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AN OVERVIEW OF MAIZE

Maize (*Zea mays* L.) is versatile crop grown in more than 160 countries in tropical, sub tropical and temperate regions from sea level to >3000masl. In India, maize is the third most important cereal after rice and wheat that provides food, feed, fodder, and serves as a source of raw material for developing hundreds of industrial products viz., starch, protein, oil, alcoholic beverages, food sweeteners, pharma, cosmetics, bio-fuel, etc.

In India as per the latest report maize area production and productivity is 8.17 mha, 19.73 mt and >2.4 t/ha, respectively. The maize production has increased >12 times from a mere 1.73mt (1950-51) to 19.73 mt (2008-09). The demand for maize will touch 42 mt 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. These figures would remain constant for another 10-15 years

The focused research on Single Cross Hybrids (SCH) helped in addressing several issues of biotic and abiotic stresses viz. lowering water table, rising temperature, etc. The success story of single cross hybrid in US Corn Belt is well known. Its impact has been realized in China, Brazil, Canada and many other countries too. Even in USA with cultivation of OPVs the productivity remained <2.0 t/ha. And further, the results were not encouraging with the coverage of 100% area under Double Cross Hybrids (DCH) and the productivity was only 3.5 t/ha over a period of 25 years i.e from 1936 to 1960. But, with the adoption of SCH technology in 1960s USA productivity increased from 3.5t/ha (1960) to 9.68 t/ha (2008). The annual increase in productivity with 100% coverage under DCH was only 60 kg/annum in 25 years and with SCH cultivation the productivity per annum is more than double in a period of 50 years. Parallel to USA in India the productivity remained <1 t/ha for many decades. After shifting to SCH technology (2006-08), India has witnessed 30% increase in production and 27% increase in productivity with in two years with the coverage of just 20% area under SCH. There is also 15% annual increase in production and >12% increase in productivity. India became net importer to exporter. India exported 3 mt in 2007-08 and 2.8 mt in 2008-09 to nearby countries. This is a visible impact of SCH. The planning commission on agriculture has set the growth rate target of 4% and the required growth rate is 4.7%, but we are much ahead of the demand and production.

Maize is an important food and feed crop of Jammu and Kashmir. It is grown in an area of 3.16 lakh hectares with productivity of 2.0 t/ha which is lower than national average. Seeing the importance of the crop in this state ICAR decided to organise 53rd Annual Maize Workshop at Srinagar, the beautiful city of India. The maize scientists across the country, ICAR authorities, planners and administrators of Universities and the states, representatives from seed and allied industries will be meeting here nearly after three decades in SKAUST, Srinagar. 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.

RESEARCH HIGHLIGHTS

Release of new cultivars

13 hybrids and 2 composites were released by central sub Committee on Crop Standard and Notification of varieties for different agro-climatic conditions of the country. The hybrids released were- HM11, 900 M Gold and Pinnaole, EH434042, DHM111, DHM113, DHM117, JKMH- 502, PAC- 740, NK- 30, NK 6240, SMH- 3904 and DKC7074R and composites-Vivek Sankul-35 and Vivek Sankul-37.

Protection under PPV&FRA

All the applications w.r.t extant and new varieties of maize have been filed to the PPV and FRA. So far 18 varieties have been granted protection. This year certificate for 12 extant varieties (PMH-1 PEHM-3, PEEHM-5, C-14, SHALIMAR KG-1, GM2, GM-3, GM-4, GM-6, PC-3, PC-4, GAURAV, D-994) have been issued.

Evaluation of hybrid and composite yield trials

255 hybrids/composites of Normal, QPM, sweet corn, popcorn of different maturity (Late, Medium, Early, and Extra Early) were evaluated in 32 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 superior entries are in Annexure. The superior entries in AET II will be identified for release based three years data having superiority over the best check. The proposal will be discussed in the variety identification meeting.

Registration of Germplasm

Twenty inbred lines normal and QPM from SAUs and ICAR centers with useful genes were registered at NBPGR. They are HKI-47, HKI-287L, HKI-327T, HKI-326, HKI-1040-5, HKI-1341, HKI-1342, HKI-288-2, HKI-1126, HKI-1040-4, HKI-1015WG-8, HKI-1347, -4LT (normal), HKI-170(1+2), HKI-164D-4(O), HKI-164-7-6, VQL-3, VQL-8, VQL-12, VQL-16 and VQL-30 (QPM).

Development of inbreds

Development of productive inbreds lines resistant to biotic and abiotic stresses is one of important mandate of the maize project. A total of 914 inbred lines developed and evaluated at Delhi during *khariif* 2009. These lines were cleaned and desirable lines were maintained by hand pollination. A set of 217 superior inbreds were selected for increasing the seed during winter season at Hyderabad for their distribution to different maize breeding centers of the country. Another set of 2372 indigenous and exotic Germplasm procured from NBPGR was evaluated in the winter nursery, Hyderabad to know their passport data.

Inbred lines supplied to different centers

Inbreds are the strength of hybrid program. Under the "Germplasm exchange program" more than 200 desirable inbreds were supplied to various ICAR/SAUs and private sector organizations.

Winter Nursery, Hyderabad, DMR

DMR provided all the facilities to AICRP centers and ICAR institutes for raising winter crop for advancing their research. The center helps in increasing the seed of desirable lines/hybrids for their evaluation in coordinated program and other breeding purposes. As per the indent seed is supplied to various organizations from winter nursery.

Quality analysis

DMR quality laboratory acts as a service unit for quality analysis for all SAUs and ICAR institutes. >1000 maize inbred lines received from different institutes were analyzed for various quality traits viz. protein, tryptophan, lysine, oil, sugar, starch, amylopectin, amylose, carotenoids, β -carotene content etc.

- ❖ 54 lines with > 9 per cent protein and >0.6% tryptophan were identified.
- ❖ 7 lines with > 6% oil content were identified.
- ❖ 42 lines >70% starch were identified.
- ❖ 28 lines recorded >25 μ g/ g cerotenoids and 12 lines recorded > 5 μ g/g β -carotene.
- ❖ 11 lines with >85% amylopectin were identified.

Breeder Seed Production

During the year 2009, 189.3 quintals of breeder seed of parents of hybrids and composites was indented. A total of 242.51 q seed was produced. The indent is honored by almost all lines and produced in surplus quantity. Very few lines /varieties seed is being produced during rabi/spring season and the final figures will be made available by May 2010 details in Annexure.

Agronomy

Agronomic researches conducted across the agroclimatic region of the country are briefly summarised as under.

- ❖ **Genotypic response to nutrients:** All the genotypes in different maturity group trial responded to the high dose of nutrient.
- ❖ **Tillage management in maize systems:** The bed planting and zero till gave higher yield over the conventional at the different location, which save labour, fuel, water and improve soil health.
- ❖ **Site-Specific nutrient management (SSNM):** Significantly higher yield of maize was recorded under SSNM compared to state recommendations almost at all the locations.
- ❖ **Integrated nutrient management (INM):** INM on (QPM) and other specialty corn (baby corn and sweet corn) gave significantly higher yield over the sole chemical fertilizer.
- ❖ **Nitrogen scheduling in maize:** 5-splits gave remarkably higher yield over 3-split dose.
- ❖ **Intercropping systems:** The increase in profitability of intercropping with potato, pea, coriander, vegetables etc. established.

Plant Pathology

The entries with combined resistance to various diseases in Advanced yield trials (AET-II)

- ❖ Late: BH-417135 (MLB, TLB, ESR, P. RUST, C. RUST) GK-3059 (MLB, BLSE, ESR, P. RUST); KMH-3669 (MLB, BLSE, BSDM); MCH-38 (MLB, BLSE)
- ❖ Medium: BH-408005 (MLB, BLSE, BSDM, ESR); CP-828 (MLB, BLSE, RDM, PFSR, ESR, C. RUST); JH-31153 (MLB, PFSR, P. RUST, C. RUST)
- ❖ Early: R-2006-1 (MLB, BSDM, PFSR); R-2007-1 (MLB, BSDM, ESR, P. RUST, C. RUST); JH-31110 (MLB, BSDM, PFSR, ESR, C. RUST)
- ❖ Extra early: FH-3464 (MLB, BSDM, P. RUST, C. RUST); FH-3463 (MLB, BSDM)
- ❖ QPM-1: HQPM-20 (TLB, BSDM, ESR); VEHQ-3019 (MLB, TLB, BSDM, ESR); VQPMH-282 (MLB, TLB, BSDM)
- ❖ QPM-2 & 3: VEH QPM-3027 (MLB)

Identification of sources of resistance against major diseases

196 to 219 elite lines of maize evaluated against major diseases under epiphytotic conditions at various hot spots *i.e.* PFSR at Hyderabad, Udaipur, Delhi and Ludhiana, MLB at Ludhiana, TLB and Polysora rust at Mandya and Arabhavi, BLSE at Delhi, SDM at Mandya, BSDM at Pantnagar and Dhaulakuan, etc. The promising lines with resistance to multiple diseases were identified. Four inbreds *viz.* HKI 164-3(2-1)-1 and CLQRCYQ47 for MLB, HKI164-4 for TLB, and Cuba 379 for polysora rust were identified as stable sources of resistance.

Nematology

Two hundred and twenty two (222) maize entries belonging to different maturity groups were screened against cyst nematode, *Heterodera zaeae*. Maize entries *viz.* LAXMI GOLD, NMH-731, HKH-309, HKH-312, JH-31292, GK-3059, PHS-520247, KMH-3712, BISCO-855, KAVERI-25K60 showed moderately resistant reaction to *H. zaeae*.

Entomology

Hybrid/composite varieties evaluated against *Chilo partellus*: 61 entries in advanced trial evaluated under artificial infestation. Some of the less susceptible germplasm are mentioned here: Late: GK-3059 (AET 1st Yr); Medium: BH-406126 (AET 1st Yr); Early: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr); Extra Early: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr); QPM: VEH QPM-3027.

Habitat Manipulation

Maize intercropped with cowpea in 2:1 ratio is at par with Endosulfan treatment at Kolhapur, Hyderabad, Karnal and Ludhiana. Napier millet was a good trapcrop for *Chilo partellus*, marigold for *Helicoverpa armigera*, and cauliflower for *Spodoptera litura*.

Inbred evaluation:

Chilo partellus: 200 inbred lines evaluated against under artificial infestation 15 lines showed least susceptibility across the zones the results to be confirmed.

Sesumia inferens: 200 inbred lines evaluated against *Sesamia inferens* under artificial infestation DMRE-1 was least susceptible.

Re-orientation on Inbred-hybrid Technology

A three days traveling cum interaction field day seminar was organized between 6 to 9th September. Scientist from SAUs and ICAR organization participated. Scientist visited one day each at Delhi, Karnal and Ludhiana maize research farms. Various issues regarding inbred-hybrid technology, DUS etc were discussed.

Public Private Partnership (PPP) for public bred single cross hybrid seed production
PPP meet was organized at DMR on 22nd Sep 2009 under the chairmanship of Dr. S.K. Dutta, DDG (CS) to discuss seed production of promising public-bred SCH through PPP mode. They visited the field demonstration of hybrid at different places. More than 10 private companies participated. The meeting envisaged formulation of effective linkages between the public and private organizations to meet the objectives. Some of the companies have signed MOU with SAUs and ICAR institutions for public bred hybrids seed production and seed production has started on large scale.

Transfer of Technology

The Directorate of Maize Research (DMR) has provided extension service to the nation through organizing >6000 frontline demonstrations (FLDs) under Integrated Scheme on Oilseeds, Pulses, Oilpalm and Maize (ISOPOM). Cultivation of Single cross hybrids, seed production, Quality Protein Maize, baby corn, green cobs, etc. were demonstrated at farmers' field. The average yield obtained in FLDs was more than double of national average yield of maize.

DMR and Extension Division (ICAR), organized a National Workshop on "Popularization of Hybrid Maize Technologies in India through KVKs" on 18th September 2009. > 180 KVKs participated. This is a unique model to popularize Single Cross Hybrid technology and strengthening of seed production. More than ten training programmes were also conducted for imparting knowledge and skill about improved maize technologies to the officers of State Department of Agriculture and farmers. DMR also participated in eight Kisan Mela and Exhibitions in different parts of the country to popularize maize technologies and won the best stall award in Pusa Krishi Vigyan mela.

State-wise Maize Area, Production, Productivity from 2006-07 to 2008-09

State /UT	Season	Area (000 hectares)			Production (000 tonnes)			Productivity (Kg/Hectare)		
		2006-07	2007-08	2008-9	2006-07	2007-08	2008-9	2006-07	2007-08	2008-9
Andhra Pradesh	Kharif	636.0	618.0	498.0	1285.0	2141.0	1867.0	2008	4128	3147
	Rabi	190.0	267.0	354.0	1177.0	1480.0	2688.0	6198	5543	7302
	Total	726.0	786.0	652.0	2462.0	3621.0	4152.0	3398	4807	4873
Arunachal Pradesh	Kharif	42.1	39.8	38.4	57.4	61.9	48.7	1363	1338	1368
	Rabi	4.2	3.9	6.6	6.1	6.6	9.1	1488	1410	1400
	Total	46.3	42.7	42.9	63.5	67.4	58.8	1372	1344	1371
Assam		18.0	18.0	17.4	14.0	13.0	12.8	778	722	724
Bihar	Autumn	269.5	-	-	397.8	-	-	1532	-	-
	Kharif	-	263.0	245.0	-	252.0	371.8	-	958	1518
	Rabi	214.7	378.2	395.5	772.3	1203.0	1342.2	3667	3198	3394
	Gama	187.7	-	-	544.9	-	-	3249	-	-
	Total	641.9	639.8	640.5	1714.8	1455.0	1714.0	2671	2274	2676
Chhattisgarh	Kharif	97.3	105.8	100.1	119.2	166.8	140.3	1228	1587	1402
Goa	Kharif	0.1	0.1	0.1	0.5	0.5	0.8	5000	5000	6000
Gujrat	Kharif	620.0	424.0	419.0	363.0	583.0	603.0	698	1375	1439
	Rabi	-	-	80.0	-	-	136.0	-	-	1700
	Total	520.0	424.0	499.0	363.0	583.0	739.0	-	1375	1481
Haryana	Kharif	14.0	14.0	11.3	32.0	37.0	24.4	2286	2643	2159
Himachal Pradesh	Kharif	299.0	300.2	297.7	695.4	662.6	678.6	2326	2673	2273
J&K	Kharif	323.6	302.4	315.8	486.9	474.5	633.2	1505	1589	2005
Jharkhand	Autumn	230.1	-	-	276.9	-	-	1203	-	-
	Kharif	-	227.7	198.9	-	341.5	267.7	-	1500	1346
	Rabi	10.8	9.7	17.1	19.5	16.7	36.3	1806	1722	2123
Karnataka	Total	240.9	237.4	216.0	296.4	358.2	304.0	1230	1509	1407
	Kharif	866.0	1015.0	933.0	2459.0	2936.0	2832.0	2840	2893	2821
	Rabi	79.0	98.0	136.0	210.0	318.0	397.0	2658	3245	2919
	Summer	16.0	-	-	50.0	-	-	3125	-	-
	Total	961.0	1113.0	1069.0	2719.0	3254.0	3029.0	2829	2924	2833
Madhya Pradesh	Kharif	861.1	879.8	841.1	840.2	1133.1	1144.4	976	1288	1361
	Kharif	475.0	571.0	550.0	948.0	1545.0	1323.0	1996	2708	2405
	Rabi	105.0	101.0	105.0	202.0	245.0	237.0	1924	2426	2257
	Total	580.0	672.0	655.0	1150.0	1790.0	1560.0	1963	2664	2382
Manipur	Kharif	2.9	3.0	4.3	7.9	8.4	11.5	2724	2800	2674
Meghalaya	Kharif	17.0	17.1	17.1	25.0	25.1	25.7	1471	1468	1503
Mizoram	Kharif	10.4	7.2	9.2	20.2	0.5	8.9	1942	69	967
	Rabi	0.3	0.2	0.4	0.8	0.2	0.4	2667	1009	1000
	Total	10.7	7.4	9.6	21.0	0.7	9.3	1963	85	968
Nagaland	Kharif	64.4	67.0	64.4	108.3	119.8	116.9	1674	1788	1800
Orissa	Kharif	59.4	71.2	64.8	98.3	140.7	128.7	1665	1976	1996
	Rabi	1.9	2.9	2.3	4.5	6.5	6.0	2368	2241	2809
	Total	61.3	74.1	67.1	102.8	147.2	134.7	1677	1967	2007
Punjab	Kharif	154.0	153.0	151.0	481.0	521.0	514.0	3123	3405	3404
Rajasthan	Kharif	1027.7	1050.7	1052.2	1115.4	1954.4	1827.2	1085	1860	1737
	Rabi	0.7	0.6	0.7	1.0	1.0	1.0	1429	1667	1429
	Total	1028.4	1051.3	1052.9	1116.4	1955.4	1828.2	1086	1860	1736
Sikkim	Kharif	37.9	39.1	37.7	56.5	62.6	58.2	1491	1601	1544
Tamilnadu	Kharif	131.2	153.0	188.0	423.0	451.7	689.6	3224	2952	3668
	Rabi	66.6	70.5	98.6	336.1	358.9	568.2	5047	5091	5763
	Total	197.8	223.5	286.6	759.1	810.6	1257.8	3838	3627	4389
Tripura	Kharif	2.5	2.1	2.1	2.4	2.1	2.0	960	1000	952
UP	Kharif	842.0	812.0	770.0	1116.9	1167.0	1151.0	1327	1437	1495
	Rabi	30.0	26.0	29.0	47.0	42.0	47.0	1567	1615	1621
	Total	872.0	838.0	799.0	1163.9	1209.0	1198.0	1335	1443	1499
Uttaranchal	Kharif	30.0	29.0	33.0	40.0	43.0	43.0	1333	1483	1303
	Rabi	1.0	-	-	2.0	-	-	-	-	-
	Total	31.0	29.0	33.0	42.0	43.0	43.0	1355	1483	1303
WB	Kharif	39.7	34.6	36.8	86.0	72.5	97.8	2166	2095	2658
	Rabi	17.0	42.6	54.0	72.5	171.9	245.7	4265	4035	4550
	Summer	28.7	-	-	95.0	-	-	-	-	-
Total	85.4	77.2	90.8	253.5	244.4	343.5	2968	3166	3783	
A&N Island	Kharif	0.1	0.2	0.2	0.2	0.9	0.6	2000	4500	3000
Delhi	Kharif	0.1	0.1	0.1	0.1	0.1	0.1	1000	1000	1000
Others		-	178.8	-	-	277.6	-	-	-	-
All India	Kharif	6960.4	7118.7	6894.7	11556.3	15106.7	14120.5	1660	2122	2048
	Rabi	933.6	998.6	1279.1	3640.7	3848.7	5810.9	3793	3854	4387
	Total	7894.0	8117.3	8173.8	15097.0	18955.4	19731.4	1912	2335	2414

ALL INDIA AREA, PRODUCTION AND YIELD OF MAIZE FROM 1950-51 TO 2008-09

Year	Area	Production	Yield	Year	Area	Production	Yield
1950-51	3.16	1.73	547	1990-91	6.35	6.35	1159
1951-52	3.07	2.08	627	1991-92	6.36	6.36	1162
1952-53	3.81	2.87	796	1992-93	6.72	6.72	1148
1953-54	3.87	3.04	785	1993-94	6.86	7.22	1332
1954-55	3.75	2.98	794	1994-95	6.80	6.44	1458
1955-56	3.70	2.80	704	1995-96	6.80	6.84	1148
1956-57	3.78	3.08	819	1996-97	6.92	7.59	1282
1957-58	4.08	3.15	772	1997-98	6.58	6.72	1029
1958-59	4.27	3.46	812	1998-99	6.90	6.28	1386
1959-60	4.34	4.07	938	1999-00	6.92	9.65	1632
1960-61	4.41	4.08	926	1990-91	6.90	6.96	1518
1961-62	4.51	4.31	957	1991-92	6.86	6.06	1376
1962-63	4.64	4.61	992	1992-93	6.96	9.99	1676
1963-64	4.58	4.56	995	1993-94	6.00	9.80	1602
1964-65	4.82	4.66	1010	1994-95	6.14	8.88	1570
1965-66	4.80	4.82	1005	1996-98	6.98	9.53	1595
1966-67	5.07	4.89	964	1996-97	6.28	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	6.68	13.16	2000
1972-73	5.84	6.39	1094	2002-03	6.84	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	6.35	1060	2006-07	7.89	15.09	1912
1977-78	5.66	5.97	1051	2007-08	6.12	18.96	2335
1978-79	5.76	6.20	1076	2008-09	6.17	19.73	2415
1979-80	5.72	5.80	979				

WEATHER DATA

Mean maximum and minimum temperature during 2000 at various research centers of AICRP (Maize)

Centre		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Almora	Max	21.1	22.7	25.3	29.8	30.0	33.3	30.1	30.4	28.4	26.8	23.2	-
	Min	0.1	1.7	5.4	8.8	13.7	16.3	20.0	20.7	18.3	9.7	4.3	-
Ambikapur	Max	25.7	29.3	33.2	37.4	39.6	39.3	30.1	30.5	31.3	29.8	26.5	24.8
	Min	10.3	10.8	16.1	19.8	24.0	25.6	22.7	22.3	21.3	15.1	11.9	8.1
Arbhavi	Max	31.3	34.6	37.1	39.5	38.4	33.3	29.0	31.0	31.3	31.6	29.7	-
	Min	11.8	14.4	18.5	21.6	22.0	21.7	22.0	22.5	22.1	21.1	17.6	-
Hyderabad	Max	30.2	33.9	36.0	38.9	40.3	36.3	32.0	31.2	31.4	31.0	29.6	28.5
	Min	13.7	16.8	19.0	23.7	26.4	24.8	23.4	23.3	22.2	19.5	16.1	14.1
Jorhat	Max	24.0	26.4	28.8	28.5	30.5	32.8	32.9	31.8	33.0	31.0	27.1	-
	Min	11.3	13.2	15.9	20.5	23.1	25.4	26.0	25.7	25.8	21.9	16.4	-
Kangra	Max	20.6	22.4	26.4	29.3	34.6	36.4	32.4	30.3	30.0	28.2	24.1	20.3
	Min	8.0	7.0	8.8	12.4	18.4	17.8	21.9	21.9	17.8	11.6	7.0	8.2
Kolhapur	Max	31.0	27.8	36.0	37.7	35.9	31.8	28.9	28.6	29.5	31.1	29.7	30.4
	Min	15.4	14.0	20.0	22.4	22.5	22.5	21.7	21.6	21.0	19.4	18.7	14.5
Mandya	Max	31.4	34.0	34.1	35.4	33.6	31.5	29.2	30.4	30.0	31.0	30.9	-
	Min	13.6	15.4	18.7	21.2	21.5	20.4	20.4	20.4	20.5	18.8	19.2	-
Ranchi	Max	24.5	28.2	31.9	35.5	35.6	36.2	30.0	29.9	29.8	28.0	25.8	24.3
	Min	8.1	8.9	13.5	17.9	21.4	23.0	22.6	22.7	19.4	15.4	12.1	7.2

Total Rainfall (mm)

Centre	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Almora	4.0	50.0	19.0	46.5	94.0	7.5	137.5	189.5	226.0	93.5	12.5	-
Ambikapur	14.5	0.0	0.0	0.0	1.8	47.8	314.5	262.4	114.3	116.1	76.0	7.8
Arbhavi	-	-	5.8	-	56.6	115.2	70.7	29.8	96.2	306.5	56.9	-
Hyderabad	0.0	0.0	0.0	10.4	16.4	82.0	54.0	203.7	165.5	96.0	30.2	5.0
Jorhat	4.7	16.4	23.4	107.1	190.5	116.6	304.4	278.8	167.8	47.6	22.4	-
Kangra	25.6	22.9	23.5	65.0	12.2	43.2	321.4	324.4	105.7	6.3	108.3	0.0
Kolhapur	-	-	11.1	14.7	31.5	18.8	528.8	89.4	159.0	115.6	109.1	-
Mandya	-	-	31.0	44.0	142.4	60.8	24.0	204.3	131.2	47.6	62.0	-
Ranchi	1.8	0.0	5.6	2.6	132.7	40.5	267.8	256.4	430.2	86.0	15.6	9.6

LOCATIONS AND SOIL CHARACTERISTICS OF RESEARCH CENTERS

S. No.	CENTRE	LATITUDE	LONGITUDE	ALTITUDE (m)	SOIL TYPE	PH
1	Srinagar	34.08 N	74.81°E	1682	Silty clay loam	-
2	Almora	29.36 N	79.40°E	1280	Clay loam	5.8
3	Auli	30.31 N	79.34° - 10 E	2880	Sandy loam	6.7-7.1
4	Bajaura	32.2 N	77.0°E	1000	Sandy loam	6.5
5	Salooni	-	-	1768	Silty loam	6.5
6	Dhaulikuan	30.5 N	77.5°E	485	Sandy loam	6.7
7	Jorhat	26.46 N	94.16°E	91	Sandy loam	6.7
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	672	Loam to sandy loam	8.2-8.4
13	Banswara	23.5 N	73.58°E	218	Pluustertt	-
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
20	Chhindwara	21.28°N	78.10°-79- 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	78.42°E	762	Sandy loam to gravel	5.4
26	Mandya	12 N	78°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

TRIAL NO. 61 FULL SEASON MATURITY (INT)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m

LOCATION: SRINAGAR, POONCH, UDHAMPUR, BAJAURA, KANGRA, ALMORA
 BARAPANI, JORHAT, DELHI, LUDHIANA, KARNAL, PANTNAGAR
 KANPUR, VARANASI, BELIPAR, DHOLI, JASHIPUR, RANCHI
 AMBIKAPUR, HYDERABAD, KARIMNAGAR, KOLHAPUR, ARHAVI
 MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA,
 CHHINDWARA, POC, GANGA KAVERI, ADVANTA, JK AGRI,
 MONSANTO, BIOSEED, BAYER BIOSCIENCE, SYNGENTA,
 KAVERI SEED, KANCHANGA GANGA

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION			
				R1	R2	R3	
1	KNMH - 40901	ALL	DMR-1301	KARIMNAGAR	7118	7200	7216
2	KNMH - 40902	ALL	DMR-1302	KARIMNAGAR	7121	7176	7263
3	KNMH - 40903	ALL	DMR-1303	KARIMNAGAR	7147	7207	7244
4	KNMH - 40904	ALL	DMR-1304	KARIMNAGAR	7127	7182	7231
5	CMH 08 - 154	ALL	DMR-1305	COIMBATORE	7105	7196	7261
6	CMH 08 - 156	ALL	DMR-1306	COIMBATORE	7144	7199	7268
7	CMH 08 - 282	ALL	DMR-1307	COIMBATORE	7153	7177	7256
8	H K H - 406	ALL	DMR-1308	KARNAL	7106	7203	7239
9	H K H - 407	ALL	DMR-1309	KARNAL	7140	7198	7267
10	J H - 12108	ALL	DMR-1310	LUDHIANA	7138	7170	7227
11	J H - 12114	ALL	DMR-1311	LUDHIANA	7143	7201	7238
12	IDX - 2901	ALL	DMR-1312	C. POKPHAND	7104	7172	7250
13	B M H - 107	ALL	DMR-1313	BIOSTADT MHSEEDS	7109	7189	7223
14	B M H - 109	ALL	DMR-1314	BIOSTADT MHSEEDS	7146	7211	7257
15	VMH - 2000	ALL	DMR-1315	VIBHA SEEDS	7107	7167	7262
16	JCY 2-7 x HKI 163-1	ALL	DMR-1316	DMR	7116	7184	7221
17	HKI 1126 x HKI163-1	ALL	DMR-1317	DMR	7108	7159	7266
18	M C H - 39	ALL	DMR-1318	MONSANTO	7122	7212	7260
19	M C H - 40	ALL	DMR-1319	MONSANTO	7102	7194	7232
20	APSA - 91	ALL	DMR-1320	ARUNODAYA SEEDS	7101	7164	7234
21	G K - 3060	ALL	DMR-1321	GANGA KAVERI	7134	7191	7240
22	G K - 3074	ALL	DMR-1322	GANGA KAVERI	7141	7187	7241
23	G K - 3076	ALL	DMR-1323	GANGA KAVERI	7123	7186	7254
24	LAXMI GOLD	ALL	DMR-1324	YAAGANTI SEEDS	7128	7195	7264
25	LAXMI 405	ALL	DMR-1325	YAAGANTI SEEDS	7120	7179	7226
26	LAXMI 288	ALL	DMR-1326	YAAGANTI SEEDS	7152	7160	7233
27	BISCO - 74	ALL	DMR-1327	BISCO BIOSCIENCE	7145	7168	7252
28	BISCO - 574	ALL	DMR-1328	BISCO BIOSCIENCE	7136	7193	7228
29	PAC - 799	ALL	DMR-1329	ADVANTA	7148	7181	7242
30	B I O - 265	ALL	DMR-1330	BIOSEED	7111	7192	7215
31	N M H - 731	ALL	DMR-1331	NUZIVEEDU SEEDS	7130	7163	7265
32	N M H - 920	ALL	DMR-1332	NUZIVEEDU SEEDS	7154	7162	7229
33	N M H - 958	ALL	DMR-1333	NUZIVEEDU SEEDS	7124	7175	7217
34	AMAR 6669	ALL	DMR-1334	AMARESWARA AGRI	7126	7185	7237
35	OM 7878	ALL	DMR-1335	AMAR BIO-TECH	7151	7161	7258
36	JKMH - 8033	ALL	DMR-1336	JK AGRI	7110	7197	7224

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION		
				R1	R2	R3
37	JWHR - 3888	ALL	DMR-1337	7186	7210	7236
38	PRO - 377	ALL	DMR-1338	7129	7169	7222
39	PRO - 378	ALL	DMR-1339	7113	7209	7243
40	NK - 6246	ALL	DMR-1340	7135	7166	7213
41	NK - 6267	ALL	DMR-1341	7119	7208	7251
42	NK - 6607	ALL	DMR-1342	7117	7157	7253
43	NK - 6617	ALL	DMR-1343	7131	7204	7214
44	KMH - 3670	ALL	DMR-1344	7142	7165	7245
45	KMH - 548	ALL	DMR-1345	7112	7180	7230
46	X7A303	ALL	DMR-1346	7149	7178	7255
47	X8B562	ALL	DMR-1347	7137	7171	7259
48	K H - 404	ALL	DMR-1348	7155	7206	7225
49	MAIZE POLO	ALL	DMR-1349	7132	7174	7235
50	C. - 1950	ALL	DMR-1350	7133	7190	7246
51	C. - 1945	ALL	DMR-1351	7139	7202	7248
52	K F - 105	ALL	DMR-1352	7114	7183	7247
CHECKS:						
53	BIO - 9681 (C)	ALL	DMR-1353	7115	7158	7219
54	SEEDTEC - 2324 (C)	ALL	DMR-1354	7103	7205	7218
55	HQPM - 1 (C)	ALL	DMR-1355	7125	7188	7249
56	HQPM - 7 (C)	ALL	DMR-1356	7150	7173	7220

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI, COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI UDAIPUR

NEMATOLOGY: PANTNAGAR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: 1 - 07 - 2009

TRIAL NO. 62 MEDIUM MATURITY (TET)
 YEAR 2009 KRARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m
 LOCATION: SRINAGAR, POONCH, UDHAMPUR, BAJAURA, KANGRA, ALMORA,
 BARAPANI, JORHAT, DELHI, LUDHIANA, KARNAL, PANTNAGAR,
 KANPUR, VARANASI, BELIPAR, DHOLI, JASHIPUR, RANCHI,
 AMBIKAPUR, HYDERABAD, KARIMNAGAR, KOLEKUR, ARBHAVI,
 MANDYA, COIMBATORE, UDAIPUR, BANSWARA, GODHRA,
 CHHINDWARA, KAVERI SEEDS POC MONSANTO

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION			
				R1	R2	R3	
1	P L M - 21	ALL	DMR-1251	KANGRA	6913	6953	7023
2	L - 183	ALL	DMR-1252	BAJAURA	6903	6956	7007
3	EHL - 162308	ALL	DMR-1253	BAJAURA	6918	6963	6993
4	PMSY - 3	ALL	DMR-1254	POONCH	6933	6949	7029
5	PMSW - 4	ALL	DMR-1255	POONCH	6911	6966	7016
6	PMSQ - 5	ALL	DMR-1256	POONCH	6917	6962	7027
7	H K H - 308	ALL	DMR-1257	KARNAL	6942	6987	7025
8	H K H - 309	ALL	DMR-1258	KARNAL	6922	6961	7001
9	H K H - 310	ALL	DMR-1259	KARNAL	6940	6977	7022
10	MALVIYA MAKKA - 2	ALL	DMR-1260	VARANASI	6932	6985	6997
11	H K H - 311	ALL	DMR-1261	KARNAL	6914	6975	7018
12	H K H - 312	ALL	DMR-1262	KARNAL	6909	6983	7009
13	H K H - 313	ALL	DMR-1263	KARNAL	6915	6957	7011
14	E H - 1974	ALL	DMR-1264	UDAIPUR	6901	6981	7002
15	E H - 1986	ALL	DMR-1265	UDAIPUR	6927	6981	7032
16	E H - 2025	ALL	DMR-1266	UDAIPUR	6920	6968	7012
17	VEH - 09 - 1	ALL	DMR-1267	VARANASI	6929	6980	7004
18	VEH - 09 - 2	ALL	DMR-1268	VARANASI	6902	6976	7008
19	REH - 2101	ALL	DMR-1269	KANPUR	6912	6972	6998
20	REH - 2102	ALL	DMR-1270	KANPUR	6931	6947	7031
21	REH - 2103	ALL	DMR-1271	KANPUR	6908	6965	6999
22	J H - 31314	ALL	DMR-1272	LUDHIANA	6924	6971	6994
23	J H - 31285	ALL	DMR-1273	LUDHIANA	6935	6969	6996
24	J H - 31336	ALL	DMR-1274	LUDHIANA	6906	6959	7021
25	J H - 31292	ALL	DMR-1275	LUDHIANA	6939	6954	7000
26	J H - 31288	ALL	DMR-1276	LUDHIANA	6905	6970	7017
27	A H - 97001	ALL	DMR-1277	DELHI	6943	6960	7020
28	HKI 1105 x HKI 163-1	ALL	DMR-1278	DMR	6934	6973	6995
29	BML 7 x HKI 163-1	ALL	DMR-1279	DMR	6937	6967	6989
30	HKI 1128 x HKI 163-1	ALL	DMR-1280	DMR	6925	6974	6992
31	KMH - 218	ALL	DMR-1281	KAVERI SEED	6926	6984	7030
32	KMH - 3426	ALL	DMR-1282	KAVERI SEED	6916	6964	7019
33	LAXMI 306	ALL	DMR-1283	YAAGANTI SEEDS	6904	6955	7028
34	MUKHYA - 108	ALL	DMR-1284	SRICHAKRA	6941	6958	7010
35	SARPUNCH - 171	ALL	DMR-1285	SRICHAKRA	6938	6948	7026
36	KDMH - 017	ALL	DMR-1286	KRISHIDHAN SEEDS	6923	6978	6991
37	N M H - 803	ALL	DMR-1287	NUZIVEEDU SEEDS	6930	6952	7006
38	X8B557	ALL	DMR-1288	POC	6907	6979	7003
39	X8B691	ALL	DMR-1289	POC	6919	6945	7005
40	M C H - 41	ALL	DMR-1290	MONSANTO	6936	6950	7014
41	M C H - 42	ALL	DMR-1291	MONSANTO	6928	6988	6990
CHECKS:							
42	NAVJOT	ALL	DMR-1291	LUDHIANA	6910	6946	7015
43	B I O - 9637	ALL	DMR-1292	BIO SEED	6921	6986	7013
44	H M - 9	ALL	DMR-1293	KARNAL	6944	6982	7024

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI,
 KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI
 COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI

NEMATOTOLOGY: UDAIPUR
 SOIL SCIENCE: PANTNAGAR
 DATE OF DISPATCH: 26 - 06 - 2009
 DATE OF DISPATCH: 01 - 07 - 2009
 SEED FOR PATHOLOGY IS FOUR ROW AND TWO REPLICATION

TRIAL NO. 62 EARLY MATURING (SEED)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m
 LOCATON: SRINAGAR, POONCH, UDHAMPUR, BAJAURA, KANGRA, ALMORA
 BARAPANI, JORHAT, DELHI, LUDHIANA, KARNAL, PANTNAGAR
 KANPUR, VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI
 AMBIKAPUR, HYDERABAD, KARINAGAR, KOLHAPUR, ARBHAVI
 MANDYA, COIMBATORE, UDAIPUR, BANWARA, GODHRA,
 CHHINDWARA, BIO SEED, KANCHANGANGA

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION		
					R1	R2	R3
1	EHL - 162408	ALL	DMR-1231	BAJAURA	6812	6829	6840
2	EHL - 162508	ALL	DMR-1232	BAJAURA	6813	6827	6844
3	F H - 3506	ALL	DMR-1233	ALMORA	6810	6823	6839
4	E H - 2005	ALL	DMR-1234	UDAIPUR	6808	6831	6849
5	E H - 1992	ALL	DMR-1235	UDAIPUR	6804	6819	6842
6	E H - 1971	ALL	DMR-1236	UDAIPUR	6817	6834	6843
7	KDM - 399	ALL	DMR-1237	SRINAGAR	6815	6832	6841
8	REH - 2001	ALL	DMR-1238	KANPUR	6818	6833	6852
9	REH - 2002	ALL	DMR-1239	KANPUR	6814	6830	6850
10	REH - 2003	ALL	DMR-1240	KANPUR	6816	6835	6838
11	J H - 31236	ALL	DMR-1241	LUDHIANA	6811	6836	6848
12	J H - 31308	ALL	DMR-1242	LUDHIANA	6805	6826	6837
13	A H - 97002	ALL	DMR-1243	DELHI	6802	6822	6847
14	A H - 97017	ALL	DMR-1244	DELHI	6807	6828	6846
15	A H - 97018	ALL	DMR-1245	DELHI	6801	6824	6854
16	B I O - 605	ALL	DMR-1246	BIOSEED	6806	6821	6851
17	K H - 9560	ALL	DMR-1247	KANCHAN GANGA	6803	6825	6845
	CHECKS:	ALL					
18	PARKASH	ALL	DMR-1248	LUDHIANA	6809	6820	6853

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI,
 KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD,
 ARBHAVI

COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI
 NEMATOTOLOGY: UDAIPUR
 SOIL SCIENCE: PANTNAGAR
 DATE OF DISPATCH: 26 - 06 - 2009
 DATE OF DISPATCH: 01 - 07 - 2009

