.5	71.4	18.2	75.0	-
188	JCY3-7-1-2-1-B-1-1-2-3-1-1	2.5	3.0	1.0	3.0	2.0	2.0	-	5.0	2.0	4.3	4.7	4.0	100.0	26.7	100.0	50.0
189	CM117-3-4-1-2-5-2	1.5	3.5	1.0	2.0	2.0	4.5	5.0	5.0	3.0	1.5	4.1	4.0	50.0	25.0	71.4	-
190	JCY3-7-1-2-2-1-3-1-1-2-7-1-1-1	1.5	3.0	1.0	2.0	1.5	3.0	5.0	5.0	2.0	1.5	3.7	4.0	100.0	43.7	100.0	100.0
191	LM13	2.5	3.0	1.5	2.0	3.0	3.5	5.0	3.0	3.0	1.7	2.8	4.0	66.6	0.0	66.7	50.0
192	CM117-3-4-1-2-2-3	2.5	3.0	1.8	2.0	2.5	3.5	5.0	3.0	2.0	1.2	3.5	3.5	100.0	0.0	42.9	14.0
193	JCY3-7-1-2-1-B-2-1-2-1	3.5	3.0	2.3	4.5	3.0	3.0	5.0	3.0	2.0	3.5	3.6	4.5	25.0	13.3	25.0	88.8
194	SW-93D-313-23-POP-49-S4-1-3-1	2.5	2.5	1.0	2.0	2.5	4.5	-	3.0	2.0	1.5	3.6	4.0	83.3	0.0	66.7	55.5
195	CML44	1.5	4.0	2.0	2.5	1.5	2.0	5.0	1.0	2.0	3.3	4.7	4.5	100.0	66.7	37.5	80.0
196	SKV18	1.5	2.0	2.0	2.5	2.0	4.0	-	5.0	2.0	2.4	5.5	2.0	100.0	22.2	100.0	50.0
197	JCY3-7-1-2-1-b-2-3-2-3-1-1-1	1.5	4.0	2.0	4.5	2.5	5.0	5.0	4.0	1.0	1.2	4.5	4.0	85.7	90.9	50.0	100.0
198	LTP1	3.0	3.5	2.0	3.5	2.5	5.0	5.0	3.0	3.0	2.0	4.5	4.0	100.0	14.3	60.0	72.7
199	LTP4	2.0	3.5	1.0	2.0	1.5	4.0	5.0	3.0	2.0	1.4	4.5	3.5	100.0	50.0	0.00	71.4
200	LM13-3	2.0	3.0	1.0	2.5	2.0	3.5	5.0	1.0	3.0	2.5	5.2	3.0	100.0	100.0	14.29	33.3

Table : 12 Evaluation of Maize Inbred Lines against TLB & Polysora rust at Mandya in Kharif 2010

S.NO	Pedigree	TLB (1-5)	P. rust (1-5)
NAI Series			
1	NAI – 102 – X – MA – 2009R	2.0	2.0
2	NAI – 104 – # – MA – 2009R	2.0	2.0
3	NAI – 109 – X – MA – 2009R	3.0	3.5
4	NAI – 113 – # – MA – 2009R	4.0	3.0
5	NAI – 116 – # – MA – 2009R	2.0	2.0
6	NAI – 117 – # – MA – 2009R	5.0	3.0
7	NAI – 123 – # – MA – 2009R	4.0	3.5
8	NAI – 125 – X – MA – 2009R	3.0	2.5
9	NAI – 127 – # – MA – 2009R	3.0	3.0
10	NAI – 132 – # – MA – 2009R	4.5	4.0
11	NAI – 137 – X – MA – 2009R	3.0	2.5
12	NAI – 138 – # – MA – 2009R	2.0	5.0
13	NAI – 139 – # – MA – 2009R	3.5	3.0
14	NAI – 142 – X – MA – 2009R	2.0	2.0
15	NAI – 143 – # – MA – 2009R	2.5	2.5
16	NAI – 147 – X – MA – 2009R	2.0	2.0
17	NAI – 149 – X – MA – 2009R	2.0	4.0
18	NAI – 151 – # – MA – 2009R	2.5	3.5
19	NAI – 154 – X – MA – 2009R	3.0	4.0
20	NAI – 158 – # – MA – 2009R	3.5	3.0
219J		4.5	4.5
21	NAI – 161 – X – MA – 2009R	2.0	2.0
22	NAI – 162 – X – MA – 2009R	3.5	4.0
23	NAI – 165 – # – MA – 2009R	3.0	5.0
24	NAI – 167 – X – MA – 2009R	4.5	4.0
25	NAI – 191 – # – MA – 2009R	4.0	3.0
26	NAI – 169 – X – MA – 2009R	2.5	2.5
27	NAI – 170 – # – MA – 2009R	3.0	3.5
28	NAI – 171 – X – MA – 2009R	4.0	4.0
29	NAI – 173 – # – MA – 2009R	3.5	4.0
30	NAI – 174 – # – MA – 2009R	4.0	4.5
31	NAI – 175 – X – MA – 2009R	2.0	2.0
32	NAI – 176 – # – MA – 2009R	2.0	2.0
33	NAI – 177 – # – MA – 2009R	3.5	4.0
34	NAI – 178 – X – MA – 2009R	3.5	3.0
35	NAI – 179 – # – MA – 2009R	2.0	2.0
36	NAI – 180 – X – MA – 2009R	2.0	2.0
37	NAI – 181 – # – MA – 2009R	3.5	3.0
38	NAI – 188 – X – MA – 2009R	3.5	2.5
39	NAI – 190 – # – MA – 2009R	4.0	3.0
40	NAI – 193 – # – MA – 2009R	4.0	2.5
219J		4.5	4.5
41	NAI – 194 – # – MA – 2009R	4.0	5.0
42	NAI – 197 – X – MA – 2009R	2.0	1.5
43	NAI – 199 – # – MA – 2009R	3.0	5.0

44	NAI – 200 – X – MA – 2009R	4.5	4.0
45	NAI – 201 – X – MA – 2009R	4.5	3.0
46	NAI – 203 – # – MA – 2009R	2.5	4.5
47	NAI – 204 – # – MA – 2009R	2.5	3.0
48	NAI – 207 – X – MA – 2009R	2.0	2.0
49	NAI – 208 – # – MA – 2009R	2.5	3.0
50	NAI – 209 – # – MA – 2009R	2.0	2.0
51	NAI – 212 – # – MA – 2009R	4.0	3.0
52	NAI – 213 – # – MA – 2009R	3.5	4.5
53	NAI – 214 – X – MA – 2009R	3.0	4.5
54	NAI – 215 – # – MA – 2009R	3.0	3.0
55	NAI – 216 – # – MA – 2009R	3.5	3.0
56	NAI – 217 – # – MA – 2009R	4.0	3.0
57	NAI – 218 – # – MA – 2009R	3.0	4.5
58	NAI – 219 – # – MA – 2009R	4.5	3.0
59	NAI – 220 – # – MA – 2009R	3.5	3.5
60	NAI – 221 – # – MA – 2009R	3.5	3.5
	219J	5.0	5.0
61	NAI – 222 – X – MA – 2009R	3.0	3.5
62	NAI – 223 – X – MA – 2009R	3.5	3.5
63	NAI – 224 – X – MA – 2009R	2.5	3.5
64	NAI – 225 – X – MA – 2009R	4.5	3.5
65	HI – 55 – X – MA – 2009R	2.5	3.5
66	KUI– 1411 – # – MA – 2009R	2.0	2.0
67	KUI– 1411A – # – MA – 2009R	3.5	4.5
	U – Series		
68	U – 139 – # – MA – 2009R	2.0	4.0
69	U – 209 – # – MA – 2009R	4.5	4.5
70	U – 295 – X – MA – 2009R	3.5	4.5
71	U – 298 – # – MA – 2009R	4.0	3.0
72	U – 488 – # – MA – 2009R	3.5	3.0
73	U – 536 – # – MA – 2009R	3.5	3.0
74	U – 586 – # – MA – 2009R	2.5	4.0
	MAI Series		
75	MAI – 105 – X – MA – 2009R	3.50	2.50
76	MAI – 110 – X – MA – 2009R	3.00	3.50
77	MAI – 112 – X – MA – 2009R	2.00	4.50
78	MAI – 114 – X – MA – 2009R	2.50	4.50
79	MAI – 121 – X – MA – 2009R	2.00	3.00
	CM Series and Other Series		
80	CM – 115 – # – MA – 2009R	4.0	4.0
	219J	4.5	4.5
81	CM – 118 – # – MA – 2009R	3.5	4.5
82	CM – 119 – X – MA – 2009R	3.5	3.0
83	CM – 122 – # – MA – 2009R	3.5	3.5
84	CM – 131 – # – MA – 2009R	3.5	4.0
85	CM – 137 – X – MA – 2009R	4.5	3.5
86	CM – 138 – # – MA – 2009R	4.5	4.0
87	CM – 142 – X – MA – 2009R	4.5	3.5
88	CM – 145 – # – MA – 2009R	3.0	3.0
89	CM – 205 – # – MA – 2009R	3.0	3.5
90	CM – 212 – # – MA – 2009R	4.5	4.0
91	MO – 17 – # – MA – 2009R	3.0	3.5

CML Series			
92	CML - 135 - X - MA - 2009R	4.0	5.0
93	CML - 140 - X - MA - 2009R	3.5	4.0
94	CML - 247 - X - MA - 2009R	2.0	2.0
95	CML - 248 - X - MA - 2009R	2.5	3.5
96	CML - 404 - X - MA - 2009R	4.5	4.0
97	CML - 410 - X - MA - 2009R	2.0	2.0
98	Plot - 61182 - X - MA - 2009R	3.5	4.0
99	Plot - 61185 - X - MA - 2009R	2.5	3.5
100	Plot - 61186 - # - MA - 2009R	4.0	2.0
219J			
101	Gen - 6014 - X - MA - 2009R	4.0	4.5
HKI Series			
102	HKI - 34 - X - MA - 2009R	2.0	2.0
103	HKI - 164 - TLB - 4 - 7 - X - MA - 2009R	2.0	2.0
104	HKI - 209 - X - MA - 2009R	4.5	5.0
105	HKI - 287 - # - MA - 2009R	2.0	3.0
106	HKI - 488 - # - MA - 2009R	2.0	3.5
107	HKI - 577 - X - MA - 2009R	3.5	3.0
108	HKI - 5072 - 2 - BT - # - MA - 2009K	5.0	4.0
109	HKI - Taller - X - MA - 2009R	4.5	3.0
110	HKI - Tall - 8 - 1 - 1 - # - MA - 2009R	3.5	3.0
111	LMP - 3 - X - MA - 2009R	2.0	2.0
Sweet Corn			
112	DMSC - 4 - # - MA - 2009R	4.5	4.0
113	DMSC - 14 - # - MA - 2009K	4.0	4.0
114	DMSC - 15 - X - MA - 2009R	4.5	4.0
115	DMSC - 18 - # - MA - 2009R	4.5	4.0
116	DMSC - 19 - X - MA - 2009R	4.5	4.5
117	DMSC - 24 - # - MA - 2009R	4.5	4.5
118	DMSC - 30 - X - MA - 2009R	4.5	4.5
Pop Corn			
119	WINPOP - 26 - # - MA - 2009R	3.0	3.5
120	WINPOP - 45 - X - MA - 2009R	3.5	3.5
219J			
121	WINPOP - 47 - X - MA - 2009R	5.0	4.0
122	WCP - 1 - X - MA - 2009R	3.0	3.0
123	WCP - 6 - # - MA - 2009R	2.0	3.5
124	HP - 34 - 6 - X - MA - 2009R	3.5	3.5
125	HP - 34 - 11 - X - MA - 2009R	4.0	3.0
126	HP - 35 - X - MA - 2009R	3.0	3.5
Sehgal Foundation Maize Inbred Lines			
127	CML - 424 - X - MA - 2009R	4.5	3.0
128	CML - 113 - X - MA - 2009R	3.5	4.0
129	CML - 134 - X - MA - 2009R	3.0	3.0
130	CML - 124 - X - MA - 2009R	2.0	2.0
131	CML - 336 - # - MA - 2009R	3.0	3.0
132	CML - 436 - X - MA - 2009R	3.5	3.0
133	CML - 362 - X - MA - 2009R	3.0	2.5
134	CML - 363 - X - MA - 2009R	3.0	2.0
135	CML - 439 - # - MA - 2009R	4.0	3.0
136	CML - 299 - X - MA - 2009R	3.0	2.5
137	CML - 300 - X - MA - 2009R	3.5	2.0
138	CML - 413 - X - MA - 2009R	2.0	3.5

139	CML – 480 – X – MA – 2009R	2.0	2.0
140	CML – 481 – # – MA – 2009R	3.0	3.0
	219J	4.5	4.5
141	CML – 139 – X – MA – 2009R	2.0	2.0
	CIMMYT Maize Inbred Lines		
142	Pop. 446 c1 F2-346-2-B-3-6-B-B – X – MA – 2009R	4.0	3.0
143	(CLQ-RCYQ31xCLQ-RCYQ35)-B-5-5-B-B – X – MA – 2009R	3.0	3.5
144	CA003134-B-B-B – # – MA – 2009R	3.0	2.0
145	(CL-RCY003 x P79RH-59-3-4-1-1-#-#)-1-46-1-B-B – X – MA – 2009R	2.0	2.0
146	(P390bcoC3 F191-1-1-1-4-B-B-B-B) x (P73TLC3#-115-1-4-#)-1-2-8) x RCW01)-1-66-B-B – X – MA – 2009R	3.0	2.5
147	Pop.445 c1 F2-219-2-B-B-B-B – X – MA – 2009R	3.0	3.5
148	(CLQ-RCYQ28xP390Am/CML c4 F218-B-1-B)-B-44-1-B-B – # – MA – 2009R	2.0	2.0
	CIMMYT 09LET054		
149	((CL-G2501xCL-RCW29)-B-14-1-B-2-BxCML 161)-B-2-2-B-B-1-B – X – MA – 2009K	3.5	4.0
150	(CLQ-RCYQ 46 x CLQ-RCYQ14=(CML 164*CML 161)-B-1-1-1-B-B-B)-B-42-2-B-B-2-B – # – MA – 2009K	3.5	3.0
151	(CML 170 x SCB/FAW-GCA-YELLOW.114-1-1-2-1)-B-5-1-B-B-3-B – X – MA – 2009K	4.0	3.5
152	(CLQ-RCYQ14=(CML 164*CML 161)-B-1-1-1-B-B-B x P390Am/CML c4 F218-B-1-B)-B-1-2-B-B-2-B- # – MA – 2009K	4.0	3.0
153	(CML 161 x CML 451)-B-17-1-B-B-2-B – X – MA – 2009K	3.5	4.0
154	(CML 161 x CML 451)-B-18-1-B-B-B-B-1-B – X – MA – 2009R	3.5	5.0
155	(CLQ-RCYQ44=(CML 150 x CL-03618)-B-16-1-2-B x CLQ-RCYQ14=(CML 164*CML 161)-B-1-1-1-B-B-B)-B-20-1-B-B-1-B – X – MA – 2009R	3.5	4.0
	CIMMYT 09LET064		
156	Pop.61C1 QPM TEYE-45-1-2-2-1-B-1-B – X – MA – 2009K	3.5	4.0
157	Pop.61C1 QPM TEYE-88-1-3-2-1-B-1-B – X – MA – 2009K	3.5	4.5
	CIMMYT 09LET074		
158	POOL 16 BNSEQ.C3 F19 x 6-3-1-2-2-B-B – X – MA – 2009K	3.0	4.0
159	La Posta Seq C7-F103-1-2-2-3-B-B-B-B – X – MA – 2009K	4.0	4.5
	219J	4.5	4.5

Table: 13 Evaluation of maize genotypes against PFSR – Kharif 2010 at Hyderabad, Ludhiana, Delhi & Udaipur during kharif 2010.

S.No.	Plot No.	Pedigree	PFSR (1-9)			
			HYD	LUD	DEL	UDP
1	10101	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-1	1.1	3.2	3.7	2.8
2	10102	JCY3-7-1-2-1-'b-1-1-2-6-1-1	1.1	4.8	1.0	2.9
3	10103	JCY3-7-1-2-1-'b-1-1-2-6-1-2	1.0	4.0	1.6	3.0
4	10104	JCY3-7-1-2-1-'b-1-1-2-3-1-1	1.6	5.2	2.5	3.6
5	10105	JCY3-7-1-2-1-'b-1-1-2-3-1-2	4.7	3.8	1.0	3.9
6	10106	JCY3-7-1-2-1-'b-1-1-2-5-1-1	2.6	4.3	2.3	4.5
7	10107	JCY3-7-1-2-1-'b-1-1-2-5-1-2	1.8	5.0	1.8	5.6
8	10108	JCY3-7-1-2-1-'b-2-3-2-2-1-1	1.8	5.0	2.2	3.7
9	10109	JCY3-7-1-2-1-'b-6-1-1-1-1-1	1.8	3.5	1.0	4.6
10	10110	JCY3-7-1-2-1-'b-6-1-1-1-1-2	1.1	5.2	2.2	5.2
11	10111	CM-117-3-4-1-1-1-1	2.1	5.0	3.0	3.2
12	10112	CM-117-3-4-1-2-1-1	1.1	5.8	2.3	3.9
13	10113	CM-117-3-4-1-2-2-1	1.2	5.6	1.7	3.6
14	10114	CM-117-3-4-1-2-2-2	1.7	4.8	1.6	3.7
15	10115	CM-117-3-4-1-2-3-1	1.1	5.0	1.4	3.8
16	10116	CM-117-3-4-1-2-4-1	1.0	6.6	1.0	2.8
17	10117	CM-117-3-4-1-2-5-1	1.1	5.0	1.0	3.7
18	10118	CM-117-3-4-1-2-5-2	1.5	4.0	1.0	2.7
19	10119	JCY3-7-1-2-1-'b-2-3-2-1-3-1	2.0	5.0	2.3	5.3
20	10120	JCY3-7-1-2-1-'b-2-3-2-1-3-2	1.0	4.0	1.0	6.0
21	10121	42048-2-2-1-1-1-1	1.3	5.7	1.6	4.7
22	10122	42048-2-2-1-1-1-3	2.1	6.0	1.4	4.7
23	10123	42048-2-2-1-1-2-1	1.5	3.6	1.4	4.6
24	10124	42048-2-2-1-1-2-2	2.7	3.8	1.0	4.5
25	10125	42050-1-1-2-1-1	1.0	3.7	1.2	4.2
26	10126	42050-1-1-2-1-2	1.1	4.5	1.0	4.6
27	10127	42050-1-1-2-1-3	1.5	3.8	1.7	5.2
28	10128	JCY3-7-1-2-2-1-3-1-1-2-7-1-1-4	5.8	2.7	2.0	5.9
29	10129	JCY3-7-1-2-2-1-3-1-1-2-7-1-2-5	5.0	3.4	1.0	4.8
30	10130	CML 3	1.6	4.0	4.0	4.4
31	10131	CML 370	1.5	4.8	4.0	4.6
32	10132	CML 389	1.7	6.0	2.7	4.1
33	10133	TL02A-1184A-32	1.2	3.6	2.5	5.1
34	10134	AF04B-5427-93	1.1	5.2	3.3	3.8
35	10135	CM-117-3-2-1-1-1-2-1	1.2	4.0	1.0	3.5
36	10136	JCY3-7-1-2-1-'b-6-1-2-1	2.3	5.5	2.2	6.1
37	10137	CML 432	1.5	8.0	1.0	4.8
38	10138	CML 248	2.3	4.2	1.8	7.3
39	10139	CML 311	1.2	7.0	2.1	3.5
40	10140	CML 44	2.3	5.0	1.0	4.4
41	10141	CML 311	2.3	4.0	2.0	5.0
		CHECK	5.2	-	-	-
		Tak Local	-	-	-	5.5
		HM-5	-	-	-	9.0

Table : 14 Evaluation of maize genotype (Breeders seed) against RDM at Udaipur Kharif 2010

S.No	Pedigree	RDM (%)	Cyst/plant (n=5)
1	Navjot	80.0	17-25
2	HQPM-1	76.0	4--9
3	EHQ-16	37.5	22-29
4	Bio-9681	13.0	24-31
5	EC-3161	25.0	13-24
6	PREKASH	68.0	15-21
7	EH-2074(EJ-582XM10(WN)	100.0	5--9
8	EH-2094	47.0	5--8
9	SEED TECH 2324	25.0	11--16
10	DMR-WN-8	60.0	13-24
11	EI-586-3	57.1	11--18
12	EI-582-3	25.0	18-27
13	Jcy ₂ -4-1	66.6	15-22
14	Jcy ₃ -7-A	75.0	10--17
15	NP06-07-R-73-1A	100.0	8--14
16	EI-586-1-6-15-2	35.3	19-28
17	EI-586-1-6-16-3	26.6	13-21
18	LM 10-WN-1-3	100.0	14-19
19	LM 10-WN-1-4	0.0	13-23
20	EI-561-2-8-8	68.0	18-25
21	EI-561-2-9-9	50.0	17-28
22	HO6R-3136-68-3-1	0.0	21-33
23	EI-460-3	83.3	12--21
24	PEMH-2	-	33-42
	Surya	38.1	-

Table : 15 Evaluation of High Oil Maize Inbred Lines against TLB & Polysora rust at Mandya in Kharif 2010

S.No	Pedigree	TLB (1-5)	P.rust (1-5)
1	HKI – Taller – X – MA – R2009	4.5	5.0
2	HKI – Tall – 8 – 1 – 1 – # – MA – R2009	4.5	4.0
3	DMHOC – 1 – # – MA – R2009	5.0	5.0
4	DMHOC – 4 – X – MA – R2009	3.5	3.0
5	DMHOC – 14 – X – MA – R2009	4.0	4.5
6	DMHOC – 15 – X – MA – R2009	3.5	4.5
7	Ae – 40 – # – MA – R2009	4.5	4.5
8	ENT – 1 – # – MA – R2009	5.0	4.0
9	NAB – 1 (W) – X – MA – R2009	4.0	4.0
10	NAB – 2 (Y) – # – MA – R2009	5.0	4.0
	219J	5.0	5.0

Table : 16 Evaluation of Sweet Corn against PFSR at Udaipur Kharif 2010

S.No	Pedigree	PFSR (1-9)
1	SC-1454	5.3
2	SC-1454	5.5
3	SC-1454	6.5
4	SC-1454	6.3
5	SC-1454	5.7
	Talk Local	4.5
	HM-5	7.5

Table: 19 Assessment of yield loss due to BL&SB Kharif 2010 at Pantnagar
 Variety used – Pant Sankul Makka

Plot. No	Treatment	Stand count (net plot size)	BL&SB Scale (1-5)	Grain Yield (Kg/plot)	Grain Yield (q/ha)
1	Protected	128	2.5	11.3	60.27
2	Unprotected	120	4.0	8.3	44.27
3	Protected	123	2.5	12.5	66.67
4	Unprotected	122	4.0	7.5	40.00
5	Protected	120	3.0	12.1	64.53
6	Unprotected	119	4.0	8.2	43.73
7	Protected	124	3.0	11.6	61.87
8	Unprotected	117	3.5	8.3	44.27
9	Protected	118	3.0	11.7	62.40
10	Unprotected	120	3.5	8.3	44.27
11	Protected	125	2.0	15.0	80.00
12	Unprotected	124	3.0	10.9	58.13
13	Protected	123	2.0	15.7	83.73
14	Unprotected	121	3.5	10.6	56.53
15	Protected	119	3.5	11.8	62.93
16	Unprotected	120	3.5	9.0	48.00
17	Protected	124	3.5	11.1	59.20
18	Unprotected	101	4.0	8.7	46.40

Yield of protected field =66.84 q/ ha.

Yield of un-protected field =47.29 q/ ha.

Percent yield loss = 29.25% in Pant Sankul Makka due to BLSB

Table: 20 Assessment yield loss trial due to maydis leaf blight under artificial field inoculation, kharif 2010, delhi

Test cultivar: Bio-9681
 Design : Paired plot
 Plot size: 3 X 2.25m
 Replication: 9

Date of sowing: 15.07.2010
 MLB inoculation Ist – 09.08.2010
 IInd – 16.08.2010
 Date of Observation: 28.09.2010

Replication	Mode	Rating scale (1-5)	Yield (Kg/6.75 sq.m)	Yield (q./ha.)	Remarks
R1	Protected	1.66	4.905	72.67	i. In protected plot, Dithane M-45 @0.25% was sprayed two times at 30 and 45 DAS. The crop was inoculated once with Bipolaris maydis at 25 DAS. ii. In non-protected plot, plain water was sprayed after inoculation of the plants with pathogen.
	Un-protected	2.31	3.712	54.99	
R2	Protected	1.89	4.095	60.67	
	Un-protected	2.40	3.870	57.33	
R3	Protected	1.85	5.130	76.00	
	Un-protected	2.58	4.500	66.67	
R4	Protected	2.08	5.040	74.67	
	Un-protected	2.15	4.860	72.00	
R5	Protected	1.67	4.500	66.67	
	Un-protected	2.08	4.095	60.67	
R6	Protected	1.54	4.410	65.33	
	Un-protected	2.11	4.158	61.60	
R7	Protected	1.80	4.897	72.55	
	Un-protected	1.90	4.083	60.49	
R8	Protected	1.96	4.986	73.87	
	Un-protected	2.21	4.885	72.37	
R9	Protected	1.83	4.437	65.73	
	Un-protected	2.21	3.749	55.54	

Yield of protected field =69.79 q/ ha.