* SEED FOR PATHOLOGY IS FOUR ROW AND TWO REPLICATION

TRIAL NO. 64 EXTRA EARLY MATURITY (2ND)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m

LOCATION: SRINAGAR, UDHAMPUR, BASTOOR, JAMINA, ALMORA, BARANNTI
 JORHAT, DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR,
 VARANASI, BAHARAICH, DEOLI, JASHIPUR, RANCHI, AMBIPUR
 HYDERABAD, KARIMNAGAR, KOLHAPUR, ARBHAVI, MANDYA,
 COIMBATORE, UDAIPUR, BANWARA, GODHRA, CHHINDWARA

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION		
				R1	R2	R3
1 F H - 3478	ALL	DMR-1211	ALMORA	6821	6831	6840
2 F H - 3487	ALL	DMR-1212	ALMORA	6814	6823	6835
3 F H - 3488	ALL	DMR-1213	ALMORA	6813	6832	6841
4 F H - 3483	ALL	DMR-1214	ALMORA	6817	6826	6833
5 F Q H - 76	ALL	DMR-1215	ALMORA	6816	6824	6843
6 D H - 177	ALL	DMR-1216	PANTNAGAR	6811	6827	6839
7 D H - 179	ALL	DMR-1217	PANTNAGAR	6815	6830	6836
8 A H - 97020	ALL	DMR-1218	DELHI	6820	6822	6834
9 A H - 97024	ALL	DMR-1219	DELHI	6812	6828	6842
CHECKS:						
10 VIVEK QPM-9	ALL	DMR-1220	ALMORA	6819	6829	6837
11 VIVEK HYBRID-9	ALL	DMR-1221	ALMORA	6818	6825	6838

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAM, ALMORA, LUDHIANA,
 DELHI, KARNAL, PANTNAGAR, DEOLI, JASHIPUR, RANCHI,
 HYDERABAD, ARBHAVI, COIMBATORE, MANDYA, NAGENAHALLI,
 UDAIPUR, BARAPANI

NEMATOLOGY: UDAIPUR
 SOIL SCIENCE: PANTNAGAR
 DATE OF DISPATCH: 26 - 06 - 2009
 DATE OF DISPATCH: 01 - 07 - 2009

* SEED FOR PATHOLOGY IS FOUR ROW AND TWO REPLICATION

TRIAL NO. 65 2 ~2 FULL SEASON MATURITY (2ND 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 4
 ROW LENGTH 4m

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1 LAXMI - 9495	2	DMR-1151	YAGANTI SEEDS	6634	6642	6646	6657
2 G K - 3059	2	DMR-1152	GANGA KAVERI	6635	6638	6648	6654
3 PAC - 745	2	DMR-1153	ADVANTA	6632	6640	6651	6652
CHECKS:							
4 BIO - 9681	2	DMR-1154	BIOSEED	6637	6639	6650	6656
5 SEEDTEC - 2324	2	DMR-1155	BISCO BIOSCIENCE	6633	6643	6645	6655
6 HQPM - 1	2	DMR-1156	KARNAL	6631	6644	6647	6658
7 HQPM - 7	2	DMR-1157	KARNAL	6636	6641	6649	6653

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 65 E - 3 FULL SEASON MATURITY (AFT 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4m

LOCATION VARANASI, BANRAICH, DNOLI, JASHIPUR, RANCHI
 AMBIKAPUR

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION		
					R1	R2	R3
1	X 7B 401	3	DMR-1158	POC	6669	6674	6686
2	X 7B 403	3	DMR-1159	POC	6665	6673	6691
3	G K - 3059	3	DMR-1160	GANGA KAVERI	6670	6679	6688
4	M 05 008	3	DMR-1161	MAHYCO	6664	6678	6689
5	PHS - 520247	3	DMR-1162	PHS AGRITECH	6666	6681	6690
6	HTCH - 5401	3	DMR-1163	HYTECH SEED	6671	6680	6692
7	M C H - 38	3	DMR-1164	MONSANTO	6661	6676	6693
CHECKS:							
8	BIO - 9681	3	DMR-1165	BIOSEED	6668	6675	6683
9	SEEDTEC - 2324	3	DMR-1166	BISCO BIOSCIENCE	6662	6672	6685
10	HQPM - 1	3	DMR-1167	KARNAL	6663	6677	6684
11	HQPM - 7	3	DMR-1168	KARNAL	6667	6682	6687

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 65 E - 4 FULL SEASON MATURITY (AFT 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA
 ARBHAVI, COIMBATORE, POC, GANGA KAVERI
 ADVANTA, J K AGRI, BISCO BIOSCIENCE,
 MONSANTO, HYTECH SEED, VIBHA SEED

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION		
					R1	R2	R3
1	B H - 417135	4	DMR-1171	HYDERABAD	6719	6731	6747
2	B H - 407138	4	DMR-1172	HYDERABAD	6717	6724	6756
3	X 7B 401	4	DMR-1173	POC	6701	6726	6759
4	X 7B 403	4	DMR-1174	POC	6709	6722	6758
5	LAXMI - 9495	4	DMR-1175	YAGANTI SEEDS	6711	6727	6754
6	G K - 3059	4	DMR-1176	GANGA KAVERI	6710	6737	6742
7	PAC - 745	4	DMR-1177	ADVANTA	6715	6725	6748
8	PHS - 520247	4	DMR-1178	PHS AGRITECH	6708	6733	6741
9	PFMH - 9737	4	DMR-1179	PROFARM SEED	6720	6728	6752
10	JKMH - 8003	4	DMR-1180	JK AGRI	6718	6723	6743
11	BISCO - 4564	4	DMR-1181	BISCO BIOSCIENCE	6713	6729	6753
12	KMH - 3669	4	DMR-1182	KAVERI SEED	6712	6740	6750
13	KMH SUPER -244	4	DMR-1183	KAVERI SEED	6703	6721	6746
14	B L - 2801	4	DMR-1184	C. POKPHAND	6702	6738	6760
15	HTCH - 5401	4	DMR-1185	HYTECH SEED	6707	6734	6751
16	M C H - 38	4	DMR-1186	MONSANTO	6706	6732	6757
CHECKS:							
17	BIO - 9681	4	DMR-1187	BIOSEED	6716	6736	6755
18	SEEDTEC - 2324	4	DMR-1188	BISCO BIOSCIENCE	6714	6739	6749
19	HQPM - 1	4	DMR-1189	KARNAL	6704	6730	6744
20	HQPM - 7	4	DMR-1190	KARNAL	6705	6735	6745

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 65 Z- 5 FULL SEASON MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: UDAIPUR, BANSHARA, GODHRA, CHHINDWARA
 KANCHANGANGA, VIBHA SEEDS

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION		
					R1	R2	R3
1	B H - 407138	5	DMR-1191	HYDERABAD	6767	6782	6800
2	X 7B 401	5	DMR-1192	POC	6769	6775	6793
3	X 7B 403	5	DMR-1193	POC	6774	6778	6802
4	G K - 3059	5	DMR-1194	GANGA KAVERI	6768	6781	6796
5	PAC - 745	5	DMR-1195	ADVANTA	6762	6788	6795
6	PHS - 520247	5	DMR-1196	PHS AGRITECH	6771	6787	6790
7	SMH - 4502	5	DMR-1197	SHAKTI SEEDS	6764	6783	6789
8	KMH - 3669	5	DMR-1198	KAVERI SEED	6766	6784	6794
9	KMH SUPER -244	5	DMR-1199	KAVERI SEED	6770	6786	6798
10	M C H - 38	5	DMR-1200	MONSANTO	6772	6779	6799
CHECKS:							
11	BIO - 9681	5	DMR-1201	BIOSEED	6761	6780	6791
12	SEEDTEC - 2324	5	DMR-1202	BISCO BIOSCIENCE	6763	6776	6801
13	HQPM - 1	5	DMR-1203	KARNAL	6765	6777	6792
14	HQPM - 7	5	DMR-1204	KARNAL	6773	6785	6797

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 66 Z -1 MEDIUM MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: SRINAGAR, UDHAMPUR, BAJAURA, KANGRA, ALMORA,
 BARAPNI, JORHAT

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION		
					R1	R2	R3
1	J H - 31240	1	DMR-1111	LUDHIANA	6502	6515	6542
2	J H - 31242	1	DMR-1112	LUDHIANA	6510	6519	6532
3	B H - 406126	1	DMR-1113	HYDERABAD	6506	6521	6540
4	B H - 408005	1	DMR-1114	HYDERABAD	6507	6528	6530
5	KLM- 7	1	DMR-1115	KANGRA	6511	6526	6537
6	EC - 3160	1	DMR-1116	UDAIPUR	6512	6523	6541
7	K H - 717	1	DMR-1117	KANCHAN GANGA	6509	6522	6538
8	K H - 9452	1	DMR-1118	KANCHAN GANGA	6503	6520	6531
9	HYBRID VMH -4060	1	DMR-1119	VIBHA SEEDS	6514	6527	6534
10	KMH - 3712	1	DMR-1120	KAVERI SEED	6505	6516	6539
11	B L - 2802	1	DMR-1121	C. POKPOAND	6508	6518	6533
12	M C H - 37	1	DMR-1122	MONSANTO	6501	6517	6529
CHECKS:							
13	NAVJOT	1	DMR-1123	LUDHIANA	6504	6525	6535
14	H M - 9	1	DMR-1124	KARNAL	6513	6524	6536

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 66 Z-2,3,4 MEDIUM MATURITY (AET 1st YEAR)
 YEAR 2007 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, RAIPUR,
 VARANASI, BANARAS, DURG, JAMSHEDPUR, RANCHI
 AMRIKAPUR, HYDERABAD, KANAKPUR, KOLHAPUR,
 MANDYA, COIMBATORE, ARBHAVI, KANCHAN GANGA
 VISHA SEED, KAVERI SEED, MONSANTO, C. FOKPOAND

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION		
				R1	R2	R3
1 J H - 31240	2,3,4	DMR-1125	LUDHIANA	6556	6564	6586
2 J H - 31242	2,3,4	DMR-1126	LUDHIANA	6554	6576	6583
3 B H - 406126	2,3,4	DMR-1127	HYDERABAD	6555	6567	6588
4 B H - 408005	2,3,4	DMR-1128	HYDERABAD	6563	6575	6580
5 EC - 3160	2,3,4	DMR-1129	UDAIPUR	6558	6569	6577
6 K H - 717	2,3,4	DMR-1130	KANCHAN GANGA	6551	6572	6579
7 K H - 9452	2,3,4	DMR-1131	KANCHAN GANGA	6559	6571	6582
8 HYBRID VMH-4060	2,3,4	DMR-1132	VISHA SEEDS	6552	6565	6584
9 KMH - 3712	2,3,4	DMR-1133	KAVERI SEED	6562	6568	6578
10 B L - 2802	2,3,4	DMR-1134	C. FOKPOAND	6561	6573	6587
11 M C H - 37	2,3,4	DMR-1135	MONSANTO	6553	6570	6585
CHECKS:						
12 NAVJOT	2,3,4	DMR-1136	LUDHIANA	6557	6574	6581
13 H M - 9	2,3,4	DMR-1137	KARNAL	6560	6566	6589

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 66 Z- 5 MEDIUM MATURITIES (AET 1st YEAR)
 YEAR 2008 KHARIF
 REPLICATION 4
 ROW NO 4
 ROW LENGTH 4 m
 LOCATION UDAIPUR, BANSWARA, GODHRA, CHHINDWARA
 KANCHANGANGA, VISHA SEEDS

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION		
				R1	R2	R3
1 J H - 31242	5	DMR-1141	LUDHIANA	6605	6618	6626
2 E H - 1858	5	DMR-1142	UDAIPUR	6608	6611	6625
3 E H - 1877	5	DMR-1143	UDAIPUR	6604	6613	6621
4 B H - 406126	5	DMR-1144	HYDERABAD	6609	6610	6623
5 B H - 408005	5	DMR-1145	HYDERABAD	6602	6615	6619
6 KMH - 3712	5	DMR-1146	KAVERI SEED	6603	6614	6627
7 B L - 2802	5	DMR-1147	C. FOKPOAND	6606	6616	6622
CHECKS:						
8 NAVJOT	5	DMR-1148	LUDHIANA	6601	6612	6620
9 H M - 9	5	DMR-1149	KARNAL	6607	6617	6624

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 67 S 1 EARLY MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: SRINAGAR, UDHAMPUR, BAJAURA, KANGRA, ALMORA,
 BARAPNI, JORHAT

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION				
			R1	R2	R3	R4	
1 COMP. R-2006-1	1	DMR-1101	KANPUR	6451	6461	6469	6477
2 U M C- 10	1	DMR-1102	BAHRAICH	6454	6459	6470	6474
3 KML - 9	1	DMR-1103	KANGRA	6457	6460	6466	6476
4 KML - 15	1	DMR-1104	KANGRA	6452	6464	6465	6478
CHECKS:							
5 PARKASH	1	DMR-1105	LUDHIANA	6455	6458	6467	6473
6 PRATAP MAKKA-4	1	DMR-1106	UDAIPUR	6456	6462	6468	6472
7 PRATAP MAKKA-5	1	DMR-1107	UDAIPUR	6453	6463	6471	6475

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 67 S 2 EARLY MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: DELHI, LUDHIANA, KARNAJ, PANTNAGAR, KANPUR

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION				
			R1	R2	R3	R4	
1 COMP. R-2006-1	2	DMR-1091	KANPUR	6409	6417	6423	6433
2 COMP. R-2007-1	2	DMR-1092	KANPUR	6401	6413	6425	6430
3 U M C- 10	2	DMR-1093	BAHRAICH	6404	6410	6421	6434
4 U M C- 11	2	DMR-1094	BAHRAICH	6407	6418	6424	6432
5 U M C- 12	2	DMR-1095	BAHRAICH	6405	6411	6427	6435
6 KML - 9	2	DMR-1096	KANGRA	6403	6414	6420	6436
CHECKS:							
7 PARKASH	2	DMR-1097	LUDHIANA	6406	6416	6426	6429
8 PRATAP MAKKA-4	2	DMR-1098	UDAIPUR	6402	6412	6419	6431
9 PRATAP MAKKA-5	2	DMR-1099	UDAIPUR	6408	6415	6422	6428

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 67 E 3, 4 EARLY MATURITY (AET 1st YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI,
 AMBIKAPUR, HYDERABAD, BANSWARA, KOLHAPUR
 ALHAYT, MUMBAI, COIMBATORE

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION				
				R1	R2	R3	R4	
1	COMP. R-2006-1	3,4	DMR-1081	KANPUR	6358	6368	6367	6382
2	COMP. R-2007-1	3,4	DMR-1082	KANPUR	6354	6364	6368	6381
3	U M C- 10	3,4	DMR-1083	BAHARAICH	6351	6360	6373	6376
4	U M C- 11	3,4	DMR-1084	BAHARAICH	6353	6366	6370	6380
5	KNL - 9	3,4	DMR-1085	KANGRA	6357	6362	6372	6377
CHECKS:								
6	PARKASH	3,4	DMR-1086	LUDHIANA	6356	6361	6371	6378
7	PRATAP MAKKA-4	3,4	DMR-1087	UDAIPUR	6358	6359	6369	6379
8	PRATAP MAKKA-5	3,4	DMR-1088	UDAIPUR	6352	6363	6374	6375

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 68 E 3, 5 EXTRA EARLY MATURITY (AET 2nd YEAR)

YEAR 2008 KHARIF
 REPLICATION 6
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI,
 AMBIKAPUR, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION						
				R1	R2	R3	R4	R5	R6	
1	F H - 3463	3,5	DMR 1061	ALMORA	6304	6307	6312	6313	6319	6322
2	FQH - 55	3,5	DMR 1062	ALMORA	6302	6306	6309	6316	6317	6321
CHECKS:										
3	VIVEK QPM-9	3,5	DMR 1063	ALMORA	6303	6305	6311	6314	6320	6323
4	PARKASH	3,5	DMR 1064	LUDHIANA	6301	6308	6310	6315	6318	6324

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 68 E 4 EXTRA EARLY MATURITY (ANT 2nd YEAR)

YEAR 2008 KHARIF
REPLICATION 4
ROW NO 6
ROW LENGTH 4 m
LOCATION: HYDERABAD, KARIMNAGAR, KOLHAPUR, ARBHAVI, (2)
 MANDYA, COIMBATORE

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 F H - 3463	4	DMR 1065 ALMORA	6333	6336	6344	6350
2 F H - 3464	4	DMR 1066 ALMORA	6332	6340	6341	6347
3 F H - 3473	4	DMR 1067 ALMORA	6331	6338	6345	6348
4 FQH - 55	4	DMR 1068 ALMORA	6334	6337	6343	6346
CHECKS:						
5 VIVEK QPM - 9	4	DMR 1069 ALMORA	6335	6339	6342	6349

DATE OF DISPATCH: 19 - 06 - 2009

TRIAL NO. 69 E 4 FULL SEASON MATURITIES (ANT 2nd YEAR)

YEAR 2009 KHARIF
REPLICATION 4
ROW NO 6
ROW LENGTH 4 m
LOCATION: HYDERABAD, KARIMNAGAR, KOLHAPUR,
 ARBHAVI, (2) MANDYA, COIMBATORE

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 MCH - 36	4	DMR-1050 MONMANTO	6255	6258	6262	6269
CHECK:						
2 BIO - 9681	4	DMR-1051 BIOSEED	6254	6257	6261	6268
3 SEEDTEC - 2324	4	DMR-1052 BISCO	6251	6260	6263	6267
BIOSCIENCE						
4 HQPM - 1	4	DMR-1053 KARNAL	6252	6259	6265	6266
5 HQPM - 7	4	DMR-1054 KARNAL	6253	6256	6264	6270

DATE OF DISPATCH: - - 2009

TRIAL NO. 69 Z5 FULL SEASON MATURITIES (AET 2nd YEAR)
 YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: UDAIPUR, BANWARA, GODERA, CHHINDWARA.

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 X 6B 269	5	DMR-1055 POC	6273	6277	6288	6293
2 MDMH - 101	5	DMR-1056 MANODAYA HYBRID	6275	6279	6283	6290
CHECK:						
3 BIO - 9681	5	DMR-1057 BIOSSEED	6276	6278	6286	6289
4 SEEDTEC - 2324	5	DMR-1058 BISCO BIOSCIENCE	6272	6282	6287	6291
5 HQPM - 1	5	DMR-1059 KARNAL	6271	6280	6284	6292
6 HQPM - 7	5	DMR-1060 KARNAL	6274	6281	6285	6294

DATE OF DISPATCH: - - 2009

TRIAL NO. 70 Z-1 MEDIUM MATURITIES (AET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 6
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: SRINAGAR, POONCH, BAJAURA, KANGRA, ALMORA, BARAPNI, JORHAT

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION					
			R1	R2	R3	R4	R5	R6
1 B H - 4062 (RETESTING)	1	DMR-1021 HYDERA -BAD	6103	6108	6111	6113	6120	6122
CHECKS:								
2 H M - 8	1	DMR-1022 KARNAL	6101	6106	6112	6114	6119	6121
3 H M - 9	1	DMR-1023 KARNAL	6104	6105	6110	6115	6117	6124
4 H M - 10	1	DMR-1024 KARNAL	6102	6107	6109	6116	6118	6123

DATE OF DISPATCH: - - 2009

TRIAL NO. 70 Z-2 MEDIUM MATURITIES (AET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR.

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 31153	2	DMR-1025	LUDHIANA	6135	6140	6152	6158
2	C P - 828	2	DMR-1026	C. POKPHAND	6133	6146	6147	6160
3	KDMH - 1001	2	DMR-1027	KRISHIDHAN SEEDS	6132	6144	6153	6156
4	BISCO - 111	2	DMR-1028	BISCO BIOSCIENCE	6138	6141	6149	6161
5	BISCO - 555	2	DMR-1029	BISCO BIOSCIENCE	6136	6139	6151	6159
CHECKS:								
6	H M - 8	2	DMR-1030	KARNAL	6131	6142	6150	6157
7	H M - 9	2	DMR-1031	KARNAL	6137	6143	6148	6162
8	MALVIYA MAKKA - 2	2	DMR-1032	VARANASI	6134	6145	6154	6155

DATE OF DISPATCH: - - 2009

TRIAL NO. 70 Z-3 MEDIUM MATURITIES (AET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: VARANASI, BAHARAICH, DHOLI, JASHIPUR RANCHI, AMBIKAPUR.

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 31153	3	DMR-1033	LUDHIANA	6172	6177	6187	6192
2	BISCO - 111	3	DMR-1034	BISCO	6174	6179	6183	6194
3	C P - 838	3	DMR-1035	C. POKPHAND	6176	6178	6185	6190
CHECKS:								
4	H M - 8	3	DMR-1036	KARNAL	6171	6182	6184	6191
5	H M - 9	3	DMR-1037	KARNAL	6175	6180	6188	6193
6	MALVIYA MAKKA-2	2	DMR-1038	VARANASI	6173	6181	6186	6189

DATE OF DISPATCH: - - 2009

TRIAL NO. 70 E-4 MEDIUM MATURITIES (ANT 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA
 COIMBATORE, ARDHAVI, (2), KAVERI SEEDS

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 B H - 4062 (RETES.)	4 DMR-1039	HYDERABAD	6206	6209	6216	6220
2 BISCO - 111	4 DMR-1040	BISCO BIOSC.	6203	6212	6213	6221
3 KAVERI - 25K60	4 DMR-1041	KAVERI SEED	6202	6210	6217	6222
CHECKS:						
4 H M - 8	4 DMR-1042	KARNAL	6205	6208	6218	6219
5 H M - 9	4 DMR-1043	KARNAL	6201	6211	6214	6224
6 MALVIYA MAKKA-2	4 DMR-1044	VARANASI	6204	6207	6215	6223
DATE OF DISPATCH: - - 2009						

TRIAL NO. 70 E-5 MEDIUM MATURITIES (ANT 2nd YEAR)

YEAR 2008 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m
 LOCATION: UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 BISCO - 555	5 DMR-1045	BISCO BIOSCIENCE	6228	6234	6237	6245
2 BISCO - 855	5 DMR-1046	BISCO BIOSCIENCE	6227	6235	6239	6241
CHECKS:						
3 H M - 8	5 DMR-1047	KARNAL	6229	6233	6240	6242
4 H M - 9	5 DMR-1048	KARNAL	6230	6231	6238	6244
5 MALVIYA MAKKA-2	DMR-1049	VARANASI	6226	6232	6236	6243
DATE OF DISPATCH: - - 2009						

TRIAL NO. 71 85 EARLY MATURITY (NET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 6
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION					
				R1	R2	R3	R4	R5	R6
1	J H - 31110 CHECK:	5 DMR-1017	LUDHIANA	6071	6078	6079	6084	6088	6093
2	PARKASH	5 DMR-1018	LUDHIANA	6072	6075	6081	6086	6087	6094
3	PRATAP MAKKA-4	5 DMR-1019	UDAIPUR	6073	6076	6082	6083	6089	6092
4	PRATAP MAKKA-5	5 DMR-1020	UDAIPUR	6074	6077	6080	6085	6090	6091

TRIAL NO. 72 21 EXTRA EARLY MATURITY (NET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: SRINAGAR, POONCH, BAJAURA, KANGRA, ALMORA, BARAPNI, JORHAT

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	FH-3356 (RETESTING.)	1 DMR-1001	ALMORA	6002	6009	6013	6022
2	F Q H - 38	1 DMR-1002	ALMORA	6004	6011	6018	6021
3	VIVEK HYBRID - 21	1 DMR-1003	ALMORA	6005	6012	6014	6019
4	VIVEK HYBRID - 17	1 DMR-1004	ALMORA	6001	6008	6016	6023
5	VIVEK QPM - 9	1 DMR-1005	ALMORA	6006	6010	6015	6020
6	VIVEK HYBRID - 9	1 DMR-1006	ALMORA	6003	6007	6017	6024

DATE OF DISPATCH: - - 2009

TRIAL NO. 72 E 2, 4 EXTRA EARLY MATURITY (AET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR
 HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA,
 COIMBATORE, ARBHAVI, (2)

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 VIVEK HYBRID - 21 C	2, 4	DMR-1007 ALMORA	6029	6033	6036	6042
2 VIVEK HYBRID - 17 C	2, 4	DMR-1008 ALMORA	6025	6031	6039	6043
3 F Q H - 38	2, 4	DMR-1009 ALMORA	6028	6030	6037	6044
4 VIVEK QPM - 9 C	2, 4	DMR-1010 ALMORA	6026	6032	6038	6040
5 VIVEK HYBRID - 9 C	2, 4	DMR-1011 ALMORA	6027	6034	6035	6041

DATE OF DISPATCH: - - 2009

TRIAL NO. 72 E 3, 5 EXTRA EARLY MATURITY (AET 2nd YEAR)

YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 6
 ROW LENGTH 4 m

LOCATION: VARANASI, BAHARAICH, DHOLI, JASHIPUR,
 RANCHI, AMBIKAPUR, UDAIPUR, BANSWARA,
 GODHRA, CHHINDWARA

ENT. PEDIGREE NO.	ZONE CODE	ORIGIN	REPLICATION			
			R1	R2	R3	R4
1 VIVEK HYBRID - 21	3, 5	DMR-1012 ALMORA	6052	6058	6065	6069
2 FH-3358 (RETESTING.)	3, 5	DMR-1013 ALMORA	6051	6060	6063	6066
3 VIVEK HYBRID - 17	3, 5	DMR-1014 ALMORA	6055	6059	6062	6067
4 VIVEK QPM - 9	3, 5	DMR-1015 ALMORA	6054	6057	6061	6068
5 VIVEK HYBRID - 9	3, 5	DMR-1016 ALMORA	6053	6056	6064	6070

DATE OF DISPATCH: - - 2009

TRIAL NO. QPM1
 YEAR 2009 KHARIF
 REPLICATION 4
 ROW NO 2
 ROW LENGTH 4 m
 LOCATION: ALMORA, BAJAURA, DMR, LUDHIANA, PANTNAGAR, KARNAL,
 KANPUR, DHOLI, BAHRAICH, VARANASI, JASHIPUR, AMBIKAPUR,
 RANCHI, HYDERABAD, KOLHAPUR, ARBHAVI, NANDYA, UDAIPUR
 BANSWARA, CHHINDWARA, GODHRA

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	HQPM - 20	ALL	DMRQPM-21 KARNAL	6853	6869	6882	6896
2	HQPM - 21	ALL	DMRQPM-22 KARNAL	6856	6865	6875	6895
3	BAUQH-8-9-201	ALL	DMRQPM-23 RANCHI	6857	6868	6877	6887
4	BAUSYN-8-9-501	ALL	DMRQPM-24 RANCHI	6860	6871	6876	6893
5	BAUSYN-8-9-502	ALL	DMRQPM-25 RANCHI	6851	6873	6880	6894
6	ECQ- 3152	ALL	DMRQPM-26 UDAIPUR	6859	6863	6886	6892
7	VEHQ - 3019	ALL	DMRQPM-27 VARANASI	6861	6864	6879	6897
8	BQPMH - 282	ALL	DMRQPM-28 HYDERABAD	6858	6866	6883	6888
9	JHQPM-304	ALL	DMRQPM-29 LUDHIANA	6855	6872	6878	6891
CHECKS:							
10	HQPM - 1	ALL	DMRQPM-30 KARNAL	6852	6874	6881	6889
11	HQPM - 5	ALL	DMRQPM-31 KARNAL	6862	6867	6885	6898
12	HQPM - 7	ALL	DMRQPM-32 KARNAL	6854	6870	6884	6890

PATHOLOGY: ALMORA, BAJAURA, DELHI, LUDHIANA, DHOLI, NAGENAHALLI
 UDAIPUR, RANCHI, DHAULAKUAN
 DATE OF DISPATCH: 19 - 06 - 2009
 DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. QPM 2-3
 YEAR 2009 KHARIF
 REPLICATION 6
 ROW NO 4
 ROW LENGTH 4 m
 LOCATION: ALMORA, BAJAURA, DMR, LUDHIANA, KARNAL, DHOLI
 VARANASI, JASHIPUR, AMBIKAPUR, HYDERABAD, KOLHAPUR
 ARBHAVI, UDAIPUR, CHHINDWARA, GODHRA

ENT. NO.	PEDIGREE	ZONE CODE	ORIGIN	REPLICATION					
				R1	R2	R3	R4	R5	R6
1	TRQPM - 2 VEH QPM-3018	ALL	DMRQPM-11 VARANASI	6813	6820	6821	6828	6834	6840
2	TRQPM - 3 VEH QPM-3027	ALL	DMRQPM-12 VARANASI	6811	6819	6825	6827	6835	6836
CHECK:									
3	HQPM - 1	ALL	DMRQPM-13 KARNAL	6814	6817	6823	6830	6833	6837
4	HQPM - 5	ALL	DMRQPM-14 KARNAL	6815	6818	6822	6829	6831	6839
5	HQPM - 7	ALL	DMRQPM-15 KARNAL	6812	6816	6824	6826	6832	6838

PATHOLOGY: ALMORA, BAJAURA, DELHI, LUDHIANA, DHOLI, NAGENAHALLI
 UDAIPUR, RANCHI, DHAULAKUAN
 ENTOMOLOGY: DELHI, LUDHIANA, DHOLI, HYDERABAD, KOLHAPUR, UDAIPUR
 DATE OF DISPATCH: 19 - 06 - 2009
 DATE OF DISPATCH: PATHOLOGY & ENTOMOLOGY009
 DATE OF DISPATCH: 20 - 06 - 2009

TRIAL NO. SWEET CORN TRIAL
 YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 4
 ROW LENGTH 4 m

LOCATION: BAJAURA, ALMORA, DELHI, KARNAL, DHOLI, JASHIPUR,
 HYDERABAD, ARBHAVI, UDAIPUR, CHHINDWARA

ENT. PEDIGREE NO.	CODE	ORIGIN	REPLICATION			
			R1	R2	R3	
1	SWEET CORN HYBRID	SWEET-1	WINT. NUR	7352	7366	7376
2	WIN ORANGE SWEET CORN	SWEET-2	WINT. NUR	7353	7363	7377
3	MADHURI SWEET CORN	SWEET-3	WINT. NUR	7354	7360	7373
4	ORISSA SWEET - 1	SWEET-4	JASHIPUR	7355	7361	7369
5	ORISSA SWEET - 2	SWEET-5	JASHIPUR	7356	7368	7372
6	DULCINO AMINO x HKI SCST	SWEET-6	DMR	7357	7364	7371
7	HKI SCST x INSEC 2	SWEET-7	DMR	7358	7367	7370
8	HKI SCST x CUBA 379	SWEET-8	DMR	7351	7365	7375
9	DMSC 16 x CUBA 379	SWEET-9	DMR	7359	7362	7374

DATE OF DISPATCH: 2 - 07 - 2009

TRIAL NO. POP CORN TRIAL
 YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m

LOCATION: BAJAURA, ALMORA, DELHI, KARNAL, DHOLI, JASHIPUR,
 HYDERABAD, ARBHAVI, UDAIPUR, CHHINDWARA

ENT. PEDIGREE NO.	CODE	ORIGIN	REPLICATION			
			R1	R2	R3	
1	V L POP CORN 1	POP- 1	ALMORA	7404	7414	7421
2	BPCH - 6	POP- 2	HYDERABAD	7406	7416	7423
3	HKIPC 7 x HKIPC 4B	POP- 3	DMR	7401	7411	7424
4	HKIPC 5 x WPII	POP- 4	DMR	7405	7412	7418
5	HKIPC 7 x WPII	POP- 5	DMR	7407	7409	7419
6	HKIPC 5 x HKIPC 7	POP- 6	DMR	7402	7413	7422
7	HKIPC 8 x HKIPC 4B	POP- 7	DMR	7403	7415	7420
8	WPII x HKIPC 5	POP- 8	DMR	7408	7410	7417

DATE OF DISPATCH: 2 - 07 - 2009

TRIAL NO. IISCH FULL SEASON MAINTENANCE (IRV)
 YEAR 2009 KHARIF
 REPLICATION 3
 ROW NO 2
 ROW LENGTH 4 m
 LOCATION: BAJAURA, DELHI, KARNAL, DHOLI, JASHIPUR,
 ARBHAVI, UDAIPUR

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION		
				R1	R2	R3
1 HKI 1105 x LM 14	ALL	DMR-1371	DMR	7302	7319	7335
2 HKI 323 x LM 9	ALL	DMR-1372	DMR	7304	7325	7344
3 CM-132 x HKI 1040-11	ALL	DMR-1373	DMR	7313	7326	7336
4 HKI 1105 x LM 9	ALL	DMR-1374	DMR	7311	7316	7342
5 CM 134 x HKI 1128	ALL	DMR-1375	DMR	7315	7321	7339
6 DK 5644-1 x HKI 323-1	ALL	DMR-1376	DMR	7305	7318	7340
7 HKI 323 x NAI 105	ALL	DMR-1377	DMR	7308	7329	7332
8 BIO - 9681 (C)	ALL	DMR-1378	BIOSEED	7306	7328	7338
9 SEEDTEC - 2324 (C)	ALL	DMR-1379	BISCO	7312	7323	7343
			BIO SCIENCE			
10 HQPM - 1 (C)	ALL	DMR-1380	KARNAL	7303	7317	7345
11 HQPM - 7 (C)	ALL	DMR-1381	KARNAL	7309	7322	7333
12 HKI 161 x DMRQPM-58	ALL	DMR-1382	DMR	7301	7330	7341
13 CLQ-47 x HKI 164-7-6	ALL	DMR-1383	DMR	7314	7320	7337
14 HKI 161 x CLQ-30	ALL	DMR-1384	DMR	7307	7324	7334
15 DMRQPM-58 x HKI 161	ALL	DMR-1385	DMR	7310	7327	7331

DATE OF DISPATCH: 2 - 07 - 2009

TRIAL NO. 75 FULL SEASON MAJORITY

YEAR 2009 KHAARIF
 REPLICATION 2
 ROW NO 4
 ROW LENGTH 4 m

ENT. NO.	PEDIGREE	SEEDS	CODE	ORIGIN	REPLICATION	
					R1	R2
AET 1st YEAR						
1	B H - 417135	4	DMR-1561	HYDERABAD	9209	9247
2	B H - 407138	4, 5	DMR-1562	HYDERABAD	9214	9236
3	X 7B 401	3, 4, 5	DMR-1563	POC	9204	9246
4	X 7B 403	3, 4, 5	DMR-1564	POC	9203	9227
5	LAXMI - 9495	2, 4	DMR-1565	YASANTI SEEDS	9221	9249
6	G K - 3059	2, 3, 4, 5	DMR-1566	GANGA KAVERI	9208	9240
7	PAC - 745	2, 4, 5	DMR-1567	ADVANTA	9223	9231
8	M 05 008	3	DMR-1568	MAHYCO	9201	9229
9	PHS - 520247	3, 4, 5	DMR-1569	PHS AGRITECH	9207	9230
10	PFMH - 9737	4	DMR-1570	PROFARM SEED	9217	9235
11	SMH - 4502	5	DMR-1571	SHAKTI SEEDS	9210	9248
12	JKMH - 8003	4	DMR-1572	JK AGRI	9218	9241
13	BISCO - 4564	4	DMR-1573	BISCO BIOSCIENCE	9211	9233
14	KMH - 3669	4, 5	DMR-1574	KAVERI SEED	9224	9245
15	KMH SUPER -244	4, 5	DMR-1575	KAVERI SEED	9212	9238
16	B L - 2801	4	DMR-1576	C. POKPHAND	9225	9239
17	HTCH - 5401	3, 4	DMR-1577	HYTECH SEED	9202	9226
18	M C H - 38	3, 4, 5	DMR-1578	MONSANTO	9220	9250
AET 2nd YEAR						
19	X 6B 269	5	DMR-1579	POC	9215	9237
20	MDMH - 101	5	DMR-1580	MAHODAYA HYBRID	9219	9232
21	MCH - 36	4	DMR-1581	MONSANTO	9216	9242
CHECK:						
22	BIO - 9681		DMR-1582	BIOSEED	9205	9228
23	SEEDTEC - 2324		DMR-1583	BISCO BIOSCIENCE	9213	9243
24	HQPM - 1		DMR-1584	KARNAL	9206	9244
25	HQPM - 7		DMR-1585	KARNAL	9222	9234

LOCATION:

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI, COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI

ENTOMOLOGY: DELHI, LUDHIANA, KARNAL, DHOLI, HYDERABAD, KOLHAPUR, UDAIPUR

NEMATOTOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. 76 MEDIUM MATURITY
 YEAR 2009 KHARIF
 REPLICATION 2
 ROW NO 4
 ROW LENGTH 4 m

ENT. PEDIGREE NO.	ZONE	CODE	ORIGIN	REPLICATION	
				R1	R2
AET 1st YEAR					
1	J H - 31240	1, 3, 4	DMR-1526	LUDHIANA	9119 9148
2	J H - 31242	1, 2, 3, 4, 5	DMR-1527	LUDHIANA	9104 9133
3	E H - 1858	5	DMR-1528	UDAIPUR	9112 9145
4	E H - 1877	5	DMR-1529	UDAIPUR	9123 9152
5	B H - 406126	1, 2, 3, 5	DMR-1530	HYDERABAD	9117 9136
6	B H - 408005	1, 2, 3, 5	DMR-1531	HYDERABAD	9103 9137
7	KLM- 766	1	DMR-1532	KANGRA	9126 9134
8	EC - 3160	1, 2, 4	DMR-1533	UDAIPUR	9115 9140
9	K H - 717	1, 3, 4	DMR-1534	KANCHAN GANGA	9107 9138
10	K H - 9452	1, 2, 3, 4	DMR-1535	KANCHAN GANGA	9101 9130
11	HYBRID VMH - 4060	1, 3, 4	DMR-1536	VIBHA SEEDS	9114 9142
12	KMH - 3712	1, 2, 3, 4, 5	DMR-1537	KAVERI SEED	9106 9153
13	B L - 2802	1, 2, 3, 4, 5	DMR-1538	C. POKPOAND	9124 9128
14	M C H - 37	1, 3, 4	DMR-1539	MONSANTO	9102 9150
AET 2nd YEAR					
15	J H - 31153	2, 3	DMR-1540	LUDHIANA	9109 9131
16	B H - 4062 (RETES.)	1, 4	DMR-1541	HYDERABAD	9116 9143
17	C P - 828	2	DMR-1542	C. POKPHAND	9127 9132
18	KDMH - 1001	2	DMR-1543	KRISHIDHAN SEEDS	9118 9149
19	BISCO - 111	2, 3, 4	DMR-1544	BISCO BIOSCIENCE	9111 9139
20	BISCO - 555	2, 5	DMR-1545	BISCO BIOSCIENCE	9105 9154
21	BISCO - 855	5	DMR-1546	BISCO BIOSCIENCE	9120 9151
22	C P - 838	3	DMR-1547	C. POKPHAND	9108 9147
23	KAVERI - 25K60	4	DMR-1548	KAVERI SEED	9122 9144
CHECKS:					
24	NAVJOT		DMR-1549	LUDHIANA	9113 9146
25	H M - 8		DMR-1550	KARNAL	9125 9135
26	H M - 9		DMR-1551	KARNAL	9110 9129
27	H M - 10		DMR-1552	KARNAL	9121 9141