Total yield of protected field= 628.15

Yield of un-protected=62.41 q/ha.,

Total yield of protected field =561.66

Per cent Yield loss= 10.58

Survey and Surveillance 2010

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Himachal Pradesh, Karnataka and Tamil Nadu.

In Rajasthan state, extensive survey during *Kahrif 2010* was done. A total of 123 fields from 24 places were visited. The major diseases which were noticed like Rajasthan Downy Mildew (RDM, *Peronosclerospora heteropogoni*), Maydis Leaf Blight (MLB – *Bipolaris maydis*), Brown spot (BS – *Physoderma maydis*), Post flowering stalk rots (PFSR – *Fusarium moniliforme*, *Cephalosporium maydis*, *Acremonium strictum*, *Macrophomina phaseolina*), Banded leaf and sheath blight (BLSB – *Rhizoctonia solani* f.sp. *sasakii*), Curvularia leaf spot (CLS – *Curvularia* spp.), Head smut (HS – *Sphacelotheca reiliana* and False smut (FS – *Ustilaginoidea virens*) from mild to severe. During extensive survey, it was found that this year the disease intensity was more as compared to last year because of high rain fall and high humidity prevailed during the cropping season. In maize growing areas of tropical region severe incidence of CLS, MLB and PFSR was noticed. In village Bhopat-Kheri, Asolion Ki Madri, Gadoli Khera, Fateh Nagar and Rundera CLS were found severe and incidence of PFSR was severe in Jawanji Ka Khera, Mavli, Intali and Rundera. Severe incidence of RDM was observed in Kalaroi and Lohira. In hilly region of maize growing areas where humidity and rainfall were comparatively higher than the plains, three major diseases viz – PFSR, CLS and MLB were severe in Alsigarh & Peepalwas and TLB was severe in Peepalwas. In the experimental fields of maize pathology unit Udaipur, the disease intensity of RDM was observed from 0-100% and FSR was from 1.6-8.3(1-9 rating scale) under artificial inoculation conditions.

In Himanchal Pradesh the maize growing areas of Distt Kullu, Mandi and Sirmour, Solan, Bilaspur, Hamirpur, Kangra & Una were surveyed. In Distt Sirmour Solan, Bilaspur, Hamirpur, Kangra & Una a total of 49 places were visited. The prevalent diseases of this area were Maydis leaf blight, Banded leaf and sheath blight, Brown spot and Erwinia Stalk Rots. The intensity of these diseases varied from locality to locality. The incidence of MLB, BLSB and Brown spot was recorded from severe to moderate. In Distt Kullu, Mandi the incidence of TLB, BLSB, MLB, was observed from severe to moderate whereas Brown spot, Curvularia leaf spot and rust were noticed from moderate to mild.

In Tamil Nadu, eight places i.e. Nammakkal, Thondamuthur, Kanuvai, Annur, Dharapuram, Karur, Dindukkal, Attur comprising 48 fields were covered (411.48 m.a.s.l.). The disease observations were taken at knee high as well as in grain filling stages. The most prevalent disease of the area was Sorghum Downy Mildew followed by TLB. The intensity of SDM was recorded from mild to moderate whereas TLB, ESR and Charcoal stalk rot was recorded in mild. The intensity of Rust was mild.

In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri comprising area of 32 hectare, were covered. The disease observations were taken at the grain filling stage. The most prevalent disease of the region was foliar disease viz - TLB and Downy mildew and mild incidence of stalk rot was also observed.

Disease distribution in India as on 2010

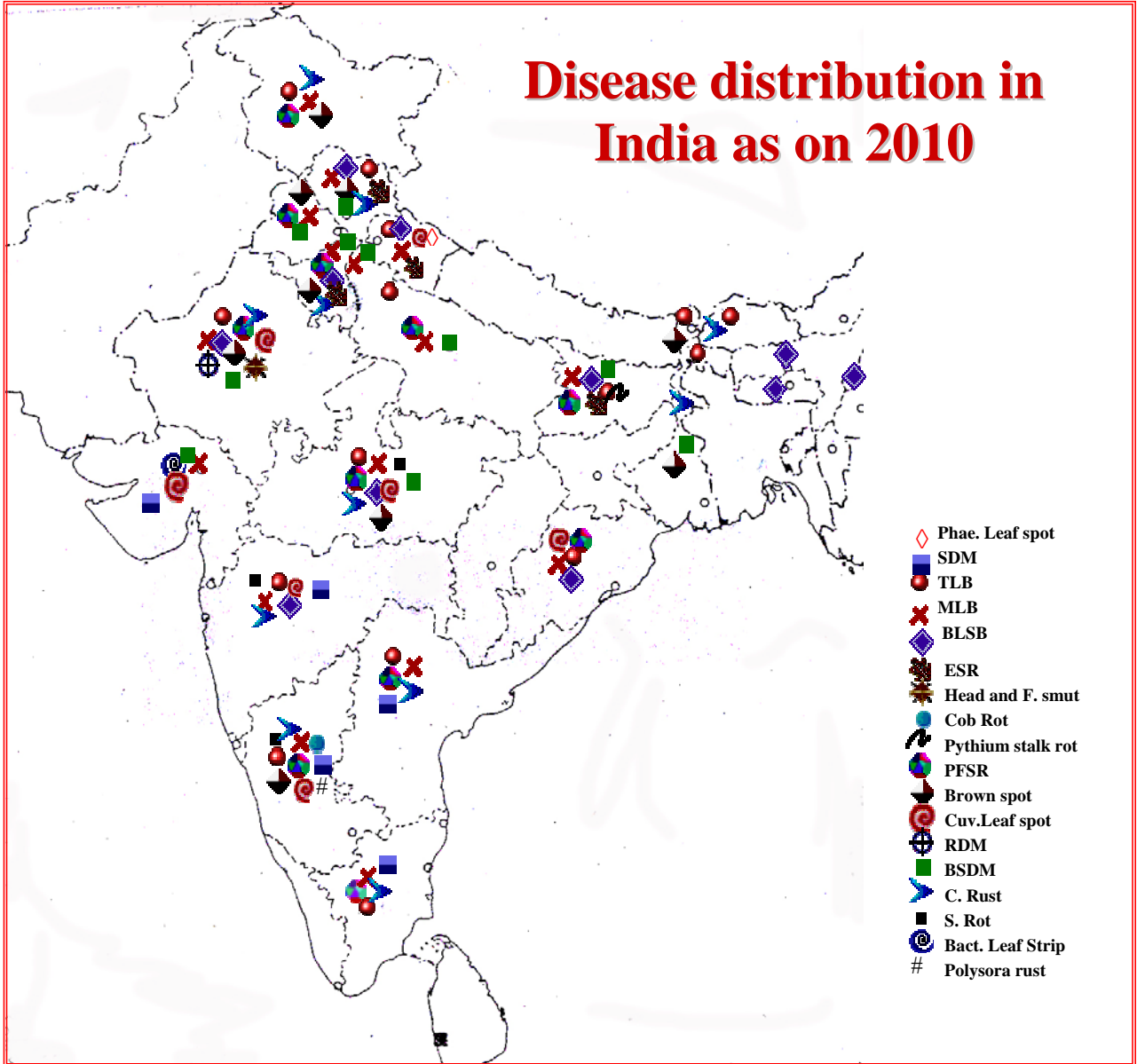


Table: 23 Occurrence of Maize Diseases based on Survey and Surveillance 2010

States	TLB	MLB	BLSB	Brown spot	Cuv. leaf spot	BSDM	RDM	SDM	ESR	PFSR	CSR	P. rust	C. rust	Head smut	Phae Leaf spot
Rajasthan. Maize Local	++	+++	++	++	+++	++	+++			+++				++	
Tamil Nadu (Knee high and grain filling stage)	+							++	+	+			+		
Karnataka (grain filling stage) Hybrid	+++	++						+++				+++	+++		
H. P. (grain filling stage) Local, KH 9451	+++	+++	+++	+++					+++						

TLB=Turcicum leaf blight
MLB=Maydis leaf blight,
BLSB=Banded leaf and sheath blight,
Cuv. Leaf spot = Curvularia Leaf Spot,
BSDM=Brown stripe downy mildew,
RDM=Rajasthan downy mildew,
ESR=Erwinia stalk rot,
PFSR= Post Flowering stalk rots,
Phae. Leaf spot = Phaeosporia Leaf Spot,
CSR= Charcoal stalk rots

+ Mild ++ Moderate +++ Severe

Table: 24 Meteorological data (Monthly average) Kharif 2010

S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
1	Almora	January	-0.3	20.7	16.5	41.5	98.0	7.41
		February	2.5	20.9	67.0	43.3	92.7	7.04
		March	7.4	27.6	0.0	33.7	90.3	8.60
		April	10.3	32.1	13.0	35.0	78.5	8.98
		May	14.8	32.1	68.5	41.4	78.7	8.48
		June	17.5	32.0	85.0	45.4	76.3	7.32
		July	20.6	28.2	368.0	75.7	93.0	3.74
		August	20.9	28.1	240.0	76.4	96.3	3.63
		September	18.5	26.9	463.5	77.6	97.1	3.20
		October	10.3	28.0	5.5	52.6	96.3	8.10
2	Dhaulakuan	June	22.9	37.9	58.2	37.0	64.0	6.6
		July	24.4	31.7	859.6	69.0	90.0	3.3
		August	24.2	30.8	761.2	74.0	93.0	2.9
		September	22.2	29.7	605.2	72.0	92.0	4.6
		October	16.1	29.9	27.6	51.0	89.0	7.8
3.	Coimbatore	August	22.1	28.6	2.5	44.0	98.0	4.8
		September	21.0	33.2	0.8	52.0	91.0	4.8
		October	22.6	32.2	5.4	63.0	93.0	7.4
		November	20.6	28.2	10.3	70.0	97.8	3.8
4	Hyderabad	June	24.7	35.2	113.7	60.0	82.0	5.7
		July	22.5	29.4	278.9	77.0	89.0	2.5
		August	22.6	30.3	203.1	75.0	91.0	4.4
		September	22.2	29.4	243.8	71.0	89.0	4.1
		October	20.6	30.1	108	63.0	86.0	5.8
		November	19.4	28.7	26.8	66.0	93.0	5.5
		December	13.2	27.8	18.2	44.0	86.0	7.2
5	Udaipur	July	24.3	31.5	95.18	71.2	87.2	3.9
		August	23.7	30.5	42.15	76.0	91.0	4.0
		September	20.7	31.0	28.4	57.8	86.3	5.8
		October	17.5	33.4	0.0	37.66	74.42	8.4
6	Mandya	January	15.9	30.3	-	42.0	90.0	7.7
		February	16.8	32.9	-	35.0	90.5	8.6
		March	19.5	35.7	7.8	34.0	91.0	8.4
		April	22.1	35.0	103.4	38.0	91.0	7.5
		May	22.3	33.5	97.8	39.0	91.0	7.7
		June	21.5	31.2	138.8	48.0	91.0	4.4
		July	20.6	29.7	121.8	53.0	91.0	4.4
		August	20.3	30.8	63.5	51.0	91.0	4.2
		September	20.4	30.1	50.6	52.0	91.0	5.6
		October	20.1	30.7	80.8	51.0	91.0	5.9
		November	20.2	31.8	84.4	52.0	91.0	5.4
S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%) AVG.		Sunshine Hrs.
			Min	Max				
7	Arabhavi	June	-	32.63	102.8	70.89	-	
		July	-	30.11	110.9	81.72	-	
		August	-	30.63	56.3	85.29	-	
		September	-	30.75	42.8	86.08	-	
		October	-	31.74	119.1	80.74	-	
		November	-	32.43	85.2	82.25	-	

Fifty 4th Annual Progress Report



Biochemistry

2010

DIRECTORATE OF MAIZE RESEARCH

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Biochemistry

1. Evaluation of QPM and normal maize germplasm for protein and tryptophan content.

After starch, the next largest chemical component of the maize kernel is protein. Protein content varies in common varieties from about 8 to 13 per cent of the kernel weight. Protein is mainly present in the endosperm and a small amount of protein is present in the germ also. Protein quality the germ is much better compared to endosperm. However, since the endosperm represents the major part of the kernel weight, therefore, it follows that, in considering the whole kernel, the essential amino acid content is a reflection of the amino acid content in the protein of the endosperm in spite of the fact that the amino acid pattern of the germ protein is higher and better balanced. Germ proteins nevertheless contribute a relatively higher amount of certain amino acids, although not enough to provide a better quality of protein of the whole kernel. Relative amounts of proteins contributed by the endosperm and germ vary and are dependent on the type of corn, genotype, texture and size.

The protein quality parameters given in Table 1 were analyzed for different inbred as well as hybrids lines obtained from various sources. A total of 220 and 204 germplasm were analyzed for protein and tryptophan, respectively. Maximum number of lines (60) falls in the range of 10 to 11 per cent of protein followed by 9-10 % (51 lines) and 11-12% (47 lines). Only 15 lines were found to be having 13 or more than 13 per cent of protein. The range of tryptophan in protein was 0.30 (HM 8) to 0.89 (HKI-191-1-2-5) per cent. A large number of lines showed less than 0.4 % tryptophan. Only 37 lines were found to possess more than 0.6 % of tryptophan in their protein. As many as 24 lines were found to be having more than 9% protein with more than 0.6% of tryptophan in their protein. The range of lysine in protein was 1.20 (HKI-1094WG) to 3.55 (HKI-191-1-2-5) per cent (Table 2). Some most promising lines for quality parameters are given in Table 3.

A total of 204 different QPM and normal maize germplasm received from different sources were evaluated for test weight and specific gravity, each. Out of the 204, 70 lines were selected for having more than 25 g/100 grain. The range of test weight was 8.8 to 38.30 g/100 grain with lowest and highest values being observed in the genotypes DMR WNC 181Y and IC 568307, respectively. The range of specific gravity was 0.82 (DMR T4) to 2.54 (HKI-15-2-2(1-3)-2) g/100 grain. Some most promising lines for test weight are given in Table 3.

Table 1: Evaluation of QPM and normal maize germplasm for quality parameters.

S. No	Pedigree	Protein (%)	Try in Protein (%)	Test Weight (g/100 grain)	Specific Gravity
1.	HQPM-1	9.91	0.76	22.60	1.19
2.	HQPM-5	9.49	0.71	28.40	1.18
3.	HQPM-7	9.83	0.68	21.80	1.21
4.	HM-4	9.07	0.35	20.30	1.13
5.	HM-8	9.81	0.37	20.80	1.16
6.	HM-9	9.29	0.30	27.10	1.13
7.	HM-10	10.53	0.38	24.80	1.13
8.	HM-5	9.63	0.33	35.10	1.17
9.	HHM-2	12.16	0.36	17.90	1.28
10.	HKI-170(1+2)*HKI-1128	10.18	0.32	24.60	1.17
11.	HM-7	11.33	0.32	25.30	1.27
12.	HKI-577	11.29	0.31	19.00	1.26
13.	HKI-1015-6	10.95	0.37	24.10	1.21
14.	HKI-11052ML(0)	9.34	0.44	25.30	1.10
15.	HKI-536 CBT	9.39	0.38	25.00	1.25
16.	HKI-161	9.05	0.39	30.00	1.20
17.	HKI-325-17A	9.00	0.38	22.20	1.24
18.	HKI-139	9.27	0.39	21.30	1.18
19.	HKI-288-2	10.81	0.30	21.80	1.21
20.	HKI-1128	10.45	0.39	25.10	1.14
21.	HKI-335	9.30	0.37	30.00	1.15
22.	HKI-3-4-8-6ER	8.77	0.42	27.00	1.93
23.	HKI-1332	10.04	0.37	24.20	1.21
24.	HKI-1105	7.62	0.43	30.20	1.12
25.	HKI-1011	10.66	0.31	17.80	1.27
26.	HKI-170(1+2)	10.75	0.59	16.20	1.16
27.	HKI-1105-5	10.64	0.38	25.50	2.13
28.	HKI-1040-4	10.10	0.33	23.00	1.16
29.	HKI-586-3	9.17	0.40	23.80	1.19
30.	HKI-209	9.61	0.35	22.90	1.15
31.	HKI-161T	9.05	0.58	24.10	1.15
32.	HKI-1094WG	9.68	0.30	22.60	1.26
33.	HKI-488T	9.08	0.43	24.60	1.12
34.	HKI-1032-3	9.28	0.40	24.50	1.11
35.	HKI-325-17AN	9.04	0.35	24.40	1.11
36.	HKI-295	11.02	0.30	19.70	1.09
37.	HKI-536C	9.36	0.35	26.01	1.18
38.	HKI-1025	9.78	0.33	18.20	1.21
39.	HKI-323	10.77	0.30	22.10	1.22
40.	HKI-1105-29	9.67	0.34	23.80	0.99
41.	HKI-193-1	9.34	0.60	20.30	1.13
42.	HKI-1354-2	10.57	0.40	27.30	1.94
43.	HKI-11352-58-9	10.97	0.30	20.60	1.14
44.	HKI-1344	9.97	0.33	28.10	1.12
45.	HKI-1352	10.13	0.41	23.80	1.19
46.	HKI-164-3-3-2	10.07	0.68	21.40	1.13
47.	HKI-164(1-3)ER-3	10.25	0.77	17.90	1.12

48.	HKI-164-4-(1-3)	9.36	0.78	19.40	1.08
49.	HKI-164-4(1-3)-1	9.41	0.78	19.40	1.21
50.	HKI-164-4(1-3)-2	8.73	0.85	16.80	1.12
51.	HKI-164-3-1-2-1	9.49	0.67	19.60	1.15
52.	HKI-164-7-2-1	9.96	0.82	19.40	1.14
53.	HKI-164-7-2-2	10.02	0.75	22.10	1.16
54.	HKI-164-7-7ER-1	9.95	0.67	20.30	1.07
55.	HKI-164-7-7ER-3	10.35	0.80	20.60	1.15
56.	HKI-164-7-7ER-4	9.00	0.67	21.00	1.17
57.	HKI-162	9.51	0.53	18.00	1.20
58.	HKI-169	10.24	0.72	20.50	1.28
59.	HKI-191-1-2-5	9.25	0.89	18.00	1.13
60.	HKI-193-2	8.30	0.58	19.00	1.06
61.	HKI-193-2-1	10.00	0.51	19.40	1.02
62.	HKI-194-2	10.20	0.59	25.40	1.21
63.	HKI-194-2ER-1	10.46	0.57	20.90	1.16
64.	HKI-38-2-2(1-6)	9.44	0.50	26.30	1.14
65.	HKI-HKI-164D-3-3	9.62	0.55	23.40	1.06
66.	IC 556401	11.80	0.41	19.65	1.22
67.	IC 556416	11.43	0.44	31.02	1.19
68.	IC 556419	11.64	0.36	22.72	1.13
69.	IC 556411	11.63	0.36	25.94	1.17
70.	IC 556432	12.00	0.38	25.89	1.07
71.	IC 556415	9.89	0.35	35.13	1.35
72.	IC 556424	10.98	0.45	26.41	1.10
73.	IC 556413	12.27	0.37	25.79	1.16
74.	IC 556414	11.94	0.32	22.67	1.18
75.	IC 556436	11.40	0.33	25.39	1.26
76.	IC 556431	11.89	0.34	21.85	1.09
77.	IC 556409	11.11	0.44	22.11	1.10
78.	IC 556425	12.45	0.31	19.36	1.21
79.	IC 556410	11.00	0.36	26.89	1.34
80.	IC 556433	11.62	0.42	23.35	1.16
81.	IC 556435	11.49	0.37	21.24	1.32
82.	IC 556430	11.04	0.37	30.48	1.21
83.	IC 556421	13.27	0.34	26.90	1.22
84.	IC 556400	12.50	0.40	23.66	1.18
85.	IC 556429	11.54	0.40	21.39	1.18
86.	IC 568283	11.52	0.43	30.15	1.25
87.	IC 568304	11.49	0.45	32.42	1.24
88.	IC 568298	10.43	0.48	25.57	1.06
89.	IC 568274	11.20	0.38	29.26	1.33
90.	IC 568286	11.52	0.42	29.49	1.22
91.	IC 568235	11.20	0.52	32.82	1.26
92.	IC 568307	12.21	0.48	38.30	1.19
93.	IC 568245	11.35	0.53	29.46	1.22
94.	IC 568299	10.54	0.46	34.50	1.32
95.	IC 568265	10.37	0.56	36.59	1.14
96.	IC 568269	11.12	0.52	33.24	1.10
97.	IC 568306	11.92	0.49	35.90	1.28
98.	IC 568290	11.08	0.53	37.80	1.21
99.	IC 568295	11.09	0.41	34.09	1.17
100.	IC 568293	11.54	0.46	33.26	1.27

101.	IC 568238	10.39	0.53	25.89	1.17
102.	IC 568254	10.49	0.51	28.25	1.28
103.	IC 568310	10.77	0.51	31.25	1.20
104.	IC 568292	11.39	0.47	35.59	1.18
105.	IC 568279	11.52	0.46	29.38	1.27
106.	IC 568248	10.04	0.49	33.43	1.39
107.	IC 568251	10.47	0.48	35.02	1.16
108.	IC 568243	10.70	0.48	30.99	1.29
109.	IC 568296	11.31	0.48	32.79	1.16
110.	IC 568247	10.47	0.48	33.57	1.28
111.	IC 568312	10.69	0.48	35.11	1.30
112.	IC 568256	10.43	0.49	30.43	1.26
113.	IC 568272	10.87	0.45	32.06	1.23
114.	IC 568244	10.91	0.41	28.33	1.77
115.	IC 568267	10.76	0.44	24.35	1.10
116.	IC 568282	10.85	0.45	28.66	1.24
117.	Normal white-DMR WNC NW4	10.94	0.37	18.20	1.14
118.	Normal white-DMR WNC NW6	10.59	0.42	19.90	1.24
119.	QPM Yellow-DMR WNC QPM Y2	10.29	0.49	19.50	1.08
120.	DMR WNC QPM Y3	8.93	0.69	21.00	1.05
121.	DMR WNC QPM Y4	7.61	0.85	17.51	1.09
122.	DMR WNC QPM Y5	9.08	0.81	21.10	1.05
123.	DMR WNC QPM Y6	8.73	0.79	18.46	1.15
124.	DMR WNC QPM Y9	9.72	0.59	15.43	1.10
125.	DMR WNC QPM Y10	7.89	0.74	12.94	1.07
126.	DMR WNC QPM Y11	7.61	0.83	21.25	1.06
127.	DMR WNC QPM Y12	8.28	0.56	18.81	1.34
128.	DMR WNC QPM Y13	8.83	0.76	16.40	1.02
129.	DMR WNC QPM Y14	8.09	0.80	18.17	1.13
130.	DMR WNC QPM Y15	11.11	0.74	15.00	1.07
131.	DMR WNC QPM Y21	8.60	0.64	18.66	1.16
132.	DMR WNC QPM Y22	9.34	0.60	13.77	1.14
133.	DMR WNC QPM Y23	8.50	0.64	17.70	1.10
134.	DMR WNC QPM Y24	8.64	0.76	14.96	1.06
135.	DMR WNC QPM Y26	10.81	0.65	13.90	1.15
136.	DMR WNC QPM Y32	11.06	0.32	20.86	1.15
137.	DMR WNC QPM Y33	10.82	0.31	23.84	1.19
138.	DMR WNC QPM Y34	11.66	0.30	25.30	1.14
139.	DMR WNC QPM Y36	11.02	0.57	17.10	1.22
140.	DMR WNC QPM Y37	8.69	0.62	15.83	1.31
141.	DMR WNC QPM Y39	12.46	0.30	20.74	1.29
142.	DMR WNC QPM Y41	7.99	0.46	19.47	1.08
143.	DMR WNC QPM Y42	8.19	0.58	17.90	1.11
144.	DMR WNC QPM Y43	9.61	0.31	23.35	1.16
145.	DMR WNC QPM Y47	8.00	0.50	16.40	1.17
146.	DMR WNC QPM Y48	8.39	0.57	15.50	1.29
147.	DMR WNC QPM Y49	6.89	0.55	12.88	1.28
148.	DMR WNC QPM Y 50	8.33	0.61	16.22	1.15
149.	DMR WNC QPM Y 52	11.29	0.44	16.38	1.17
150.	DMR WNC QPM Y56	8.46	0.36	25.10	1.25
151.	DMR WNC QPM Y58	9.21	0.55	31.02	1.19
152.	DMR WNC QPM Y61	9.69	0.56	16.17	1.01
153.	DMR WNC QPM Y62	9.32	0.36	19.39	1.21