LOCATION:

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI, COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI

ENTOMOLOGY: DELHI, LUDHIANA, KARNAL, DHOLI, HYDERABAD, KOLHAPUR, UDAIPUR

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. 77 EARLY MATURITY
 YEAR 2008 KHARIF
 REPLICATION 2
 ROW NO 4
 ROW LENGTH 4 m

ENT. NO.	PEDIGREE	ZONE	CODE	CENTER	REPLICATION R1	R2
	AET 1st YEAR					
1	COMP. R-2006-1	1,2,3,4	DMR-1513	KANPUR	9034	9052
2	COMP. R-2007-1	2,3	DMR-1514	KANPUR	9033	9048
3	U M C- 10	1,2,3,4	DMR-1515	BARNAICH	9036	9050
4	U M C- 11	2,4	DMR-1516	BARNAICH	9039	9051
5	U M C- 12	2	DMR-1517	BARNAICH	9031	9044
6	KML - 9	1,2,3	DMR-1518	KANGRA	9035	9045
7	KML - 15	1	DMR-1519	KANGRA	9032	9047
	CHECKS:					
8	PARKASH		DMR-1520	LUDHIANA	9037	9046
9	PRATAP MAKKA - 4		DMR-1521	UDAIPUR	9041	9049
10	PRATAP MAKKA - 5		DMR-1522	UDAIPUR	9040	9043
	AET 2nd YEAR					
11	J H - 31110	5	DMR-1523	LUDHIANA	9036	9042

LOCATION:

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI, COIMBATORE, MANDYA, NAGENAHALLI, UDAIPUR, BARAPANI

ENTOMOLOGY: DELHI, LUDHIANA, KARNAL, DHOLI, HYDERABAD, KOLHAPUR, UDAIPUR

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

TRIAL NO. 78 EXTRA EARLY MONSANTO

YEAR 2008 KHARIF
 REPLICATION 2
 ROW NO 4
 ROW LENGTH 4 m

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION	
					R1	R2
AET 1st YEAR						
1	F R - 3463	4,5	DMR-1501	ALMORA	9004	9023
2	F H - 3464	4	DMR-1502	ALMORA	9009	9019
3	F H - 3473	4	DMR-1503	ALMORA	9010	9013
4	FQH - 55	3,4,5	DMR-1504	ALMORA	9006	9020
AET 2nd YEAR						
5	FH-3356 (RETESTING.)	1	DMR-1505	ALMORA	9011	9024
6	FH-3358 (RETESTING.)	3,5	DMR-1506	ALMORA	9007	9017
7	F Q H - 38	1,2,4	DMR-1507	ALMORA	9002	9018
CHECKS:						
8	VIVEK HYBRID - 21	1,2,4	DMR-1508	ALMORA	9005	9022
9	VIVEK HYBRID - 17	1	DMR-1509	ALMORA	9008	9016
10	VIVEK QPM - 9	1,2,4	DMR-1510	ALMORA	9001	9014
11	VIVEK HYBRID - 9	1,2,5	DMR-1511	ALMORA	9003	9021
12	PARKASH		DMR-1512	LUDHIANA	9012	9019

LOCATION:

PATHOLOGY: SRINAGAR, BAJAURA, DHAULA KUAN, ALMORA, LUDHIANA, DELHI, KARNAL, PANTNAGAR, DHOLI, JASHIPUR, RANCHI, HYDERABAD, ARBHAVI COIMBATORE, MANDYA, WAGENAKALLI, UDAIPUR, BARAPANI

ENTOMOLOGY: DELHI, LUDHIANA, KARNAL, DHOLI, HYDERABAD, KOLHAPUR, UDAIPUR

NEMATOLOGY: UDAIPUR

SOIL SCIENCE: PANTNAGAR

DATE OF DISPATCH: - - 2009

DATE OF DISPATCH: PATHOLOGY 20 - 06 - 2009

AGRONOMIC TRIAL: - N x G YEAR 2009

FULL SEASON MATURITY

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	MCH - 36	4	DMR - 1001	MONSANTO
CHECK:				
2	BIO - 9681	4	DMR - 1002	BIOSEED
3	SEEDTEC - 2324	4	DMR - 1003	BISCO BIOSCIENCE
4	HQPM - 1	4	DMR - 1004	KARNAL
5	HQPM - 7	4	DMR - 1005	KARNAL

ZONE -4

HYDERABAD, KARIMNAGAR, KOLHAPUR, ARBHAVI

DATE OF DISPATCH: 05 - 06 - 2009

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	X 6B 269	5	DMR - 1006	POC
2	MDMH - 101	5	DMR - 1007	MAHODAYA HYBRID
3	BIO - 9681	5	DMR - 1008	BIOSEED
4	SEEDTEC - 2324	5	DMR - 1009	BISCO BIOSCIENCE
5	HQPM - 1	5	DMR - 1010	KARNAL
6	HQPM - 7	5	DMR - 1011	KARNAL

ZONE - 5

UDAIPUR, BANSWARA, GODHRA, CHHINDWARA
DATE OF DISPATCH: 05 - 06 - 2009

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

EXTRA EARLY MATURITY

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	FH-3356 (RETESTING.)	1	DMR-1015	ALMORA
2	F Q H - 38	1	DMR-1016	ALMORA
3	VIVEK HYBRID - 21	1	DMR-1017	ALMORA
4	VIVEK HYBRID - 17	1	DMR-1018	ALMORA
5	VIVEK QPM - 9	1	DMR-1019	ALMORA
6	VIVEK HYBRID - 9	1	DMR-1020	ALMORA

ZONE - 1

BAJAURA, ALMORA, JORHAT
DATE OF DISPATCH: 05 - 06 - 2009

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	F Q H - 38	2, 4	DMR-1021	ALMORA
2	VIVEK HYBRID - 21	2, 4	DMR-1022	ALMORA
3	VIVEK HYBRID - 17	2, 4	DMR-1023	ALMORA
4	VIVEK QPM - 9	2, 4	DMR-1024	ALMORA
5	VIVEK HYBRID - 9	2, 4	DMR-1025	ALMORA

ZONE - 2, 4

DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR
HYDERABAD, KARIMNAGAR, KOLHAPUR, ARBHAVI,
DATE OF DISPATCH: 06 - 06 - 2009

ENT. NO.	PEDIGREE.	ZONE	CODE	ORIGIN
1	FH-3358 (RETESTING)	3, 5	DMR-1026	ALMORA
2	VIVEK HYBRID - 21	3, 5	DMR-1027	ALMORA
3	VIVEK HYBRID - 17	3, 5	DMR-1028	ALMORA
4	VIVEK QPM - 9	3, 5	DMR-1029	ALMORA
5	VIVEK HYBRID - 9	3, 5	DMR-1030	ALMORA

ZONE - 3, 5

VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR
UDAIPUR, BANSWARA, GODHRA, CHHINDWARA
DATE OF DISPATCH: 06 - 06 - 2009

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

MEDIUM MATURITY

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	B H - 4062 (RETES.)	1	DMR - 1036	HYDERABAD
2	H M - 8	1	DMR - 1037	KARNAL
3	H M - 9	1	DMR - 1038	KARNAL
4	H M - 10	1	DMR - 1040	KARNAL

LOCATION: ZONE - 1
BAJAURA, KANGRA, JORNAT, ALMORA
DATE OF DISPATCH: 11 - 6 - 2008

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	J H - 31153	2	DMR - 1041	LUDHIANA
2	C P - 828	2	DMR - 1042	C. POKPHAND
3	KDMH - 1001	2	DMR - 1043	KRISHIDHAN SEEDS
4	BISCO - 111	2	DMR - 1044	BISCO BIOSCIENCE
5	BISCO - 555	2	DMR - 1045	BISCO BIOSCIENCE
6	H M - 8	2	DMR - 1046	KARNAL
7	H M - 9	2	DMR - 1047	KARNAL
8	H M - 10	2	DMR - 1048	KARNAL

LOCATION: ZONE - 2
DELHI, LUDHIANA, KARNAL, PANTNAGAR, KANPUR
DATE OF DISPATCH: 11 - 6 - 2008

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	J H - 31153	3	DMR - 1051	LUDHIANA
2	BISCO - 111	3	DMR - 1052	BISCO BIOSCIENCE
3	C P - 838	3	DMR - 1053	C. POKPHAND
CHECKS:				
4	H M - 8	3	DMR - 1054	KARNAL
5	H M - 9	3	DMR - 1055	KARNAL
6	H M - 10	3	DMR - 1056	KARNAL

LOCATION: ZONE - 3
VARANASI, BAHARAICH, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR
DATE OF DISPATCH: - - 2009

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	B H - 4062 (RETES.)	4	DMR - 1061	HYDERABAD
2	BISCO - 111	4	DMR - 1062	BISCO BIOSCIENCE
3	KAVERI - 25K60	4	DMR - 1063	KAVERI SEED
CHECKS:				
4	H M - 8	4	DMR - 1064	KARNAL
5	H M - 9	4	DMR - 1065	KARNAL
6	H M - 10	4	DMR - 1066	KARNAL

LOCATION: ZONE - 4
HYDERABAD, ARBHAVI, KARIMNAGAR, KOLHAPUR
DATE OF DISPATCH: 11 - 6 - 2008

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	BISCO - 100	5	DMR - 1071	BISCO BIOSCIENCE
2	BISCO - 100	5	DMR - 1072	BISCO BIOSCIENCE
3	H M - 9	5	DMR - 1073	KARNAL
4	H M - 9	5	DMR - 1074	KARNAL
5	H M - 10	5	DMR - 1075	KARNAL

LOCATION: ZONE - 5
UDAIPUR, BANSWARA, GODHRA, CHHINDWARA
DATE OF DISPATCH: 11 - 6 - 2008

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

EARLY MATURITY

ENT. NO.	PEDIGREE	ZONE	CODE	ORIGIN
1	J H - 31110	5	DMR-1031	LUDHIANA
	CHECK:			
3	PARKASH	5	DMR-1032	LUDHIANA
4	PRATAP MAKKA - 4	5	DMR-1033	UDAIPUR
5	PRATAP MAKKA - 5	5	DMR-1034	UDAIPUR

LOCATION: ZONE - 5
UDAIPUR, BANSWARA, GODHRA, CHHINDWARA
DATE OF DISPATCH: 1 - 06 - 2009

AGRONOMIC TRIAL: - N x G YEAR 2009 KHARIF

SWEET CORN TRIAL

ENT. NO.	PEDIGREE	CODE	ORIGIN
1	WIN ORANGE SWEET CORN	DMRSWEET-1	WINT. NUR
2	MADHURI SWEET CORN	DMRSWEET-2	WINT. NUR
3	SWEET CORN HYBRID	DMRSWEET-3	WINT. NUR

LOCATION: ALMORA, BAJAURA, DELHI, LUDHIANA, KARNAL,
VARANASI, HYDERABAD, ARBHAVI, UDAIPUR
DATE OF DISPATCH: 1 - 06 - 2009

ENT. NO.	PEDIGREE	CODE	ORIGIN
1	V E H QPM - 3027	DMRQPM-1	VARANASI
2	HQPM - 1	DMRQPM-2	KARNAL
3	HQPM - 5	DMRQPM-3	KARNAL
4	HQPM - 7	DMRQPM-4	KARNAL

LOCATION: KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR
DATE OF DISPATCH: 1 - 06 - 2009

Breeder Seed Production Report for 2009

Name of Crop: Maize

S.No	Name of Variety/Hybrid	Name of Producing Centre/State	Actual allocation as per BSP-I target	Actual Production	Production Surplus(+)/ Deficit(-)
1	HM-10 (HKH-1200) [HK-1 1128 (M)]	Karnal	0.50	0.50	
2	HM-10 (HKH-1200) [HK-1 193-2 (F)]	Karnal	1.00	1.00	
3	HQPM-7 [HK-1 161 (M)]	Karnal	0.50	0.50	
4	HQPM-7 [HK-1 193-1 (M)]	Karnal	1.00	8.00	7.00
5	Vivek Maize Hybrid 33 [F-3352] (A-Line) (V372)	Almora	0.80	0.55	-0.25
6	Vivek Maize Hybrid 33 [F-3352] (B-Line) (CM212)	Almora	0.40	1.00	0.60
7	Vivek QPM 9 (FQH4567)	Almora	2.00		
8	Vivek Sankul Makka-31(VL-103)	Almora	0.50	5.80	5.30
9	Pratap Makka-5 (EC-3116)	Udaipur	4.00		
10	Azad kamal (R-9803)	Kanpur	0.20	9.05	8.85
11	Birsa Vikas Makka-2	Ranchi	1.50	0.25	-1.25
12	Pusa Composite-3 (Composite-85134)	Delhi	0.27	1.75	1.48
13	Pusa Composite-4 (Composite-85151)	Delhi	0.20	0.20	
14	Vivek Maize Hybrid-17 (FH-3186)-CM153	Almora	0.10	0.10	
15	Jawahar Makka-216	Chhindwara	31.40	39.00	7.60
16	Pratap Makka-3 (EC-3108)	Udaipur	3.00	7.00	4.00
17	DMH-2	Arabhavi			
	C1-4 (Female line)	Arabhavi	0.07	0.07	
18	NAC-6002	Mandya	0.07	1.50	1.43
19	Narmada Moti (IC-9001)	Godhra	0.40		
20	Priya Sweet corn	Hyderabad	0.07	0.07	
21	Amar (D-941)	Pantnagar	1.20		
22	Aravali Makka-1 (EV-90)	Udaipur	5.00	9.50	4.50
23	JKMH-175	Pvt.	0.10		
24	Kohinoor	Pvt.	6.00		
25	NAC-6004	Mandya	0.07	1.50	1.43
26	Gaurav (D-931)	Pantnagar	2.06	4.00	1.94
27	PUSA Early Hybrid Makka-2 (CM137XCM138)	Delhi			
	CM137	Delhi	24.00	33.00	9.00
	CM138	Delhi	12.00	14.00	2.00
28	C-8	Srinagar	0.90	1.00	0.10
29	Dewaki Composite Makka	Dholi	2.07	3.15	1.08

30	Mahi Dhawal (W-126)	Banswara	0.07	12.00	11.93
31	J-1006 (Fodder)	Ludhiana	13.55	15.00	1.45
32	Mahi Kanchan	Banswara	0.57	10.00	9.43
33	Azad Uttam (Composite R-2)	Kanpur	5.00	10.20	5.20
34	Trishulata	Hyderabad	0.50		
35	DHM-105	Hyderabad	0.50		
36	Parvatl (Compostie)	Bajaura	0.05		
37	Surya	Pantnagar	5.00		
38	Kanchan	Pantnagar	5.06		
39	NLD White	DMR	0.20		
40	African Tall Composite	Kohlapur	40.00	40.00	
41	Navjot	Ludhiana	6.00	7.00	1.00
42	Chandan Makka-3	Chhindwara	0.25		
43	Navin (D-741)	Pantnagar	0.05		
44	Sonari (Shweta)	Dholi	1.07		
45	Ageti	Ludhiana	0.07	0.15	0.08
46	C-6	Srinagar	0.50	2.50	2.00
47	Mansar	Srinagar	0.32	0.40	0.08
48	Moti Composite Makka	Gujarat	5.00		
49	Vijay Composite Makka	Ludhiana	0.59	2.00	1.41
50	604 (CSV-6)	Pvt.	0.30		
51	Early Composite 5	Bajaura	0.05	0.05	
52	Ganga-5 CM-202xCM111	DMR	0.04		
53	Ganga-5 CM-202xCM1111	DMR	0.02		
54	Gujarat Makai-6	Godhra	0.50		
55	HQPM-1	Karnal			
	HKI-163	Karnal	0.42	0.42	
56	Shakti	-	2.00		
57	Vivek-9 CM-212(A)	Almora	0.04	0.25	0.21
58	Vivek-9 CM-145(B)	Almora	0.03	0.05	0.02
	Total		189.13	242.51	87.62

- ❖ The indent for all the varieties is honored. The breeder seed production is surplus than the indented except in few where the seed production either taken up during *rabi* or spring of 2010.
- ❖ Seed production of hybrids is not the mandate of institution. The old varieties are replaced or currently not in seed production chain.

BREEDING

2009

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TABLE No.1

PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT BAJAURA, BARAPANI, KANGRA, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BAHRAICH, DROLI, JASHIPUR, VARANASI, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR, MANDYA, COIMBATORE, POC, JK AGRI, BAYER, GANGA KAVERI BANGALORE, BIOSEED, HYDERABAD, UDAIPUR, BANSWARA, CHHINDWARA AND GODHARA (R) IN TRIAL No. 61 DURING KHARIF (2009)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1		ZN 2							
		BAJA	R	BARA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	KANP	R	MEAN	R
1	KNMH-40901	6905	52	841	56	9683	41	5809	54	4768	30	7193	44	7455	43	10311	32	9885	15	7922	38
2	KNMH-40902	7817	35	1444	42	6940	56	5400	56	3269	53	8238	7	5337	56	8601	51	10400	3	7169	52
3	KNMH-40903	7562	44	1975	12	9560	45	6366	45	4863	27	7819	20	5545	55	8383	52	9757	19	7273	49
4	KNMH-40904	6377	55	1479	38	9584	43	5813	53	5194	17	8338	4	6957	47	10401	31	9651	20	8108	30
5	CMH08-154	7879	34	2440	2	10527	29	6949	28	7173	2	6967	47	9624	15	10861	25	9645	21	8854	11
6	CMH08-156	7272	51	1619	28	11716	13	6869	32	5017	23	8419	3	8264	35	11283	17	9434	29	8483	21
7	CMH08-282	9337	11	1494	37	11757	12	7529	9	7634	1	7604	21	10593	5	12579	5	8319	55	9386	2
8	HKH-406	7595	43	2012	11	10922	27	6843	33	3086	56	7962	15	7520	42	9047	48	9972	10	7517	45
9	HKH-407	7307	50	2318	4	8534	54	6053	51	3113	55	7417	37	5967	53	10016	40	8771	47	7057	55
10	JH-12108	9227	14	2232	7	8664	53	6708	39	4811	29	6647	53	11186	3	12563	6	9515	25	8944	8
11	JH-12114	7810	36	2456	1	9630	42	6632	41	5173	18	7554	30	8734	29	9343	44	9088	39	7979	36
12	IDX-2501	8644	23	1340	49	12586	6	7523	10	4462	36	6780	49	8431	33	10105	37	8579	49	7671	42
13	BMH-1C7	8267	27	1345	48	13971	1	7861	2	5945	6	7296	41	8434	32	10204	35	9255	37	8227	26
14	BMH-1C9	8307	26	1712	22	13001	2	7673	5	4119	42	7529	31	8171	38	10024	39	9939	12	7956	37
15	VMH-2600	7511	46	1759	19	11660	15	6977	26	3587	49	8540	1	7205	44	7646	55	8524	51	7101	54
16	JCY2-7XHKI163-1	8025	32	1759	18	11153	19	6979	25	5501	9	7312	39	7966	40	10241	34	9017	41	8007	34
17	HKI1126XHKI163-1	6695	54	890	55	10965	26	6183	50	4204	41	7651	27	6251	52	9210	46	9442	27	7352	47
18	MCH-39	9072	17	1637	27	10277	34	6995	24	5327	12	8191	9	10856	4	12556	7	9362	32	9258	4
19	MCH-40	11553	1	1678	25	10174	36	7802	3	4902	26	7898	17	10319	7	12381	9	9929	14	9086	6
20	AFSA-91	7753	38	1579	29	12131	8	7154	19	3721	47	8326	5	8868	23	9053	47	9995	9	7993	35
21	GK-3060	8799	20	1672	26	11664	14	7378	13	4539	35	7755	24	8354	34	11047	20	8944	43	8128	29
22	GK-3074	7599	42	1715	21	7555	55	5623	55	5240	14	5174	56	5926	54	10510	30	9375	31	7245	50
23	GK-3076	7674	41	2195	8	11134	20	7001	23	5317	13	7990	14	8976	21	11191	19	9110	38	8517	19
24	LAXMIGOLD	7465	48	1530	34	10363	32	6453	43	4018	45	7429	36	9135	18	12454	8	9519	24	8511	20
25	LAXMI405	8249	28	2058	9	12242	7	7516	11	4049	44	7876	18	6996	45	9040	49	9451	26	7482	46
26	LAXMI288	8011	33	1090	54	10169	37	6423	44	4205	40	7445	35	6913	48	8670	50	8386	54	7124	53
27	BISCO-74	9413	9	1698	23	9150	47	6754	36	5203	16	8025	12	8768	27	10533	29	10213	5	8548	18
28	BISCO-574	9269	13	1372	45	10984	25	7208	16	3932	46	7487	33	6781	49	7954	54	9782	18	7187	51
29	PAC-799	7469	47	1286	52	11515	17	6757	35	3615	48	8056	11	9175	17	10127	36	8093	56	7813	39
30	BIO-265	8672	22	1524	35	11051	23	7082	20	5392	10	8428	2	8883	22	11416	15	8911	44	8606	16
31	NMH-731	9592	7	1467	40	11399	18	7486	12	5110	21	8169	10	9480	16	9819	43	8807	46	8277	25
32	NMH-920	10394	3	1847	17	12797	3	8346	1	3124	54	7609	28	9787	13	11223	18	8476	53	8044	32
33	NMH-958	9881	5	2286	5	10525	30	7564	6	4927	25	7740	25	9855	11	12190	10	9406	30	8823	12
34	AMAR6669	7718	40	1354	47	11792	11	6955	27	5783	7	7726	26	8834	25	12725	3	10083	8	9030	7

TABLE NO. 1 (CONTD.)

S1 NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2	
	BAJA R	BARA R	KANG R	MEAN R	DELH R	KARN R	LUDH R	PANT R	KANP R	MEAN R	ZN 1	MEAN R	ZN 2	MEAN R
35 OM7878	8889 19	1937 14	10380 31	7069 21	4951 24	7309 40	8005 39	11572 13	9257 36	8219 27				
36 JKMH-8033	6228 56	2267 6	10294 33	6263 49	6887 3	8288 6	9103 19	11587 12	8849 45	8943 9				
37 JKMH-7005	7368 49	1532 33	12735 4	7212 15	4767 31	7493 32	10515 6	11517 14	10257 4	8910 10				
38 PRO-377	9504 8	1444 41	9566 44	6838 34	4853 28	8005 13	11318 1	12690 4	9823 16	9338 3				
39 PRO-378	9108 16	1560 31	11990 9	7553 8	5142 19	7157 45	9734 14	11345 16	9545 23	8585 17				
40 NK-6246	7753 37	1695 24	9418 46	6289 48	6155 5	7595 29	8811 26	9847 42	9638 22	8409 22				
41 NK-6267	9703 6	1524 36	9032 50	6650 40	5108 22	8216 8	10226 8	10665 28	9300 34	8703 14				
42 NK-6607	9062 18	2014 10	8875 52	6650 40	5386 11	7759 23	10069 9	10880 24	9948 11	8809 13				
43 NK-6617	9341 10	1572 30	9723 40	6879 31	5204 15	7100 46	8228 37	10815 26	10184 6	8306 24				
44 KMH-3670	7529 45	2394 3	9062 49	6328 46	3563 50	7466 34	8621 31	8188 53	8711 48	7310 48				
45 KMH-548	9318 12	1433 43	10001 39	6917 29	4552 34	7765 22	9991 10	11772 11	9021 40	8620 15				
46 X7A303	10100 4	1556 32	11021 24	7559 7	6246 4	7287 42	9815 12	13619 2	8533 50	9100 5				
47 X8B562	10498 2	1727 20	8969 51	7065 22	5760 8	7226 43	11255 2	13996 1	9935 13	9634 1				
48 KH-404	7719 39	1290 51	9075 48	6028 52	4442 37	5813 55	8749 28	9911 41	8971 42	7577 44				
49 MAIZEPOLO	9116 15	1470 39	12722 5	7769 4	4070 43	7844 19	8649 30	10069 38	9438 28	8014 33				
50 C.-1950	8328 25	1272 53	10629 28	6743 38	3385 52	6677 52	6326 51	7372 56	9296 35	6611 56				
51 C.-1945	8032 31	1936 15	11932 10	7300 14	4564 33	6749 51	8248 36	10709 27	10167 7	8088 31				
52 KF-105	6765 53	1966 13	10201 35	6311 47	4617 32	7330 38	8847 24	11023 21	9799 17	8323 23				
CHECKS														
53 BIO-9681	8515 24	1908 16	11086 22	7170 18	3540 51	7914 16	7611 41	10953 23	8517 52	7707 41				
54 SEEDTEC-2324	8707 21	1365 46	11520 16	7197 17	5126 20	6773 50	9069 20	9232 45	10478 2	8136 28				
55 HQPM-1	8221 29	1320 50	11102 21	6881 30	4287 38	6831 48	6755 50	10269 33	10484 1	7725 40				
56 HQPM-7	8145 30	1402 44	10140 38	6562 42	4254 39	6480 54	6971 46	11021 22	9347 33	7615 43				
Location Mean	8376	1673	10629	6893	4771	7533	8544	10585	9402	8167				
Mean Stand	29	24	32	29	36	31	39	36	36	35				
C.D. (5%)	1183	1015	1782	1327	941	898	1226	2156	1328	1310				
C.V. (%)	8.73	37.49	10.36	-	12.18	7.36	8.87	12.59	8.73	-				
F (Prob)	0	0.367	0	0	0	0	0	0	0.017	-				
Plot Size	3.6	6	4.8	-	5.6	6	5.2	6	4.8	-				
AGRONOMY DATA														
Sowing Date	7-07	17-07	7-07	-	7-06	2-07	8-07	2-08	14-07	-				
Harvest Date	12-11	-	5-10	-	10-12	10-10	20-10	19-11	5-11	-				
Irrigation Nos	3	-	-	-	4	5	7	-	2	-				
Fertilizer Applied N	120	-	120	-	150	150	-	120	80	-				
Fertilizer Applied P	60	-	60	-	75	60	-	60	40	-				
Fertilizer Applied K	40	-	40	-	75	60	-	40	40	-				

TABLE NO. 1 (CONTD.)

SI	NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3							
			BAHR	R	DHOL	R	JASH	R	VARA	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	MAND	R
1		KNMH-40901	5383	18	5006	4	3585	52	8557	36	5693	48	5645	37	4620	51	3935	55	5629	22	6260	56
2		KNMH-40902	4936	28	3287	55	3662	49	5011	55	4703	55	4320	55	4949	46	4511	47	4479	41	7750	48
3		KNMH-40903	4664	32	3857	39	3288	54	4581	56	5103	54	4299	56	5170	44	6044	12	3712	52	6643	55
4		KNMH-40904	4904	29	3206	56	3595	51	7314	49	4261	56	4656	54	4067	56	7809	2	4475	42	10428	13
5		CMH08-154	6456	4	4314	18	6598	1	9097	33	7333	26	6760	10	7309	5	7299	3	4797	38	9766	20
6		CMH08-156	5670	10	4434	16	5309	11	8108	44	6988	31	6102	24	5892	23	5851	20	5218	32	8941	34
7		CMH08-282	5724	9	4869	7	6517	2	10878	9	7771	14	7152	3	6820	11	6132	11	7923	5	9296	29
8		HKH-406	4482	36	3915	37	3651	50	8656	34	5224	53	5186	50	5605	32	3854	56	4866	36	9373	27
9		HKH-407	4017	43	4111	33	4137	42	8455	37	5304	51	5205	48	5495	38	4240	53	4443	44	8380	40
10		JH-12108	6402	5	4299	19	5787	5	12034	3	7479	21	7200	2	7549	2	5183	33	7927	4	9418	26
11		JH-12114	5497	14	3958	35	4240	36	9903	23	7375	24	6194	23	5193	43	5577	24	5527	23	9472	25
12		IDX-2901	6076	6	4137	29	5118	17	10113	19	7965	8	6682	11	5296	40	4876	41	5706	19	8593	37
13		EMR-107	3982	45	4271	21	4161	40	9447	29	7071	28	5786	34	5526	36	6565	6	5674	21	10180	16
14		EMH-109	6962	1	3691	44	4906	20	10664	11	8288	4	6902	7	4569	54	4353	50	5252	31	8390	39
15		VMH-2000	4145	39	4688	12	3459	53	8229	41	5979	45	5300	46	5682	30	4600	45	6167	14	7894	46
16		JCY2-7xHKI163-1	4092	40	4113	32	4623	27	8135	43	5904	46	5373	44	6130	17	4888	40	5375	27	7192	51
17		HKI1126xHKI163-1	5083	23	4833	9	4133	43	6946	53	7425	22	5684	36	5564	34	4727	43	5167	33	6817	54
18		MCH-39	5069	24	5749	1	5510	7	11557	5	7755	15	7128	4	6767	13	5012	36	7620	8	12373	2
19		MCH-40	5190	21	4229	26	5310	10	10277	15	8286	5	6658	12	5338	39	4913	39	7732	6	12580	1
20		APSA-91	4620	33	4268	22	3221	55	7767	48	6835	35	5342	45	5917	22	5883	19	4083	47	10876	7
21		GK-3060	4462	37	3525	51	3734	48	9437	30	6555	39	5543	40	5822	25	5008	37	4767	39	10683	11
22		GK-3074	3531	49	3661	48	2864	56	10680	10	6377	41	5423	41	6098	18	6371	7	4181	46	7961	44
23		GK-3076	3370	52	4263	23	4644	25	9582	25	5224	52	5417	42	5255	42	4530	46	5113	34	7179	52
24		LAXMIGOLD	3621	48	4280	20	4856	21	9104	32	7170	27	5806	33	6999	10	5202	32	4728	40	12106	3
25		LAXMI405	3445	51	4823	10	4126	44	8106	45	5456	50	5191	49	4850	48	4034	54	3530	54	10685	9
26		LAXMI288	3866	46	4200	28	4237	37	8435	38	5626	49	5274	47	5584	33	4278	52	5267	30	9719	21
27		BISCO-74	5048	27	3880	38	4448	32	11584	4	7917	9	6575	14	6789	12	5991	14	6021	16	8103	43
28		BISCO-574	3059	53	3709	42	4094	45	8595	35	5989	44	5089	51	5795	26	4447	48	5368	28	10169	17
29		PAC-799	2794	55	3552	50	5133	16	10132	18	6592	38	5640	38	6014	19	5396	28	3693	53	9254	31
30		BIO-265	4029	41	4127	30	4649	24	8199	42	7700	16	5741	35	6185	15	7040	5	8206	1	11685	4
31		NMH-731	5321	19	3679	46	4331	35	10920	7	7660	18	6382	15	6720	14	6247	9	5496	24	10350	15
32		NMH-920	6736	2	4249	25	5167	14	10254	16	8431	2	6967	6	7842	1	5233	31	3903	48	9942	19
33		NMH-958	5407	17	4252	24	4637	26	12661	1	7354	25	6862	8	7318	4	6021	13	7290	9	11634	5
34		AMAR6669	3454	50	3356	53	4803	23	10491	13	7002	30	5821	30	7220	8	5720	21	4470	43	9645	22

TABLE NO. 1 (CONTD.)

SI	No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																			
			BAHR	R	DHOL	R	JASH	R	VARA	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	MAND	R
35	OM7878	4503	35	5002	5	5142	15	9505	28	6960	32	5223	20	6185	16	4298	51	5427	26	8698	35	
36	JRMH-8033	4008	44	3667	47	4233	38	8257	40	7563	20	5546	39	4368	55	5564	25	6424	13	7751	47	
37	JRMH-7005	5524	13	4355	17	6088	3	10033	22	7848	11	5770	9	5161	45	5126	34	7216	10	10740	8	
38	PRO-377	3727	47	3815	40	5104	18	10206	17	6230	42	5816	31	5886	24	5598	23	7643	7	10370	14	
39	PRO-378	4399	38	5397	2	4835	22	10561	12	6712	36	6381	16	7261	7	5924	18	8043	2	11239	6	
40	NK-6246	5058	25	3566	49	4424	33	10414	14	8039	7	5300	18	5626	31	5983	15	6917	12	8401	38	
41	NK-6267	4877	30	4844	8	5911	4	9521	27	7831	12	6597	13	5695	29	8192	1	7933	3	8656	36	
42	NK-6607	5565	12	3997	34	4137	41	8059	46	8428	3	6037	27	5772	27	6192	10	4254	45	8211	41	
43	NK-6617	5420	16	4915	6	4549	30	7879	47	7564	19	6065	26	7145	9	7232	4	6138	15	9487	24	
44	KMH-3670	5098	22	3937	36	4078	46	9888	24	7416	23	6083	25	7277	6	5690	22	3768	50	10433	12	
45	KMH-548	5053	26	3810	41	4565	29	10894	8	6845	34	6234	19	5263	41	6285	8	5792	18	9015	33	
46	X7A303	6603	3	4658	13	5337	9	12225	2	8540	1	7472	1	5925	21	5033	35	4847	37	9600	23	
47	X8B562	5780	8	5044	3	5495	8	10920	6	8075	6	7063	5	7440	3	5335	29	7184	11	10684	10	
48	KH-404	5605	11	4605	14	4367	34	9364	31	7899	10	6368	17	4708	50	5450	27	5705	20	9249	32	
49	MAIZEPOLO	5242	20	4773	11	3888	47	10065	21	7065	29	6207	22	5990	20	4646	44	4877	35	9304	28	
50	C.-1950	2395	56	3704	43	5240	12	6992	52	5807	47	4827	53	4869	47	4979	38	3745	51	7029	53	
51	C.-1945	4851	31	3460	52	5575	6	8285	39	6943	33	5823	29	4584	53	5963	16	3444	55	7641	49	
52	KF-105	5467	15	4115	31	4206	39	9575	26	7691	17	6211	21	4787	49	5936	17	3349	56	7938	45	
CHECKS																						
53	BIO-9681	4520	34	3307	54	4537	31	10096	20	6617	37	5815	32	4600	52	5307	30	3838	49	8177	42	
54	SEEDTEC-2324	5814	7	3691	45	4614	28	7178	50	7824	13	5824	28	5743	28	4426	49	5450	25	10034	18	
55	HQPM-1	3044	54	4213	27	5174	13	6617	54	6135	43	5036	52	5521	37	4733	42	5362	29	7453	50	
56	HQPM-7	4027	42	4551	15	4929	19	7107	51	6440	40	5411	43	5533	35	5564	26	5970	17	9271	30	
	Location Mean	4787		4183		4624		9242		6933		5954		5844		5451		5485		9270		
	Mean Stand	31		30		26		37		37		32		32		32		35		34		
	C.D. (5%)	758		1729		407		881		1432		1042		1242		1021		512		927		
	C.V. (%)	9.79		25.55		5.44		5.89		12.77		-		13.13		11.58		5.77		6.18		
	F (Prob)	0		0.72		0		0		0		-		0		0		0		0		
	Plot Size	4.8		6		4.8		4.8		6		-		6		6		6		5.6		
AGRONOMY DATA																						
	Sowing Date	7-09		10-07		25-07		19-07		9-07		-		6-08		8-07		12-07		24-07		
	Harvest Date	16-10		-		13-11		25-10		-		-		19-12		22-11		18-10		12-10		
	Irrigation Nos	-		-		-		2		-		-		5		2		-		6		
	Fertilizer Applied N	120		120		120		120		120		-		150		180		200		150		
	Fertilizer Applied P	60		60		60		60		60		-		75		60		80		75		
	Fertilizer Applied K	60		40		60		40		40		-		37.5		50		60		40		

TABLE NO. 1 (CONTD.)