154.	DMR WNC QPM Y63	8.61	0.50	15.81	1.31
155.	DMR WNC QPM Y66	8.51	0.43	18.71	1.16
156.	DMR WNC QPM Y67	10.85	0.41	24.31	1.21
157.	DMR WNC QPM Y68	8.93	0.41	24.45	1.22
158.	DMR WNC QPM Y69	8.75	0.40	22.10	1.10
159.	DMR WNC QPM Y70	10.85	0.46	20.82	1.15
160.	DMR WNC QPM Y71	9.10	0.37	24.38	1.10
161.	DMR WNC QPM Y76	10.58	0.66	17.88	1.11
162.	DMR WNC NY 18	10.08	0.50	16.12	1.15
163.	DMR WNC NY 131	10.04	0.41	20.30	1.12
164.	DMR WNC NY 144	12.43	0.31	18.16	1.13
165.	DMR WNC NY 147	11.25	0.34	17.03	1.21
166.	DMR WNC NY 153	9.65	0.45	26.68	1.21
167.	DMR WNC NY 187	9.06	0.42	19.62	1.22
168.	DMR E2	11.09	0.37	17.93	1.12
169.	DMR PF1	12.72	0.33	29.32	1.22
170.	DMR W1	12.83	0.34	13.89	1.15
171.	DMR PF3	11.49	0.37	26.26	1.31
172.	DMR T4	10.72	0.31	21.54	0.82
173.	DMR WNC NY 216	9.80	0.73	19.07	1.05
174.	DMR WNC NY 234	13.37	0.36	12.51	1.04
175.	DMR WNC NY 292	10.15	0.38	23.99	1.09
176.	DMR WNC NY 293	14.80	0.30	10.76	1.07
177.	DMR WNC NY 298	10.70	0.48	19.18	1.06
178.	DMR WNC NY 321	12.95	0.38	10.47	1.30
179.	DMR WNC SC 2	16.65	-	-	-
180.	DMR WNC SC 4	11.91	-	-	-
181.	DMR WNC SC 6	13.28	-	-	-
182.	DMR WNC SC 9	17.17	-	-	-
183.	DMR WNC SC 12	15.65	-	-	-
184.	DMR WNC SC 15	19.00	-	-	-
185.	DMR WNC SC 18	13.48	-	-	-
186.	DMR WNC SC 19	14.46	-	-	-
187.	DMR WNC SC 21	18.23	-	-	-
188.	DMR WNC SC 23	19.91	-	-	-
189.	DMR WNC SC 26	13.72	-	-	-
190.	DMR WNC SC 30	10.90	-	-	-
191.	DMR WNC SC 35	10.46	-	-	-
192.	DMR WNC SC 36	14.71	-	-	-
193.	DMR WNC SC 37	14.68	-	-	-
194.	DMR WNC SC 38	11.45	-	-	-
195.	CML 161	10.01	0.55	24.50	1.23
196.	CML 189	12.22	0.42	30.90	1.19
197.	J54MO 17-21---BC3-B-1-1-1	11.10	0.31	23.20	1.29
198.	J54MO 17-21---BC3-B-1-1-1	11.09	0.30	26.40	1.32
199.	62020/P65C2HC7957)-B-5-B-#-2-5-B-B-1-1-1-1-1-1	9.25	0.40	16.40	1.17
200.	(G25C18MH5201/P1/P2/G25C18MH520)-B-8-2-B-B-B-1-1-1-1-1-1	7.21	0.62	26.90	1.22
201.	SCEV-984QPMLOT66ENT 10.CML161.B-6-B-B-1-1-1-1-1-1	8.47	0.51	20.00	1.11
202.	SCEV-984QPMLOT57 ENT14-B-3-B-B-B-1-1-1-1-1-1	8.86	0.56	21.16	1.20

203.	DMR(QPM)-74-4-B-B-B-1-1-1-1-1-1-1-1	8.70	0.46	19.10	1.27
204.	LM5---BC3-B-1-1-1	10.13	0.35	26.00	1.13
205.	LM6---BC3-B-1-1-1-1	12.97	0.30	20.00	1.25
206.	LM9---BC3-B-1-1-1-1	11.02	0.31	25.30	1.27
207.	CM144---BC3-B-1-1-1	11.62	0.30	21.20	1.33
208.	POP65 (C5) QPM-B-B-B-1-14-1-1-1-(1)	10.01	0.40	19.60	1.31
209.	POP65 (C5) QPM-B-B-B-1-19-5-1-1-1	11.06	0.57	17.30	1.15
210.	POP65 (C5) QPM-B-B-B-1-28-4-1-1-1	11.73	0.53	23.40	1.23
211.	POP65(C5) QPM-B-B-B-1-44-1-1-1	10.14	0.62	25.00	1.25
212.	POP65(C5) QPM-B-B-B-1-44-5-1-1-1	9.48	0.42	23.10	1.16
213.	POP63(C2) QPM-B-B-B-53-18-4-1-1-1	10.04	0.62	21.70	1.14
214.	POP63(C2) QPM-B-B-B-53-18-5-1-1-1	9.27	0.45	15.00	1.25
215.	BML 6	8.11	0.52	18.00	1.29
216.	BML 7	11.76	0.38	24.60	1.37
217.	DHM 117	9.71	0.50	18.60	1.11
218.	DMR WNC 142Y	8.98	0.55	16.10	1.34
219.	DMR WNC 181Y	12.01	0.42	8.80	1.17
220.	DMR WNC 186Y	10.35	0.40	16.80	1.20

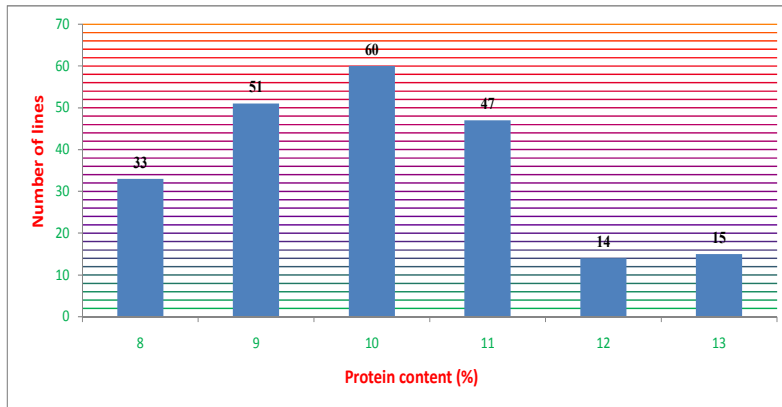


Fig: 1 Distribution of lines for protein content

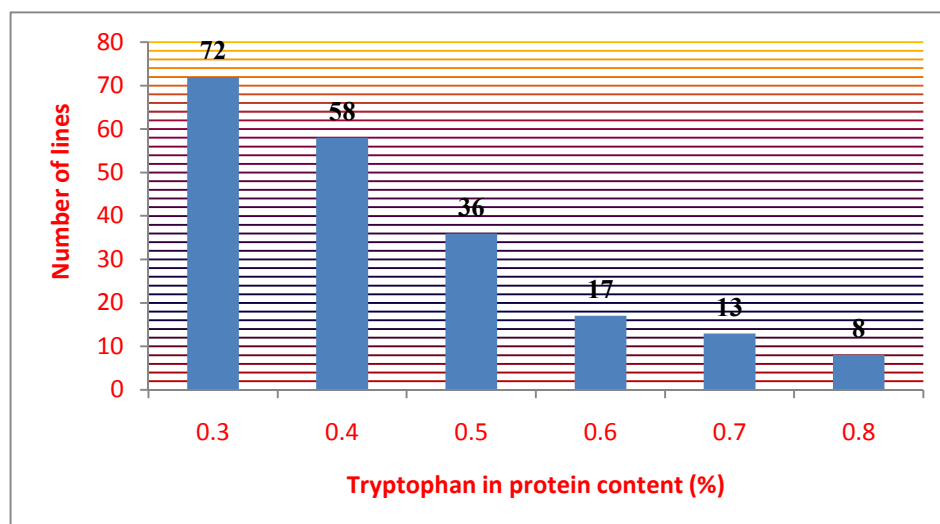


Fig: 2 Distribution of lines for tryptophan content in protein

2. Evaluation of QPM and normal germplasm for lysine content

In total 71 samples were analyzed for lysine content. The variation of lysine in protein was 1.20 (HKI-1094WG) to 3.55 (HKI-191-1-2-5) per cent. Forty three lines were having lysine in the range 1 to 2 per cent while 19 lines were having a range of 2 to 3 per cent. Moreover, 9 lines were found to possess more than 3 per cent of lysine. The data for lysine content is presented in Table 2. Some most promising lines for quality parameters are given in Table 3.

Table 2: Evaluation of QPM and normal germplasm for protein quality parameters

S. No.	Pedigree	Protein (%)	Try in Protein (%)	Lysine in Protein (%)
1	HQPM-1	9.91	0.76	3.08
2	HQPM-5	9.49	0.71	2.88
3	HQPM-7	9.83	0.68	2.70
4	HM-4	9.07	0.35	1.42
5	HM-8	9.81	0.37	1.47
6	HM-9	9.29	0.30	1.21
7	HM-10	10.53	0.38	1.54
8	HM-5	9.63	0.33	1.35
9	HHM-2	12.16	0.36	1.43
10	HKI-170(1+2)*HKI-1128	10.18	0.32	1.30
11	HM-7	11.33	0.32	1.29
12	HKI-577	11.29	0.31	1.25
13	HKI-1015-6	10.95	0.37	1.47
14	HKI-11052ML(0)	9.34	0.44	1.78
15	HKI-536 CBT	9.39	0.38	1.51

16	HKI-161	9.05	0.39	1.55
17	HKI-325-17A	9.00	0.38	1.55
18	HKI-139	9.27	0.39	1.59
19	HKI-288-2	10.81	0.30	1.22
20	HKI-1128	10.45	0.39	1.57
21	HKI-335	9.30	0.37	1.50
22	HKI-3-4-8-6ER	8.77	0.42	1.70
23	HKI-1332	10.04	0.37	1.48
24	HKI-1105	7.62	0.43	1.71
25	HKI-1011	10.66	0.31	1.25
26	HKI-170(1+2)	10.75	0.59	2.42
27	HKI-1105-5	10.64	0.38	1.50
28	HKI-1040-4	10.10	0.33	1.33
29	HKI-586-3	9.17	0.40	1.59
30	HKI-209	9.61	0.35	1.38
31	HKI-161T	9.05	0.58	2.40
32	HKI-1094WG	9.68	0.30	1.20
33	HKI-488T	9.08	0.43	1.74
34	HKI-1032-3	9.28	0.40	1.63
35	HKI-325-17AN	9.04	0.35	1.41
36	HKI-295	11.02	0.30	1.21
37	HKI-536C	9.36	0.35	1.43
38	HKI-1025	9.78	0.33	1.34
39	HKI-323	10.77	0.30	1.22
40	HKI-1105-29	9.67	0.34	1.40
41	HKI-193-1	9.34	0.60	2.50
42	HKI-1354-2	10.57	0.40	1.58
43	HKI-11352-58-9	10.97	0.30	1.21
44	HKI-1344	9.97	0.33	1.34
45	HKI-1352	10.13	0.41	1.68
46	HKI-164-3-3-2	10.07	0.68	2.76
47	HKI-164(1-3)ER-3	10.25	0.77	3.10
48	HKI-164-4-(1-3)	9.36	0.78	3.15
49	HKI-164-4(1-3)-1	9.41	0.78	3.13
50	HKI-164-4(1-3)-2	8.73	0.85	3.38
51	HKI-164-3-1-2-1	9.49	0.67	2.70
52	HKI-164-7-2-1	9.96	0.82	3.26
53	HKI-164-7-2-2	10.02	0.75	3.05
54	HKI-164-7-7ER-1	9.95	0.67	2.77
55	HKI-164-7-7ER-3	10.35	0.80	3.24
56	HKI-164-7-7ER-4	9.00	0.67	2.67
57	HKI-162	9.51	0.53	2.08
58	HKI-169	10.24	0.72	2.91
59	HKI-191-1-2-5	9.25	0.89	3.55
60	HKI-193-2	8.30	0.58	2.33

61	HKI-193-2-1	10.00	0.51	2.08
62	HKI-194-2	10.20	0.59	2.38
63	HKI-194-2ER-1	10.46	0.57	2.11
64	HKI-38-2-2(1-6)	9.44	0.50	2.10
65	HKI-HKI-164D-3-3	9.62	0.55	2.22
66	BML 6	8.11	0.52	1.98
67	BML 7	11.76	0.38	1.56
68	DHM 117	9.71	0.50	2.15
69	DMR WNC 142Y	8.98	0.55	2.20
70	DMR WNC 181Y	12.01	0.42	1.58
71	DMR WNC 186Y	10.35	0.40	1.44

Table 3: Most promising lines for protein quality parameters

S. No.	Pedigree	Protein (%)	Tryptophan in Protein (%)	Lysine in Protein (%)
1	HQPM-1	9.91	0.76	3.08
2	HQPM-5	9.49	0.71	2.88
3	HQPM-7	9.83	0.68	2.70
4	HKI-193-1	9.34	0.60	2.50
5	HKI-164-3-3-2	10.07	0.68	2.76
6	HKI-164(1-3)ER-3	10.25	0.77	3.10
7	HKI-164-4-(1-3)	9.36	0.78	3.15
8	HKI-164-4(1-3)-1	9.41	0.78	3.13
9	HKI-164-3-1-2-1	9.49	0.67	2.70
10	HKI-164-7-2-1	9.96	0.82	3.26
11	HKI-164-7-2-2	10.02	0.75	3.05
12	HKI-164-7-7ER-1	9.95	0.67	2.77
13	HKI-164-7-7ER-3	10.35	0.80	3.24
14	HKI-164-7-7ER-4	9.00	0.67	2.67
15	HKI-169	10.24	0.72	2.91
16	HKI-191-1-2-5	9.25	0.89	3.55

3. Evaluation of maize germplasm for oil estimation

Though a byproduct of maize industry, corn oil plays a significant role in human nutrition due to its quality and the presence of vitamin E, an anti-oxidant. The oil in the maize kernel comes mainly from the germ. Oil content is genetically controlled, with values ranging from 3 to 20 percent. It has low levels of saturated fatty acid i.e. on an average 11 per cent palmitic and 2 per cent stearic acid. On the other hand it contains high levels of PUFA, mainly linoleic acid with an average value of about 24 per cent. Maize oil is relatively stable since it contains high levels of natural antioxidants. Because of these qualities, oil has become by far the most valuable product of maize grain. Earlier germ containing oil were considered to be an waste product in glucose factories and corn mills, however, nowadays there is a great demand for high oil corn by these industries. Maize oil is highly regarded because of its fatty

acid distribution, mainly oleic and linoleic acids. In this respect, populations that consume degermed maize benefit less in terms of oil and fatty acids than populations that consume whole-kernel products. Therefore, breeding for higher and better oil corn is an important aspect of maize development program.

A total of 283 samples of maize (QPM, sweet corn and normal maize germplasm) received from different sources, were analyzed for oil content and the data is presented in Table 4. The oil content varied from 3.01 (IC 568290) to 9.75 (1 PRIYA* NSS2W9301A (PNSS)) per cent. Thirty seven lines out of 283 were having more than 5 per cent oil content. Some most promising lines for higher oil content are given in Table 5.

Table 4: Evaluation of maize germplasm for oil content

S. No.	Pedigree	Oil [Dry wt. basis (%)]
1	HQPM-1	5.32
2	HQPM-5	4.38
3	HQPM-7	4.17
4	HM-4	4.38
5	HM-8	3.92
6	HM-9	4.14
7	HM-10	5.22
8	HM-5	4.55
9	HHM-2	4.23
10	HKI-170(1+2)*HKI-1128	5.22
11	HM-7	4.63
12	HKI-577	4.29
13	HKI-1015-6	4.84
14	HKI-11052ML(0)	3.73
15	HKI-536 CBT	4.56
16	HKI-161	3.59
17	HKI-325-17A	3.35
18	HKI-139	4.84
19	HKI-288-2	4.59
20	HKI-1128	4.28
21	HKI-335	4.70
22	HKI-5072-2BT(1-2)-2	5.10
23	HKI-3-4-8-6ER	4.68
24	HKI-1332	4.20
25	HKI-1105	4.34
26	HKI-163	5.10
27	HKI-1011	4.00
28	HKI-170(1+2)	4.12
29	HKI-1105-5	3.95
30	HKI-1040-4	4.39
31	HKI-586-3	3.45
32	HKI-209	3.33
33	HKI-161T	3.35
34	HKI-1094WG	4.00
35	HKI-488T	3.00
36	HKI-1032-3	4.24
37	HKI-325-17AN	3.80
38	HKI-295	4.25

39	HKI-536C	4.18
40	HKI-1025	5.33
41	HKI-323	3.19
42	HKI-1105-29	4.72
43	HKI-193-1	5.22
44	HKI-1354-2	4.05
45	HKI-11352-58-9	4.96
46	HKI-1344	3.75
47	HKI-1352	4.86
48	HKI-164-3-3-2	4.18
49	HKI-164(1-3)ER-3	4.12
50	HKI-164-4-(1-3)	3.97
51	HKI-164-4(1-3)-1	4.00
52	HKI-164-4(1-3)-2	3.42
53	HKI-164-3-1-2-1	3.33
54	HKI-164-7-2-1	4.51
55	HKI-164-7-2-2	3.70
56	HKI-164-7-7ER-1	5.06
57	HKI-164-7-7ER-3	4.73
58	HKI-164-7-7ER-4	5.06
59	HKI-162	5.38
60	HKI-169	4.79
61	HKI-190	4.08
62	HKI-191-1-2-5	3.23
63	HKI-191-7	4.33
64	HKI-193-2	4.54
65	HKI-193-2-1	4.36
66	HKI-194-2	5.58
67	HKI-194-2ER-1	5.64
68	HKI-17-1-1	4.19
69	HKI-15-2-2(1-3)-2	4.86
70	HKI-38-2-2(1-6)	5.21
71	HKI-HKI-164D-3-3	5.90
72	IC 556401	4.31
73	IC 556416	3.72
74	IC 556419	4.57
75	IC 556411	4.36
76	IC 556432	4.48
77	IC 556415	3.49
78	IC 556424	4.27
79	IC 556413	4.08
80	IC 556414	3.92
81	IC 556436	4.28
82	IC 556431	4.39
83	IC 556409	4.65
84	IC 556425	3.37
85	IC 556410	4.35
86	IC 556433	4.35
87	IC 556435	4.24
88	IC 556430	4.41
89	IC 556421	4.06
90	IC 556400	3.67
91	IC 556429	4.40

92	IC 568283	3.95
93	IC 568304	3.04
94	IC 568298	3.43
95	IC 568274	3.46
96	IC 568286	3.79
97	IC 568235	3.55
98	IC 568307	3.23
99	IC 568245	3.99
100	IC 568299	3.41
101	IC 568265	3.82
102	IC 568269	3.59
103	IC 568306	3.63
104	IC 568290	3.01
105	IC 568295	3.52
106	IC 568293	4.22
107	IC 568238	3.47
108	IC 568254	3.39
109	IC 568310	4.22
110	IC 568292	3.81
111	IC 568279	3.33
112	IC 568248	4.17
113	IC 568251	3.47
114	IC 568243	3.44
115	IC 568296	3.99
116	IC 568247	3.83
117	IC 568312	3.80
118	IC 568256	4.40
119	IC 568272	4.36
120	IC 568244	4.90
121	IC 568267	3.94
122	IC 568282	4.28
123	DMR WNC HOC 2	6.52
124	DMR WNC HOC 3	5.84
125	DMR WNC HOC 4	5.36
126	DMR WNC HOC 5	6.34
127	DMR WNC HOC 6	7.37
128	DMR WNC HOC 9	4.25
129	DMR WNC HOC 13	6.44
130	DMR WNC HOC 15	6.11
131	DMR WNC HOC 18	5.22
132	DMR WNC HOC 20	4.00
133	DMR WNC HOC 23	4.72
134	DMR WNC HOC 27	5.63
135	DMR WNC HOC 28	4.39
136	DMR WNC HOC 29	4.44
137	DMR WNC HOC 31	3.54
138	DMR WNC HOC 34	3.00
139	DMR WNC HOC 35	3.61
140	DMR WNC HOC 36	3.65
141	DMR WNC HOC 37	3.00
142	DMR WNC HOC 38	3.49
143	DMR WNC HOC 42	5.68
144	DMR WNC HOC 43	4.24

145	DMR WNC HOC 45	4.80
146	DMR WNC HOC 46	3.00
147	DMR WNC HOC 53	4.69
148	DMR WNC HOC 56	3.24
149	DMR WNC HOC 59	3.92
150	DMR WNC HOC 60	4.31
151	DMR WNC HOC 61	3.89
152	DMR WNC HOC 62	4.20
153	DMR WNC HOC 65	4.48
154	DMR WC HOC 67	4.27
155	T2 str -1110	4.32
156	EC 619112	4.82
157	EC 637055	4.21
158	EC 637079	3.45
159	EC 637396	4.13
160	EC 646038	5.02
161	EC 646056	4.95
162	EC 646061	3.76
163	EC 655765	3.64
164	EC 655782	3.44
165	EC 655794	3.60
166	EC 655797	3.74
167	EC 440612	4.68
168	CML 292	4.84
169	CML 412	3.73
170	PoP.31DMR-88-3#B*B-B-B-B-1	3.58
171	G34Q22MH135-4-2-B-B*6-1B*3	3.64
172	(CML 165/AMATLCOHSTL-1-1-2-1-1-1-B-B)	4.96
173	TLWQ (HO)QPMC15-B-B-B-20-B-B	5.67
174	Hybrid 9409-B-B-B-6-B-B	4.27
175	S99TLYQ-HG-AB-B-B-B-22-B-B	4.53
176	97P65 -B-B-B-6-B-B	3.44
177	SOISIQ-B-B-B13-B-B	3.53
178	P31C4S5B-33-# - # - # -11-BBBB-B-B-7	3.60
179	P31C4S5B-33-# - # - 11-BBBB-B-B-B-2	4.09
180	(CML 150*CL-03618)-B-11-1	4.45
181	G34QC22MH135-4-2-B-B*6-13*3	3.40
182	PoP.31dmr-88-3# -B*B-B-B-B-1	3.95
183	Temp*Trop (HO)QPM-B-B-B-100-B-B	6.32
184	Hybrid 9409-B-B-B-6-B-B	3.61
185	97P65-B-B-B-6-B-B	4.18
186	CML 446	5.60
187	CML 44	4.46
188	CML 311	4.37
189	AF-04-B-5796-A-7-1-1	5.99
190	AF04B-5405-15-2	3.43
191	JCY -3-7-1-2-1-b-1-1-2-6-1-1	4.53
192	JCY3 -7-1-2-1-b-1-1-2-3-1-1	5.53
193	JCY 3-7-1-2-1-b-1-1-2-1-1-1	5.17
194	CML 342-2	3.61
195	CML 353-1	4.50
196	TLO2A-1184A-324	4.43
197	AF04B-5427-93-2	4.64

198	AF04B-5427-93-3	3.42
199	AF-04-B-5779-22-2	3.33
200	CM115-4-2	4.82
201	CML 434-1	3.26
202	10251 CML 341-1	5.08
203	Indimyt-300-A	4.58
204	Indimyt-300-B	4.47
205	Indimyt-345	5.31
206	CM-117-3-4-1-2-4-1	4.98
207	42048 -2-2-1-1-2-1	4.98
208	CML 389	4.90
209	CM-117-3-2-1-1-1-2-1	4.14
210	CP Golden Sweet-3	12.62
211	CUBA 378	5.87
212	CUBA 377	5.62
213	CUBA 380	5.83
214	DMSC 28	7.95
215	DMSC 3	9.25
216	DMSC 8	5.61
217	HKI-PC-BT-3	4.74
218	NC 392	9.00
219	NSS2W9301A (SH25h2)	7.25
220	WSCI *MUSMADHU (WMM)	8.87
221	1 PRIYA * NSS2W9301A (PNSS)	9.75
222	HKI 1094-WG	4.34
223	LM 15	3.77
224	CM 149	3.06
225	CML 139	4.80
226	CML-221-B-B	3.78
227	CML-304	3.24
228	CML 338	5.01
229	CML 24	4.52
230	CML 78	4.11
231	CML 135	4.91
232	CML 375	3.78
233	CML 494	4.01
234	HKI Tall.8-L-L	6.09
235	SHD-1 er6	4.27
236	EC 620064	4.64
237	DMR N24	4.27
238	DMR PF 6	4.52
239	CA 00106-1	5.04
240	CML 262	3.50
241	CML 114	4.05
242	T2str-110 EC 596656	3.43
243	EC 618225	3.78
244	EC 595798	2.97
245	EC 619090	4.07
246	EC 637079	3.79
247	EC 637080	4.38
248	EC 637405	5.35
249	EC 638056	3.82
250	EC 645989	3.56

251	EC 646001	4.53
252	EC 646016	4.69
253	EC 646025	2.86
254	EC 646059	3.73
255	EC 646076	3.41
256	EC 656010	4.51
257	CML 31	3.67
258	CML 118	4.52
259	CML 169	4.08
260	CML 217	3.71
261	CML 101	2.97
262	CML 262	3.57
263	Temp * Trop (HO) QPM -B-B-B-14-B-B	4.47
264	Temp * Trop (HO) QPM -B-B-B-45-B-B	4.64
265	02 Pool 33 C23	4.52
266	FRD -73	4.24
267	ICR ISAT High oil-279	4.98
268	RHORYD	3.71
269	TLWQ (HO) QPMC 15-B-B-B-59-B-B	3.69
270	TLWQ (HO) QPMC 15-B-B-B-59-B-B	4.58
271	SOOTLYQ-HQ-B-B-B-19-B-B	4.71
272	S87(P650)-B-B-B-12-B-B	4.79
273	S91SIWQ-B-B-B-2-B-B	4.76
274	S01SIWQ-2-B-B-B-2-B-B	4.09
275	S01SIYQ-B-B-B-26-B-B	4.30
276	S99SIYQ-B-B-B-3-B-B	3.48
277	S99SIYQ-B-B-B-4-B-B	4.79
278	High Oil QPMc13-B-B-B-11-B-B	3.54
279	(CML 161/CML165) -B-B-B-4-B-B	4.76
280	97P65-B-B-B-6-B-B	3.06
281	P65C6-B-B-B-3-B-B	4.33
282	P65C6 -B-B-B-23-B-B	4.72
283	POP.31DMR-88-3#-B*13-B-B-B-3	3.50