S1 No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		COIM	BANG POCB	BANG R	BANG JKAG	BANG R	BANG BAYE	BANG R	BANG GANG	BANG R	HYDE BIOS	HYDE R	MEAN	R	
1	KMH-40901	9213	7693	54	8667	49	8186	50	9811	42	8513	9	7253	52	
2	KMH-40902	8542	9082	43	6981	52	8171	51	7135	56	6084	53	6768	55	
3	KMH-40903	9418	7287	55	6801	54	6880	55	7771	52	7286	37	6701	56	
4	KMH-40904	9316	8471	49	6586	55	8197	49	7293	55	7114	42	7376	51	
5	KMH08-154	10370	9397	39	11747	29	11574	9	9562	44	9344	2	9116	25	
6	KMH08-156	11359	9870	33	11242	33	11748	6	9896	40	7533	26	8755	32	
7	KMH08-282	12300	11336	19	13273	19	12914	2	10223	34	7591	24	9781	12	
8	HKH-406	11160	10568	28	13702	17	7471	53	10408	30	7108	43	8412	36	
9	HKH-407	10663	8843	46	9429	46	6236	56	10928	19	7438	31	7609	50	
10	JH-12108	11789	7901	52	13822	16	11030	17	10044	37	7021	44	9168	23	
11	JH-12114	10068	7794	53	8262	50	8034	52	10031	38	7980	16	7794	48	
12	IDX-2901	9516	9298	41	11156	34	8482	47	10509	27	6681	47	8011	42	
13	BMH-107	12182	11683	14	11618	31	10961	19	10682	24	7195	40	9227	21	
14	BMH-109	13139	9665	36	10755	41	7336	54	10583	25	8456	10	8250	38	
15	VMH-2000	10845	8696	47	10954	37	9383	40	9454	45	6411	52	8009	43	
16	JCY2-7xHKI163-1	9521	9408	38	10828	39	10493	27	9790	43	6847	46	8047	41	
17	HKI126xHKI163-1	10195	9992	32	10952	38	8795	43	10259	32	6479	51	7895	45	
18	MCH-39	15460	12912	7	12578	26	9892	33	10092	36	7356	32	10006	8	
19	MCH-40	13560	13898	2	13175	21	11741	7	11293	12	8746	5	10298	3	
20	APSA-91	11859	9493	37	14324	10	10885	21	10252	33	7356	33	9093	27	
21	GK-3060	13804	9842	34	13186	20	11159	16	10507	28	8938	4	9372	18	
22	GK-3074	11491	10072	31	9994	45	8347	48	7419	54	6545	49	7848	47	
23	GK-3076	11492	11813	11	10670	42	8715	45	10580	26	5844	55	8119	40	
24	LAXMIGOLD	12341	9396	40	15548	4	11477	12	11356	10	7490	28	9664	13	
25	LAXMI405	12336	9765	35	10054	43	8510	46	8437	51	6561	48	7876	46	
26	LAXMI288	10332	10280	30	10780	40	9474	38	11412	7	7648	21	8477	35	
27	BISCO-74	13784	8867	45	15326	6	11673	8	9318	46	7703	20	9357	19	
28	BISCO-574	11225	8907	44	8972	48	10519	26	8814	48	8049	15	8227	39	
29	PAC-799	11679	11262	20	14047	14	10702	24	11068	15	7637	23	9075	28	
30	BIO-265	13794	11612	15	11433	32	9739	34	11308	11	10166	1	10117	7	
31	NMH-731	11175	12263	8	13663	18	9510	37	11173	14	9074	3	9567	14	
32	NMH-920	10877	11351	18	14476	9	10253	30	9812	41	8392	11	9208	22	
33	NMH-958	14798	13863	3	15146	8	11433	14	10829	22	8389	12	10672	1	
34	AMAR6669	13517	13393	5	14094	12	11797	5	11467	5	7492	27	9881	11	

TABLE NO. 1 (CONTD.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 5	
		UDAI		BANS		CHHI		ZN 5		OV'L		ZN 5		GODH	
		R	R	R	R	R	R	MEAN	R	MEAN	R	MEAN	R	R	
1	KNMH-40901	3379	51	6134	16	3734	51	4416	41	6578	51	6523	15		
2	KNMH-40902	4139	33	4659	42	3870	49	4223	47	5923	56	3857	56		
3	KNMH-40903	4367	26	4977	33	1707	56	3684	55	5962	55	5660	25		
4	KNMH-40904	3931	38	4613	44	3443	53	3996	54	6423	53	4956	47		
5	CMH08-154	4228	32	6136	15	5042	34	5135	23	7903	17	5034	43		
6	CMH08-156	5574	2	3533	53	5738	11	4948	28	7536	28	5880	19		
7	CMH08-282	3504	49	4816	38	5195	28	4505	37	8331	7	5011	44		
8	HKH-406	3460	50	5538	26	2003	55	3667	56	6891	42	6011	18		
9	HKH-407	1388	56	5816	21	4903	37	4036	53	6449	52	5586	28		
10	JH-12108	5076	13	6240	14	6857	6	6058	5	8104	10	6851	9		
11	JH-12114	5351	8	4531	46	2562	54	4148	50	6967	41	6726	12		
12	IDX-2901	3664	45	5118	28	5622	13	4801	32	7264	36	4717	49		
13	BMH-107	5150	11	7332	6	5133	31	5871	6	7828	22	5690	24		
14	BMH-109	2897	55	5794	22	4283	45	4325	44	7415	34	5863	20		
15	VMH-2000	3687	43	3315	55	5513	17	4171	49	6751	48	6878	7		
16	JCY2-7xHKI163-1	5461	7	4907	35	5252	25	5207	21	7074	40	7195	4		
17	HKI1126xHKI163-1	4245	30	3832	52	5592	14	4557	36	6782	47	5272	39		
18	MCH-39	3857	39	6994	8	7535	3	6129	4	8514	2	5117	41		
19	MCH-40	3602	46	5105	30	6913	5	5207	20	8489	4	5833	21		
20	APSA-91	3942	37	4676	41	5810	10	4809	31	7442	33	5489	31		
21	GK-3060	4502	23	3927	50	4788	40	4405	42	7593	27	5315	36		
22	GK-3074	5468	6	5931	19	3602	52	5000	27	6680	50	4328	53		
23	GK-3076	3783	41	5011	31	5184	29	4659	33	7148	39	5629	27		
24	LAXMIGOLD	3300	52	5734	23	3921	48	4318	45	7713	25	7516	3		
25	LAXMI405	4586	21	4971	34	3860	50	4472	39	6850	44	5224	40		
26	LAXMI288	3992	36	3075	56	5228	27	4098	51	6859	43	5469	32		
27	BISCO-74	4086	34	5725	24	6039	8	5283	18	7896	18	5490	30		
28	BISCO-574	3850	40	4899	36	3930	47	4226	46	6844	45	7131	5		
29	PAC-799	4632	20	7431	4	4817	39	5627	12	7507	29	4942	48		
30	BIO-265	3673	44	6072	18	6622	7	5456	15	8097	12	5708	23		
31	NMH-731	5215	10	4892	37	5365	19	5157	22	7958	14	4275	54		
32	NMH-920	4894	16	6320	13	7240	4	6152	2	8101	11	6562	14		
33	NMH-958	4290	27	6335	12	5369	18	5331	16	8609	1	6843	10		
34	AMAR6669	5511	4	4548	45	5273	23	5111	24	8049	13	4646	50		

TABLE NO. 1 (CONTD.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		UDAI				BANS				CHHI				ZN 5			
		R	R	R	R	R	R	R	R	R	R	R	R	MEAN	R	MEAN	R
35	OM7878	3530	48	4987	32	4573	42	4363	43	7473	31	5444	34				
36	JRMH-8033	5808	1	5614	25	4567	43	5329	17	7196	37	5719	22				
37	JRMH-7005	4241	31	4183	47	5014	35	4480	38	7917	16	4991	45				
38	PRO-377	4790	18	4796	39	5651	12	5079	25	8131	9	8163	1				
39	PRO-378	5482	5	6089	17	5547	16	5706	10	8323	8	5653	26				
40	NK-6246	3101	54	5110	29	8590	1	5600	13	7876	20	4536	52				
41	NK-6267	4983	14	5818	20	8556	2	6452	1	8360	5	7599	2				
42	NK-6607	5531	3	7577	3	5337	20	6148	3	7831	21	4559	51				
43	NK-6617	4548	22	3893	51	5316	21	4586	35	7721	24	5507	29				
44	KMH-3670	4760	19	5131	27	5254	24	5048	26	7882	19	6145	17				
45	KMH-548	3564	47	6379	11	5812	9	5252	19	7934	15	6746	11				
46	X7A303	3699	42	3422	54	5078	33	4067	52	8346	6	5272	38				
47	X8B562	4262	28	4021	49	5582	15	4622	34	8493	3	6721	13				
48	KH-404	4929	15	7337	5	5126	32	5797	8	7478	30	6870	8				
49	MAIZEPOLO	5245	9	7183	7	5139	30	5855	7	7737	23	4969	46				
50	C.-1950	4048	35	4061	48	4489	44	4200	48	6226	54	5059	42				
51	C.-1945	4257	29	7812	2	5242	26	5770	9	7446	32	6881	6				
52	KF-105	4456	25	7942	1	4628	41	5675	11	7370	35	4088	55				
CHECKS																	
53	BIO-9681	4484	24	4689	40	4075	46	4416	40	6691	49	5366	35				
54	SEIDTEC-2324	3236	53	6540	9	4887	38	4888	30	7605	26	5304	37				
55	HQPM-1	4867	17	4615	43	5300	22	4928	29	6786	46	6202	16				
56	HQPM-7	5126	12	6418	10	4999	36	5514	14	7172	38	5444	33				
Location Mean		4315		5403		5120		4946		7474		5723					
Mean Stand		28		29		39		32		33		30					
C.D. (5%)		557		580		711		616		1166		1795					
C.V. (%)		7.98		6.64		8.58		-		-		19.38					
F (Prob)		0		0		0		-		-		0					
Plot Size		4.8		4.8		6		-		-		4.8					
AGRONOMY DATA																	
Sowing Date		11-07		16-07		14-07		-		-		8-01					
Harvest Date		9-10		5-11		20-11		-		-		21-11					
Irrigation Nos		2		2		-		-		-		-					
Fertilizer Applied N		90		120		120		-		-		100					
Fertilizer Applied P		60		40		60		-		-		50					
Fertilizer Applied K		-		-		40		-		-		50					

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681

Sl No	PEDIGREE	ZN 1										ZN 2				
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	
1	KNMH-40901	-	-	-	-	34.7	-	-	-	16.1	2.8	19.1	51.4	-	-	
2	KNMH-40902	-	-	-	-	-	4.1	-	-	22.1	-	9.2	-	-	-	
3	KNMH-40903	-	3.5	-	-	37.4	-	-	-	14.5	-	3.2	16.7	-	-	
4	KNMH-40904	-	-	-	-	46.7	5.4	-	-	13.3	5.2	8.5	-	-	-	
5	CMH8-154	-	27.9	-	-	102.6	-	26.5	-	13.2	14.9	42.8	30.5	45.4	-	
6	CMH8-156	-	-	5.7	-	41.7	6.4	8.6	3	10.8	10.1	25.4	34.1	17	-	
7	CMH8-282	9.7	-	6.1	5	115.7	-	39.2	14.8	-	21.8	26.6	47.2	43.6	7.7	
8	HKH-406	-	5.4	-	-	-	0.6	-	-	17.1	-	-	18.4	-	-	
9	HKH-407	-	21.5	-	-	-	-	-	-	3	-	-	24.3	-	-	
10	JH-12108	8.4	17	-	-	35.9	-	47	14.7	11.7	16.1	41.6	30	27.5	19.2	
11	JH-12114	-	28.7	-	-	46.2	-	14.8	-	6.7	3.5	21.6	19.7	-	-	
12	IDX-2901	1.5	-	13.5	4.9	26.1	-	10.8	-	0.7	-	34.4	25.1	12.8	0.2	
13	BMH-107	-	-	26	9.6	68	-	10.8	-	8.7	6.7	-	29.2	-	-	
14	BMH-109	-	-	17.3	7	16.4	-	7.4	-	16.7	3.2	54	11.6	8.1	5.6	
15	VMH-2000	-	-	5.2	-	1.3	7.9	-	-	0.1	-	-	41.8	-	-	
16	JCY2-7xHKI163-1	-	-	0.6	-	55.4	-	4.7	-	5.9	3.9	-	24.4	1.9	-	
17	HKI1126xHKI163-1	-	-	-	-	18.8	-	-	-	10.9	-	12.5	46.1	-	-	
18	MCH-39	6.5	-	-	-	50.5	3.5	42.6	14.6	9.9	20.1	12.1	73.9	21.4	14.5	
19	MCH-40	35.7	-	-	8.8	38.5	-	35.6	13	16.6	17.9	14.8	27.9	17	1.8	
20	APSA-91	-	-	9.4	-	5.1	5.2	16.5	-	17.3	3.7	2.2	29.1	-	-	
21	GK-3060	3.3	-	5.2	2.9	28.2	-	9.8	0.9	5	5.5	-	6.6	-	-	
22	GK-3074	-	-	-	-	48	-	-	-	10.1	-	-	10.7	-	5.8	
23	GK-3076	-	15	0.4	-	50.2	1	17.9	2.2	7	10.5	-	28.9	2.4	-	
24	LAXMIGOLD	-	-	-	-	13.5	-	20	13.7	11.8	10.4	-	29.4	7	-	
25	LAXMI405	-	7.8	10.4	4.8	14.4	-	-	-	11	-	-	45.9	-	-	
26	LAXMI288	-	-	-	-	18.8	-	-	-	-	-	-	27.2	-	-	
27	BISCO-74	10.5	-	-	-	47	1.4	15.2	-	19.9	10.9	11.7	17.3	-	14.7	
28	BISCO-574	8.9	-	-	0.5	11.1	-	-	-	14.9	-	-	12.2	-	-	
29	PAC-799	-	-	3.9	-	2.1	1.8	20.5	-	-	1.4	-	7.4	13.1	0.4	
30	BIO-265	1.8	-	-	-	52.3	6.5	16.7	4.2	4.6	11.7	-	24.8	2.5	-	

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681

Sl No	PEDIGREE	ZN 1							ZN 2						
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUHA	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA
31	NMH-731	12.6	-	2.8	4.4	44.4	3.2	24.6	-	3.4	7.4	17.7	11.3	-	8.2
32	NMH-920	22.1	-	15.4	16.4	-	-	28.6	2.5	-	4.4	49	28.5	13.9	1.6
33	NMH-958	16	19.8	-	5.5	39.2	-	29.5	11.3	10.4	14.5	19.6	28.6	2.2	25.4
34	AMAR6669	-	-	6.4	-	63.4	-	16.1	16.2	18.4	17.2	-	1.5	5.9	3.9
35	OM7878	4.4	1.5	-	-	39.9	-	5.2	5.7	8.7	6.6	-	51.3	13.3	-
36	JKMH-8033	-	18.8	-	-	94.6	4.7	19.6	5.8	3.9	16	-	10.9	-	-
37	JKMH-7005	-	-	14.9	0.6	34.7	-	38.2	5.1	20.4	15.6	22.2	31.7	34.2	-
38	PRO-377	11.6	-	-	-	37.1	1.1	48.7	15.9	15.3	21.2	-	15.4	12.5	1.1
39	PRO-378	7	-	8.2	5.3	45.2	-	27.9	3.6	12.1	11.4	-	63.2	6.6	4.6
40	NK-6246	-	-	-	-	73.9	-	15.8	-	13.2	9.1	11.9	7.8	-	3.2
41	NK-6267	14	-	-	-	44.3	3.8	34.4	-	9.2	12.9	7.9	46.5	30.3	-
42	NK-6607	6.4	5.5	-	-	52.2	-	32.3	-	16.8	14.3	23.1	20.9	-	-
43	NK-6617	9.7	-	-	-	47	-	8.1	-	19.6	7.8	19.9	48.6	0.3	-
44	KMH-3670	-	25.5	-	-	0.6	-	13.3	-	2.3	-	12.8	19.1	-	-
45	KMH-548	9.4	-	-	-	28.6	-	31.3	7.5	5.9	11.8	11.8	15.2	0.6	7.9
46	X7A303	18.6	-	-	5.4	76.4	-	29	24.3	0.2	18.1	46.1	40.9	17.6	21.1
47	X8B562	23.3	-	-	-	62.7	-	47.9	27.8	16.6	25	27.9	52.5	21.1	8.2
48	KH-404	-	-	-	-	25.5	-	15	-	5.3	-	24	39.3	-	-
49	MAIZEPOLO	7.1	-	14.8	8.4	15	-	13.7	-	10.8	4	16	44.4	-	-
50	C.-1950	-	-	-	-	-	-	-	-	9.1	-	-	12	15.5	-
51	C.-1945	-	1.5	7.6	1.8	28.9	-	8.4	-	19.4	4.9	7.3	4.6	22.9	-
52	KF-105	-	3	-	-	30.4	-	16.3	0.6	15	8	21	24.4	-	-
53	CHECKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
53	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-
54	SEEDTEC-2324	2.3	-	3.9	0.4	44.8	-	19.2	-	23	5.6	28.6	11.6	1.7	-
55	HQPM-1	-	-	0.1	-	21.1	-	-	-	23.1	0.2	-	27.4	14	-
56	HQPM-7	-	-	-	-	20.2	-	-	0.6	9.7	-	-	37.6	8.6	-

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681

Sl No	PEDIGREE	AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	MAND	COIM	POCB	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	ZN 4 MEAN
1	KNMH-40901	-	-	0.4	-	46.7	-	-	-	26.8	-	-	70	1.3
2	KNMH-40902	-	-	7.6	-	16.7	-	-	11.5	2.1	-	-	21.5	-
3	KNMH-40903	-	-	12.4	13.9	-	-	-	-	-	-	-	45.5	-
4	KNMH-40904	-	-	-	47.2	16.6	27.5	-	4	-	-	-	42	3
5	CMH08-154	10.8	16.2	58.9	37.5	25	19.4	1.6	15.4	71.8	24.2	-	86.6	27.3
6	CMH08-156	5.6	4.9	28.1	10.3	36	9.3	11.3	21.2	64.4	26	-	50.4	22.3
7	CMH08-282	17.4	23	48.2	15.5	106.5	13.7	20.6	39.2	94.1	38.6	0.7	51.6	36.6
8	HKH-406	-	-	21.8	-	26.8	14.6	9.4	29.7	100.4	-	2.5	41.9	17.5
9	HKH-407	-	-	19.4	-	15.8	2.5	4.5	8.6	37.9	-	7.6	48.5	6.3
10	JH-12108	13	23.8	64.1	-	106.6	15.2	15.6	-	102.2	18.3	-	40.2	28.1
11	JH-12114	11.4	6.5	12.9	5.1	44	15.8	-	-	20.8	-	-	59.3	8.9
12	IDX-2901	20.4	14.9	15.1	-	48.7	5.1	-	14.2	63.2	-	3.5	33.4	11.9
13	BMH-107	6.9	-	20.1	23.7	47.9	24.5	19.4	43.4	69.9	17.6	5.2	43.7	28.9
14	BMH-109	25.2	18.7	-	-	36.8	2.6	28.8	18.7	57.3	-	4.2	68.8	15.2
15	VMH-2000	-	-	23.5	-	60.7	-	6.3	6.8	60.2	0.7	-	28	11.9
16	JCY2-7xHKI163-1	-	-	33.2	-	40	-	-	15.5	58.4	12.6	-	36.7	12.4
17	HKI1126xHKI163-1	12.2	-	20.9	-	34.6	-	-	22.7	60.2	-	1	29.4	10.3
18	MCH-39	17.2	22.6	47.1	-	98.6	51.3	51.5	58.5	84	6.1	-	46.9	39.8
19	MCH-40	25.2	14.5	16	10.9	101.5	53.8	32.9	70.6	92.7	26	11.2	74.6	43.8
20	APSA-91	3.3	-	28.6	-	6.4	33	16.2	16.5	109.5	16.8	1	46.9	27
21	GK-3060	-	-	26.6	-	24.2	30.6	35.3	20.8	92.9	19.7	3.5	78.5	30.9
22	GK-3074	-	-	32.5	20.1	8.9	-	12.6	23.6	46.2	-	-	30.7	9.6
23	GK-3076	-	-	14.2	-	33.2	-	12.6	45	56	-	4.2	16.7	13.4
24	LAXMIGOLD	8.4	-	52.2	-	23.2	48	21	15.3	127.4	23.1	11.8	49.5	35
25	LAXMI405	-	-	5.4	-	-	30.7	20.9	19.9	47	-	-	31	10
26	LAXMI288	-	-	21.4	-	37.2	18.8	1.3	26.2	57.7	1.6	12.4	52.7	18.4
27	BISCO-74	19.6	13.1	47.6	12.9	56.9	-	35.1	8.9	124.1	25.2	-	53.8	30.7
28	BISCO-574	-	-	26	-	39.9	24.4	10	9.3	31.2	12.9	-	60.7	14.9
29	PAC-799	-	-	30.7	1.7	-	13.2	14.5	38.3	105.4	14.8	9	52.5	26.8
30	BIO-265	16.4	-	34.4	32.7	113.8	42.9	35.2	42.6	67.2	4.5	11.4	103	41.3

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681

SI NO	PEDIGREE	ZN 3			HYDE	KARI	MAND	COIM	BANG POCB	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	ZN 4 MEAN
		AMBI	ARBH	MEAN										
31	NMH-731	15.8	46.1	9.7	17.7	43.2	26.6	9.5	50.6	99.8	2	10	81.2	33.6
32	NMH-920	27.4	70.5	19.8	-	1.7	21.6	6.6	39.4	111.7	10	-	67.5	28.6
33	NMH-958	11.1	59.1	18	13.5	90	42.3	45	70.2	121.5	22.7	6.6	67.5	49.1
34	AMAR6669	5.8	56.9	0.1	7.8	16.5	17.9	32.5	64.4	106.1	26.6	12.9	49.6	38
35	OM7878	5.2	34.4	7	-	41.4	6.4	25	5.4	81	15.6	8.3	53.9	22.6
36	JKMH-8033	14.3	-	-	4.9	67.4	-	15	30.9	-	4	13.3	49.4	11.6
37	JKMH-7005	18.6	12.2	16.4	-	88	31.3	20.8	28.3	85.8	11	6.5	49.3	29
38	PRO-377	-	27.9	0	5.5	99.1	26.8	25.4	37.9	122.1	17.6	14	72.2	39.5
39	PRO-378	1.4	57.8	9.7	11.6	109.6	37.4	21.9	45	125.4	23.5	7.3	44.8	42.2
40	NK-6246	21.5	22.3	8.3	12.7	80.2	2.7	29	36.9	134.5	2.1	8.9	54.4	33.5
41	NK-6267	18.3	23.8	13.4	54.4	106.7	5.9	24.2	76.3	84.6	34	12.6	43.5	41.4
42	NK-6607	27.4	25.5	3.8	16.7	10.8	0.4	26.5	30	86.6	23.9	12.3	46.7	27.1
43	NK-6617	14.3	55.3	4.3	36.3	59.9	16	3.7	35	107.7	22.8	-	46.9	32
44	KMH-3670	12.1	58.2	4.6	7.2	-	27.6	55.5	65.5	142.5	21.9	10.9	62.1	45
45	KMH-548	3.4	14.4	7.2	18.4	50.9	10.2	42.7	48	83.6	8.2	13.4	67.3	33.4
46	X7A303	29	28.8	28.5	-	26.3	17.4	34.8	62.6	103.3	37	14.8	70.5	38.7
47	X8B562	22	61.7	21.4	0.5	87.2	30.7	45	43.8	129.8	51.8	-	52.5	42.8
48	KH-404	19.4	2.4	9.5	2.7	48.7	13.1	15.6	40.4	88.8	8.1	1.6	51.3	24.6
49	MAIZEPOLO	6.8	30.2	6.7	-	27.1	13.8	25.6	34.9	71.6	14.8	7.5	44.3	24.6
50	C.-1950	-	5.8	-	-	-	-	3.1	-	17.5	1.2	-	30.1	0.4
51	C.-1945	4.9	-	0.1	12.4	-	-	26.6	35.4	62.2	16.2	12.4	18.6	18.5
52	KF-105 CHECKS	16.2	4.1	6.8	11.9	-	-	26.6	46.2	46.7	-	3.2	38.3	15.9
53	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-
54	SEEDTEC-2324	18.2	24.8	0.2	-	42	22.7	9.1	41.2	105.5	17.9	8.4	46.3	28.1
55	HQPM-1	-	20	-	-	39.7	-	9.6	-	36.6	0.6	-	71.5	7.8
56	HQPM-7	-	20.3	-	4.9	55.6	13.4	10.6	12.8	60.4	12.4	-	58.6	18.9

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681									
Sl No	PEDIGREE	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 5 GODH		
1	KNMH-40901	-	30.8	-	-	-	21.6	-	-
2	KNMH-40902	-	-	-	-	-	-	-	-
3	KNMH-40903	-	6.1	-	-	-	5.5	-	-
4	KNMH-40904	-	-	-	-	-	-	-	-
5	CMH08-154	-	30.9	23.7	16.3	18.1	-	-	-
6	CMH08-156	24.3	-	40.8	12.1	12.6	9.6	-	-
7	CMH08-282	-	2.7	27.5	2	24.5	-	-	-
8	HKH-406	-	18.1	-	-	3	12	-	-
9	HKH-407	-	24	20.3	-	-	4.1	-	-
10	JH-12108	13.2	33.1	68.3	37.2	21.1	27.7	-	-
11	JH-12114	19.3	-	-	-	4.1	25.3	-	-
12	IDX-2901	-	9.2	38	8.7	8.6	-	-	-
13	BMH-107	14.9	56.4	26	33	17	6	-	-
14	BMH-109	-	23.6	5.1	-	10.8	9.3	-	-
15	VMH-2000	-	-	35.3	-	0.9	28.2	-	-
16	JCY2-7xHKI163-1	21.8	4.6	28.9	17.9	5.7	34.1	-	-
17	HKI1126xHKI163-1	-	-	37.3	3.2	1.4	-	-	-
18	MCH-39	-	49.2	84.9	38.8	27.3	-	-	-
19	MCH-40	-	8.9	69.7	17.9	26.9	8.7	-	-
20	APSA-91	-	-	42.6	8.9	11.2	2.3	-	-
21	GK-3060	0.4	-	17.5	-	13.5	-	-	-
22	GK-3074	21.9	26.5	-	13.2	-	-	-	-
23	GK-3076	-	6.9	27.2	5.5	6.8	4.9	-	-
24	LAXMIGOLD	-	22.3	-	-	15.3	40.1	-	-
25	LAXMI405	2.3	6	-	1.3	2.4	-	-	-
26	LAXMI288	-	-	28.3	-	2.5	1.9	-	-
27	BISCO-74	-	22.1	48.2	19.6	18	2.3	-	-
28	BISCO-574	-	4.5	-	-	2.3	32.9	-	-
29	PAC-799	3.3	58.5	18.2	27.4	12.2	-	-	-
30	BIO-265	-	29.5	62.5	23.5	21	6.4	-	-

TABLE NO. 1 (CONTD.)

S1 No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681							ZN 5 GODH
		UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 5	GODH	
31	NMH-731	16.3	4.3	31.7	16.8	18.9	-	-	
32	NMH-920	9.1	34.8	77.7	39.3	21.1	22.3	22.3	
33	NMH-958	-	35.1	31.8	20.7	28.7	27.5	27.5	
34	AMAR6669	22.9	-	29.4	15.7	20.3	-	-	
35	OM7878	-	6.3	12.2	-	11.7	1.4	1.4	
36	JKMH-8033	29.5	19.7	12.1	20.7	7.5	6.6	6.6	
37	JKMH-7005	-	-	23.1	1.4	18.3	-	-	
38	PRO-377	6.8	2.3	38.7	15	21.5	52.1	52.1	
39	PRO-378	22.3	29.9	36.1	29.2	24.4	5.4	5.4	
40	NK-6246	-	9	110.8	26.8	17.7	-	-	
41	NK-6267	11.1	24.1	110	46.1	24.9	41.6	41.6	
42	NK-6607	23.3	61.6	31	39.2	17	-	-	
43	NK-6617	1.4	-	30.5	3.8	15.4	2.6	2.6	
44	KMH-3670	6.1	9.4	28.9	14.3	17.8	14.5	14.5	
45	KMH-548	-	36	42.6	18.9	18.6	25.7	25.7	
46	X7A303	-	-	24.6	-	24.7	-	-	
47	X8B562	-	-	37	4.7	26.9	25.2	25.2	
48	KH-404	9.9	56.5	25.8	31.3	11.8	28	28	
49	MAIZEPOLO	17	53.2	26.1	32.6	15.6	-	-	
50	C.-1950	-	-	10.2	-	-	-	-	
51	C.-1945	-	66.6	28.7	30.7	11.3	28.2	28.2	
52	KF-105	-	69.4	13.6	28.5	10.2	-	-	
CHECKS									
53	BIO-9681	-	-	-	-	-	-	-	
54	SEEDTEC-2324	-	39.5	19.9	10.7	13.7	-	-	
55	HQPM-1	8.5	-	30.1	11.6	1.4	15.6	15.6	
56	HQPM-7	14.3	36.9	22.7	24.9	7.2	1.5	1.5	

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324

S1 NO PEDIGREE	ZN 1										ZN 2			
	BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA
1 KNMH-40901	-	-	-	-	-	6.2	-	11.7	-	-	-	35.6	-	19.2
2 KNMH-40902	-	5.8	-	-	-	21.6	-	-	-	-	-	-	-	-
3 KNMH-40903	-	44.7	-	-	-	15.4	-	-	-	-	-	4.5	-	-
4 KNMH-40904	-	8.4	-	-	1.3	23.1	-	12.7	-	-	-	-	-	1.9
5 CMH08-154	-	78.8	-	-	39.9	2.9	6.1	17.6	-	8.8	11	16.9	43	26.7
6 CMH08-156	-	18.7	1.7	-	-	24.3	-	22.2	-	4.3	-	20.1	15.1	13
7 CMH08-282	7.2	9.5	2.1	4.6	48.9	15.2	16.8	36.3	-	15.4	-	31.9	41.2	51.5
8 HKH-406	-	47.4	-	-	-	17.5	-	-	-	-	-	6.1	-	20.6
9 HKH-407	-	69.8	-	-	-	9.5	-	8.5	-	-	-	11.4	-	17.8
10 JH-12108	6	63.6	-	-	-	-	23.3	36.1	-	9.9	10.1	16.5	25.4	67.6
11 JH-12114	-	80	-	-	0.9	11.5	-	1.2	-	-	-	7.2	-	38
12 IDX-2901	-	-	9.3	4.5	-	0.1	-	9.5	-	-	4.5	12.1	10.9	40.9
13 BMH-107	-	-	21.3	9.2	16	7.7	-	10.5	-	1.1	-	15.7	-	31.6
14 BMH-109	-	25.4	12.9	6.6	-	11.2	-	8.6	-	-	19.7	0	6.3	48.6
15 VMH-2000	-	28.9	1.2	-	-	26.1	-	-	-	-	-	27	-	14.6
16 JCY2-7xHKH163-1	-	28.9	-	-	7.3	8	-	10.9	-	-	-	11.4	0.2	13.3
17 HKH126xHKH163-1	-	-	-	-	-	13	-	-	-	-	-	30.9	-	-
18 MCH-39	4.2	20	-	-	3.9	20.9	19.7	36	-	13.8	-	55.8	19.4	61
19 MCH-40	32.7	23	-	8.4	-	16.6	13.8	34.1	-	11.7	-	14.6	15.1	43.2
20 APSA-91	-	15.7	5.3	-	-	22.9	-	-	-	-	-	15.6	-	8.2
21 GK-3060	1.1	22.5	1.2	2.5	-	14.5	-	19.7	-	-	-	-	-	31.5
22 GK-3074	-	25.7	-	-	2.2	-	-	13.8	-	-	-	-	-	48.8
23 GK-3076	-	60.8	-	-	3.7	18	-	21.2	-	4.7	-	15.5	0.6	33.5
24 LAXMIGOLD	-	12.1	-	-	-	9.7	0.7	34.9	-	4.6	-	16	5.2	26.8
25 LAXMI405	-	50.8	6.3	4.4	-	16.3	-	-	-	-	-	30.7	-	12.9
26 LAXMI288	-	-	-	-	-	9.9	-	-	-	-	-	13.9	-	17.5
27 BISCO-74	8.1	24.4	-	-	1.5	18.5	-	14.1	-	5.1	-	5.1	-	61.4
28 BISCO-574	6.5	0.5	-	0.2	-	10.5	-	-	-	-	-	0.5	-	19.7
29 PAC-799	-	-	-	-	-	18.9	1.2	9.7	-	-	-	-	11.2	41.1
30 BIO-265	-	11.7	-	-	5.2	24.4	-	23.7	-	5.8	-	11.8	0.7	14.2

TABLE NO. 1 (CONTD.)

Sl	No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324												
			BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	JASH
31	NMH-731	10.2	7.5	-	4	-	20.6	4.5	6.4	-	1.7	-	-	-	52.1
32	NMH-920	19.4	35.4	11.1	16	-	12.3	7.9	21.6	-	-	15.9	15.1	12	42.8
33	NMH-958	13.5	67.5	-	5.1	-	14.3	8.7	32	-	8.5	-	15.2	0.5	76.4
34	AMAR6669	-	-	2.4	-	12.8	14.1	-	37.8	-	11	-	-	4.1	46.2
35	OM7878	2.1	41.9	-	-	-	7.9	-	25.4	-	1	-	35.5	11.4	32.4
36	JNMH-8033	-	66.1	-	-	34.3	22.4	0.4	25.5	-	9.9	-	-	-	15
37	JNMH-7005	-	12.3	10.5	0.2	-	10.6	16	24.8	-	9.5	-	18	31.9	39.8
38	PRO-377	9.1	5.8	-	-	-	18.2	24.8	37.5	-	14.8	-	3.4	10.6	42.2
39	PRO-378	4.6	14.3	4.1	4.9	0.3	5.7	7.3	22.9	-	5.5	-	46.2	4.8	47.1
40	NK-6246	-	24.2	-	-	20.1	12.1	-	6.7	-	3.4	-	-	-	45.1
41	NK-6267	11.4	11.7	-	-	-	21.3	12.8	15.5	-	7	-	31.2	28.1	32.6
42	NK-6607	4.1	47.6	-	-	5.1	14.6	11	17.9	-	8.3	-	8.3	-	12.3
43	NK-6617	7.3	15.2	-	-	1.5	4.8	-	17.1	-	2.1	-	33.2	-	9.8
44	KMH-3670	-	75.4	-	-	-	10.2	-	-	-	-	-	6.7	-	37.7
45	KMH-548	7	5	-	-	-	14.6	10.2	27.5	-	6	-	3.2	-	51.8
46	X7A303	16	14	-	5	21.8	7.6	8.2	47.5	-	11.8	13.6	26.2	15.7	70.3
47	X8B562	20.6	26.6	-	-	12.4	6.7	24.1	5.6	-	18.4	-	36.7	19.1	52.1
48	KE-404	-	-	-	-	-	-	-	7.4	-	-	-	24.8	-	30.4
49	MAIZEPOLO	4.7	7.7	10.4	7.9	-	15.8	-	9.1	-	-	-	29.3	-	40.2
50	C.-1950	-	-	-	-	-	-	-	-	-	-	-	0.3	-	-
51	C.-1945	-	41.9	3.6	1.4	-	-	-	16	-	-	-	-	13.6	-
52	KF-105	-	44	-	-	-	8.2	-	19.4	-	2.3	-	-	20.8	15.4
	CHECKS												11.5	-	33.4
53	BIO-9681	-	39.8	-	-	-	16.8	-	18.6	-	-	-	-	-	40.6
54	SEEDTEC-2324	-	-	-	-	-	-	-	-	-	-	-	-	-	-
55	HOPM-1	-	-	-	-	-	0.9	-	11.2	0.1	-	-	14.1	12.1	-
56	HOPM-7	-	2.7	-	-	-	-	-	19.4	-	-	-	23.3	6.8	-

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324													
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	MAND	COIM	BANG POCB	BANG JKAG	BANG BAYE	BANG GANG			
1	KNMH-40901	-	-	-	-	3.3	-	-	-	-	-	-	-	-	-
2	KNMH-40902	-	-	-	1.9	-	-	-	-	-	-	-	-	-	-
3	KNMH-40903	-	-	-	36.6	-	-	-	-	-	-	-	-	-	-
4	KNMH-40904	-	-	-	76.4	-	3.9	-	-	-	-	-	-	-	-
5	CMH08-154	-	16.1	27.3	64.9	-	-	-	-	-	-	-	-	5.3	-
6	CMH08-156	-	4.8	2.6	32.2	-	-	2	-	-	-	-	-	6.9	-
7	CMH08-282	-	22.8	18.7	38.5	45.4	-	10.5	-	-	-	-	-	17.5	-
8	HKH-406	-	-	-	-	-	-	0.2	-	-	-	-	-	-	-
9	HKH-407	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	JH-12108	-	23.6	31.4	17.1	45.5	-	5.9	-	-	-	-	-	0.3	-
11	JH-12114	-	6.4	-	26	1.4	-	-	-	-	-	-	-	-	-
12	IDX-2901	1.8	14.7	-	10.2	4.7	-	-	-	-	-	-	-	-	-
13	BMH-107	-	-	-	48.3	4.1	1.5	9.4	1.6	-	-	-	-	-	-
14	BMH-109	5.9	18.5	-	-	-	-	18	-	-	-	-	-	-	-
15	VMH-2000	-	-	-	3.9	13.2	-	-	-	-	-	-	-	-	-
16	JCY2-7xHKI163-1	-	-	6.7	10.4	-	-	-	-	-	-	-	-	-	-
17	HKI1126xHKI163-1	-	-	-	6.8	-	-	-	-	-	-	-	-	-	-
18	MCH-39	-	22.4	17.8	13.2	39.8	23.3	38.8	12.3	-	-	-	-	-	-
19	MCH-40	5.9	14.3	-	11	41.9	25.4	21.8	20.8	-	-	-	1.9	-	-
20	APSA-91	-	-	3	32.9	-	8.4	6.5	-	-	-	-	-	-	-
21	GK-3060	-	-	1.4	13.2	-	6.5	24	-	-	-	-	-	1.5	-
22	GK-3074	-	-	6.2	44	-	-	3.2	-	-	-	-	-	-	-
23	GK-3076	-	-	-	2.4	-	-	3.2	2.7	-	-	-	-	-	-
24	LAXMIGOLD	-	-	21.9	17.5	-	20.6	10.8	-	-	-	-	10.6	4.4	3.2
25	LAXMI405	-	-	-	-	-	6.5	10.8	-	-	-	-	-	-	-
26	LAXMI288	-	-	-	-	-	-	-	-	-	-	-	-	-	-
27	BISCO-74	1.2	12.9	18.2	35.4	10.5	-	23.8	-	-	-	9.1	6.2	-	-
28	BISCO-574	-	-	0.9	0.5	-	1.3	0.8	-	-	-	-	-	-	-
29	PAC-799	-	-	4.7	21.9	-	-	4.9	-	-	-	-	-	-	0.5
30	BIO-265	-	-	7.7	59.1	50.6	16.4	23.9	1	-	-	-	-	-	2.7

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324

SI NO	PEDIGREE	AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	MAND	COIM	PCCB	BANG JKAG	BANG BAYE	BANG GANG
31	NMH-731	-	9.6	17	41.1	0.9	3.2	0.4	6.6	-	-	1.5
32	NMH-920	7.8	19.6	36.5	18.2	-	-	-	-	3	-	-
33	NMH-958	-	17.8	27.4	36	33.8	15.9	32.9	20.5	7.8	4	-
34	AMAR6669	-	-	25.7	29.2	-	-	21.4	16.4	0.3	7.3	4.2
35	CM7878	-	6.8	7.7	-	-	-	14.5	-	-	-	-
36	JKMH-8033	-	-	-	25.7	17.9	-	5.3	-	-	-	4.5
37	JKMH-7005	0.3	16.2	-	15.8	32.4	7	10.7	-	-	-	-
38	PRO-377	-	-	2.5	26.5	40.2	3.3	14.9	-	8.1	-	5.2
39	PRO-378	-	9.6	26.4	33.8	47.6	12	11.7	2.7	9.7	4.7	-
40	NK-6246	2.7	8.2	-	35.2	26.9	-	18.2	-	14.1	-	0.4
41	NK-6267	0.1	13.3	-	85.1	45.6	-	13.8	24.8	-	13.7	3.9
42	NK-6607	7.7	3.7	0.5	39.9	-	-	15.9	-	-	5.1	3.6
43	NK-6617	-	4.1	24.4	63.4	12.6	-	-	-	1.1	4.1	-
44	KMH-3670	-	4.5	26.7	28.6	-	4	42.5	17.2	18	3.4	2.3
45	KMH-548	-	7	-	42	6.3	-	30.8	4.8	-	-	4.6
46	X7A303	9.1	28.3	3.2	13.7	-	-	23.5	15.1	-	16.2	5.9
47	X8B562	3.2	21.3	29.5	20.6	31.8	6.5	32.8	1.9	11.8	28.7	-
48	KH-404	1	9.3	-	23.1	4.7	-	5.9	-	-	-	-
49	MAIZEPOLO	-	6.6	4.3	5	-	-	15.1	-	-	-	-
50	C.-1950	-	-	-	12.5	-	-	-	-	-	-	-
51	C.-1945	-	-	-	34.7	-	-	16	-	-	-	3.7
52	KF-105	-	6.6	-	34.1	-	-	16	3.6	-	-	-
CHECKS												
53	BIO-9681	-	-	-	19.9	-	-	-	-	-	-	-
54	SEEDTEC-2324	-	-	-	-	-	-	-	-	-	-	-
55	HQPM-1	-	-	-	6.9	-	-	0.4	-	-	-	-
56	HQPM-7	-	-	-	25.7	9.6	-	1.4	-	-	-	-

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	HYDE		UDAI	BANS	CHHI	ZN 5		OV'L MEAN	ZN 5 GODH
		BIOS	ZN 4 MEAN				MEAN	GODH		
1	KNMH-40901	16.2	-	4.4	-	-	-	-	-	23
2	KNMH-40902	-	-	27.9	-	-	-	-	-	-
3	KNMH-40903	-	-	35	-	-	-	-	-	6.7
4	KNMH-40904	-	-	21.5	-	-	-	-	-	-
5	CMH08-154	27.5	-	30.7	-	3.2	5.1	3.9	-	-
6	CMH08-156	2.8	-	72.3	-	17.4	1.2	-	-	10.9
7	CMH08-282	3.6	6.7	8.3	-	6.3	-	9.5	-	-
8	HKH-406	-	-	6.9	-	-	-	-	-	13.3
9	HKH-407	1.5	-	-	-	0.3	-	-	-	5.3
10	JH-12108	-	0	56.9	-	40.3	23.9	6.6	-	29.2
11	JH-12114	8.9	-	65.4	-	-	-	-	-	26.8
12	IDX-2901	-	-	13.2	-	15	-	-	-	-
13	BMH-107	-	0.6	59.2	12.1	5	20.1	2.9	-	7.3
14	BMH-109	15.4	-	-	-	-	-	-	-	10.5
15	VMH-2000	-	-	13.9	-	12.8	-	-	-	29.7
16	JCY2-7xHKI163-1	-	-	68.8	-	7.5	6.5	-	-	35.7
17	HKI1126xHKI163-1	-	-	31.2	-	14.4	-	-	-	-
18	MCH-39	0.4	9.2	19.2	6.9	54.2	25.4	12	-	-
19	MCH-40	19.3	12.3	11.3	-	41.5	6.5	11.6	10	-
20	APSA-91	0.4	-	21.8	-	18.9	-	-	-	3.5
21	GK-3060	22	2.2	39.1	-	-	-	-	-	0.2
22	GK-3074	-	-	69	-	-	2.3	-	-	-
23	GK-3076	-	-	16.9	-	6.1	-	-	-	6.1
24	LAXMIGOLD	2.2	5.4	2	-	-	-	1.4	-	41.7
25	LAXMI405	-	-	41.7	-	-	-	-	-	-
26	LAXMI288	4.3	-	23.4	-	7	-	-	-	3.1
27	BISCO-74	5.1	2.1	26.3	-	23.6	8.1	3.8	-	3.5
28	BISCO-574	9.8	-	19	-	-	-	-	-	34.5
29	PAC-799	4.2	-	43.2	13.6	-	15.1	-	-	-
30	BIG-265	38.7	10.4	13.5	-	35.5	11.6	6.5	-	7.6

TABLE NO. 1 (CONTD.)

GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324											
SI	NO PEDIGREE	HYDE	ZN 4	UDAI	BANS	CHHI	ZN 5	OV'L	ZN 5	OV'L	ZN 5
		BIOS	MEAN				MEAN	MEAN	MEAN	MEAN	GODH
31	NMH-731	23.8	4.4	61.2	-	9.8	5.5	4.6	-	-	-
32	NMH-920	14.5	0.4	51.3	-	48.2	25.9	6.5	23.7	-	-
33	NMH-958	14.5	16.4	32.6	-	9.9	9.1	13.2	29	-	-
34	AMAR6669	2.2	7.8	70.3	-	7.9	4.6	5.8	-	-	-
35	CM7878	5.2	-	9.1	-	-	-	-	2.6	-	-
36	JKMH-8033	2.1	-	79.5	-	-	9	-	7.8	-	-
37	JKMH-7005	2	0.8	31.1	-	2.6	-	4.1	-	-	-
38	PRO-377	17.7	8.9	48	-	15.6	3.9	6.9	53.9	-	-
39	PRO-378	-	11	69.4	-	13.5	16.7	9.4	6.6	-	-
40	NK-6246	5.5	4.3	-	-	75.8	14.6	3.6	-	-	-
41	NK-6267	-	10.4	54	-	75.1	32	9.9	43.3	-	-
42	NK-6607	0.3	-	70.9	15.9	9.2	25.8	3	-	-	-
43	NK-6617	0.4	3.1	40.6	-	8.8	-	1.5	3.8	-	-
44	KMH-3670	10.8	13.3	47.1	-	7.5	3.3	3.6	15.9	-	-
45	KMH-548	14.3	4.2	10.1	-	18.9	7.4	4.3	27.2	-	-
46	X7A303	16.5	8.3	14.3	-	3.9	-	9.7	-	-	-
47	X8B562	4.2	11.6	31.7	-	14.2	-	11.7	26.7	-	-
48	KH-404	3.4	-	52.3	12.2	4.9	18.6	-	29.5	-	-
49	MAIZEPOLO	-	-	62.1	9.8	5.2	19.8	1.7	-	-	-
50	C.-1950	-	-	25.1	-	-	-	-	-	-	-
51	C.-1945	-	-	31.6	19.4	7.3	18.1	-	29.7	-	-
52	KF-105	-	-	37.7	21.4	-	16.1	-	-	-	-
	CHECKS										
53	BIO-9681	-	-	38.6	-	-	-	-	1.2	-	-
54	SEEDTEC-2324	-	-	-	-	-	-	-	-	-	-
55	HQPM-1	17.2	-	50.4	-	8.5	0.8	-	16.9	-	-
56	HQPM-7	8.4	-	58.4	-	2.3	12.8	-	2.6	-	-

TABLE NO. 1 (CONTD.)

SI	NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HOPM-1													ZN 2	
			BAJA	BARA	KANG	ZN 1	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	
1		KNMH-40901	-	-	-	-	11.2	5.3	10.4	0.4	-	-	2.6	76.8	18.8	-	29.3
2		KNMH-40902	-	9.4	-	-	-	20.6	-	-	-	-	-	62.1	-	-	-
3		KNMH-40903	-	49.7	-	-	13.4	14.5	-	-	-	-	-	53.2	-	-	-
4		KNMH-40904	-	12.1	-	-	21.2	22.1	3	1.3	-	5	61.1	-	-	10.5	
5		CMH08-154	-	84.9	-	1	67.3	2	42.5	5.8	-	14.6	112.1	2.4	27.5	37.5	
6		CMH08-156	-	22.7	5.5	-	17	23.2	22.3	9.9	-	9.8	86.2	5.3	2.6	22.5	
7		CMH08-282	13.6	13.2	5.9	9.4	78.1	14.2	56.8	22.5	-	21.5	88	15.6	26	64.4	
8		BKH-406	-	52.4	-	-	-	16.6	11.3	-	-	-	47.2	-	-	30.8	
9		BKH-407	-	75.6	-	-	-	8.6	-	-	-	-	32	-	-	27.8	
10		JH-12108	12.2	69.2	-	-	12.2	-	65.6	22.3	-	15.8	110.3	2	11.9	81.9	
11		JH-12114	-	86.2	-	-	20.7	10.6	29.3	-	-	3.3	80.6	-	-	49.7	
12		IDX-2901	5.1	1.6	13.4	9.3	4.1	-	24.8	-	-	-	99.6	-	-	52.8	
13		BMH-107	0.6	1.9	25.8	14.2	38.7	6.8	24.9	-	-	6.5	30.8	1.4	-	42.8	
14		BMH-109	1	29.7	17.1	11.5	-	10.2	21	-	-	3	128.7	-	-	61.2	
15		VMH-2000	-	33.3	5	1.4	-	25	6.7	-	-	-	36.2	11.3	-	24.4	
16		JCY2-7xHKI163-1	-	33.3	0.5	1.4	28.3	7	17.9	-	-	3.7	34.4	-	-	22.9	
17		HKI1126xHKI163-1	-	-	-	-	-	12	-	-	-	-	67	14.7	-	5	
18		MCH-39	10.3	24.1	-	1.7	24.3	19.9	60.7	22.3	-	19.8	66.5	36.5	6.5	74.7	
19		MCH-40	40.5	27.2	-	13.4	14.4	15.6	52.8	20.6	-	17.6	70.5	0.4	2.6	55.3	
20		APSA-91	-	19.7	9.3	4	-	21.9	31.3	-	-	3.5	51.8	1.3	-	17.4	
21		GK-3060	7	26.7	5.1	7.2	5.9	13.5	23.7	7.6	-	5.2	46.6	-	-	42.6	
22		GK-3074	-	30	-	-	22.2	-	-	2.3	-	-	16	-	-	61.4	
23		GK-3076	-	66.3	0.3	1.7	24	17	32.9	9	-	10.2	10.7	1.2	-	44.8	
24		LAXMIGOLD	-	16	-	-	-	8.8	35.2	21.3	-	10.2	18.9	1.6	-	37.6	
25		LAXMI405	0.3	55.9	10.3	9.2	-	15.3	3.6	-	-	-	13.2	14.5	-	22.5	
26		LAXMI288	-	-	-	-	-	8	2.3	-	-	-	27	-	-	27.5	
27		BISCO-74	14.5	28.7	-	-	21.4	17.5	29.8	2.6	-	10.7	65.8	-	-	75.1	
28		BISCO-574	12.7	4	-	4.8	-	9.6	0.4	-	-	-	0.5	-	-	29.9	
29		PAC-799	-	-	3.7	-	-	17.9	35.8	-	-	-	-	-	-	53.1	
30		BIO-265	5.5	15.5	-	2.9	25.8	23.4	31.5	11.2	-	11.4	32.3	-	-	23.9	

TABLE NO. 1 (CONTD.)

SI	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-1										ZN 2				
		BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	VARA	JASH	DHOL	BAHR	BAHR
31	NMH-731	16.7	11.2	2.7	8.8	19.2	19.6	40.3	-	-	7.1	74.8	-	-	-	65
32	NMH-920	26.4	40	15.3	21.3	-	11.4	44.9	9.3	-	4.1	121.3	0.9	-	-	55
33	NMH-958	20.2	73.2	-	9.9	14.9	13.3	45.9	18.7	-	14.2	77.6	0.9	-	-	91.3
34	AMAR6669	-	2.6	6.2	1.1	34.9	13.1	30.8	23.9	-	16.9	13.4	-	-	-	58.6
35	OM7878	8.1	46.8	-	2.7	15.5	7	18.5	12.7	-	6.4	47.9	18.7	-	-	43.7
36	JKMH-8033	-	71.8	-	-	60.7	21.3	34.8	12.8	-	15.8	31.7	-	-	-	24.8
37	JKMH-7005	-	16.1	14.7	4.8	11.2	9.7	55.7	12.2	-	15.3	81.5	3.4	17.7	-	51.6
38	PRO-377	15.6	9.4	-	-	13.2	17.2	67.6	23.6	-	20.9	22.4	-	-	-	54.2
39	PRO-378	10.8	18.2	8	9.8	19.9	4.8	44.1	10.5	-	11.1	44.5	28.1	-	-	59.6
40	NK-6246	-	28.5	-	-	43.6	11.2	30.4	-	-	8.9	66.1	-	-	-	57.4
41	NK-6267	18	15.5	-	-	19.2	20.3	51.4	3.9	-	12.7	60.2	15	14.3	-	43.9
42	NK-6607	10.2	52.6	-	-	25.6	13.6	49.1	6	-	14	82.8	-	-	-	21.8
43	NK-6617	13.6	19.2	-	-	21.4	3.9	21.8	5.3	-	7.5	78	16.7	-	-	19.1
44	KMH-3670	-	81.4	-	-	-	9.3	27.6	-	-	-	67.5	-	-	-	49.4
45	KMH-548	13.3	8.6	-	0.5	6.2	13.7	47.9	14.6	-	11.6	66	-	-	-	64.6
46	X7A303	22.8	17.9	-	9.9	45.7	6.7	45.3	32.6	-	17.8	116.9	10.6	3.2	-	84.8
47	X8B562	27.7	30.9	-	2.7	34.4	5.8	66.6	36.3	-	24.7	89.9	19.7	6.2	-	65
48	KH-404	-	-	-	-	3.6	-	29.5	-	-	-	84.1	9.3	-	-	41.5
49	MAIZEPOLO	10.9	11.4	14.6	12.9	-	14.8	28.1	-	-	3.7	72.2	13.3	-	-	52.1
50	C.-1950	1.3	-	-	-	-	-	-	-	-	-	-	-	-	1.3	5.7
51	C.-1945	-	46.7	7.5	6.1	6.5	-	22.1	4.3	-	4.7	59.4	-	7.8	-	25.2
52	KF-105	-	49	-	-	7.7	7.3	31	7.3	-	7.7	79.6	-	-	-	44.7
CHECKS																
53	BIO-9681	3.6	44.6	-	4.2	-	15.9	12.7	6.7	-	-	48.5	-	-	-	52.6
54	SEIDTEC-2324	5.9	3.4	3.8	4.6	19.6	-	34.3	-	-	5.3	91	-	-	-	8.5
55	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
56	HQPM-7	-	6.3	-	-	-	-	3.2	7.3	-	-	32.3	8	-	-	7.4

TABLE NO. 1 (CONTD.)

S1 No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-1										BANG GANG	
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	MAND	COIM	POCB	BANG JKAG	BANG BAYE		
1	KNMH-40901	-	12.1	-	-	5	-	-	-	11.9	-	-	11.8
2	KNMH-40902	-	-	-	-	-	4	-	-	32.1	-	-	-
3	KNMH-40903	-	-	-	27.7	-	-	-	-	6	-	-	-
4	KNMH-40904	-	-	-	65	-	39.9	-	-	23.2	-	-	-
5	CMH08-154	19.5	34.2	32.4	54.2	-	31	-	-	36.7	25.7	23.4	9
6	CMH08-156	13.9	21.2	6.7	23.6	-	20	1.6	-	43.6	20.3	25.3	12.8
7	CMH08-282	26.7	42	23.5	29.6	47.8	24.7	10	-	64.9	42.1	37.7	16.5
8	HKH-406	-	3	1.5	-	-	25.8	-	-	53.8	46.7	-	18.6
9	HKH-407	-	3.3	-	-	-	12.4	-	-	28.7	0.9	-	24.6
10	JH-12108	21.9	43	36.7	9.5	47.9	26.4	5.4	-	15	47.9	17.6	14.5
11	JH-12114	20.2	23	-	17.8	3.1	27.1	-	-	13.4	-	-	14.3
12	IDX-2901	29.8	32.7	-	3	6.4	15.3	-	-	35.3	19.4	-	19.8
13	BMH-107	15.3	14.9	0.1	38.7	5.8	36.6	8.9	-	70	24.3	16.9	21.8
14	BMH-109	35.1	37	-	-	-	12.6	17.5	-	40.6	15.1	-	20.6
15	VMH-2000	-	5.2	2.9	-	15	5.9	-	-	26.5	17.2	0	7.8
16	JCY2-7xHKI163-1	-	6.7	11	3.3	0.2	-	-	-	36.9	15.9	11.9	11.6
17	HKI1126xHKI163-1	21	12.9	0.8	-	-	-	-	-	45.4	17.2	-	17
18	MCH-39	26.4	41.5	22.6	5.9	42.1	66	38.2	-	87.9	34.6	5.5	15.1
19	MCH-40	35.1	32.2	-	3.8	44.2	68.8	21.2	-	102.2	41	25.2	28.7
20	AFSA-91	11.4	6.1	7.2	24.3	-	45.9	6	-	38.1	53.3	16.1	16.9
21	GK-3060	6.8	10	5.4	5.8	-	43.3	23.4	-	43.2	41.1	19	19.8
22	GK-3074	3.9	7.7	10.4	34.6	-	6.8	2.7	-	46.5	7	-	-
23	GK-3076	-	7.5	-	-	-	-	2.7	-	71.9	14.2	-	20.6
24	LAXMIGOLD	16.9	15.3	26.8	9.9	-	62.4	10.3	-	36.7	66.4	22.4	29.5
25	LAXMI405	-	3.1	-	-	-	43.4	10.3	-	42.1	7.6	-	-
26	LAXMI288	-	4.7	1.1	-	-	30.4	-	-	49.6	15.4	1	30.1
27	BISCO-74	29	30.6	22.9	26.6	12.3	8.7	23.2	-	29	64	24.5	6.2
28	BISCO-574	-	1	5	-	0.1	36.4	0.4	-	29.6	-	12.2	0.5
29	PAC-799	7.4	12	8.9	14	-	24.2	4.4	-	63.9	50.3	14.1	26.2
30	BIO-265	25.5	14	12	48.8	53.1	56.8	23.3	-	68.9	22.4	3.8	28.9

TABLE NO. 1 (CONTD.)

S1 No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-1										
		AMBI	ZN 3 MEAN	ARBH	HYDE	KARI	MAND	COIM	POCB	BANG JKAG	BANG BAYE	BANG GANG
31	NMH-731	24.9	26.7	21.7	32	2.5	38.9	-	78.4	46.2	1.4	27.4
32	NMH-920	37.4	38.3	42	10.6	-	33.4	-	65.2	54.9	9.3	11.9
33	NMH-958	19.9	36.3	32.5	27.2	36	56.1	32.3	101.7	62.1	21.9	23.5
34	AMAR6669	14.1	15.6	30.8	20.9	-	29.4	20.8	94.9	50.9	25.8	30.7
35	OM7878	13.4	23.5	12	-	1.2	16.7	14	24.9	32.5	14.9	25.3
36	JKMH-8033	23.3	10.1	-	17.6	19.8	4	4.9	55.2	-	3.3	31.2
37	JKMH-7005	27.9	34.4	-	8.3	34.6	44.1	10.2	52.1	36	10.3	23.3
38	PRO-377	1.6	15.5	6.6	18.3	42.5	39.1	14.4	63.5	62.6	16.9	32
39	PRO-378	9.4	26.7	31.5	25.2	50	50.8	11.2	71.8	65	22.7	24.3
40	NK-6246	31	25.1	1.9	26.4	29	12.7	17.7	62.2	71.6	1.4	26
41	NK-6267	27.6	31	3.1	73.1	48	16.1	13.3	108.9	35.1	33.2	30.4
42	NK-6607	37.4	19.9	4.5	30.8	-	10.2	15.4	54.1	36.6	23.1	29.9
43	NK-6617	23.3	20.4	29.4	52.8	14.5	27.3	-	60	52	22	12.9
44	KMH-3670	20.9	20.8	31.8	20.2	-	40	41.8	96.1	77.5	21.2	28.4
45	KMH-548	11.6	23.8	-	32.8	8	21	30.2	75.4	34.4	7.5	31.3
46	X7A303	39.2	48.4	7.3	6.3	-	28.8	23	92.7	48.8	36.1	32.8
47	X8B562	31.6	40.2	34.7	12.7	34	43.3	32.3	70.5	68.2	50.8	-
48	KH-404	28.8	26.4	-	15.2	6.4	24.1	5.4	66.4	38.2	7.4	17.6
49	MAIZEPOLO	15.2	23.2	8.5	-	-	24.8	14.6	59.8	25.6	14.1	24.4
50	C.-1950	-	-	-	5.2	-	-	-	15.9	-	0.6	0.1
51	C.-1945	13.2	15.6	-	26	-	2.5	15.5	60.5	18.7	15.5	30.1
52	KF-105	25.4	23.3	-	25.4	-	6.5	15.5	73.3	7.4	-	19.5
	CHECKS											
53	BIO-9681	7.9	15.5	-	12.1	-	9.7	-	18.5	-	-	15.8
54	SEEDTEC-2324	27.5	15.6	4	-	1.6	34.6	-	67.4	50.4	17.2	25.5
55	HQPM-1	-	-	-	-	-	-	-	-	-	-	-
56	HQPM-7	5	7.4	0.2	17.6	11.4	24.4	0.9	33.7	17.4	11.7	1.6

TABLE NO. 1 (CONTD.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HOPM-1									
		HYDE BIOS	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 5 GODH		
1	KMMH-40901	-	-	-	32.9	-	-	-	-	5.2	
2	KMMH-40902	-	-	-	1	-	-	-	-	-	
3	KMMH-40903	-	-	-	7.8	-	-	-	-	-	
4	KMMH-40904	-	-	-	-	-	-	-	-	-	
5	CMH08-154	8.8	18.1	-	33	-	4.2	16.5	-	-	
6	CMH08-156	-	13.4	14.5	-	8.3	0.4	11	-	-	
7	CMH08-282	-	26.7	-	4.3	-	-	22.8	-	-	
8	HKH-406	-	8.9	-	20	-	-	1.5	-	-	
9	HKH-407	-	-	-	26	-	-	-	-	-	
10	JH-12108	-	18.7	4.3	35.2	29.4	22.9	19.4	10.5	-	
11	JH-12114	-	0.9	9.9	-	-	-	2.7	8.5	-	
12	IDX-2901	-	3.8	-	10.9	6.1	-	7	-	-	
13	BMH-107	-	19.5	5.8	58.8	-	19.2	15.4	-	-	
14	BMH-109	-	6.8	-	25.5	-	-	9.3	-	-	
15	VMH-2000	-	3.7	-	-	4	-	-	10.9	-	
16	JCY2-7xHKI163-1	-	4.2	12.2	6.3	-	5.7	4.2	16	-	
17	HKI1126xHKI163-1	-	2.2	-	-	5.5	-	-	-	-	
18	MCH-39	-	29.6	-	51.5	42.2	24.4	25.5	-	-	
19	MCH-40	1.8	33.4	-	10.6	30.4	5.7	25.1	-	-	
20	APSA-91	-	17.8	-	1.3	9.6	-	9.7	-	-	
21	GK-3060	4	21.4	-	-	-	-	11.9	-	-	
22	GK-3074	-	1.6	12.3	28.5	-	1.5	-	-	-	
23	GK-3076	-	5.2	-	8.6	-	-	5.3	-	-	
24	LAXMIGOLD	-	25.2	-	24.2	-	-	13.7	21.2	-	
25	LAXMI405	-	2	-	7.7	-	-	0.9	-	-	
26	LAXMI288	-	9.8	-	-	-	-	1.1	-	-	
27	BISCO-74	-	21.2	-	24	14	7.2	16.4	-	-	
28	BISCO-574	-	6.5	-	6.1	-	-	0.9	15	-	
29	PAC-799	-	17.5	-	61	-	14.2	10.6	-	-	
30	BIO-265	18.4	31	-	31.6	24.9	10.7	19.3	-	-	

TABLE NO. 1 (CONTD.)

S1 No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-1									
		HYDE BIOS	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 5 GODH		
31	NMH-731	5.6	23.9	7.1	6	1.2	4.7	17.3	-	-	
32	NMH-920	-	19.3	0.6	36.9	36.6	24.8	19.4	5.8	-	
33	NMH-958	-	38.2	-	37.3	1.3	8.2	26.9	10.3	-	
34	AMAR6669	-	28	13.2	-	-	3.7	18.6	-	-	
35	OM7878	-	13.7	-	8	-	-	10.1	-	-	
36	JNMH-8033	-	3.4	19.3	21.6	-	8.2	6	-	-	
37	JNMH-7005	-	19.6	-	-	-	-	16.7	-	-	
38	PRO-377	0.4	29.4	-	3.9	6.6	3.1	19.8	31.6	-	
39	PRO-378	-	31.8	12.6	31.9	4.7	15.8	22.6	-	-	
40	NK-6246	-	23.8	-	10.7	62.1	13.6	16.1	-	-	
41	NK-6267	-	31.1	2.4	26.1	61.4	30.9	23.2	22.5	-	
42	NK-6607	-	17.8	13.6	64.2	0.7	24.8	15.4	-	-	
43	NK-6617	-	22.4	-	-	0.3	-	13.8	-	-	
44	KMH-3670	-	34.5	-	11.2	-	2.4	16.1	-	-	
45	KMH-548	-	23.7	-	38.2	9.7	6.6	16.9	8.8	-	
46	X7A303	-	28.6	-	-	-	-	23	-	-	
47	X8B562	-	32.5	-	-	5.3	-	25.1	8.4	-	
48	KH-404	-	15.5	1.3	59	-	17.7	10.2	10.8	-	
49	MAIZEPOLO	-	15.5	7.7	55.6	-	18.8	14	-	-	
50	C.-1950	-	-	-	-	-	-	-	-	-	
51	C.-1945	-	9.9	-	69.2	-	17.1	9.7	10.9	-	
52	KF-105	-	7.5	-	72.1	-	15.2	8.6	-	-	
	CHECKS	-	-	-	-	-	-	-	-	-	
53	BIO-9681	-	-	-	1.6	-	-	-	-	-	
54	SEEDTEC-2324	-	18.7	-	41.7	-	-	12.1	-	-	
55	HQPM-1	-	-	-	-	-	-	-	-	-	
56	HQPM-7	-	10.2	5.3	39	-	11.9	5.7	-	-	

TABLE NO. 1 (CONTD.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HOPM-7										ZN 1		ZN 2		VARA
		BAJA	BARA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	
1	KNMH-40901	-	-	-	-	12.1	11	6.9	-	5.8	4	33.7	10	-	20.4	
2	KNMH-40902	-	3	-	-	-	27.1	-	-	11.3	-	22.6	-	-	-	
3	KNMH-40903	-	40.9	-	-	14.3	20.7	-	-	4.4	-	15.8	-	-	-	
4	KNMH-40904	-	5.5	-	-	22.1	28.7	-	-	3.3	6.5	21.8	-	-	2.9	
5	CMH08-154	-	74	3.8	5.9	68.6	7.5	38.1	-	3.2	16.3	60.3	-	33.9	28	
6	CMH08-156	-	15.5	15.5	4.7	17.9	29.9	18.5	2.4	0.9	11.4	40.8	-	7.7	14.1	
7	CMH08-282	14.6	6.6	15.9	14.7	79.5	20.4	51.9	14.1	-	23.3	42.1	7	32.2	53.1	
8	HKH-406	-	43.5	7.7	4.3	-	22.9	7.9	-	6.7	-	11.3	-	-	21.8	
9	HKH-407	-	65.3	-	-	-	14.5	-	-	-	-	-	-	-	19	
10	JH-12108	13.3	59.2	-	2.2	13.1	2.6	60.4	14	1.8	17.5	59	-	17.4	69.3	
11	JH-12114	-	75.2	-	1.1	21.6	16.6	25.3	-	-	4.8	36.5	-	-	39.3	
12	IDX-2901	6.1	-	24.1	14.6	4.9	4.6	20.9	-	-	0.7	50.9	-	3.8	42.3	
13	BMH-107	1.5	-	37.8	19.8	39.8	12.6	21	-	-	8	-	-	-	32.9	
14	BMH-109	2	22.1	28.2	16.9	-	16.2	17.2	-	6.3	4.5	72.9	-	-	50.1	
15	VMH-2000	-	25.4	15	6.3	-	31.8	3.4	-	-	5.2	2.9	3	-	15.8	
16	JCY2-7XHKI163-1	-	25.5	10	6.3	29.3	12.8	14.3	-	-	-	1.6	-	-	14.5	
17	HKI1126XHKI163-1	-	-	8.1	-	-	18.1	-	-	1	-	26.2	6.2	-	-	
18	MCH-39	11.4	16.8	1.3	6.6	25.2	26.4	55.7	13.9	0.2	21.6	25.9	26.3	11.8	62.6	
19	MCH-40	41.8	19.7	0.3	18.9	15.2	21.9	48	12.3	6.2	19.3	28.9	-	7.7	44.6	
20	APSA-91	-	12.6	19.6	9	-	28.5	27.2	-	6.9	5	14.7	-	-	9.3	
21	GK-3060	8	19.2	15	12.4	6.7	19.7	19.8	0.2	-	6.7	10.8	-	-	32.8	
22	GK-3074	-	22.3	-	-	23.2	-	-	-	0.3	-	-	-	-	50.3	
23	GK-3076	-	56.5	9.8	6.7	25	23.3	28.8	1.5	-	11.8	-	-	-	34.8	
24	LAXMIGOLD	-	9.1	2.2	-	-	14.7	3	13	1.8	11.8	-	-	-	28.1	
25	LAXMI405	1.3	46.7	20.7	14.5	-	21.5	0.4	-	1.1	-	-	6	-	14.1	
26	LAXMI288	-	-	0.3	-	-	14.9	-	-	-	-	-	-	-	18.7	
27	BISCO-74	15.6	21.1	-	2.9	22.3	23.8	25.8	-	9.3	12.3	25.4	-	-	63	
28	BISCO-574	13.8	-	8.3	9.8	-	15.5	-	-	4.7	-	-	-	-	20.9	
29	PAC-799	-	-	13.6	3	-	24.3	31.6	-	-	2.6	-	-	4.1	42.6	
30	BIO-265	6.5	8.7	9	7.9	26.7	30.1	27.4	3.6	-	13	0.1	-	-	15.4	

TABLE NO. 1 (CONTD.)

S1 No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-7													
	BAJA	BARA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	JASH	VARA
31 NMH-731	17.8	4.6	12.4	14.1	20.1	26.1	36	-	-	8.7	32.1	-	-	53.7
32 NMH-920	27.6	31.8	26.2	27.2	-	17.4	40.4	1.8	-	5.6	67.3	-	4.8	44.3
33 NMH-958	21.3	63	3.8	15.3	15.8	19.4	41.4	10.6	0.6	15.9	34.3	-	-	78.2
34 AMAR6669	-	-	16.3	6	35.9	19.2	26.7	15.5	7.9	18.6	-	-	-	47.6
35 OM7878	9.1	38.1	2.4	7.7	16.4	12.8	14.8	5	-	7.9	11.8	9.9	4.3	33.8
36 JKMH-8033	-	61.7	1.5	-	61.9	27.9	30.6	5.1	-	17.4	-	-	-	16.2
37 JKMH-7005	-	9.3	25.6	9.9	12.1	15.6	50.8	4.5	9.7	17	37.2	-	23.5	41.2
38 PRO-377	16.7	3	-	4.2	14.1	23.5	62.4	15.1	5.1	22.6	-	-	3.5	43.6
39 PRO-378	11.8	11.3	18.3	15.1	20.9	10.5	39.6	2.9	2.1	12.7	9.2	18.6	-	48.6
40 NK-6246	-	20.9	-	-	44.7	17.2	26.4	-	3.1	10.4	25.6	-	-	46.5
41 NK-6267	19.1	8.7	-	2.9	20.1	26.8	46.7	-	-	14.3	21.1	6.4	19.9	34
42 NK-6607	11.3	43.6	-	1.3	26.6	19.7	44.4	-	6.4	15.7	38.2	-	-	13.4
43 NK-6617	14.7	12.1	-	4.8	22.3	9.6	18	-	9	9.1	34.6	8	-	10.9
44 KMH-3670	-	70.7	-	-	-	15.2	23.7	-	-	-	26.6	-	-	39.1
45 KMH-548	14.4	2.2	-	5.4	7	19.8	43.3	6.8	-	13.2	25.5	-	-	53.3
46 X7A303	24	11	8.7	15.2	46.8	12.5	40.8	23.6	-	19.5	64	2.3	8.3	72
47 X8B562	28.9	23.2	-	7.7	35.4	11.5	61.4	27	6.3	26.5	43.5	10.8	11.5	53.7
48 KH-404	-	-	-	-	4.4	-	25.5	-	-	39.2	39.2	1.2	-	31.8
49 MAIZEPOLO	11.9	4.8	25.5	18.4	-	21.1	24.1	-	1	5.2	30.2	4.9	-	41.6
50 C.-1950	2.2	-	4.8	2.7	-	3	-	-	-	-	-	-	6.3	-
51 C.-1945	-	38.1	17.7	11.2	7.3	4.2	18.3	-	8.8	6.2	20.5	-	13.1	16.6
52 KF-105	-	40.2	0.6	-	8.5	13.1	26.9	0	4.8	9.3	35.8	-	-	34.7
CHECKS														
53 BIO-9681	4.5	36.1	9.3	9.3	-	22.1	9.2	-	-	1.2	12.2	-	-	42.1
54 SEEDTEC-2324	6.9	-	13.6	9.7	20.5	4.5	30.1	-	12.1	6.8	44.4	-	-	1
55 HQPM-1	0.9	-	9.5	4.9	0.8	5.4	-	-	12.2	1.5	-	-	5	-
56 HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE NO. 1 (CONTD.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HPM-7												
		AMBI	ZN 3 MEAN	ARSH	HYDE	KARI	MAND	COIM	BANG POCB	BANG JKAG	BANG BAYE	BANG GANG		
1	KMH-40901	-	4.3	-	-	-	-	-	-	-	-	-	-	10.1
2	KMH-40902	-	-	-	-	-	-	-	-	-	-	-	-	-
3	KMH-40903	-	-	-	8.6	-	-	-	-	-	-	-	-	-
4	KMH-40904	-	-	-	40.3	-	12.5	-	-	-	-	-	-	-
5	CMH08-154	13.9	24.9	32.1	31.2	-	5.3	-	2.3	7.1	10.4	7.3	-	7.3
6	CMH08-156	8.5	12.8	6.5	5.2	-	-	0.6	7.4	2.5	12.1	11.1	-	11.1
7	CMH08-282	20.7	32.2	23.3	10.2	32.7	0.3	9	23.4	21	23.2	14.7	-	14.7
8	HKH-406	-	-	1.3	-	-	1.1	-	15	24.9	-	16.8	-	16.8
9	HKH-407	-	-	-	-	-	-	-	-	-	-	22.6	-	22.6
10	JH-12108	16.1	33.1	36.4	-	32.8	1.6	4.4	-	26	5.3	12.7	-	12.7
11	JH-12114	14.5	14.5	-	0.2	-	2.2	-	-	-	-	12.6	-	12.6
12	IDX-2901	23.7	23.5	-	-	-	-	-	1.2	1.7	-	17.9	-	17.9
13	BMR-107	9.8	6.9	-	18	-	9.8	7.9	27.2	5.9	4.6	19.9	-	19.9
14	BMR-109	28.7	27.6	-	-	-	-	16.4	5.2	-	-	18.8	-	18.8
15	VMB-2000	-	-	2.7	-	3.3	-	-	-	-	-	6.1	-	6.1
16	JCY2-7xHKI163-1	-	-	10.8	-	-	-	-	2.4	-	0.1	9.9	-	9.9
17	HKI1126xHKI163-1	15.3	5	0.6	-	-	-	-	8.8	-	-	15.1	-	15.1
18	MCH-39	20.4	31.7	22.3	-	27.6	33.5	37	40.6	14.7	-	13.3	-	13.3
19	MCH-40	28.7	23.1	-	-	29.5	35.7	20.1	51.3	20.1	12	26.7	-	26.7
20	APSA-91	6.1	-	6.9	5.7	-	17.3	5.1	3.3	30.6	3.9	15	-	15
21	GK-3060	1.8	2.4	5.2	-	-	15.2	22.3	7.1	20.2	6.5	17.9	-	17.9
22	GK-3074	-	0.2	10.2	14.5	-	-	1.8	9.6	-	-	-	-	-
23	GK-3076	-	0.1	-	-	-	-	1.8	28.6	-	-	-	-	-
24	LAXMIGOLD	11.3	7.3	26.5	-	-	30.6	9.3	2.3	41.8	9.5	27.4	-	27.4
25	LAXMI405	-	-	-	-	-	15.3	9.3	6.3	-	-	-	-	-
26	LAXMI288	-	-	0.9	-	-	4.8	-	11.9	-	-	28.1	-	28.1
27	BISCO-74	22.9	21.5	22.7	7.7	0.8	-	22.1	-	39.8	11.4	4.6	-	4.6
28	BISCO-574	-	-	4.7	-	-	9.7	-	-	-	0.4	-	-	-
29	PAC-799	2.3	4.2	8.7	-	-	-	3.5	22.6	28.1	2.1	24.2	-	24.2
30	BIO-265	19.6	6.1	11.8	26.5	37.4	26	22.2	26.4	4.3	-	26.9	-	26.9

TABLE NO. 1 (CONTD.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-7									
		HYDE BIOS	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 5 GODH		
1	KNMH-40901	7.2	-	-	-	-	-	-	-	19.8	
2	KNMH-40902	-	-	-	-	-	-	-	-	-	
3	KNMH-40903	-	-	-	-	-	-	-	-	4	
4	KNMH-40904	-	-	-	-	-	-	-	-	-	
5	CMH08-154	17.6	7.1	-	-	0.9	-	10.2	-	-	
6	CMH08-156	-	2.9	8.7	-	14.8	-	5.1	8	-	
7	CMH08-282	-	14.9	-	-	3.9	-	16.2	-	-	
8	HKH-406	-	-	-	-	-	-	-	-	10.4	
9	HKH-407	-	-	-	-	-	-	-	-	2.6	
10	JH-12108	-	7.7	-	-	37.2	9.9	13	25.8	-	
11	JH-12114	0.4	-	4.4	-	-	-	-	-	23.5	
12	IDX-2901	-	-	-	-	12.5	-	1.3	-	-	
13	BMH-107	-	8.4	0.5	14.2	2.7	6.5	9.1	4.5	-	
14	BMH-109	6.4	-	-	-	-	-	3.4	7.7	-	
15	VMH-2000	-	-	-	-	10.3	-	-	26.3	-	
16	JCY2-7xHKI163-1	-	-	6.5	-	5.1	-	-	32.2	-	
17	HKI1126xHKI163-1	-	-	-	-	11.9	-	-	-	-	
18	MCH-39	-	17.6	-	9	50.7	11.1	18.7	-	-	
19	MCH-40	10.1	21	-	-	38.3	-	18.4	7.1	-	
20	APSA-91	-	6.8	-	-	16.2	-	3.8	0.8	-	
21	GK-3060	12.5	10.1	-	-	-	-	5.9	-	-	
22	GK-3074	-	-	6.7	-	-	-	-	-	-	
23	GK-3076	-	-	-	-	3.7	-	-	3.4	-	
24	LAXMIGOLD	-	13.5	-	-	-	-	7.5	38.1	-	
25	LAXMI405	-	-	-	-	-	-	-	-	-	
26	LAXMI288	-	-	-	-	4.6	-	-	0.5	-	
27	BISCO-74	-	9.9	-	-	20.8	-	10.1	0.8	-	
28	BISCO-574	1.3	-	-	-	-	-	-	31	-	
29	PAC-799	-	6.6	-	15.8	-	2	4.7	-	-	
30	BIO-265	28	18.9	-	-	32.5	-	12.9	4.8	-	

TABLE NO. 1 (CONTD.)