Table 5: Most promising lines with higher oil content

S. No.	Pedigree	Oil [Dry wt. basis (%)]
1	DMR WNC HOC 2	6.52
2	DMR WNC HOC 5	6.34
3	DMR WNC HOC 6	7.37
4	DMR WNC HOC 13	6.44
5	DMR WNC HOC 15	6.11
6	Temp*Trop (HO)QPM-B-B-B-100-B-B	6.32
7	CP Golden Sweet-3	12.62
8	DMSC 28	7.95
9	DMSC 3	9.25
10	NC 392	9.00
11	NSS2W9301A (SH25h2)	7.25
12	WSCI *MUSMADHU (WMM)	8.87
13	1 PRIYA * NSS2W9301A (PNSS)	9.75
14	HKI Tall.8-L-L	6.09

4. Evaluation of maize germplasm for sugar content

Sugar (other than starch) are present in small amounts in the maize kernel contains at maturity. Sugars were referred as simple sugars which consist of glucose, fructose and sucrose. In maize total sugars were present in amounts ranging from 1 to 8 per cent of the kernel weight and sucrose is the major component, found mostly in the germ. Higher levels of monosaccharides, disaccharides and trisaccharides are present in the maturing kernels. As the kernel matures, the sugars decline and starch increases. These relatively high levels of reducing sugar and sucrose are possibly the reason why immature common maize and, even more, sweet maize are so well liked by people. A total of 138 (QPM, sweet corn and normal maize germplasm) samples were received from different sources and analyzed for sugar content. Sugar content varied from 3.14 to 18.64 per cent with lowest and highest values being observed in the genotypes HKI-1015-6 and DMR WNC SC 6, respectively (Table 6). Some most promising lines for higher sugar content are given in Table 7.

Table 6: Evaluation of maize germplasm for sugar content

S. No.	Pedigree	Sugar (%)
1	HQPM-1	4.08
2	HQPM-5	3.86
3	HQPM-7	4.12
4	HM-4	4.46
5	HM-8	3.68
6	HM-9	3.68
7	HM-10	4.22
8	HM-5	4.41
9	HHM-2	4.50
10	HKI-170(1+2)*HKI-1128	3.38
11	HM-7	3.87
12	HKI-577	3.93
13	HKI-1015-6	3.14
14	HKI-11052ML(0)	3.89
15	HKI-536 CBT	4.46
16	HKI-161	3.16
17	HKI-325-17A	3.15
18	HKI-139	4.27
19	HKI-288-2	4.23
20	HKI-1128	4.29
21	HKI-335	3.42
22	HKI-5072-2BT(1-2)-2	4.31
23	HKI-3-4-8-6ER	3.74
24	HKI-1332	4.63
25	HKI-1105	3.91
26	HKI-163	4.18
27	HKI-1011	4.26
28	HKI-170(1+2)	5.05
29	HKI-1105-5	4.71

30	HKI-1040-4	6.04
31	HKI-586-3	4.29
32	HKI-209	4.57
33	HKI-161T	4.24
34	HKI-1094WG	4.85
35	HKI-488T	3.60
36	HKI-1032-3	3.73
37	HKI-325-17AN	4.19
38	HKI-295	5.20
39	HKI-536C	4.22
40	HKI-1025	4.19
41	HKI-323	3.80
42	HKI-1105-29	4.27
43	HKI-193-1	4.29
44	HKI-1354-2	4.20
45	HKI-11352-58-9	4.20
46	HKI-1344	4.14
47	HKI-1352	3.94
48	HKI-164-3-3-2	3.49
49	HKI-164(1-3)ER-3	3.83
50	HKI-164-4-(1-3)	3.27
51	HKI-164-4(1-3)-1	3.18
52	HKI-164-4(1-3)-2	3.43
53	HKI-164-3-1-2-1	3.30
54	HKI-164-7-2-1	4.02
55	HKI-164-7-2-2	3.83
56	HKI-164-7-7ER-1	3.55
57	HKI-164-7-7ER-3	3.74
58	HKI-164-7-7ER-4	3.58
59	HKI-162	4.96
60	HKI-169	5.22
61	HKI-190	5.70
62	HKI-191-1-2-5	5.61
63	HKI-191-7	3.25
64	HKI-193-2	3.72
65	HKI-193-2-1	3.74
66	HKI-194-2	3.89
67	HKI-194-2ER-1	3.54
68	HKI-17-1-1	3.72
69	HKI-15-2-2(1-3)-2	3.77
70	HKI-38-2-2(1-6)	4.23
71	HKI-HKI-164D-3-3	3.81
72	IC 556401	3.88
73	IC 556416	4.12
74	IC 556419	4.03
75	IC 556411	3.78
76	IC 556432	4.02

77	IC 556415	3.76
78	IC 556424	3.68
79	IC 556413	4.32
80	IC 556414	4.07
81	IC 556436	4.07
82	IC 556431	4.01
83	IC 556409	3.71
84	IC 556425	4.22
85	IC 556410	3.65
86	IC 556433	4.14
87	IC 556435	3.93
88	IC 556430	4.15
89	IC 556421	4.53
90	IC 556400	4.30
91	IC 556429	3.91
92	IC 568283	3.66
93	IC 568304	3.91
94	IC 568298	3.76
95	IC 568274	3.68
96	IC 568286	3.81
97	IC 568235	4.01
98	IC 568307	3.96
99	IC 568245	4.02
100	IC 568299	3.55
101	IC 568265	3.87
102	IC 568269	3.83
103	IC 568306	3.78
104	IC 568290	3.58
105	IC 568295	3.89
106	IC 568293	3.84
107	IC 568238	3.72
108	IC 568254	3.75
109	IC 568310	3.59
110	IC 568292	3.85
111	IC 568279	4.14
112	IC 568248	3.46
113	IC 568251	3.76
114	IC 568243	3.74
115	IC 568296	3.73
116	IC 568247	3.96
117	IC 568312	3.70
118	IC 568256	3.61
119	IC 568272	3.81
120	IC 568244	3.90
121	IC 568267	3.61
122	IC 568282	3.85
123	DMR WNC SC 2	5.00

124	DMR WNC SC 4	15.13
125	DMR WNC SC 6	18.64
126	DMR WNC SC 9	6.24
127	DMR WNC SC 12	6.90
128	DMR WNC SC 15	4.95
129	DMR WNC SC 18	3.69
130	DMR WNC SC 19	3.92
131	DMR WNC SC 21	4.89
132	DMR WNC SC 23	4.73
133	DMR WNC SC 26	3.97
134	DMR WNC SC 30	3.55
135	DMR WNC SC 35	4.75
136	DMR WNC SC 36	5.02
137	DMR WNC SC 37	6.61
138	DMR WNC SC 38	3.27

Table 7: Most promising lines with higher sugar content

S. No.	Pedigree	Sugar (%)
1	HKI-1040-4	6.04
2	DMR WNC SC 4	15.13
3	DMR WNC SC 6	18.64
4	DMR WNC SC 9	6.24
5	DMR WNC SC 12	6.90
6	DMR WNC SC 37	6.61

In another experiment 21 genotypes (Table 8) were evaluated for sugar content in the milking stage (18-20 days after pollination) when the average moisture content was around 70 per cent. Out of the 21 maize inbred lines, eleven lines viz: CUBA 378, CUBA 377, CUBA 380, DMSC 8, Dulce Amanillo (Su Su) HSSW(HS)C1f3(SH2SH2), NC 392, WSC 1 X MUA MADHU, DMRSC 1, SC Pool 1, and DDMSC-4-1 DR 10-2 were found to be promising with higher sugar content (more than 25%).

Table 8: Evaluation of sugar content at milking stage

S. No.	Pedigree	Sugar content (F.W. %)
1.	CP Golden Sweet 3	31.9
2.	HSSW(HS)C1f3(SH2SH2)	39.1
3.	CUBA 378	44.6
4.	HKI-PC-BT-3	17.6
5.	NC 392	38.6
6.	CUBA 377	33.0
7.	CUBA 380	42.1
8.	DMSC-37-3	15.6
9.	Dulce Amanillo (Su Su)	36.0
10.	NSS2W9301A (sh2sh2)xSweet corn	28.3
11.	WSC1 X MUS MADHU	34.7
12.	WSC1 X MUS MADHU	31.6
13.	1PRIYA X NSS2W9301A	18.2

14.	97P65-B-B-B-26-B-B	21.0
15.	951-7	19.2
16.	DMSC 28	26.9
17.	NSS2W9301A(sh2sh2)	18.7
18.	DMSC 16 WHITE	17.4
19.	DMSC 8	42.0
20.	Win Sweet Corn	26.8
21.	DMSC 14	29.6

5. Evaluation of maize germplasm for starch and carbohydrate profile

The major chemical component of the maize kernel is starch, which provides approximately 70 percent of the kernel weight. Starch is defined as the polymeric carbohydrate consisting of glucose unit joined together through α - D (1- 4) glucoside bonds. Other carbohydrates are simple sugars present as glucose, sucrose and fructose in amounts that vary from 1 to 8 percent of the kernel. The starch in maize is made up of two glucose polymers: amylose, an essentially linear molecule, and amylopectin, a branched form. The composition of maize starch is genetically controlled. In normal maize, amylose makes up 25 to 30 percent of the starch and amylopectin makes up 70 to 75 percent. Waxy maize contains a starch that is 100 percent amylopectin. An endosperm mutant called amylose-extender (ae) induces an increase in the amylose proportion of the starch upto 50 percent and higher.

A total of 122 different QPM and normal maize germplasm received from different sources were analyzed for starch content (Table 8). The range of starch varied from 58.71 to 73.41 per cent with lowest and highest values being exhibited by the genotypes HKI-164-3-1-2-1 and HKI-536 CBT, respectively. Sixty one lines, out of 122 were found to be having more than 70 per cent starch content. Seven most promising lines are mentioned in Table 9.

Table 8: Evaluation of maize germplasm for starch content

S. No.	Pedigree	Starch (%)
1	HQPM-1	70.32
2	HQPM-5	68.28
3	HQPM-7	71.25
4	HM-4	68.09
5	HM-8	73.31
6	HM-9	69.72
7	HM-10	69.23
8	HM-5	67.92
9	HHM-2	69.76
10	HKI-170(1+2)*HKI-1128	66.77
11	HM-7	69.67
12	HKI-577	72.91
13	HKI-1015-6	71.75
14	HKI-11052ML(0)	69.84
15	HKI-536 CBT	73.41
16	HKI-161	71.95

17	HKI-325-17A	71.14
18	HKI-139	71.23
19	HKI-288-2	70.88
20	HKI-1128	67.97
21	HKI-335	72.69
22	HKI-5072-2BT(1-2)-2	71.43
23	HKI-3-4-8-6ER	69.52
24	HKI-1332	70.56
25	HKI-1105	72.97
26	HKI-163	71.12
27	HKI-1011	69.25
28	HKI-170(1+2)	71.94
29	HKI-1105-5	71.03
30	HKI-1040-4	69.65
31	HKI-586-3	72.57
32	HKI-209	68.85
33	HKI-161T	68.22
34	HKI-1094WG	72.85
35	HKI-488T	71.70
36	HKI-1032-3	63.77
37	HKI-325-17AN	61.99
38	HKI-295	66.77
39	HKI-536C	68.91
40	HKI-1025	66.07
41	HKI-323	67.83
42	HKI-1105-29	68.15
43	HKI-193-1	71.23
44	HKI-1354-2	70.74
45	HKI-11352-58-9	65.80
46	HKI-1344	64.43
47	HKI-1352	71.27
48	HKI-164-3-3-2	67.14
49	HKI-164(1-3)ER-3	59.35
50	HKI-164-4-(1-3)	71.33
51	HKI-164-4(1-3)-1	62.13
52	HKI-164-4(1-3)-2	59.61
53	HKI-164-3-1-2-1	58.71
54	HKI-164-7-2-1	68.44
55	HKI-164-7-2-2	68.73
56	HKI-164-7-7ER-1	63.74
57	HKI-164-7-7ER-3	67.57
58	HKI-164-7-7ER-4	69.69
59	HKI-162	69.33
60	HKI-169	67.51
61	HKI-190	62.00