SI	No PEDIGREE	DAYS TO 50% POLLEN SHED										Zone			
		BAJA	BAPA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA
1	KNMH-40901	63.3	65.0	48.7	59.0	54.0	53.7	53.7	51.7	65.0	55.6	52.7	53.7	51.0	45.7
2	KNMH-40902	62.3	63.3	49.7	58.4	54.7	51.3	52.0	52.0	61.0	54.2	51.7	52.7	49.0	47.7
3	KNMH-40903	65.7	64.0	51.7	60.4	54.0	54.3	54.7	51.3	64.0	55.7	52.3	56.0	52.7	44.7
4	KNMH-40904	67.7	63.7	52.7	61.3	53.3	53.7	54.7	51.7	63.0	55.3	52.3	56.7	52.7	49.0
5	CMH08-154	62.3	62.7	50.7	58.6	53.7	49.3	51.0	49.0	58.0	52.2	51.0	50.0	49.7	46.7
6	CMH08-156	61.7	63.0	50.0	58.2	52.7	50.3	52.3	49.0	62.0	53.3	51.7	52.0	49.7	44.7
7	CMH08-282	60.7	62.7	50.0	57.8	55.0	53.0	54.0	51.3	60.0	54.7	51.7	52.7	54.0	50.0
8	HKH-406	64.3	63.0	51.3	59.6	55.0	53.7	53.3	50.3	61.3	54.7	52.7	54.3	51.3	48.7
9	HKH-407	62.3	63.0	51.0	58.8	54.7	49.0	52.0	51.7	64.0	54.3	54.3	52.0	50.7	47.0
10	JH-12108	63.0	62.0	50.7	58.6	56.7	55.7	55.3	51.3	64.0	56.6	53.7	54.0	50.3	50.7
11	JH-12114	60.3	62.3	49.0	57.2	55.0	53.7	53.7	50.7	64.0	55.4	53.3	53.7	49.0	47.0
12	IDX-2901	61.3	62.0	51.0	58.1	55.7	51.3	53.0	51.7	58.0	53.9	52.3	53.0	51.7	50.3
13	BMH-107	60.7	62.7	48.7	57.3	53.0	54.0	50.7	51.0	63.0	54.3	52.7	54.7	50.3	50.7
14	BMH-109	64.3	64.0	50.7	59.7	55.0	52.0	53.7	52.3	57.0	54.0	53.7	59.0	52.3	48.7
15	VMH-2000	68.7	64.7	51.7	61.7	58.3	54.3	54.0	52.0	59.0	55.5	54.3	54.0	52.0	51.0
16	JCY2-7XHKI163-1	60.0	62.7	50.0	57.6	55.5	54.3	51.0	52.3	60.0	54.6	52.7	52.7	51.0	51.0
17	HKI1126XHKI163-1	62.7	64.3	50.3	59.1	58.3	53.0	55.3	53.3	61.0	56.2	53.3	52.3	52.0	51.7
18	MCH-39	59.7	63.3	50.7	57.9	55.7	51.7	54.7	54.7	58.0	54.9	55.0	56.7	54.7	52.7
19	MCH-40	63.3	62.0	51.7	59.0	55.0	51.7	52.3	53.3	59.0	54.3	54.7	55.0	53.0	51.3
20	APSA-91	67.0	62.3	52.0	60.4	57.3	50.7	54.0	52.7	60.0	54.9	54.3	55.0	53.7	51.7
21	GK-3060	65.7	63.0	51.7	60.1	57.0	54.3	54.3	54.7	63.7	56.8	54.3	55.3	54.7	50.7
22	GK-3074	58.3	65.0	48.7	57.3	51.3	51.3	50.3	50.0	62.0	53.0	52.0	51.3	49.7	44.7
23	GK-3076	59.3	62.0	49.7	57.0	52.3	55.0	52.0	52.3	62.0	54.7	52.0	54.3	50.7	49.7
24	LAXMIGOLD	66.3	62.0	51.3	59.9	57.3	53.7	54.0	55.3	64.0	56.9	53.3	55.0	53.3	52.7
25	LAXMI405	67.0	62.3	51.3	60.2	57.3	49.3	54.7	55.0	62.0	55.7	54.7	54.3	52.3	52.7
26	LAXMI288	62.7	63.3	51.7	59.2	55.0	54.3	54.0	51.3	64.0	55.7	52.3	53.0	52.7	49.3
27	BISCO-74	67.3	63.7	51.0	60.7	57.3	55.0	54.3	53.0	61.0	56.1	54.3	55.3	53.7	50.0
28	BISCO-574	60.0	63.0	50.0	57.7	53.0	55.3	50.7	52.3	62.0	54.7	52.0	52.7	50.3	48.3
29	PAC-799	66.0	65.0	50.7	60.6	54.3	53.3	54.0	54.0	63.0	55.7	52.7	55.3	52.7	49.0
30	BIO-265	69.0	59.3	52.0	60.1	57.3	56.0	57.0	55.3	61.3	57.0	55.3	55.7	53.0	52.3
31	NMH-731	66.0	64.3	51.3	60.6	55.0	53.7	53.7	53.7	61.0	55.4	53.7	54.0	53.3	50.0
32	NMH-920	65.3	62.7	51.0	59.7	54.3	51.3	52.7	54.0	58.0	54.1	51.7	53.0	53.0	50.3

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone Mean			
		BAJA	BARA	KANG	DELH	KARN	LUDH	PANT	KAMP	Zone Mean	BAHR		DHOL	JASH	VARA
33	NMH-958	66.0	64.7	52.3	61.0	55.0	54.7	54.7	53.0	62.0	55.9	54.0	53.0	52.0	49.3
34	AMAR6669	64.3	65.3	51.7	60.4	52.7	54.3	53.7	52.0	60.0	54.5	51.7	56.3	52.0	48.7
35	OM7878	62.0	64.0	51.0	59.0	54.7	54.7	52.0	51.7	54.0	53.4	52.3	55.3	51.7	51.3
36	JKMH-8033	62.0	64.0	49.7	58.6	52.7	53.0	52.3	51.0	56.0	53.0	51.7	55.3	51.3	52.3
37	JKMH-7005	61.3	65.0	51.0	59.1	57.3	53.3	56.3	53.7	64.0	56.9	53.3	55.3	53.3	51.3
38	PRO-377	62.3	63.7	50.7	58.9	54.7	55.7	53.7	51.3	64.0	55.9	52.3	55.7	51.0	49.3
39	PRO-378	62.3	61.0	50.0	57.8	55.7	55.7	53.7	51.3	62.0	55.7	50.7	54.0	50.3	48.0
40	NK-6246	64.7	63.7	50.7	59.7	55.0	55.3	56.0	53.0	62.7	56.4	52.7	54.7	53.7	48.7
41	NK-6267	70.3	63.0	52.0	61.8	58.0	54.3	55.3	55.3	63.0	57.2	55.7	56.7	55.7	54.0
42	NK-6607	62.0	64.0	48.7	58.2	52.7	52.7	51.0	52.3	61.0	53.9	51.7	53.0	51.0	48.0
43	NK-6617	60.7	62.3	48.7	57.2	53.7	55.7	51.3	52.0	63.0	55.1	51.7	54.0	52.3	44.7
44	KMH-3670	44.3	61.7	52.0	52.7	55.7	55.0	54.7	52.3	57.0	54.9	54.7	55.7	51.0	50.3
45	KMH-548	65.3	64.3	51.7	60.4	56.3	55.3	54.0	53.3	60.0	55.8	54.3	55.7	53.0	52.3
46	X7A303	62.3	61.0	50.3	57.9	55.3	54.3	54.0	51.7	64.0	55.9	53.0	53.3	52.3	50.3
47	X8B562	61.7	63.7	51.3	58.9	55.3	54.7	54.0	52.3	60.0	55.3	53.3	55.3	51.0	48.0
48	KH-404	59.3	63.3	50.7	57.8	54.7	53.7	53.0	52.3	58.7	54.5	53.3	55.0	51.3	50.3
49	MAIZEPOLO	63.7	65.0	52.0	60.2	57.0	54.7	53.7	54.7	58.3	55.7	54.7	54.0	54.0	50.3
50	C.-1950	65.3	62.7	52.7	60.2	58.7	55.7	55.3	55.3	62.0	57.4	54.7	56.3	55.3	50.7
51	C.-1945	65.7	62.0	51.0	59.6	57.0	50.3	55.0	53.7	61.0	55.4	52.7	56.7	51.7	50.7
52	KF-105	67.0	63.3	50.0	60.1	54.3	51.7	53.0	53.0	63.0	55.0	52.7	55.7	52.7	50.7
CHECKS															
53	BIO-9681	61.0	62.3	48.0	57.1	54.3	52.3	50.7	51.0	65.0	54.7	52.0	52.0	49.3	48.3
54	SEEDTEC-2324	65.0	64.0	50.3	59.8	57.3	52.7	53.7	53.3	62.0	55.8	54.3	54.0	54.3	50.3
55	HQPM-1	42.3	64.7	50.7	52.6	55.7	53.3	52.3	52.7	64.0	55.6	52.0	54.3	52.7	48.7
56	HQPM-7	60.0	64.3	50.0	58.1	52.3	54.7	52.7	50.7	55.0	53.1	53.0	51.7	51.0	47.0
	Loc. Mean	62.80	63.20	50.70	58.90	55.20	53.40	53.40	52.40	61.20	55.10	53.00	54.30	52.00	49.50
	C.D. (5%)	9.90	2.70	1.10	4.50	2.00	3.30	1.60	2.30	0.90	2.10	1.10	3.00	1.60	1.50
	C.D. (1%)	13.10	3.50	1.50	5.90	2.60	4.40	2.20	3.00	1.10	2.70	1.50	3.90	2.10	2.00
	C.V. (%)	9.78	2.60	1.34	4.70	2.22	3.86	1.89	2.68	0.88	3.00	1.32	3.36	1.84	1.88
	F (Prob.)	0.01	0.02	0.00	0.22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone Mean
		AMBI	ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	Zone Mean	
1	KNMH-40901	47.3	51.7	56.7	49.7	53.7	50.3	57.0	56.3	48.7	53.0	
2	KNMH-40902	48.0	53.0	56.3	49.7	53.7	53.0	57.0	57.0	48.3	53.5	
3	KNMH-40903	49.3	51.7	59.7	50.3	54.0	52.7	58.3	57.3	49.0	54.1	
4	KNMH-40904	51.3	52.0	56.7	49.3	54.3	55.0	58.0	58.3	50.0	54.2	
5	CMH08-154	51.3	52.0	56.0	51.0	57.3	52.0	57.7	57.0	49.3	54.0	
6	CMH08-156	50.0	52.0	56.0	50.7	54.0	52.0	58.0	56.0	50.0	53.6	
7	CMH08-282	52.7	53.7	57.0	50.7	54.7	54.3	57.0	55.0	49.3	54.0	
8	HKH-406	51.0	52.7	57.0	50.0	56.0	55.7	59.3	58.3	51.3	55.0	
9	HKH-407	50.0	52.7	55.7	49.7	55.0	57.7	58.7	57.3	53.0	55.0	
10	JH-12108	50.7	51.3	56.7	50.7	55.7	52.3	57.7	56.7	50.3	53.9	
11	JH-12114	47.0	52.0	55.7	50.7	53.0	51.7	57.0	54.0	49.3	52.9	
12	IDX-2901	50.3	52.0	56.3	51.3	55.7	55.7	59.0	58.3	50.0	54.8	
13	BMH-107	49.7	52.0	57.7	50.0	52.3	50.0	57.0	56.3	49.3	53.1	
14	BMH-109	51.0	52.3	57.7	52.3	55.0	54.0	59.3	58.0	49.7	54.8	
15	VMH-2000	50.0	51.7	56.7	51.0	55.3	55.0	59.7	59.0	49.7	54.8	
16	JCY2-7xHKI163-1	49.7	52.3	56.0	50.3	54.3	53.0	57.3	55.7	48.7	53.5	
17	HKI1126xHKI163-1	50.7	52.3	56.0	53.0	55.7	56.3	60.0	58.7	51.3	55.4	
18	MCH-39	53.0	52.0	58.3	52.3	57.3	56.7	60.3	60.0	51.3	56.0	
19	MCB-40	51.0	53.0	58.7	51.7	56.0	55.3	60.0	58.7	52.3	55.7	
20	APSA-91	52.0	51.3	57.3	53.7	56.0	54.7	60.0	60.0	51.0	55.5	
21	GK-3060	51.7	53.3	57.7	53.7	55.3	55.0	59.7	58.7	53.3	55.7	
22	GK-3074	50.3	50.7	54.3	49.3	53.0	50.7	56.3	54.0	48.0	52.0	
23	GK-3076	50.7	51.3	55.3	49.0	53.0	50.7	57.0	56.0	48.3	52.6	
24	LAXMIGOLD	54.3	53.3	57.3	53.7	56.7	56.7	60.3	58.3	51.3	56.0	
25	LAXMI405	52.0	53.2	57.0	53.7	56.7	54.3	59.3	57.7	50.7	55.2	
26	LAXMI288	50.3	51.5	58.3	50.7	54.3	54.3	59.3	58.0	50.7	54.9	
27	BISCO-74	50.0	51.0	56.3	53.3	57.0	53.0	60.3	59.0	52.7	55.3	
28	BISCO-574	51.3	50.9	55.7	50.0	54.0	50.3	58.7	56.3	49.0	53.3	
29	PAC-799	51.0	52.1	58.7	53.0	56.7	57.7	60.3	58.0	51.3	56.0	
30	BIO-265	51.7	53.6	57.7	54.0	57.3	57.3	61.0	60.3	53.7	56.7	
31	NMH-731	52.0	52.6	57.0	52.0	54.0	57.3	58.3	58.7	50.3	55.1	
32	NMH-920	50.7	51.7	56.3	51.0	56.3	57.7	60.3	59.3	50.7	55.4	

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone Mean	Zone Mean		
		AMBI	ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	Zone Mean				
33	NMH-958	51.0	51.9	52.7	59.3	52.0	55.0	53.3	58.3	58.3	58.3	58.3	58.3	51.0	55.0
34	AMAR6669	51.3	52.0	52.7	56.3	51.3	56.0	55.7	58.3	58.3	58.3	58.3	58.3	50.7	54.8
35	OM7878	52.0	52.5	52.3	58.3	51.3	54.7	57.3	58.7	58.7	58.7	58.7	58.7	50.7	55.1
36	JKMH-8033	48.3	51.8	52.7	56.0	49.7	54.0	53.3	57.7	57.7	57.7	57.7	57.7	49.3	53.7
37	JKMH-7005	52.7	53.2	51.7	56.7	52.3	55.3	52.3	59.3	59.3	59.3	59.3	59.3	51.3	54.5
38	PRO-377	50.3	51.7	51.3	56.3	50.7	54.0	55.0	57.7	57.7	57.7	57.7	57.7	49.3	53.7
39	PRO-378	48.3	50.3	53.3	55.3	51.3	53.0	53.7	57.0	57.0	57.0	57.0	57.0	49.0	53.5
40	NK-6246	51.0	52.1	52.0	60.3	51.7	57.0	53.0	60.3	60.3	60.3	60.3	60.3	50.7	55.4
41	NK-6267	53.0	55.0	50.7	58.3	54.3	59.0	57.3	61.0	61.0	61.0	61.0	61.0	53.7	57.0
42	NK-6607	47.3	50.2	52.3	55.3	50.0	55.3	52.7	58.3	58.3	58.3	58.3	58.3	50.3	53.9
43	NK-6617	48.0	50.1	53.0	55.7	50.0	54.0	52.0	57.3	57.3	57.3	57.3	57.3	49.3	53.5
44	KMH-3670	49.0	52.1	50.7	58.7	51.3	55.7	57.7	59.0	59.0	59.0	59.0	59.0	49.7	55.2
45	KMH-548	50.7	53.2	51.3	55.7	54.7	56.0	54.3	60.0	60.0	60.0	60.0	60.0	52.3	55.5
46	X7A303	51.0	52.0	52.7	57.3	52.3	55.3	54.0	59.7	59.7	59.7	59.7	59.7	51.3	55.0
47	X8B562	53.0	52.1	51.7	56.3	52.3	55.7	53.3	57.7	57.7	57.7	57.7	57.7	53.3	55.0
48	KH-404	51.0	52.2	52.0	57.3	51.7	54.7	53.7	59.7	59.7	59.7	59.7	59.7	50.3	54.4
49	MAIZEPOLO	52.7	53.1	52.7	57.7	52.7	55.0	52.0	59.0	59.0	59.0	59.0	59.0	50.7	54.6
50	C.-1950	52.0	53.8	53.7	57.3	55.7	57.3	57.7	61.0	61.0	61.0	61.0	61.0	54.0	57.2
51	C.-1945	53.0	52.9	52.0	56.0	51.7	56.0	57.3	59.0	59.0	59.0	59.0	59.0	51.3	55.4
52	KF-105	48.0	51.9	51.7	56.3	52.7	56.7	54.7	59.0	59.0	59.0	59.0	59.0	50.3	55.0
CHECKS															
53	BIO-9681	47.7	49.9	52.0	55.7	49.3	53.0	52.7	57.0	57.0	57.0	57.0	57.0	48.0	52.8
54	SEEDTEC-2324	50.0	52.6	53.0	55.7	52.3	54.3	53.0	58.7	58.7	58.7	58.7	58.7	50.3	54.6
55	HQPM-1	50.3	51.6	52.3	56.7	51.3	56.0	55.7	58.7	58.7	58.7	58.7	58.7	50.7	55.1
56	HQPM-7	51.7	50.9	52.3	58.0	50.7	55.7	57.3	59.3	59.3	59.3	59.3	59.3	50.0	55.1
Loc. Mean															
C.D. (5%)															
C.D. (1%)															
C.V. (%)															
F (Prob.)															
		50.60	51.90	52.20	56.90	51.50	55.20	54.30	58.80	58.80	58.80	58.80	58.80	50.50	54.60
		1.00	1.60	2.30	1.30	1.60	1.80	1.00	1.00	1.00	1.00	1.00	1.00	1.10	1.10
		1.30	2.10	3.10	1.70	2.10	2.40	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40
		1.23	2.40	2.74	1.37	1.91	2.02	1.09	1.03	1.03	1.03	1.03	1.03	1.32	1.96
		0.00	0.00	0.89	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 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED						OV'L	
		UDAI	BANS	CHHI	Zone		Mean	GODH	
					Mean	Mean			
1	KNMH-40901	50.7	48.3	54.3	51.1	53.4	55.3		
2	KNMH-40902	50.0	50.3	53.7	51.3	53.2	53.7		
3	KNMH-40903	50.0	48.7	54.3	51.0	54.2	51.0		
4	KNMH-40904	52.0	48.3	56.3	52.2	54.7	51.7		
5	CMH08-154	50.3	48.7	54.0	51.0	52.9	53.0		
6	CMH08-156	52.0	50.7	53.0	51.9	53.1	50.0		
7	CMH08-282	50.0	51.0	53.0	51.3	53.9	58.0		
8	HKH-406	51.7	51.0	56.7	53.1	54.6	50.7		
9	HKH-407	52.0	49.3	54.0	51.8	54.0	52.7		
10	JH-12108	52.0	49.0	54.3	51.8	54.4	51.7		
11	JH-12114	49.3	50.3	52.7	50.8	53.1	50.3		
12	IDX-2901	50.0	49.0	53.3	50.8	53.8	52.3		
13	BMH-107	49.7	49.3	53.3	50.8	53.3	49.3		
14	BMH-109	52.7	51.3	56.0	53.3	54.7	52.7		
15	VMH-2000	52.7	50.3	54.7	52.6	55.0	56.7		
16	JCY2-7xHKI163-1	50.0	48.7	54.0	50.9	53.5	51.7		
17	HKI1126xHKI163-1	53.3	50.7	56.0	53.3	55.1	51.0		
18	MCH-39	52.7	50.0	56.3	53.0	55.3	53.3		
19	MCH-40	53.3	51.7	56.3	53.8	55.0	52.0		
20	APSA-91	54.0	50.7	55.0	53.2	55.3	50.7		
21	GK-3060	54.7	50.7	56.0	53.8	55.7	52.0		
22	GK-3074	49.0	51.0	51.3	50.4	52.2	52.0		
23	GK-3076	49.3	51.0	53.0	51.1	53.2	55.7		
24	LAXMIGOLD	54.3	52.0	57.0	54.4	56.0	50.3		
25	LAXMI405	52.0	53.0	56.7	53.9	55.3	53.7		
26	LAXMI288	53.0	51.0	54.3	52.8	54.6	51.0		
27	BISCO-74	54.7	50.7	55.3	53.6	55.4	52.3		
28	BISCO-574	50.0	50.0	53.3	51.1	53.3	51.7		
29	PAC-799	53.0	49.0	56.0	52.7	55.3	53.3		
30	BIO-265	55.3	51.7	56.7	54.6	56.3	52.3		
31	NMH-731	53.3	51.3	55.0	53.2	55.1	53.3		
32	NMH-920	54.0	52.7	55.7	54.1	54.7	52.7		

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED					OV'L Mean	GODH
		UDAI	BANS	CHHI	Zone Mean			
33	NMH-958	52.7	51.7	55.0	53.1	55.0	53.0	
34	AMAR6669	53.3	50.0	56.0	53.1	54.7	51.0	
35	OM7878	52.7	51.0	56.0	53.2	54.5	50.0	
36	JRMH-8033	50.3	50.0	53.7	51.3	53.5	51.3	
37	JRMH-7005	52.3	54.0	56.7	54.3	55.3	52.7	
38	PRO-377	52.0	51.7	55.3	53.0	54.3	48.3	
39	PRO-378	50.0	51.0	52.7	51.2	53.5	53.0	
40	NK-6246	53.0	51.0	55.7	53.2	55.2	52.7	
41	NK-6267	56.7	51.7	57.0	55.1	57.0	55.0	
42	NK-6607	50.0	50.0	53.0	51.0	53.3	52.0	
43	NK-6617	51.3	50.0	53.0	51.4	53.3	52.7	
44	KMH-3670	53.0	51.7	53.7	52.8	53.9	53.3	
45	KMH-548	54.0	51.7	56.0	53.9	55.5	50.7	
46	X7A303	53.3	49.7	55.7	52.9	54.7	52.7	
47	X8B562	52.3	50.3	54.3	52.3	54.6	52.0	
48	KH-404	51.0	50.7	55.0	52.2	54.1	51.7	
49	MAIZEPOLO	54.7	52.0	55.7	54.1	55.2	52.3	
50	C.-1950	55.0	52.0	57.7	54.9	56.6	54.0	
51	C.-1945	54.3	50.7	54.7	53.2	55.1	53.3	
52	KF-105	53.0	50.7	55.0	52.9	54.7	52.3	
	CHECKS							
53	BIO-9681	50.3	49.7	53.3	51.1	52.9	52.7	
54	SEEDTEC-2324	52.7	50.0	55.7	52.8	54.8	54.0	
55	HQPM-1	52.7	50.0	54.7	52.4	53.8	51.0	
56	HQPM-7	52.0	51.7	55.0	52.9	53.9	52.7	
	Loc. Mean	52.20	50.60	54.90	52.60	54.40	52.4	
	C.D. (5%)	1.10	1.40	1.60	1.60	0.90	4.72	
	C.D. (1%)	1.40	1.90	2.20	2.10	1.20		
	C.V. (%)	1.30	1.74	1.86	1.90	2.86	5.57	
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.45	

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% SILKING										Zone Mean				
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI
1	KNMH-40901	66.3	67.0	53.3	62.2	57.0	56.3	54.7	54.7	69.0	58.3	54.3	53.0	52.3	50.0	52.9
2	KNMH-40902	64.7	65.0	54.7	61.4	57.3	54.0	53.0	54.7	65.0	56.8	53.7	53.0	55.3	51.0	53.4
3	KNMH-40903	68.0	65.3	56.3	63.2	57.0	56.7	55.7	54.0	68.0	58.3	57.3	56.7	57.0	52.0	55.5
4	KNMH-40904	70.0	65.3	56.0	63.8	57.0	56.7	55.7	55.3	68.3	58.5	58.7	56.3	55.3	54.0	55.7
5	CMH08-154	64.7	64.3	55.3	61.4	56.0	51.7	52.0	53.3	63.0	55.1	51.3	53.7	50.7	52.3	52.2
6	CMH08-156	64.3	64.7	54.7	61.2	54.7	52.7	53.3	53.3	66.0	55.9	53.0	51.3	49.3	52.3	51.9
7	CMH08-282	63.0	64.3	55.3	60.9	58.3	56.0	55.3	54.0	65.0	57.7	53.3	53.7	53.3	56.0	54.0
8	HKH-406	66.7	64.0	56.3	62.3	57.7	56.0	54.3	53.0	66.3	57.5	54.7	53.7	52.0	54.0	53.9
9	HKH-407	64.3	65.0	56.0	61.8	56.0	51.7	53.3	54.7	69.0	56.9	53.0	52.7	52.3	52.3	53.4
10	JH-12108	65.0	63.7	54.3	61.0	59.3	58.3	57.0	54.3	68.3	59.5	55.0	52.3	54.3	54.0	54.2
11	JH-12114	62.7	64.7	53.7	60.3	57.3	56.7	54.7	53.7	69.0	58.3	54.7	51.3	53.7	50.0	53.0
12	IDX-2901	64.0	64.0	54.3	60.8	57.3	53.7	54.0	54.7	62.3	56.4	54.0	53.7	53.7	53.0	53.7
13	BMH-107	63.0	64.7	54.0	60.6	55.3	57.0	51.7	54.0	67.0	57.0	56.0	54.3	56.0	52.0	54.5
14	BMH-109	66.7	66.0	54.7	62.4	57.3	54.7	54.7	55.3	61.3	56.7	60.7	55.0	55.7	54.3	56.3
15	VMH-2000	71.0	66.0	55.7	64.2	61.0	57.7	55.0	54.7	63.0	58.3	55.3	54.3	55.3	52.3	54.7
16	JCY2-7xHKI163-1	62.7	64.0	54.7	60.4	56.5	57.0	52.0	55.3	64.7	57.1	54.0	53.3	57.0	52.0	54.3
17	HKI1126xHKI163-1	65.0	65.3	54.7	61.7	61.3	55.7	56.3	56.3	65.0	58.9	54.0	54.7	56.7	53.3	54.8
18	MCH-39	62.0	64.3	54.0	60.1	58.0	54.3	55.7	57.7	63.0	57.7	57.0	57.0	56.0	55.7	56.6
19	MCH-40	65.3	63.7	56.0	61.7	57.3	54.0	53.3	56.3	64.0	57.0	56.0	55.7	55.3	54.0	55.5
20	APSA-91	69.3	64.3	56.0	63.2	60.7	53.7	55.3	56.0	65.0	58.1	56.7	56.7	55.7	55.3	56.2
21	GK-3060	68.7	64.3	56.3	63.1	59.7	57.0	55.7	57.7	67.7	59.5	56.7	57.0	58.0	55.0	56.3
22	GK-3074	60.7	66.7	52.7	60.0	53.3	54.0	51.3	53.7	66.0	55.7	52.3	53.7	49.3	53.0	52.5
23	GK-3076	62.0	63.7	53.3	59.7	54.7	57.7	53.0	55.3	66.0	57.3	56.0	53.7	54.7	52.7	54.1
24	LAXMIGOLD	68.7	63.0	56.3	62.7	58.3	56.3	55.0	58.0	68.3	59.2	56.3	55.3	56.3	56.7	56.0
25	LAXMI405	69.0	63.7	56.0	62.9	59.7	52.0	55.7	58.0	66.0	58.3	55.3	55.3	57.3	55.0	55.9
26	LAXMI288	65.3	65.7	56.3	62.4	57.3	56.7	55.0	54.0	68.0	58.2	54.7	55.3	54.7	53.0	54.3
27	BISCO-74	69.3	65.0	55.0	63.1	60.7	57.3	56.0	55.5	65.0	58.9	56.7	56.0	55.0	52.7	55.4
28	BISCO-574	63.7	64.0	54.0	60.6	54.7	57.7	51.7	54.7	66.0	56.9	54.3	53.7	52.7	53.0	53.6
29	PAC-799	68.0	66.7	54.3	63.0	55.7	55.7	55.0	56.7	67.3	58.1	54.7	56.7	55.3	54.0	54.9
30	BIO-265	71.0	62.3	56.0	63.1	61.0	58.7	58.3	56.7	65.3	60.0	57.3	57.0	55.3	55.0	55.9
31	NMH-731	68.7	65.7	56.0	63.4	57.3	56.0	54.7	55.7	65.0	57.7	55.7	55.3	53.3	55.3	55.1
32	NMH-920	67.3	63.7	55.3	62.1	55.7	54.0	53.7	56.7	62.0	56.4	53.7	54.3	55.0	53.7	54.4

TABLE NO. 1 (CONTD.)

DAYS TO 50% SILKING

SI No	PEDIGREE	Zone Mean										Zone Mean		Zone Mean		
		BAJA	BARA	KANG	DELH	KARN	LUDH	PANT	KANP	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	Zone Mean
33	NMH-958	68.7	66.3	56.3	59.3	57.3	55.7	56.0	66.0	58.9	56.3	54.3	54.3	54.7	54.0	54.7
34	AMAR6669	66.7	67.7	56.3	63.6	54.7	54.7	54.7	65.0	57.3	53.7	57.7	54.3	53.3	54.3	54.7
35	OM7878	64.3	65.0	54.3	61.2	56.7	53.0	55.0	59.0	56.1	54.3	57.0	54.3	55.7	55.0	55.3
36	JKMH-8033	64.3	65.3	54.7	61.4	54.7	53.3	54.3	61.0	55.7	53.7	56.7	53.7	55.7	51.3	54.2
37	JKMH-7005	63.7	67.0	56.0	62.2	59.3	57.3	56.3	69.0	59.5	55.7	56.3	55.7	54.3	56.0	55.6
38	PRO-377	64.3	65.3	54.0	61.2	57.0	54.7	54.7	68.0	58.6	54.3	57.0	53.3	52.0	53.0	53.9
39	PRO-378	65.0	62.3	53.7	60.3	57.7	54.7	54.3	67.0	58.4	52.7	54.7	52.3	53.3	51.3	52.9
40	NK-6246	67.0	65.0	54.3	62.1	57.7	57.3	56.7	67.7	59.5	54.7	56.3	57.3	53.7	53.7	55.1
41	NK-6267	72.3	64.3	55.7	64.1	60.0	56.3	58.7	68.0	59.9	57.7	58.3	58.7	58.3	56.0	57.8
42	NK-6607	64.0	65.3	53.3	60.9	54.7	55.3	55.0	65.0	56.4	53.7	54.0	53.0	53.7	50.3	52.9
43	NK-6617	63.0	64.0	54.3	60.4	55.3	52.3	54.7	68.0	57.7	53.7	55.0	55.3	50.3	52.3	53.3
44	KMH-3670	67.7	63.3	56.3	62.4	58.3	57.3	56.0	61.0	57.7	56.7	57.3	53.7	56.7	52.0	55.3
45	KMH-548	69.3	65.7	56.3	63.8	60.7	57.7	55.3	64.3	58.7	56.3	58.0	56.0	54.7	53.0	55.6
46	X7A303	64.3	62.0	54.7	60.3	58.0	56.7	55.3	68.0	58.6	55.0	54.3	55.0	54.7	53.7	54.5
47	X8B562	64.7	65.0	56.3	62.0	59.7	55.0	55.0	64.7	58.3	55.3	56.3	53.0	52.3	56.0	54.6
48	KH-404	62.0	65.0	55.0	60.7	56.3	54.0	55.3	62.7	56.8	55.3	55.7	53.3	55.3	54.0	54.7
49	MAIZEPOLO	66.0	67.0	56.3	63.1	59.3	57.0	57.7	62.3	58.2	56.7	55.3	57.0	55.3	55.7	56.0
50	C.-1950	67.7	64.0	57.3	63.0	62.0	58.3	56.3	66.0	60.2	57.0	57.7	58.3	55.3	55.0	56.7
51	C.-1945	69.0	63.3	54.0	62.1	58.7	56.0	56.7	65.0	57.8	54.7	57.3	54.0	53.7	56.0	55.1
52	KF-105	69.0	65.0	55.7	63.2	56.7	54.3	55.3	67.0	57.5	54.7	57.0	55.3	54.3	50.7	54.4
CHECKS																
53	BIO-9681	63.3	63.7	54.3	60.4	56.3	55.3	51.7	54.3	57.3	54.0	53.3	53.3	53.0	50.7	52.9
54	SEEDTEC-2324	67.0	65.7	54.7	62.4	60.3	54.7	56.0	66.0	58.3	56.3	55.0	56.7	54.3	53.0	55.1
55	HQPM-1	61.3	66.3	55.7	61.1	58.3	55.3	55.3	68.3	58.1	54.0	55.3	55.7	54.0	53.3	54.5
56	HQPM-7	62.0	66.0	54.7	60.9	54.3	57.0	54.0	60.0	55.8	55.0	52.7	53.0	52.7	54.0	53.5
	Loc. Mean	65.9	64.8	55.1	61.9	57.6	56.0	54.5	65.6	57.8	55.1	55.5	54.6	54.3	53.5	54.6
	C.D. (5%)	3.60	2.70	1.40	2.80	1.90	3.40	1.60	0.90	2.10	1.30	3.10	2.30	1.40	1.30	1.60
	C.D. (1%)	4.70	3.50	1.80	3.70	2.50	4.40	2.20	1.20	2.80	1.70	4.10	3.10	1.80	1.80	2.10
	C.V. (%)	3.35	2.55	1.52	2.79	2.01	3.71	1.87	0.87	2.92	1.45	3.44	2.63	1.54	1.54	2.30
	F (Prob.)	0.00	0.01	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 50% SILKING												Zone		OV'L Mean	GODH
		ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean		
1	KNMH-40901	52.7	57.7	51.7	55.0	52.3	58.3	58.0	50.7	56.3	54.7	52.7	51.7	56.0	53.4	55.8	57.3
2	KNMH-40902	52.0	59.0	51.0	55.0	55.3	57.3	58.3	49.3	56.3	54.9	53.0	53.7	54.7	53.8	55.6	54.3
3	KNMH-40903	52.3	61.3	54.0	56.0	54.7	60.3	59.0	50.0	57.3	56.1	53.0	52.3	56.3	53.9	57.0	55.0
4	KNMH-40904	53.0	59.0	52.3	56.3	57.3	59.7	60.0	51.7	57.7	56.3	54.7	51.7	58.3	54.9	57.4	55.0
5	CMH08-154	53.0	58.0	53.3	58.7	54.0	57.7	57.7	51.3	55.3	55.4	52.7	52.3	54.7	53.2	55.2	54.7
6	CMH08-156	53.0	58.0	52.7	55.3	53.7	58.0	57.0	52.0	55.7	55.0	54.0	54.0	53.3	53.8	55.2	53.0
7	CMH08-282	44.7	59.0	52.7	55.7	56.3	57.7	56.0	50.7	56.7	54.4	53.0	55.0	53.0	53.7	55.7	59.0
8	HKH-406	53.7	59.3	52.3	57.0	57.7	61.0	59.3	53.3	56.7	56.7	54.0	54.0	58.7	55.6	56.8	52.3
9	HKB-407	53.7	57.3	51.7	56.0	59.7	59.7	58.3	54.3	56.3	56.3	54.7	52.7	56.0	54.4	56.3	53.7
10	JH-12108	52.3	59.0	52.7	56.7	54.0	57.0	57.3	52.3	56.7	55.3	54.0	52.3	54.3	53.6	56.4	53.7
11	JH-12114	53.0	58.3	53.3	54.0	53.7	57.3	55.0	51.3	55.7	54.6	52.7	53.7	54.0	53.4	55.6	53.0
12	IDX-2901	52.7	58.3	53.3	56.7	57.7	59.3	59.3	51.7	56.0	56.1	53.3	52.0	54.7	53.3	55.9	54.3
13	BMH-107	53.0	58.7	52.0	54.3	51.3	57.3	57.3	50.0	56.0	54.4	51.3	52.7	55.3	53.1	55.5	52.0
14	BMH-109	53.0	58.7	54.3	56.7	56.0	60.0	59.0	51.7	59.0	56.5	55.3	55.0	56.7	55.7	57.1	54.0
15	VMH-2000	52.3	58.7	53.3	56.0	57.0	60.7	60.3	51.7	57.3	56.4	54.7	53.0	56.0	54.6	57.1	57.7
16	JCY2-7*HKI163-1	53.3	58.7	52.3	55.7	54.7	58.3	57.0	49.7	57.3	55.2	53.0	51.7	55.3	53.3	55.8	53.3
17	HKI126*HKI163-1	53.3	58.7	56.0	57.0	58.3	60.3	60.3	53.3	58.7	57.3	56.0	54.0	56.3	55.4	57.4	53.3
18	MCH-39	52.7	60.7	54.7	58.7	59.0	61.3	61.0	53.3	58.7	57.8	54.7	53.7	57.3	55.2	57.5	54.7
19	MCH-40	53.7	59.3	53.7	57.7	57.0	60.0	59.7	54.3	57.7	57.0	55.7	54.0	57.7	55.8	57.1	53.3
20	APSA-91	51.7	59.7	55.7	57.3	56.0	60.3	61.0	53.0	58.0	57.0	56.3	53.7	56.3	55.4	57.6	52.7
21	GK-3060	53.0	60.3	56.7	56.3	57.0	61.3	60.0	54.7	58.0	57.5	56.7	53.3	57.7	55.9	58.1	54.3
22	GK-3074	52.3	57.7	51.0	54.3	52.7	56.7	55.0	49.0	55.3	53.8	52.0	54.7	51.3	52.7	54.5	52.7
23	GK-3076	51.3	57.3	51.0	55.7	52.7	57.3	57.0	50.0	57.3	54.4	52.3	54.7	54.3	53.8	55.5	57.0
24	LAXMIGOLD	44.3	60.0	55.7	57.7	58.7	61.0	59.7	53.0	59.0	56.6	56.3	56.0	58.7	57.0	57.8	52.0
25	LAXMI405	53.3	59.3	55.7	58.0	56.3	59.3	59.0	52.7	59.0	57.0	54.0	57.0	57.7	56.2	57.6	55.3
26	LAXMI288	54.0	59.7	53.3	55.7	56.3	59.7	59.0	52.7	58.3	56.5	55.7	54.7	55.7	55.3	57.0	53.7
27	BISCO-74	52.3	58.0	55.3	58.0	55.0	61.7	60.0	54.0	58.7	57.0	56.7	54.3	56.3	55.8	57.6	54.3
28	BISCO-574	53.0	57.7	51.7	55.7	52.3	60.0	57.3	50.3	55.3	54.8	53.3	54.0	55.3	54.2	55.6	54.0
29	PAC-799	53.0	60.0	54.3	57.7	59.7	60.0	59.0	53.3	59.0	57.3	55.0	52.7	56.7	54.8	57.4	54.3
30	BIO-265	49.7	60.0	55.7	59.7	59.3	62.7	61.7	55.0	59.7	58.1	57.7	54.7	58.0	56.8	58.5	53.0
31	NMH-731	54.0	59.3	54.3	55.3	59.0	58.7	60.3	52.3	57.7	56.8	55.3	55.0	56.7	55.7	57.3	54.7
32	NMH-920	52.3	58.7	53.3	57.7	59.7	59.7	60.7	52.7	56.7	56.8	56.0	56.7	57.0	56.6	56.9	54.0

TABLE NO. 1 (CONTD.)