62	HKI-191-1-2-5	67.76
63	HKI-191-7	69.00
64	HKI-193-2	67.55
65	HKI-193-2-1	66.06
66	HKI-194-2	70.69
67	HKI-194-2ER-1	71.43
68	HKI-17-1-1	68.28
69	HKI-15-2-2(1-3)-2	60.61
70	HKI-38-2-2(1-6)	65.11
71	HKI-HKI-164D-3-3	65.43
72	IC 556401	71.08
73	IC 556416	71.17
74	IC 556419	70.63
75	IC 556411	70.41
76	IC 556432	70.67
77	IC 556415	69.86
78	IC 556424	69.32
79	IC 556413	70.54
80	IC 556414	70.52
81	IC 556436	70.53
82	IC 556431	70.14
83	IC 556409	70.40
84	IC 556425	71.06
85	IC 556410	70.45
86	IC 556433	70.89
87	IC 556435	70.49
88	IC 556430	70.62
89	IC 556421	70.33
90	IC 556400	71.34
91	IC 556429	70.71
92	IC 568283	70.61
93	IC 568304	69.60
94	IC 568298	70.18
95	IC 568274	70.25
96	IC 568286	70.55
97	IC 568235	70.79
98	IC 568307	71.03
99	IC 568245	70.46
100	IC 568299	69.13
101	IC 568265	69.64
102	IC 568269	69.93
103	IC 568306	70.71
104	IC 568290	70.47
105	IC 568295	70.86
106	IC 568293	70.64
107	IC 568238	68.86
108	IC 568254	69.14
109	IC 568310	69.84
110	IC 568292	70.78
111	IC 568279	70.80
112	IC 568248	69.25
113	IC 568251	69.19

114	IC 568243	70.19
115	IC 568296	70.11
116	IC 568247	68.74
117	IC 568312	69.81
118	IC 568256	69.46
119	IC 568272	70.00
120	IC 568244	68.78
121	IC 568267	68.76
122	IC 568282	70.74

Table 9: Most promising lines with higher starch content

S. No.	Pedigree	Starch (%)
1	HM-8	73.31
2	HKI-577	72.91
3	HKI-536 CBT	73.41
4	HKI-335	72.69
5	HKI-1105	72.97
6	HKI-586-3	72.57
7	HKI-1094WG	72.85

Carbohydrate Profile:

A total of 71 different germplasm were analyzed for starch, amylose in starch and amylopectin in starch (Table 10). The values of amylose in starch varied from 27.41 to 56.59 per cent with lowest and highest values being observed in the genotypes HKI-170 and HKI-190, respectively. Amylopectin content in starch ranges from 43.41 (HKI-190) to 72.59 (HKI-170) per cent. Seven most promising lines selected for amylopectin in starch are mentioned in Table 11.

Table 10: Evaluation of maize germplasm for carbohydrate profile

S. No	Pedigree	Starch (%)	Amylose in starch (%)	Amylopectin in starch (%)
1	HQPM-1	70.32	46.03	53.97
2	HQPM-5	68.28	37.84	62.16
3	HQPM-7	71.25	38.75	61.25
4	HM-4	68.09	42.15	57.85
5	HM-8	73.31	40.62	49.38
6	HM-9	69.72	47.40	52.60
7	HM-10	69.23	38.51	61.49
8	HM-5	67.92	46.85	53.15
9	HHM-2	69.76	42.69	57.31
10	HKI-170(1+2)*HKI-1128	66.77	44.60	55.40
11	HM-7	69.67	47.26	52.74
12	HKI-577	72.91	43.27	56.73
13	HKI-1015-6	71.75	42.45	57.55

14	HKI-11052ML(0)	69.84	51.40	48.60
15	HKI-536 CBT	73.41	45.02	54.98
16	HKI-161	71.95	39.12	60.88
17	HKI-325-17A	71.14	47.41	52.59
18	HKI-139	71.23	52.59	47.41
19	HKI-288-2	70.88	36.08	63.92
20	HKI-1128	67.97	41.62	58.38
21	HKI-335	72.69	43.03	56.97
22	HKI-5072-2BT(1-2)-2	71.43	42.46	57.54
23	HKI-3-4-8-6ER	69.52	45.58	54.42
24	HKI-1332	70.56	37.00	63.00
25	HKI-1105	72.97	45.29	54.71
26	HKI-163	71.12	27.72	72.28
27	HKI-1011	69.25	44.96	55.04
28	HKI-170(1+2)	71.94	27.41	72.59
29	HKI-1105-5	71.03	36.58	63.42
30	HKI-1040-4	69.65	33.96	66.04
31	HKI-586-3	72.57	39.92	60.08
32	HKI-209	68.85	38.32	61.68
33	HKI-161T	68.22	36.88	63.12
34	HKI-1094WG	72.85	40.14	59.86
35	HKI-488T	71.7	37.94	62.06
36	HKI-1032-3	63.77	42.65	57.35
37	HKI-325-17AN	61.99	49.80	50.20
38	HKI-295	66.77	38.91	61.09
39	HKI-536C	68.91	41.84	58.16
40	HKI-1025	66.07	50.64	49.36
41	HKI-323	67.83	44.71	55.29
42	HKI-1105-29	68.15	44.70	55.30
43	HKI-193-1	71.23	38.19	61.81
44	HKI-1354-2	70.74	45.56	54.44
45	HKI-11352-58-9	65.8	48.57	51.43
46	HKI-1344	64.43	38.83	61.17
47	HKI-1352	71.27	41.02	58.98
48	HKI-164-3-3-2	67.14	36.25	63.75
49	HKI-164(1-3)ER-3	59.35	37.46	62.54
50	HKI-164-4-(1-3)	71.33	33.75	66.25
51	HKI-164-4(1-3)-1	62.13	40.39	59.61
52	HKI-164-4(1-3)-2	59.61	41.75	58.25
53	HKI-164-3-1-2-1	58.71	43.43	56.57
54	HKI-164-7-2-1	68.44	34.28	65.71
55	HKI-164-7-2-2	68.73	36.21	63.79
56	HKI-164-7-7ER-1	63.74	37.14	62.86
57	HKI-164-7-7ER-3	67.57	38.15	61.35
58	HKI-164-7-7ER-4	69.69	40.71	59.29

59	HKI-162	69.33	55.32	44.68
60	HKI-169	67.51	51.68	48.32
61	HKI-190	62.00	56.59	43.41
62	HKI-191-1-2-5	67.76	37.44	62.06
63	HKI-191-7	69.00	40.22	59.68
64	HKI-193-2	67.55	33.22	66.68
65	HKI-193-2-1	66.06	37.38	62.62
66	HKI-194-2	70.69	40.10	59.90
67	HKI-194-2ER-1	71.43	34.84	65.16
68	HKI-17-1-1	68.28	35.85	64.15
69	HKI-15-2-2(1-3)-2	60.61	56.07	43.93
70	HKI-38-2-2(1-6)	65.11	52.83	47.17
71	HKI-HKI-164D-3-3	65.43	51.00	49.00

Table 11: Most promising lines with higher amylopectin in starch

S. No.	Pedigree	Amylopectin in starch (%)
1	HKI-163	72.28
2	HKI-170	72.59
3	HKI-1040-4	66.04
4	HKI-164-4-(1-3)	66.25
5	HKI-164-7-2-1	65.72
6	HKI-193-2	66.78
7	HKI-194-2ER-1	65.16

6. Evaluation of maize germplasm for carotenoid and β -carotene content

Carotenoids are widely distributed natural pigments responsible for the yellow, orange, and red colors of fruits, roots, flowers etc. They invariably occur in the chloroplasts of higher plants, although in this photosynthetic tissue their color is masked by that of chlorophyll. Carotenoids are hydrophobic, lipophilic substances, and are virtually insoluble in water. The importance of carotenoids in foods goes beyond their role as natural pigments. Biological functions and actions have been increasingly attributed to these compounds. Indeed, the provitamin A activity of carotenoids has been known for a long time. Vitamin A is provided in the diet as preformed vitamin A (retinyl ester, retinol, retinal, 3-dehydroretinol, and retinoic acid) from foods of animal origin such as liver, milk and milk products, fish, and meat or as carotenoids that can be biologically transformed to vitamin A (provitamins A), generally from plant foods.

As presented in Table 12, a total of 100 samples of QPM and normal maize germplasm received from different sources were evaluated for carotenoids and β -carotene. Out of 100, 25 lines were found to possess more than 25 $\mu\text{g/g}$ carotenoid content and only 3 lines were found to be having 4 or more than 4 $\mu\text{g/g}$ β -carotene content. The carotenoid content ranges from 1.92 (Normal white-DMR WNC NW4) to 46.24 (DMR WNC QPM Y58) $\mu\text{g/g}$ whereas the range of β carotene was 0.14 to 4.73 $\mu\text{g/g}$ with lowest values being

observed in Normal white-DMR WNC NW4 and highest in the genotype DMR WNC QPM Y34. Some most promising lines for carotenoid content are presented in Table 13.

Table 12: Evaluation of maize germplasm for carotenoid and β -carotene content

S. No.	Pedigree	Carotenoid ($\mu\text{g/g}$)	β -Carotene ($\mu\text{g/g}$)
1	Normal white-DMR WNC NW4	1.96	0.14
2	Normal white-DMR WNC NW6	1.92	0.39
3	QPM Yellow-DMR WNC QPM Y2	28.89	3.18
4	DMR WNC QPM Y3	26.87	3.32
5	DMR WNC QPM Y4	28.56	1.20
6	DMR WNC QPM Y5	29.50	1.44
7	DMR WNC QPM Y6	32.20	2.12
8	DMR WNC QPM Y9	30.42	1.59
9	DMR WNC QPM Y10	26.02	1.39
10	DMR WNC QPM Y11	33.44	2.07
11	DMR WNC QPM Y12	21.31	2.12
12	DMR WNC QPM Y13	13.33	1.30
13	DMR WNC QPM Y14	40.56	1.88
14	DMR WNC QPM Y15	39.28	1.78
15	DMR WNC QPM Y21	18.35	1.30
16	DMR WNC QPM Y22	28.81	1.92
17	DMR WNC QPM Y23	27.87	1.40
18	DMR WNC QPM Y24	20.12	1.45
19	DMR WNC QPM Y26	33.07	1.88
20	DMR WNC QPM Y33	23.33	1.60
21	DMR WNC QPM Y34	42.28	4.73
22	DMR WNC QPM Y36	31.19	2.46
23	DMR WNC QPM Y37	27.75	1.55
24	DMR WNC QPM Y41	15.91	1.88
25	DMR WNC QPM Y42	9.89	0.68
26	DMR WNC QPM Y43	13.47	1.15
27	DMR WNC QPM Y47	11.36	1.06
28	DMR WNC QPM Y48	2.90	0.97
29	DMR WNC QPM Y49	16.12	1.26
30	DMR WNC QPM Y 50	18.70	2.08
31	DMR WNC QPM Y 52	45.28	4.20
32	DMR WNC QPM Y58	46.24	3.13
33	DMR WNC QPM Y61	11.32	1.20
34	DMR WNC QPM Y62	31.74	1.99
35	DMR WNC QPM Y63	21.88	1.99
36	DMR WNC QPM Y66	29.26	2.37

37	DMR WNC QPM Y67	9.60	0.58
38	DMR WNC QPM Y68	9.48	0.49
39	DMR WNC QPM Y69	10.17	0.92
40	DMR WNC NY 18	32.68	4.24
41	DMR WNC NY 131	21.79	1.10
42	DMR WNC NY 144	21.75	2.03
43	DMR WNC NY 153	27.15	2.37
44	DMR E2	32.08	2.08
45	DMR PF1	21.65	1.88
46	DMR W1	24.01	2.70
47	DMR PF3	9.87	2.50
48	DMR T4	23.33	2.65
49	DMR WNC NY 216	25.38	1.88
50	DMR WNC NY 234	28.18	2.56

Table 13: Most promising lines with higher carotenoid content

S. No.	Pedigree	Carotenoid ($\mu\text{g/g}$)
1	DMR WNC QPM Y6	32.20
2	DMR WNC QPM Y9	30.42
3	DMR WNC QPM Y11	33.44
4	DMR WNC QPM Y14	40.56
5	DMR WNC QPM Y15	39.28
6	DMR WNC QPM Y26	33.07
7	DMR WNC QPM Y34	42.28
8	DMR WNC QPM Y36	31.19
9	DMR WNC QPM Y 52	45.28
10	DMR WNC QPM Y58	46.24
11	DMR WNC QPM Y62	31.74
12	DMR WNC NY 18	32.68
13	DMR E2	32.08