DAYS TO 50% SILKING

SI No	PEDIGREE	ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	GODH
33	NMH-958	53.7	61.0	55.0	56.7	55.3	59.7	59.3	53.0	58.3	56.9	55.0	55.3	56.3	55.6	57.5	55.3
34	AMAR6669	53.7	59.0	53.3	57.0	57.7	58.7	59.0	53.0	58.0	56.6	55.3	53.7	56.7	55.2	57.0	53.7
35	OM7878	53.3	59.3	54.0	56.3	59.3	59.0	58.7	52.7	57.7	56.7	54.7	54.7	57.3	55.6	56.7	53.0
36	JKMH-8033	53.7	58.0	51.7	55.0	55.7	57.3	58.0	52.7	55.7	55.3	52.3	53.3	54.7	53.4	55.7	53.3
37	JKMH-7005	52.7	58.7	54.3	56.3	53.3	58.7	58.3	50.3	59.0	55.7	55.0	57.3	57.0	56.4	57.3	54.0
38	PRO-377	52.3	58.3	52.7	56.0	57.0	57.7	56.3	53.3	57.7	55.7	54.7	55.3	56.7	55.6	56.6	49.3
39	PRO-378	53.0	57.7	53.3	54.3	55.3	58.0	56.7	51.0	56.7	55.1	52.3	54.0	53.7	53.3	55.7	54.7
40	NK-6246	52.7	62.3	55.0	58.7	55.0	62.0	59.0	50.0	59.3	57.1	55.0	54.0	56.3	55.1	57.5	53.0
41	NK-6267	51.7	60.0	56.3	60.7	59.7	62.7	63.0	55.7	60.3	58.9	58.7	55.0	59.0	57.6	59.3	56.0
42	NK-6607	53.0	59.0	52.3	56.7	54.7	59.0	57.0	52.0	57.0	55.7	53.3	53.0	55.0	53.8	55.7	54.3
43	NK-6617	44.0	57.7	51.7	56.0	54.0	57.3	57.3	50.3	56.3	53.9	53.3	53.7	54.7	53.9	55.3	54.3
44	KMB-3670	52.0	61.0	54.0	57.3	59.7	60.3	60.0	51.7	58.7	57.2	55.0	54.7	55.7	55.1	57.3	54.7
45	KMB-548	52.0	58.0	56.7	57.0	55.7	60.3	60.3	53.3	58.3	56.9	56.0	54.3	57.0	55.8	57.7	52.3
46	X7A303	43.3	59.7	54.7	56.0	56.0	60.0	58.7	53.3	58.3	55.6	55.3	53.3	55.7	54.8	56.4	55.7
47	X8B562	52.3	59.3	54.0	57.3	55.3	60.3	59.0	55.7	57.7	56.8	54.7	53.7	56.0	54.8	57.0	53.7
48	KH-404	53.0	59.3	54.0	56.0	55.7	57.7	59.0	52.3	57.7	56.1	53.0	53.7	56.3	54.3	52.7	52.7
49	MAIZEPOLO	53.3	60.0	55.0	56.3	53.3	59.3	58.3	52.7	58.0	56.3	56.7	55.7	57.3	56.6	57.5	54.3
50	C.-1950	54.3	58.7	59.3	58.3	60.0	62.3	62.3	54.7	60.3	58.9	57.0	55.7	59.7	57.4	59.0	55.0
51	C.-1945	52.7	57.7	54.0	58.0	59.3	59.0	61.0	53.3	58.3	57.0	56.3	54.0	55.7	55.3	57.2	56.0
52	KF-105	52.3	58.3	54.7	57.0	56.7	59.0	60.3	52.3	60.0	56.7	55.3	53.7	55.3	54.8	57.0	54.7
CHECKS																	
53	BIO-9681	52.7	60.3	52.0	54.7	54.0	58.0	55.7	49.3	55.3	54.7	52.7	53.0	54.7	53.4	55.4	53.7
54	SEDETEC-2324	43.7	59.7	54.7	55.3	55.0	59.0	60.7	52.3	57.7	55.3	54.7	53.0	56.7	54.8	56.7	56.3
55	HQPM-1	53.3	58.7	53.3	57.3	57.7	59.3	60.7	52.7	58.0	56.8	55.0	53.7	56.7	55.1	56.9	53.7
56	HQPM-7	53.0	59.7	52.7	56.3	59.3	60.3	58.3	52.0	57.3	56.6	54.0	55.3	56.0	55.1	56.1	54.3
Loc. Mean																	
C.D. (5%)		8.10	1.70	1.70	2.10	1.10	1.30	2.60	1.30	1.10	1.30	1.00	1.70	1.60	1.70	0.80	4.37
C.D. (1%)		10.60	2.30	2.20	2.80	1.50	1.70	3.40	1.70	1.50	1.70	1.30	2.30	2.20	2.30	1.10	
C.V. (%)		9.56	1.82	1.95	2.29	1.21	1.33	2.73	1.51	1.21	2.50	1.14	1.97	1.79	1.95	2.59	4.98
F (Prob.)		0.75	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	0.51

TABLE NO. 1 (CONTD.)

SI	No	PEDIGREE	DAYS TO 75% DRY HUSK										Zone		
			BAJA	BARA	KANG	Zone	Mean	DELH	KARN	LUDH	PANT	KANP	Zone	Mean	BAHR
1	KNMH-40901	112.0	110.0	88.3	103.4	83.0	88.3	90.7	99.0	96.7	91.5	82.7	86.7	93.0	85.3
2	KNMH-40902	120.7	106.3	88.3	105.1	89.3	90.3	92.3	100.7	102.0	94.9	83.7	89.3	94.0	89.7
3	KNMH-40903	111.3	106.3	84.7	100.8	87.3	88.3	90.3	97.0	96.0	91.8	84.3	88.7	95.0	91.0
4	KNMH-40904	112.7	106.3	94.7	104.6	86.3	89.0	95.3	102.3	97.3	94.1	86.3	90.3	95.3	90.7
5	CMH08-154	117.3	104.7	92.3	104.8	89.0	87.7	88.0	96.0	98.3	91.8	83.0	86.7	93.7	85.3
6	CMH08-156	112.7	107.3	94.3	104.8	85.7	87.0	87.3	96.0	96.7	90.5	83.7	86.7	92.3	84.7
7	CMH08-282	115.0	106.0	92.3	104.4	90.7	86.0	92.0	97.0	96.0	92.3	83.0	88.3	93.7	88.0
8	HKH-406	117.7	105.7	93.3	105.6	83.7	89.3	91.7	101.7	101.3	93.5	86.3	91.7	95.0	87.3
9	HKH-407	118.0	107.3	94.0	106.4	82.0	88.3	92.7	100.7	101.0	92.9	88.3	87.0	95.0	88.0
10	JH-12108	118.0	106.0	93.7	105.9	90.7	88.7	92.0	97.7	101.7	94.1	87.7	87.3	93.7	88.7
11	JH-12114	116.3	107.0	91.3	104.9	85.7	89.7	91.0	98.3	98.7	92.7	84.7	88.0	92.0	88.3
12	IDX-2901	118.7	105.7	93.7	106.0	85.7	89.3	89.3	100.7	101.0	93.3	85.0	88.7	96.0	88.3
13	BMH-107	117.0	106.3	92.3	105.2	86.3	89.7	86.0	98.7	99.7	92.0	84.7	90.7	96.3	88.7
14	BMH-109	121.3	108.3	90.3	106.7	84.7	89.0	95.0	99.7	95.0	92.7	88.3	95.7	96.0	89.3
15	VNH-2000	124.3	109.0	95.7	109.7	89.3	87.3	93.0	100.3	98.0	93.6	88.7	92.7	94.3	89.3
16	JCY2-7xHKI163-1	118.3	104.3	94.0	105.6	89.5	90.0	92.7	100.3	98.0	94.1	85.0	91.7	97.7	91.7
17	HKI1126xHKI163-1	120.3	106.7	95.3	107.4	95.0	88.3	96.3	100.7	100.0	96.1	86.3	92.7	94.7	93.7
18	MCH-39	117.0	107.3	94.7	106.3	90.7	88.3	98.0	100.3	101.0	95.7	86.3	95.3	97.0	91.3
19	MCH-40	118.0	105.3	91.0	104.8	90.3	88.7	92.7	99.0	98.0	93.7	89.0	94.7	98.3	89.3
20	AFSA-91	127.0	105.7	92.3	108.3	89.3	87.7	92.0	101.0	100.0	94.0	87.7	93.3	97.3	89.3
21	GK-3060	123.3	104.7	94.3	107.4	88.3	88.7	93.7	102.0	94.3	93.4	84.7	92.0	99.7	92.0
22	GK-3074	110.7	108.3	91.0	103.3	82.3	88.7	87.3	98.7	100.7	91.5	83.3	86.3	89.0	84.0
23	GK-3076	115.7	105.7	93.7	105.0	88.3	88.3	91.0	101.3	101.0	94.0	82.0	92.0	97.7	90.7
24	LAXMIGOLD	120.0	105.3	95.0	106.8	85.3	88.7	91.0	100.0	97.3	92.5	87.3	92.0	95.0	89.7
25	LAXMI405	120.7	105.0	95.0	106.9	89.0	87.3	93.7	102.3	98.0	94.1	84.7	90.3	95.0	91.7
26	LAXMI288	119.7	108.0	94.0	107.2	91.3	89.0	94.3	98.0	97.3	94.0	87.3	92.3	95.3	90.0
27	BISCO-74	126.0	107.3	95.3	109.6	86.7	88.3	96.0	100.0	94.0	93.0	86.3	92.7	98.0	90.3
28	BISCO-574	116.0	105.7	89.0	103.6	84.3	89.3	86.3	100.3	98.0	91.7	83.3	87.3	95.0	87.0
29	PAC-799	120.3	109.0	95.0	108.1	80.7	89.0	96.3	100.3	97.0	92.7	84.0	91.7	97.7	89.3
30	BIO-265	122.0	104.7	96.7	107.8	90.0	89.3	96.7	98.7	96.0	94.1	89.0	92.0	95.3	92.0
31	NMH-731	120.3	107.7	91.7	106.6	93.3	88.3	95.7	101.7	94.3	94.7	87.3	94.0	96.0	88.7
32	NMH-920	119.3	105.3	95.7	106.8	81.7	89.0	92.7	99.7	94.0	91.4	84.7	91.7	95.3	90.7

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	DAYS TO 75% DRY HUSK										Zone		Zone Mean	CHHI	BANS	UDAI	Zone Mean	OV'L Mean	GODH
		AMBI	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	Zone Mean	Zone Mean										
1	KNMH-40901	78.3	85.2	100.0	84.3	94.0	103.0	91.3	96.0	85.3	87.0	86.6	87.0	87.3	86.3					
2	KNMH-40902	84.3	88.2	102.0	84.0	100.0	110.0	97.0	100.3	84.7	89.0	87.2	89.0	88.0	84.3					
3	KNMH-40903	83.7	88.5	104.3	83.0	96.0	108.0	92.0	97.9	84.3	89.0	87.1	89.0	88.0	84.7					
4	KNMH-40904	89.3	90.4	102.7	83.3	98.7	108.3	93.0	98.6	85.0	91.7	88.1	91.7	87.7	85.0					
5	CMH08-154	82.3	86.2	102.3	82.7	92.0	108.0	91.0	97.3	85.0	89.7	89.0	89.7	93.3	84.0					
6	CMH08-156	78.7	85.2	102.0	82.0	93.7	105.0	92.3	97.5	85.7	89.7	88.1	89.0	89.7	83.0					
7	CMH08-282	85.0	87.6	104.0	85.0	94.0	110.0	92.3	99.1	85.0	88.7	88.6	89.0	92.0	87.3					
8	HKH-406	89.3	89.9	102.3	83.3	98.7	111.3	93.0	100.2	85.7	89.3	90.2	89.3	95.7	82.3					
9	HKH-407	86.0	88.9	100.3	82.0	105.3	115.0	92.0	101.6	86.0	90.0	87.9	90.0	87.7	83.3					
10	JH-12108	82.7	88.0	104.0	84.0	93.3	105.0	92.3	97.8	85.7	91.0	88.0	91.0	87.3	82.3					
11	JH-12114	80.0	86.6	103.3	83.7	94.3	105.0	91.0	96.8	83.7	87.0	87.3	87.0	91.3	84.3					
12	IDX-2901	87.7	89.1	102.3	84.3	97.7	110.0	98.3	101.0	85.0	89.0	89.1	89.0	93.3	84.0					
13	EMH-107	86.7	89.4	103.7	83.0	98.3	102.0	95.7	98.1	83.3	90.3	88.4	90.3	91.7	81.7					
14	EMH-109	89.0	91.7	104.3	82.0	101.7	110.0	93.3	100.4	86.7	90.7	89.6	90.7	91.3	83.7					
15	VMH-2000	90.0	91.0	105.0	84.0	100.0	110.0	98.0	101.7	86.7	90.0	89.2	90.0	91.0	87.0					
16	JCY2-7xHKI163-1	86.0	90.4	104.3	84.3	96.3	105.0	95.7	99.4	85.0	92.0	89.0	90.0	92.0	83.7					
17	HKI1126xHKI163-1	92.0	91.9	103.7	85.0	105.0	112.0	98.7	103.1	87.0	93.0	90.8	93.0	92.3	83.3					
18	MCH-39	89.0	91.8	105.3	83.7	102.3	112.0	98.0	102.5	87.0	95.3	90.9	95.3	90.3	85.0					
19	MCH-40	89.0	92.1	104.0	84.7	101.3	110.0	96.7	101.6	86.0	94.7	90.8	94.7	91.7	83.3					
20	APSA-91	91.0	91.7	103.3	84.3	95.0	109.3	97.0	100.2	87.3	91.0	89.1	91.0	92.0	83.0					
21	GK-3060	90.0	91.7	105.0	84.0	101.3	110.0	96.0	101.4	87.7	93.0	90.9	93.0	92.0	85.0					
22	GK-3074	83.3	85.2	102.7	81.3	94.7	105.0	89.7	96.2	83.7	84.7	86.9	84.7	92.3	82.7					
23	GK-3076	85.7	89.6	100.0	82.7	96.7	105.0	94.3	97.8	84.3	90.7	88.8	90.7	91.3	88.0					
24	LAXMI GOLD	90.0	90.8	104.3	83.7	101.0	115.0	95.3	101.8	87.3	92.0	90.2	92.0	91.3	82.0					
25	LAXMI 405	85.3	89.4	105.7	84.0	96.3	110.0	95.0	99.8	85.3	93.3	91.3	95.3	95.3	85.3					
26	LAXMI 288	82.3	89.5	103.7	83.0	96.3	110.0	96.7	99.8	86.7	92.0	90.1	91.7	92.0	83.7					
27	BISCO-74	86.0	90.7	101.3	84.0	99.0	108.0	97.7	101.1	86.7	92.3	89.9	92.3	90.1	84.7					
28	BISCO-574	86.3	87.8	101.7	83.3	97.0	105.0	95.3	98.3	85.0	89.7	88.4	89.7	90.7	85.0					
29	PAC-799	90.0	90.5	104.0	83.7	99.7	115.0	96.3	102.4	86.0	89.0	87.7	89.0	88.0	84.0					
30	BIO-265	89.3	91.5	104.3	85.3	102.3	115.0	96.7	102.6	89.3	96.3	92.8	96.3	92.7	83.0					
31	NMH-731	91.3	91.5	104.3	83.0	101.0	110.0	97.3	102.2	86.7	96.7	91.6	96.7	91.3	84.7					
32	NMH-920	86.3	89.7	103.0	85.0	101.0	115.0	95.7	102.1	87.3	94.0	90.9	91.3	94.0	84.0					

TABLE NO. 1 (CONTD.)

DAYS TO 75% DRY HUSK

SI No	PEDIGREE	Zone		AMBI	HYDE	KARI	MAND	COIM	JKAG	BANG BAYE	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	GODH
		Mean	Mean														
33	NMH-958	89.7	91.7	104.7	84.3	103.0	108.0	113.0	98.0	101.8	85.7	92.0	91.3	89.7	97.3	85.3	
34	AMAR6669	89.0	90.1	102.7	83.7	101.3	110.0	113.3	95.7	101.1	86.7	91.0	93.7	90.4	96.3	83.7	
35	OM7878	90.0	91.7	104.3	83.0	101.7	115.0	112.0	95.7	101.9	86.3	91.0	92.0	89.8	96.8	83.0	
36	JKMH-8033	85.7	89.5	103.0	83.0	96.7	106.0	100.0	94.0	97.1	85.0	91.0	89.7	88.6	93.3	83.0	
37	JKMH-7005	85.0	89.9	100.7	85.0	97.0	105.0	107.3	94.0	98.2	86.3	94.3	95.0	91.9	95.3	83.3	
38	PRO-377	82.3	88.2	100.3	83.0	95.0	110.0	109.3	94.3	98.7	86.0	91.0	92.0	89.7	94.5	79.3	
39	PRO-378	82.0	88.1	100.3	84.3	94.3	105.0	106.0	94.3	97.4	86.0	96.7	90.3	91.0	94.9	82.7	
40	NK-6246	86.0	90.3	106.3	84.0	101.0	108.0	117.0	97.3	102.3	86.7	92.0	97.3	92.0	97.0	83.0	
41	NK-6267	85.7	91.8	104.3	85.0	100.3	115.0	115.0	100.0	103.3	89.7	91.7	97.7	93.0	97.4	86.0	
42	NK-6607	83.3	87.3	102.7	84.7	101.7	105.0	109.3	95.0	99.7	84.7	93.7	88.3	88.9	94.1	84.3	
43	NK-6617	82.3	87.8	101.3	83.3	99.0	105.0	108.7	95.7	98.8	85.0	93.3	89.7	89.3	94.1	84.7	
44	KMH-3670	82.7	89.8	105.7	84.0	101.0	115.0	116.7	99.3	103.6	86.3	93.0	92.0	90.4	97.3	84.0	
45	KMH-548	89.0	89.7	102.0	85.0	102.3	105.7	112.7	96.0	100.6	87.3	94.0	93.7	91.7	96.2	83.0	
46	X7A303	84.3	89.5	101.3	83.0	98.3	110.0	108.7	95.3	99.4	87.0	88.0	88.3	87.8	95.2	86.0	
47	X8B562	84.0	89.1	102.7	84.3	97.0	110.0	112.7	95.7	100.4	85.3	90.3	91.0	88.9	95.9	83.7	
48	KH-404	89.7	90.0	104.0	84.3	99.0	110.0	113.3	96.7	101.2	86.7	89.0	93.0	89.6	96.2	82.7	
49	MAIZEPOLO	88.3	90.3	104.0	83.7	95.7	105.0	108.7	95.7	98.8	88.3	92.3	93.7	91.4	95.9	84.7	
50	C.-1950	90.0	92.7	100.3	84.0	104.3	115.0	116.0	100.0	103.3	88.0	92.0	98.0	92.7	98.3	85.0	
51	C.-1945	84.7	88.6	100.7	83.7	96.7	115.0	111.0	98.3	100.9	86.3	87.7	90.7	88.2	95.5	86.0	
52	KF-105	88.3	89.9	102.3	83.3	102.7	107.3	112.0	97.7	100.9	86.7	92.7	93.0	90.8	95.8	84.3	
CHECKS																	
53	BIO-9681	83.3	87.5	103.7	83.7	96.0	104.7	106.7	94.0	98.1	84.0	91.0	88.0	87.7	93.7	83.7	
54	SEEDTEC-2324	86.0	90.5	101.3	84.7	96.0	108.0	110.0	99.0	99.8	85.3	91.0	92.0	89.4	95.6	86.3	
55	HQPM-1	90.0	91.5	102.3	83.3	103.3	110.0	114.0	101.0	102.3	86.3	90.3	95.0	90.6	97.5	83.7	
56	HQPM-7	86.0	90.1	104.3	84.7	101.3	115.0	116.0	97.0	103.1	86.0	90.7	93.0	89.9	96.7	84.7	
	Loc. Mean	86.3	89.6	103.0	83.8	98.7	109.2	110.7	95.6	100.2	86.0	91.3	91.5	89.6	95.6	84.1	
	C.D. (5%)	1.2	2.2	1.6	1.6	4.0	1.0	4.2	3.7	2.6	1.6	2.0	3.0	3.0	1.3	4.13	
	C.D. (1%)	1.6	2.9	2.1	2.2	5.3	1.3	5.5	4.9	3.4	2.1	2.7	4.0	4.0	1.7		
	C.V. (%)	0.9	2.0	0.9	1.2	2.5	0.5	2.3	2.4	2.2	1.1	1.4	2.1	2.1	2.3	3.04	
	F (Prob.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.46	

TABLE NO. 1 (CONTID.)

SI No	PEDIGREE	MOISTURE % AT HARVEST										Zone				
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	VARA	Zone Mean	ARBH
1	KNMH-40901	28.0	23.3	17.8	23.0	22.9	33.4	21.0	28.6	15.0	24.2	22.9	19.8	24.3	22.3	20.5
2	KNMH-40902	29.5	22.7	19.4	23.9	34.5	34.0	19.1	28.3	15.0	26.2	23.1	21.7	27.9	24.2	20.9
3	KNMH-40903	26.4	22.0	18.8	22.4	24.6	30.3	20.1	29.8	15.0	23.9	24.7	20.8	26.1	23.9	21.3
4	KNMH-40904	27.8	23.7	20.2	23.9	32.7	31.7	19.5	30.0	15.0	25.8	25.6	20.9	27.1	24.5	19.4
5	CMH08-154	29.8	24.0	21.0	24.9	31.7	33.0	20.0	30.5	15.0	26.0	27.2	22.4	29.2	26.3	20.8
6	CMH08-156	27.0	23.0	20.0	23.3	29.9	33.3	19.8	29.0	15.0	25.4	27.2	20.5	26.0	24.6	20.9
7	CMH08-282	30.6	22.3	18.8	23.9	29.2	30.9	22.4	23.8	15.0	24.3	24.2	28.5	27.2	26.6	21.6
8	HKH-406	28.3	23.0	18.3	23.2	31.1	32.0	22.7	33.4	15.0	26.8	24.8	24.1	33.4	27.4	19.4
9	HKH-407	30.4	22.0	19.3	23.9	33.8	31.6	22.1	29.1	15.0	26.3	23.0	21.3	31.3	25.2	19.8
10	JH-12108	28.0	24.0	17.9	23.3	30.8	34.0	22.3	26.7	15.0	25.8	23.1	26.0	31.4	26.8	26.0
11	JH-12114	30.0	22.7	19.9	24.2	36.4	34.4	21.8	35.6	15.0	28.6	27.0	24.5	31.0	27.5	19.5
12	IDX-2901	28.8	23.0	18.9	23.5	31.6	34.6	19.1	26.0	15.0	25.3	24.6	23.8	29.1	27.0	22.3
13	BMH-107	28.1	23.7	17.4	23.1	29.8	32.4	20.4	29.2	15.0	25.3	24.4	27.3	30.9	26.4	24.2
14	BMH-109	26.2	22.7	18.5	22.4	28.5	31.9	21.8	34.1	15.0	26.3	27.2	30.0	27.6	28.3	15.7
15	VMH-2000	27.0	22.3	20.9	23.4	29.5	31.9	21.2	34.6	15.0	26.4	25.2	27.2	32.9	28.4	18.6
16	JCY2-7xHKI163-1	29.3	23.3	21.1	24.6	25.1	31.9	19.6	30.0	15.0	24.3	24.3	20.9	33.2	26.1	19.9
17	HKI1126xHKI163-1	28.5	23.0	20.6	24.0	31.5	34.0	21.5	31.4	15.0	26.7	23.7	21.3	35.9	27.0	23.9
18	MCH-39	29.3	23.3	20.8	24.5	32.0	32.7	22.7	29.9	15.0	26.5	27.0	23.8	31.8	27.5	18.0
19	MCH-40	28.9	22.3	18.1	23.1	39.1	30.7	21.6	29.2	15.0	27.1	25.9	28.5	31.2	28.5	20.1
20	APSA-91	27.6	22.3	20.4	23.5	35.7	32.5	22.2	26.6	15.0	26.4	24.9	29.3	30.7	28.3	23.9
21	GK-3060	27.7	23.3	18.8	23.3	32.0	33.3	22.4	31.4	15.0	26.8	24.8	23.9	31.7	26.8	22.8
22	GK-3074	29.3	24.7	18.4	24.1	26.5	32.5	18.7	27.3	15.0	24.0	23.0	22.1	23.2	22.8	16.6
23	GK-3076	28.0	22.0	19.9	23.3	31.7	33.3	20.1	30.4	15.0	26.1	24.1	24.8	30.8	26.6	20.4
24	LAXMI405	29.0	22.0	19.6	23.5	35.5	33.0	22.2	28.8	15.0	26.9	24.8	23.0	29.6	25.8	22.2
25	LAXMI405	19.8	23.0	21.2	21.3	36.6	31.1	23.3	30.5	15.0	27.3	23.9	22.7	32.0	26.2	26.0
26	LAXMI288	28.1	22.7	20.2	23.6	26.1	32.7	22.7	29.6	15.0	25.2	24.4	21.2	30.7	25.4	22.3
27	BISCO-74	30.5	21.3	20.7	24.2	26.3	32.2	24.0	32.2	15.0	25.9	28.2	31.9	29.9	30.0	25.7
28	BISCO-574	28.0	24.0	17.1	23.0	28.5	29.5	20.3	33.0	15.0	25.3	23.1	26.8	29.0	26.3	24.1
29	PAC-799	29.6	24.0	19.8	24.5	23.7	29.7	22.5	32.3	15.0	24.6	23.8	27.0	29.0	26.6	22.7
30	BIO-265	29.1	23.0	19.9	24.0	30.8	30.5	23.3	30.9	15.0	26.1	24.4	24.2	33.6	27.4	18.9
31	NMH-731	29.5	22.0	18.6	23.4	36.8	29.4	21.9	33.5	15.0	27.3	27.0	25.7	31.8	28.2	21.6
32	NMH-920	32.0	22.3	20.1	24.8	33.5	33.3	22.0	35.8	15.0	27.9	24.6	25.0	26.9	25.5	23.9

TABLE NO. 1 (CONTD.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST										Zone				
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	VARA	Zone Mean	ARBH
33	NMH-958	26.9	23.3	18.4	22.9	27.1	31.7	24.1	32.1	15.0	26.0	24.4	25.2	29.8	26.5	21.2
34	AMAR66669	29.2	22.7	18.1	23.3	31.9	32.4	22.8	31.4	15.0	26.7	24.8	20.5	31.5	25.6	18.9
35	OM7878	28.8	22.7	20.0	23.8	21.4	34.3	22.1	28.4	15.0	24.2	23.7	24.3	29.7	25.9	23.4
36	JKMH-8033	26.6	23.3	17.7	22.6	22.6	34.0	18.9	29.1	15.0	23.9	27.5	19.9	29.9	25.8	14.5
37	JKMH-7005	26.2	24.3	19.7	23.4	28.2	32.5	26.3	37.9	15.0	28.0	24.3	29.2	31.6	28.4	18.0
38	PRO-377	29.2	23.7	18.9	23.9	30.5	32.0	24.5	26.2	15.0	25.6	25.8	28.2	28.5	27.5	25.4
39	PRO-378	27.9	23.0	18.1	23.0	29.2	31.7	22.3	37.5	15.0	27.1	27.2	26.6	30.6	28.1	22.0
40	NK-6246	27.3	23.7	22.1	24.4	29.2	30.4	22.8	31.1	15.0	25.7	24.6	26.8	31.8	27.7	26.4
41	NK-6267	28.7	22.3	18.0	23.0	28.4	32.4	24.0	31.5	15.0	26.2	27.1	26.5	32.1	28.6	24.2
42	NK-6607	27.3	23.3	17.0	22.5	24.4	34.0	18.7	29.4	15.0	24.3	24.4	22.4	23.0	23.3	21.6
43	NK-6617	29.2	24.3	17.3	23.6	33.2	31.9	20.2	34.3	15.0	26.9	23.3	23.2	27.5	24.7	20.9
44	KMH-3670	29.3	21.3	19.8	23.5	31.8	30.4	23.2	36.1	15.0	27.3	24.1	23.8	28.2	25.4	27.4
45	KMH-548	29.7	23.0	21.1	24.6	36.2	32.5	24.2	30.8	15.0	27.7	26.8	29.0	32.6	29.5	20.5
46	X7A303	28.3	22.3	21.1	23.9	28.9	34.2	22.5	26.6	15.0	25.4	25.0	22.7	28.6	25.4	22.5
47	X8B562	27.5	21.3	19.6	22.8	29.1	31.2	22.5	33.8	15.0	26.3	23.1	29.3	32.0	28.1	22.1
48	KH-404	28.2	24.7	20.7	24.5	33.0	31.7	21.7	36.2	15.0	27.5	25.0	23.8	28.0	25.6	23.7
49	MAIZEPOLO	26.0	21.7	19.3	22.3	39.1	34.4	22.9	33.6	15.0	29.0	23.6	21.5	31.1	25.4	24.4
50	C.-1950	28.3	21.0	20.4	23.2	36.3	32.4	24.6	34.2	15.0	28.5	23.9	26.8	31.5	27.4	22.8
51	C.-1945	29.7	22.3	18.9	23.6	31.5	30.9	21.9	32.9	15.0	26.4	24.5	23.0	32.4	26.6	17.1
52	KF-105	29.6	23.7	17.7	23.6	31.0	32.4	22.5	35.4	15.0	27.3	25.8	22.4	35.6	27.9	14.9
CHECKS																
53	BIO-9681	28.1	23.3	17.1	22.9	30.6	33.0	18.0	32.2	15.0	25.8	24.1	19.5	26.7	23.4	20.9
54	SEDETEC-2324	28.4	24.0	18.8	23.7	30.8	33.4	22.2	32.0	15.0	26.7	24.4	26.1	32.4	27.6	21.4
55	HQPM-1	29.5	23.7	17.4	23.5	32.1	34.4	19.8	30.5	15.0	26.3	24.8	21.3	29.8	25.3	19.4
56	HQPM-7	28.4	22.3	19.5	23.4	22.2	30.9	21.2	32.6	15.0	24.4	24.1	19.1	28.5	23.9	24.3
	Loc. Mean	28.3	22.9	19.3	23.5	30.5	32.3	21.8	31.2	15.0	26.1	24.8	24.3	30.0	26.4	21.5
	C.D. (5%)	3.00	2.60	2.40	2.20	2.70	-	2.20	4.30	-	3.10	0.90	0.00	0.00	3.70	3.70
	C.D. (1%)	3.90	3.40	3.20	2.90	3.60	-	2.90	5.60	-	4.00	1.20	0.00	0.00	4.90	4.90
	C.V. (%)	6.49	7.02	7.84	5.85	5.47	-	6.28	8.45	-	9.37	2.31	0.00	0.00	8.63	10.66
	F (Prob.)	0.00	0.72	0.00	0.87	0.00	0.00	0.00	0.00	-	0.11	0.00	0.00	0.00	0.02	0.00

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	MOISTURE & AT HARVEST												Zone		Ov'l	
		HYDE	KARI	MAND	COIM	BANG POCB	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	CHHI	BANS	UDAI	Zone Mean	Mean	GODH
1	KNMH-40901	30.5	15.3	15.6	16.7	23.2	20.3	25.8	15.2	14.0	19.7	21.5	16.9	12.8	17.0	21.0	24.2
2	KNMH-40902	29.3	15.0	15.9	18.8	24.3	23.1	30.6	15.1	14.0	20.7	22.9	17.0	13.2	17.7	22.3	24.8
3	KNMH-40903	28.5	13.3	17.1	17.1	23.9	20.4	25.5	15.1	14.0	19.6	22.9	17.0	12.0	17.3	21.1	19.4
4	KNMH-40904	26.5	14.3	16.5	18.1	23.9	22.0	26.7	15.2	14.0	19.7	23.2	16.8	14.4	18.1	21.9	24.3
5	CMH08-154	31.2	13.7	16.7	19.3	23.9	25.8	29.4	16.1	14.0	21.1	23.3	17.3	12.1	17.6	22.8	26.0
6	CMH08-156	31.5	13.7	16.6	19.6	24.6	25.8	29.0	15.2	14.0	21.1	23.0	16.9	15.6	18.5	22.4	28.3
7	CMH08-282	26.6	16.0	17.1	20.1	25.3	25.8	28.0	16.3	14.0	21.1	22.5	17.5	16.4	18.8	22.5	28.5
8	HKH-406	28.0	14.0	17.4	20.6	26.6	26.0	28.9	15.0	14.0	21.0	23.4	17.6	14.0	18.3	23.0	26.5
9	HKH-407	26.7	13.0	18.2	21.3	27.1	24.8	29.1	15.0	14.0	20.9	23.3	17.3	14.1	18.2	22.6	27.9
10	JH-12108	31.6	15.0	17.5	19.8	23.1	24.3	28.8	15.0	14.0	21.5	23.4	17.0	16.2	18.8	22.9	27.5
11	JH-12114	30.5	15.3	16.2	18.8	25.4	23.3	30.1	15.2	14.0	20.8	23.1	17.3	16.8	19.0	23.5	27.7
12	IDX-2901	28.4	15.3	17.5	17.9	24.3	21.7	27.3	15.7	14.0	20.4	22.8	17.7	15.5	18.6	22.4	28.7
13	BMH-107	30.1	14.0	16.5	16.9	24.4	20.9	26.4	15.5	14.0	20.3	23.4	17.3	14.2	18.3	22.2	20.2
14	BMH-109	30.1	13.0	16.6	19.8	25.2	21.4	27.5	15.4	14.0	19.8	23.1	18.1	12.3	17.8	22.3	28.3
15	VMH-2000	30.4	15.0	17.8	20.8	25.3	23.6	31.2	15.0	14.0	21.2	23.3	17.3	15.4	18.7	23.1	24.2
16	JCY2-7*HKI163-1	30.1	14.7	16.7	20.8	24.5	24.9	29.4	15.2	14.0	21.0	23.6	16.3	14.5	18.1	22.4	18.4
17	HKI1126*HKI163-1	28.3	16.0	17.5	21.7	25.2	25.8	28.8	15.4	14.0	21.7	23.1	17.1	15.3	18.5	23.3	28.6
18	MCH-39	32.1	15.0	17.6	20.6	25.2	23.1	29.5	16.0	14.0	21.1	22.7	16.4	14.2	17.7	23.0	28.5
19	MCH-40	29.3	15.3	16.9	21.1	24.6	23.1	26.4	16.3	14.0	20.7	23.1	17.1	16.0	18.7	23.1	28.5
20	APSA-91	30.9	15.3	17.6	20.3	24.5	24.6	31.6	15.3	14.0	21.8	22.9	16.9	16.6	18.8	23.4	28.1
21	GK-3060	30.4	15.0	18.0	21.3	24.2	24.0	30.8	15.8	14.0	21.6	23.4	17.3	18.3	19.6	23.3	24.4
22	GK-3074	27.9	12.3	15.0	18.6	23.6	21.4	24.7	15.8	14.0	19.0	22.0	16.9	11.6	16.8	20.9	28.3
23	GK-3076	29.2	13.7	17.1	19.4	23.9	21.5	26.7	15.7	14.0	20.1	22.0	17.4	13.1	17.5	22.2	24.4
24	LAXMIGOLD	27.6	14.7	17.8	20.9	26.0	25.4	28.7	16.6	14.0	21.4	22.1	17.1	16.7	18.6	23.0	24.5
25	LAXMI405	29.7	15.0	17.2	21.0	24.5	24.4	30.6	15.8	14.0	21.8	23.7	17.2	19.4	20.1	23.2	24.1
26	LAXMI298	23.2	13.3	16.2	22.1	24.4	25.0	33.0	16.3	14.0	21.0	22.3	16.4	16.5	18.4	22.4	18.3
27	BISCO-74	26.2	15.0	17.1	22.3	24.5	25.0	31.4	15.8	14.0	21.7	23.2	17.4	18.2	19.6	23.7	22.0
28	BISCO-574	30.2	14.3	16.8	21.5	24.9	25.0	30.3	15.2	14.0	21.6	23.0	17.4	18.5	19.6	22.9	18.3
29	PAC-789	23.2	14.7	17.3	20.8	25.0	24.5	29.5	16.0	14.0	20.7	22.6	17.2	13.5	17.8	22.4	28.2
30	BIO-265	28.6	15.7	16.4	20.6	25.2	23.1	27.8	16.8	14.0	20.7	22.9	17.1	18.1	19.3	22.9	28.6
31	NMH-731	29.6	14.0	17.8	21.4	24.3	22.2	30.6	16.0	14.0	21.1	22.5	17.4	18.8	19.5	23.4	26.5
32	NMH-920	31.5	16.0	17.6	20.8	24.4	26.3	28.5	15.5	14.0	21.8	22.7	17.7	15.0	18.4	23.5	24.7

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	MOISTURE % AT HARVEST											Zone		OV'L		
		HYDE	KARI	MAND	COIM	POCB	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	CHHI	BANS	UDAI	Zone Mean	OV'L Mean	GODH
33	NMH-958	29.5	15.3	17.5	20.9	24.6	22.3	28.3	15.2	14.0	20.9	23.0	17.0	15.7	18.6	22.6	20.0
34	PMAR6669	25.8	14.7	15.9	18.7	23.7	22.6	25.6	17.0	14.0	19.7	23.2	17.0	14.6	18.2	22.1	27.3
35	OM7878	27.7	14.0	17.5	21.8	25.2	23.7	31.1	15.7	14.0	21.4	22.6	16.6	14.8	18.0	22.4	26.8
36	JKMH-8033	26.5	13.3	15.7	17.7	23.6	19.7	26.6	17.1	14.0	18.9	22.6	17.7	12.6	17.6	21.1	26.4
37	JKMH-7005	29.2	16.3	16.4	18.7	27.3	22.3	29.5	15.1	14.0	20.7	23.3	17.2	15.8	18.7	23.2	27.5
38	PRO-377	30.6	14.3	18.7	20.7	25.2	23.4	29.2	17.0	14.0	21.8	23.2	17.1	14.7	18.3	23.2	21.3
39	PRO-378	30.7	15.3	18.3	20.6	25.5	24.3	29.3	15.3	14.0	21.5	22.5	16.6	16.3	18.4	23.3	27.1
40	NK-6246	31.8	14.7	15.5	22.3	24.1	26.3	26.8	15.8	14.0	21.8	23.9	17.2	17.4	19.5	23.4	28.5
41	NK-6267	26.9	15.3	17.6	21.6	25.1	23.8	32.7	17.2	14.0	21.8	23.4	17.5	19.1	20.0	23.5	20.0
42	NK-6607	28.4	15.7	16.6	18.7	24.5	21.6	26.7	16.7	14.0	20.4	23.2	16.5	12.9	17.5	21.5	30.0
43	NK-6617	28.2	14.3	16.4	20.1	24.5	22.3	27.8	16.4	14.0	20.5	23.5	17.7	15.5	18.9	22.5	18.4
44	KMH-3670	31.5	15.0	18.4	21.6	25.7	23.6	34.4	15.8	14.0	22.7	24.0	17.0	15.7	18.9	23.6	23.5
45	KMH-548	31.2	16.0	18.4	21.2	25.0	24.5	28.2	15.8	14.0	21.5	22.8	17.4	16.7	18.9	23.8	28.2
46	X7A303	28.2	15.0	17.4	18.3	25.9	23.0	29.6	16.7	14.0	21.1	23.9	17.4	15.7	19.0	22.6	27.4
47	X8B562	31.0	14.3	17.5	18.0	23.7	23.9	29.1	15.5	14.0	20.9	24.0	17.7	18.9	20.2	23.1	24.3
48	KH-404	32.0	15.3	17.4	21.4	26.6	23.4	30.5	16.4	14.0	22.1	23.0	17.0	17.0	19.0	23.6	16.8
49	MAIZEPOLO	29.7	14.7	17.1	21.0	23.4	25.3	32.4	15.3	14.0	21.7	23.0	17.5	18.1	19.5	23.5	24.6
50	C.-1950	28.3	15.0	18.5	22.6	26.0	25.1	31.3	16.0	14.0	21.9	23.6	17.3	19.8	20.2	23.9	24.5
51	C.-1945	29.2	14.3	16.2	21.2	24.4	21.0	29.9	17.3	14.0	20.5	23.2	17.3	17.8	19.4	22.7	24.5
52	KF-105	29.4	14.3	15.4	21.6	24.1	20.9	29.4	15.7	14.0	20.0	24.0	16.9	12.5	17.8	22.7	26.3
CHECKS																	
53	BIO-9681	28.4	14.7	18.2	17.9	23.4	23.1	26.2	15.3	14.0	20.2	23.6	17.3	11.7	17.5	21.8	24.2
54	SEEDTEC-2324	30.2	15.3	17.6	20.3	25.7	23.7	31.9	15.5	14.0	21.6	23.0	17.0	18.5	19.5	23.4	24.3
55	HQPM-1	26.0	14.0	17.7	19.9	25.1	23.0	33.7	15.3	14.0	20.8	23.2	16.5	13.8	17.8	22.5	18.0
56	HQPM-7	28.9	14.0	16.2	20.0	24.7	25.4	30.2	15.3	14.0	21.3	23.0	17.2	15.2	18.5	22.2	28.4
Loc. Mean																	
C.D. (58)																	
C.D. (18)																	
C.V. (%)																	
F (Prob.)																	
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	1.30	0.90	0.30	1.20	2.00	1.00	0.00
		4.66	5.95	2.53	1.28	4.40	6.75	5.89	4.19	-	1.70	1.20	0.40	1.60	2.70	1.30	0.00
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-	6.83	2.53	1.22	4.93	6.78	7.84	0.00
										-	0.00	0.00	0.00	0.00	0.17	0.00	0.00

TABLE NO. 1 (CONTD.)

SI NO	PEDIGREE	PLANT HEIGHT CM										Zone					
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean
1	KNMH-40901	69	170	202	180	182	178	241	233	198	207	200	160	162	180	239	188
2	KNMH-40902	53	144	225	174	154	145	216	247	180	188	167	148	152	160	237	173
3	KNMH-40903	74	158	202	178	177	168	229	243	201	204	194	170	163	205	261	199
4	KNMH-40904	91	154	195	180	192	153	254	223	189	202	190	171	154	165	210	178
5	CMH08-154	175	169	223	189	182	195	249	257	215	220	186	164	180	155	249	187
6	CMH08-156	175	186	229	197	179	187	227	270	192	211	201	163	177	205	265	202
7	CMH08-282	186	140	255	194	145	175	276	283	181	212	204	195	194	210	253	211
8	HKH-406	165	164	195	175	175	177	224	247	197	204	179	144	153	145	238	172
9	HKH-407	156	179	203	179	151	162	198	217	209	187	179	135	127	150	246	167
10	JH-12108	173	175	225	191	176	178	264	263	193	215	190	166	175	175	253	192
11	JH-12114	170	161	225	185	178	177	239	237	195	205	197	158	147	170	246	183
12	IDX-2901	177	162	229	189	151	161	231	220	195	192	182	144	151	125	242	169
13	BMH-107	165	149	172	162	186	160	233	243	209	206	192	147	152	150	259	180
14	BMH-109	172	176	250	199	187	175	260	263	200	217	213	182	175	210	271	210
15	VMH-2000	168	155	230	184	165	170	228	243	203	202	177	146	165	135	228	170
16	JCY2-7xHK1163-1	163	146	251	186	179	162	257	257	185	208	201	169	163	175	253	192
17	HK11126xHK1163-1	165	163	196	175	165	170	220	233	202	198	182	166	154	140	239	176
18	MCH-39	200	159	252	204	192	167	269	297	185	222	221	200	209	215	274	224
19	MCH-40	195	150	227	191	189	204	258	253	210	223	181	173	183	170	256	193
20	APSA-91	171	149	214	178	178	168	238	237	191	202	173	152	162	150	234	174
21	GK-3060	154	156	231	180	177	170	230	237	208	204	171	154	157	180	224	177
22	GK-3074	146	167	225	179	154	172	203	227	203	192	173	128	120	150	234	161
23	GK-3076	177	170	221	189	187	172	248	277	200	217	199	172	172	210	247	200
24	LAXMIGOLD	183	166	230	193	189	170	238	263	194	211	205	178	175	180	259	199
25	LAXMI405	160	168	213	180	159	153	236	243	194	197	178	149	153	190	218	178
26	LAXMI288	171	159	227	186	175	160	229	233	184	196	160	162	158	170	239	178
27	BISCO-74	180	180	157	173	181	155	248	237	210	206	186	155	168	190	258	191
28	BISCO-574	172	156	202	177	142	158	216	250	848	323	175	134	155	180	239	177
29	PAC-799	177	150	201	176	174	157	236	253	199	204	191	156	168	190	232	188
30	BIO-265	212	141	240	198	193	192	263	267	204	224	201	172	183	160	246	192
31	NMH-731	180	177	240	199	191	168	258	273	199	218	201	175	178	190	250	199
32	NMH-920	181	154	160	165	186	186	232	250	188	208	183	167	163	170	255	188

TABLE NO. 1 (CONTD.)

SI	NO PEDIGREE	PLANT HEIGHT CM										Zone					
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUJDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean
33	NMH-958	173	164	243	193	174	157	253	257	202	208	187	162	167	185	245	189
34	AMAR6669	176	146	215	179	184	162	239	257	196	207	187	162	163	170	248	186
35	OM7878	175	169	242	196	190	185	232	253	187	209	194	167	163	170	256	190
36	JKMH-8033	165	192	244	200	188	188	238	243	192	210	198	150	170	165	241	185
37	JKMH-7005	162	160	133	152	164	163	248	230	206	202	168	159	163	175	247	182
38	PRO-377	178	162	234	191	185	173	255	250	495	272	164	161	180	165	247	183
39	PRO-378	152	161	214	176	168	160	234	250	192	201	185	162	171	150	239	181
40	NK-6246	168	156	225	183	168	152	235	237	192	197	190	163	159	180	244	187
41	NK-6267	190	168	260	206	175	178	257	267	195	214	205	165	188	190	250	200
42	NK-6607	162	163	228	184	178	176	253	237	198	208	203	162	163	170	252	190
43	NK-6617	169	154	239	187	175	163	244	243	191	203	226	163	166	170	237	193
44	KMH-3670	189	161	248	199	171	170	254	280	194	214	188	168	173	190	264	196
45	KMH-548	182	165	238	195	178	166	243	245	198	206	180	151	165	140	231	173
46	X7A303	210	166	234	203	207	185	270	287	190	228	190	187	183	190	254	201
47	X8B562	195	151	250	199	204	203	282	283	196	234	208	183	185	185	277	208
48	KH-404	164	151	223	179	172	157	225	243	197	199	186	161	159	170	250	185
49	MAIZEPOLO	173	169	210	184	176	162	230	247	181	199	174	159	156	150	222	172
50	C.-1950	191	148	215	185	188	159	260	260	174	208	193	172	159	170	250	189
51	C.-1945	170	166	220	185	171	178	233	243	206	206	168	151	164	180	230	179
52	KP-105	168	174	234	192	181	159	258	253	179	206	202	168	177	165	248	192
CHECKS																	
53	BIO-9681	171	164	205	180	146	170	225	213	187	188	192	153	157	190	241	186
54	SEEDTEC-2324	192	153	224	190	159	180	233	240	206	204	187	169	163	155	254	186
55	HQPM-1	158	151	222	177	172	152	249	243	204	204	169	145	149	170	237	174
56	HQPM-7	159	165	231	185	179	164	257	257	151	209	195	177	167	165	256	192
Loc. Mean																	
		174	161	221	185	176	170	242	250	213	210	189	162	165	173	246	187
C.D. (5%)		16.0	34.0	27.0	27.0	29.0	19.0	21.0	23.0	266.0	56.0	27.0	20.0	12.0	-	25.0	13.0
C.D. (1%)		21.0	45.0	36.0	36.0	39.0	26.0	28.0	30.0	352.0	74.0	36.0	27.0	16.0	-	33.0	17.0
C.V. (%)		5.56	12.9	7.61	9.12	10.30	7.07	5.37	5.59	77.40	21.4	8.82	7.80	4.58	-	6.34	5.67
F (Prob.)		0.00	0.77	0.00	0.22	0.01	0.00	0.00	0.00	0.47	0.51	0.00	0.00	0.00	-	0.00	0.00

TABLE NO. 1 (CONTD.)

SI	No	PEDIGREE	PLANT HEIGHT CM												Zone		OV'L	
			ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean	Mean	GODH
1	KNMH-40901	196	237	227	199	196	233	249	255	237	225	195	198	209	201	206	176	
2	KNMH-40902	170	223	204	195	170	267	214	252	217	212	210	198	174	194	193	164	
3	KNMH-40903	200	203	204	214	203	290	233	254	237	226	210	212	203	209	208	174	
4	KNMH-40904	194	229	204	206	198	257	249	248	210	222	222	207	197	208	202	172	
5	CMH08-154	185	237	234	200	188	302	267	263	247	236	225	212	212	216	215	165	
6	CMH08-156	184	235	210	218	193	280	256	226	243	227	220	201	203	208	213	176	
7	CMH08-282	209	238	233	210	202	280	287	264	272	244	228	203	218	217	222	184	
8	HKH-406	191	195	208	202	170	297	237	263	245	223	203	219	185	202	201	163	
9	HKH-407	173	205	191	187	165	257	209	244	232	207	173	207	175	185	189	142	
10	JH-12108	207	215	222	213	193	280	258	223	245	228	222	202	205	209	212	174	
11	JH-12114	198	225	207	198	179	277	235	289	250	229	198	192	197	196	206	176	
12	IDX-2901	161	213	197	200	183	280	228	242	232	215	208	198	203	202	196	159	
13	BMH-107	184	244	222	208	184	282	259	249	238	230	208	205	187	200	204	165	
14	BMH-109	194	226	227	206	209	280	260	266	253	236	200	213	214	209	219	178	
15	VMH-2000	179	204	210	197	176	260	235	261	227	216	205	216	197	206	199	167	
16	JCY2-7xHK-163-1	195	225	225	209	187	325	271	276	248	240	228	209	207	215	215	177	
17	HKI1126xHKI163-1	166	203	210	195	181	275	234	269	228	218	203	212	186	200	198	145	
18	MCH-39	205	240	245	230	204	310	269	242	250	244	198	202	222	207	226	166	
19	MCH-40	185	225	224	213	200	275	268	262	255	234	225	218	209	217	216	176	
20	APSA-91	178	213	205	204	182	278	245	274	235	224	222	212	182	205	202	158	
21	GK-3060	202	199	201	207	188	288	245	277	232	227	198	207	182	196	203	178	
22	GK-3074	188	200	184	197	182	273	216	272	217	214	212	191	192	198	193	174	
23	GK-3076	198	233	230	218	205	288	244	265	230	235	218	206	212	212	216	185	
24	LAXMIGOLLE	200	232	231	213	198	303	265	265	263	241	228	213	198	213	218	175	
25	LAXMI405	172	237	213	200	180	270	229	239	217	217	200	208	175	194	198	154	
26	LAXMI288	199	201	217	201	195	263	256	258	233	225	205	210	193	203	203	177	
27	BISCO-74	188	204	217	207	192	283	260	255	235	227	203	204	203	204	206	170	
28	BISCO-574	190	217	193	203	189	270	244	268	253	225	208	220	183	204	227	169	
29	PAC-799	197	196	207	213	206	303	254	238	248	229	235	212	210	219	208	172	
30	BIO-265	191	230	243	211	200	305	278	287	243	243	212	208	207	209	220	179	
31	NMH-731	194	237	230	217	193	298	255	256	258	237	220	216	220	219	219	172	
32	NMH-920	206	231	225	212	195	282	254	265	262	237	220	218	208	215	210	153	

TABLE NO. 1 (CONTD.)

SI NO	PEDIGREE	PLANT HEIGHT CM														OV'L	
		ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean	Mean	GODH
33	NMH-958	195	230	217	197	187	287	251	256	208	225	215	213	196	208	209	171
34	AMAR6669	208	222	213	219	191	308	263	226	232	231	222	214	198	211	209	160
35	OM7878	187	228	217	209	187	268	259	245	260	229	223	194	189	202	210	173
36	JKMH-8033	181	230	220	209	193	293	267	266	232	232	222	205	182	203	211	179
37	JKMH-7005	190	218	214	201	190	287	237	229	232	222	210	211	194	205	200	170
38	PRO-377	199	207	223	215	194	300	255	253	257	234	223	203	205	211	223	185
39	PRO-373	200	206	221	198	191	265	232	233	243	221	220	212	200	211	202	178
40	NK-6245	181	208	208	202	184	310	257	223	237	223	213	211	200	208	204	157
41	NK-6267	193	250	221	210	207	320	261	245	255	240	213	205	199	206	219	178
42	NK-6607	191	230	218	212	209	315	272	284	255	243	217	213	199	210	214	176
43	NK-6617	190	230	214	199	189	295	244	273	207	227	207	214	201	207	208	171
44	KMH-3670	212	223	221	203	203	317	268	254	267	241	230	207	208	215	218	174
45	KMH-548	195	225	201	201	180	262	260	217	217	218	217	217	190	208	203	175
46	X7A303	214	243	209	218	225	322	295	246	285	251	245	205	228	226	227	190
47	X9B562	216	250	250	225	226	312	293	214	268	250	235	205	229	223	229	187
48	KH-404	180	207	217	205	179	280	218	230	225	216	202	194	187	194	199	165
49	MAIZEPOLO	197	183	210	200	185	270	231	241	240	217	220	214	183	206	199	162
50	C.-1950	205	240	234	217	191	310	265	265	247	242	230	201	200	210	214	179
51	C.-1945	189	205	211	211	174	260	226	263	228	219	218	201	195	205	203	174
52	KF-105	192	238	223	214	202	308	255	268	253	239	218	209	212	213	214	182
CHECKS																	
53	BIO-9681	175	170	208	196	189	287	243	247	227	216	185	212	202	200	198	153
54	SEEDTEC-2324	196	203	210	201	173	312	225	224	242	221	210	208	195	204	205	167
55	HOPM-1	174	207	214	207	174	280	222	227	218	214	205	214	182	200	198	158
56	HOPM-7	189	202	225	213	189	298	266	254	253	232	220	206	202	209	211	173
	Loc. Mean	191	220	216	207	191	287	250	253	241	228	214	208	199	207	209	171
	C.D. (5%)	12.0	18.0	8.0	19.0	6.0	30.0	23.0	11.0	14.0	12.0	14.0	7.0	18.0	16.0	13.0	28.7
	C.D. (1%)	16.0	24.0	10.0	26.0	8.0	39.0	30.0	15.0	19.0	15.0	19.0	10.0	24.0	21.0	17.0	
	C.V. (%)	4.01	5.03	2.17	5.81	2.05	6.43	5.65	2.70	3.60	5.47	4.15	2.16	5.54	4.80	10.9	10.4
	F (Prob.)	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.55

TABLE NO. 1 (CONTD.)

SI No	EAR HEIGHT CM										Zone Mean		Zone Mean		
	BAJA	BARA	KANG	DELH	KARN	LUDH	PANT	KANP	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	Zone Mean
1	85	62	103	103	83	109	102	92	121	90	71	100	106	97	97
2	60	68	102	77	56	83	103	69	83	68	61	100	87	80	80
3	85	68	102	85	81	111	112	98	104	90	70	110	109	96	96
4	92	71	139	101	64	113	103	77	100	72	70	90	83	83	83
5	78	80	107	88	77	92	97	107	98	73	72	55	98	79	79
6	77	70	106	84	77	93	107	79	85	74	74	85	111	88	88
7	98	54	134	95	74	126	120	82	107	101	93	110	116	105	105
8	81	84	107	90	81	91	95	84	85	72	63	55	90	73	73
9	67	74	98	80	72	78	97	94	86	61	55	70	97	74	74
10	83	78	135	99	87	127	115	84	105	87	79	100	109	96	96
11	83	66	109	86	87	97	107	87	101	76	63	95	101	87	87
12	83	76	119	93	78	105	107	104	107	66	65	80	108	85	85
13	76	68	90	78	69	88	100	106	101	66	58	70	91	77	77
14	67	63	115	82	67	101	110	105	128	82	73	95	95	95	95
15	81	65	137	94	72	103	95	97	98	64	68	70	97	79	79
16	81	62	133	92	62	101	103	73	98	84	63	80	89	83	83
17	75	75	92	81	78	78	87	93	93	81	51	55	85	73	73
18	89	66	102	85	64	110	105	81	104	87	73	105	99	94	94
19	90	60	123	91	92	106	105	106	85	77	68	65	99	79	79
20	83	68	102	84	68	109	117	79	101	77	70	70	101	84	84
21	76	71	117	88	67	100	103	100	129	74	62	85	79	86	86
22	62	78	97	79	68	75	93	102	90	55	44	70	82	68	68
23	75	69	102	82	74	104	108	85	103	71	64	105	97	88	88
24	84	68	124	92	73	106	107	85	98	85	77	90	98	90	90
25	83	73	115	90	68	114	105	81	95	82	70	120	96	93	93
26	88	66	115	90	82	111	113	78	100	84	64	85	97	86	86
27	86	79	98	88	71	107	103	102	109	75	75	80	97	87	87
28	81	71	100	84	57	84	93	105	105	60	60	100	99	85	85
29	90	65	104	86	62	95	117	97	103	71	65	85	88	82	82
30	98	52	122	91	82	111	107	101	96	81	71	50	90	78	78
31	81	78	102	87	69	102	112	96	104	81	72	95	90	89	89
32	85	69	98	84	80	92	110	74	104	81	59	90	98	86	86

TABLE NO. 1 (CONTD.)

SI	NO PEDIGREE	EAR HEIGHT CM											Zone Mean		Zone Mean		
		BAJA	BARA	KANG	DELH	KARN	LUDH	PANT	KANP	BAHR	DHOL	JASH	VARA	AMBI	AMBI	Zone Mean	Zone Mean
33	NMH-958	79	70	114	88	82	64	104	113	102	93	133	76	69	90	93	92
34	AMAR6669	89	67	106	87	90	69	108	113	90	94	97	78	65	95	93	86
35	OM7878	83	68	112	88	103	81	103	108	85	96	110	85	71	80	94	88
36	JKMH-8033	69	95	110	91	90	78	94	98	95	91	89	64	63	80	89	77
37	JKMH-7005	79	73	98	83	88	69	115	107	100	96	86	89	69	95	99	88
38	PRO-377	81	69	100	83	90	74	111	103	82	92	110	76	75	95	85	88
39	PRO-378	74	65	103	81	91	68	99	108	77	89	105	85	70	80	95	87
40	NK-6246	73	69	102	81	84	62	99	97	89	86	101	75	56	85	88	81
41	NK-6267	102	70	132	101	100	77	120	113	92	101	109	83	90	120	107	102
42	NK-6607	65	72	108	82	82	70	86	97	103	87	97	67	51	65	85	73
43	NK-6617	68	67	97	77	83	68	82	110	90	87	94	68	63	65	84	75
44	KMH-3670	82	66	100	83	76	71	90	100	94	86	95	73	64	70	103	81
45	KMH-548	82	72	113	89	89	70	104	110	104	95	101	69	67	70	90	79
46	X7A303	110	74	103	96	105	74	111	115	80	97	112	89	70	95	119	97
47	X8B562	95	80	146	107	76	91	130	123	90	102	110	90	85	85	116	97
48	KH-404	89	62	133	95	98	72	104	110	101	97	107	85	64	115	99	94
49	MAIZEPOLO	94	64	103	87	98	75	107	107	77	93	94	79	72	75	90	82
50	C.-1950	87	66	106	86	90	62	88	108	95	89	99	77	56	65	81	76
51	C.-1945	84	74	107	88	91	83	101	105	100	96	86	76	69	105	95	86
52	KF-105	69	73	109	84	94	64	96	103	83	88	104	75	60	70	84	79
CHECKS																	
53	BIO-9681	68	74	96	79	76	71	77	87	93	81	97	68	52	95	79	78
54	SEEDTEC-2324	105	68	129	101	94	85	108	105	101	99	103	89	75	80	104	90
55	HOPM-1	73	69	120	87	75	61	92	115	100	89	127	66	54	90	89	85
56	HOPM-7	69	69	102	80	83	69	93	113	88	90	104	81	59	65	95	81
	Loc. Mean	82	70	111	87	90	73	101	106	91	92	102	77	67	85	95	85
	C.D. (5%)	12.0	21.0	22.0	16.0	21.0	11.0	14.0	20.0	12.0	11.0	29.0	16.0	6.0	-	17.0	12.0
	C.D. (1%)	15.0	27.0	29.0	22.0	28.0	15.0	19.0	27.0	15.0	15.0	39.0	21.0	7.0	-	23.0	15.0
	C.V. (%)	8.8	18.3	12.1	11.6	14.6	9.6	8.7	11.9	7.9	9.7	17.8	12.9	5.1	-	11.3	10.9
	F (Prob.)	0.00	0.70	0.00	0.16	0.02	0.00	0.00	0.30	0.00	0.00	0.40	0.00	0.00	-	0.00	0.00

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	EAR HEIGHT CM												Zone		OV'L	
		ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	Zone	CHHI	BANS	UDAI	UDAI	Mean
1	KNMH-40901	110	121	101	97	123	138	151	148	112	122	85	101	98	105	95	
2	KNMH-40902	79	83	77	96	101	128	107	135	100	101	105	94	96	88	66	
3	KNMH-40903	110	100	90	118	126	147	129	136	110	118	103	103	109	105	90	
4	KNMH-40904	112	114	90	115	125	137	132	131	100	117	122	96	109	102	89	
5	CMH08-154	99	98	89	97	102	143	132	125	107	110	108	97	100	97	69	
6	CMH08-156	97	102	84	108	107	127	126	112	102	107	118	94	106	97	79	
7	CMH08-282	119	117	112	121	116	145	161	139	122	128	117	102	122	113	86	
8	HKH-406	105	92	79	98	99	145	131	123	103	108	105	106	104	95	82	
9	HKH-407	92	83	93	88	96	115	115	135	98	102	92	106	85	94	66	
10	JH-12108	122	109	106	110	119	133	148	123	110	120	120	102	111	111	108	87
11	JH-12114	107	102	97	103	104	128	118	130	120	112	100	91	103	99	83	
12	IDX-2901	95	103	83	104	118	143	127	140	113	114	108	87	116	104	80	
13	BMH-107	92	97	90	99	97	138	121	142	108	109	100	95	88	94	71	
14	BMH-109	109	95	90	102	111	125	120	130	108	110	98	103	102	101	99	77
15	VMH-2000	89	85	85	102	102	127	127	144	103	107	97	106	102	102	96	74
16	JCY2-7xHKI163-1	99	89	90	107	113	145	133	147	115	115	112	102	103	105	100	80
17	HKI1126xHKI163-1	85	79	86	93	105	127	114	125	103	102	95	110	100	90	65	
18	MCH-39	110	83	92	113	112	130	126	130	117	113	103	106	110	106	73	
19	MCH-40	99	90	89	106	116	133	135	137	108	113	110	108	98	100	79	
20	APSA-91	91	91	90	98	113	140	136	143	108	112	112	104	99	105	99	83
21	GK-3060	111	92	82	107	118	135	132	146	98	113	103	102	96	100	77	
22	GK-3074	96	73	89	98	98	118	103	147	90	101	100	97	81	92	87	85
23	GK-3076	105	95	90	115	103	138	120	136	100	111	105	107	107	107	99	83
24	LAXMIGOLD	110	108	101	115	112	140	144	133	117	120	135	97	114	115	104	88
25	LAXMI405	92	100	99	107	113	120	139	120	93	109	112	104	100	105	100	78
26	LAXMI288	108	98	94	101	119	125	141	140	93	113	98	107	108	104	101	85
27	BISCO-74	111	91	97	105	117	148	141	140	108	118	103	105	102	103	102	85
28	BISCO-574	94	82	75	100	109	117	129	142	113	107	102	113	84	99	94	77
29	PAC-799	107	73	91	117	122	148	141	120	100	113	130	105	103	113	99	84
30	BIO-265	98	94	94	101	111	137	136	164	110	116	108	100	110	106	101	87
31	NMH-731	108	100	89	117	113	140	127	125	100	113	112	110	106	109	101	80
32	NMH-920	116	81	85	119	113	135	132	137	108	114	115	109	103	109	99	72

TABLE NO. 1 (CONTD.)

SI	NO PEDIGREE	EAR HEIGHT CM											Zone Mean	CHHI	Zone Mean	OV'L Mean	GODH		
		ARBH	HYDE	KARI	MAND	COIM	BANG JKAG	BANG BAYE	BANG GANG	HYDE BIOS	Zone Mean	UDAI						BANS	
33	NMH-958	102	103	89	98	102	132	131	131	100	110	100	108	101	103	99	81		
34	AMAR6669	115	96	93	121	117	133	136	122	108	116	110	107	106	108	101	84		
35	OM7878	104	97	95	123	113	125	145	122	115	115	122	97	104	108	102	82		
36	JKMH-8033	89	87	91	102	99	137	132	125	97	106	107	102	89	99	95	84		
37	JKMH-7005	103	88	97	107	106	133	137	126	105	111	105	105	105	105	99	82		
38	PRO-377	105	88	95	115	113	130	135	136	113	115	112	101	98	104	100	85		
39	PRO-378	102	99	91	95	113	127	121	127	107	109	110	100	90	100	96	73		
40	NK-6246	93	85	81	96	107	137	130	109	103	104	110	102	100	104	93	68		
41	NK-6267	113	132	95	104	128	155	140	129	127	125	98	110	125	111	111	88		
42	NK-6607	92	70	80	101	101	132	118	144	107	105	110	99	83	97	91	71		
43	NK-6617	90	74	82	92	114	140	112	151	92	105	90	111	85	96	91	74		
44	KMH-3670	116	79	93	105	116	163	124	135	108	115	105	95	108	102	97	79		
45	KMH-548	107	96	88	102	102	130	129	115	93	107	108	104	101	104	97	86		
46	X7A303	117	100	100	119	133	160	154	129	125	126	135	100	125	120	110	94		
47	X8B562	120	113	111	121	136	148	157	123	123	128	128	103	124	119	113	90		
48	KH-404	101	83	101	114	117	133	126	112	105	110	105	86	103	98	101	80		
49	MAIZEFOLLO	106	82	96	101	114	125	129	125	122	111	108	103	106	106	98	83		
50	C.-1950	110	77	91	105	91	132	123	145	108	109	110	103	87	100	94	77		
51	C.-1945	104	89	95	108	107	128	122	118	105	108	122	98	96	105	99	83		
52	KF-105	105	95	95	111	111	135	113	131	102	111	108	108	103	106	96	78		
CHECKS																			
53	BIO-9681	82	63	69	97	98	118	110	130	90	95	65	102	83	84	86	62		
54	SEEDTEC-2324	110	87	88	106	108	153	125	113	117	112	105	99	103	102	102	80		
55	HQPM-1	88	76	81	104	99	133	107	115	93	100	103	108	94	102	93	64		
56	HQPM-7	90	92	92	112	115	147	138	145	107	115	103	100	109	104	98	79		
Loc. Mean																			
C.D. (5%)																			
C.D. (1%)																			
C.V. (8%)																			
F (Prob.)																			
		0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.60		
		6.3	8.8	5.3	10.8	1.9	5.6	8.0	4.6	5.3	7.5	6.3	3.6	8.3	8.7	9.0	16.8		
		14.0	17.0	10.0	24.0	4.0	25.0	22.0	13.0	12.0	10.0	14.0	8.0	18.0	19.0	6.0			
		10.0	13.0	8.0	18.0	3.0	19.0	17.0	10.0	9.0	8.0	11.0	6.0	14.0	15.0	5.0	21.7		

TABLE NO. 1 (CONTD.)

SI	NO PEDIGREE	GRAIN SHELLING %										Zone		
		BAJA	BARA	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	JASH	VARA	AMBI
1	KNMH-40901	80.0	75.3	77.7	82.3	82.2	76.5	87.2	73.5	80.3	77.6	81.0	83.9	79.9
2	KNMH-40902	87.1	78.3	82.7	83.3	87.9	77.8	85.7	74.0	81.7	75.9	77.0	83.5	78.5
3	KNMH-40903	82.1	80.3	81.2	82.0	88.9	78.6	84.6	71.0	81.0	76.5	81.0	85.7	80.2
4	KNMH-40904	79.5	75.0	77.3	80.8	85.0	73.9	87.2	73.0	80.0	75.3	77.0	83.7	78.1
5	CMH08-154	79.4	79.3	79.4	86.5	81.0	80.0	86.6	78.0	82.4	75.6	82.0	85.8	80.9
6	CMH08-156	79.6	78.0	78.8	85.0	86.0	81.6	86.3	73.5	82.5	79.1	82.0	85.7	81.6
7	CMH08-282	79.6	82.7	81.1	84.8	82.7	77.3	87.2	72.0	80.8	77.5	80.0	84.7	80.3
8	HKH-406	79.9	81.3	80.6	81.3	85.0	75.5	85.7	74.0	80.3	78.9	82.0	83.9	80.5
9	HKH-407	82.3	81.0	81.6	80.0	80.0	77.0	86.6	72.0	79.1	80.6	82.0	82.9	80.5
10	JH-12108	83.2	81.7	82.4	82.5	80.0	80.7	87.2	74.0	80.9	79.5	82.0	87.0	81.9
11	JH-12114	79.9	82.0	80.9	85.9	84.4	78.9	86.2	74.0	81.9	78.6	82.0	84.7	81.2
12	IDX-2901	81.9	78.3	80.1	84.9	81.3	80.3	84.6	72.0	80.6	81.1	80.6	86.4	82.0
13	EMH-107	83.5	75.0	79.3	87.2	83.5	81.3	87.2	70.0	81.8	79.8	82.0	83.1	81.2
14	BMH-109	80.1	83.3	81.7	84.0	74.7	79.0	85.7	73.0	79.3	79.1	80.5	86.3	82.0
15	VMH-2000	80.2	77.3	78.8	80.4	88.0	77.8	85.7	74.5	81.3	79.4	79.0	83.1	80.4
16	JCY2-7xHKI163-1	81.9	75.7	78.8	81.2	84.6	77.4	85.7	75.0	80.8	74.8	79.0	83.5	78.8
17	HKI1126xHKI163-1	77.6	82.7	80.1	80.0	81.3	72.8	86.8	74.0	79.0	78.0	80.0	85.6	80.1
18	MCH-39	83.0	80.3	81.6	82.4	86.0	75.6	87.8	75.0	81.4	76.1	80.2	83.7	79.5
19	MCH-40	81.1	74.7	77.9	84.5	88.0	76.1	87.2	74.0	81.9	78.5	78.0	85.4	80.0
20	APSA-91	79.2	79.7	79.4	84.3	81.2	77.2	83.3	74.5	80.1	79.3	80.0	84.7	81.1
21	GK-3060	79.8	80.3	80.1	85.3	83.5	78.9	86.6	71.0	81.1	70.2	82.0	84.4	78.5
22	GK-3074	85.6	75.7	80.6	84.1	77.8	82.2	86.3	73.5	80.8	81.5	82.0	84.6	81.7
23	GK-3076	81.3	81.3	81.3	85.7	83.9	76.1	87.2	73.0	81.2	75.1	75.0	85.3	78.8
24	LAXMIGOLD	77.3	81.3	79.3	85.0	86.0	73.2	87.8	72.0	80.8	71.7	77.7	83.1	76.9
25	LAXMI405	82.6	76.0	79.3	86.6	85.0	78.6	85.7	74.0	82.0	78.4	79.0	85.6	80.1
26	LAXMI288	82.6	73.3	78.0	83.8	78.9	75.3	87.2	72.0	79.4	76.6	76.0	84.0	78.2
27	BISCO-74	81.9	81.3	81.6	84.3	86.4	76.7	86.6	74.0	81.6	80.0	79.0	84.1	80.7
28	BISCO-574	79.1	75.7	77.4	79.0	80.2	80.0	75.0	71.0	77.0	76.5	80.0	83.2	79.2
29	PAC-799	82.0	76.0	79.0	81.1	80.0	77.0	87.2	73.5	79.8	79.0	81.0	82.8	79.8
30	BIO-265	83.9	78.0	80.9	83.3	85.6	76.6	87.2	71.0	80.7	78.5	79.0	84.1	80.1
31	NMH-731	88.4	84.0	86.2	87.8	81.3	78.9	87.1	74.0	81.8	77.1	82.0	85.6	80.7
32	NMH-920	80.0	78.7	79.3	82.4	83.9	77.5	85.7	71.0	80.1	77.2	75.0	85.6	79.0

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	GRAIN SHELLING %										Zone			
		BAJA	BARA	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	JASH	VARA	AMBI	Zone Mean
33	NMH-958	81.4	77.3	79.4	82.5	83.6	74.5	87.8	76.5	81.0	76.2	78.3	82.0	86.6	80.8
34	AMAR6669	80.8	74.3	77.5	84.8	83.3	75.6	83.3	74.0	80.2	74.2	76.1	79.0	84.1	78.3
35	OM787E	80.3	81.3	80.8	86.3	78.9	74.3	85.7	71.0	79.2	75.2	79.5	79.0	86.4	80.0
36	JKMH-6033	79.7	80.7	80.2	87.6	86.9	80.9	87.2	72.5	83.0	74.6	78.6	81.0	87.7	80.5
37	JKMH-7005	79.6	78.0	78.8	84.6	82.4	71.9	87.2	78.0	80.8	81.3	79.4	78.0	84.5	80.8
38	PRO-377	79.3	76.3	77.8	88.1	82.3	78.4	80.0	75.0	80.8	77.1	78.9	78.0	87.1	80.3
39	PRO-378	80.2	82.0	81.1	83.6	80.0	77.5	81.3	72.0	78.9	75.8	77.2	76.0	81.6	77.6
40	NK-6246	79.2	77.3	78.3	83.4	84.0	81.5	85.7	73.0	81.5	74.1	79.0	81.0	85.9	80.0
41	NK-6267	83.0	79.7	81.3	84.1	87.4	76.2	82.2	72.5	80.5	74.5	77.5	75.0	86.8	78.4
42	NK-66C7	80.0	79.3	79.7	85.0	87.0	80.1	87.8	78.0	83.6	81.6	80.4	80.0	85.2	81.8
43	NK-6617	79.0	80.3	79.7	83.3	80.0	79.0	86.6	75.0	80.8	74.4	77.0	77.0	83.8	78.0
44	KMH-3670	77.8	80.7	79.3	85.5	82.6	76.7	87.2	72.0	80.8	74.3	79.7	79.0	86.6	79.9
45	KMH-548	78.7	73.7	76.2	83.1	84.5	78.2	86.6	72.0	80.9	81.0	78.2	82.0	82.8	81.0
46	X7A303	83.1	75.7	79.4	86.9	88.7	80.1	87.2	71.0	82.8	82.7	79.7	82.0	87.0	82.9
47	X8B562	84.3	79.3	81.8	85.3	84.8	78.7	87.8	73.5	82.0	78.5	79.9	79.0	86.1	80.9
48	KH-404	81.1	79.7	80.4	81.0	73.2	79.0	85.7	72.0	78.2	81.3	76.3	76.0	87.5	80.3
49	MAIZEPOL0	79.3	71.7	75.5	84.9	86.4	75.9	87.2	73.0	81.5	76.5	78.5	81.0	84.6	80.2
50	C.-1950	78.7	74.3	76.5	84.6	77.7	77.4	87.8	70.0	79.5	75.5	79.0	77.0	82.5	78.5
51	C.-1945	79.8	77.7	78.7	83.6	82.3	72.9	86.3	75.0	80.0	75.8	78.4	78.0	85.1	79.3
52	KF-105	81.4	74.7	78.0	85.7	81.3	80.3	87.8	74.0	81.8	80.2	81.4	81.0	85.9	82.1
CHECKS															
53	BIO-9681	80.9	80.0	80.5	80.9	87.1	78.8	87.5	74.0	81.7	78.1	76.2	77.0	82.5	78.4
54	SEEDTEC-2324	78.7	80.7	79.7	84.3	82.3	77.7	85.7	74.0	80.8	78.7	77.4	79.0	86.0	80.3
55	HQPM-1	80.0	72.7	76.3	84.2	85.4	78.5	86.6	74.5	81.8	79.7	78.1	78.0	84.4	80.0
56	HQPM-7	80.2	77.7	78.9	80.1	72.3	76.0	85.7	73.0	77.4	75.0	78.0	77.0	81.4	77.9
	Loc. Mean	80.9	78.4	79.6	83.8	83.0	77.6	86.0	73.3	80.8	77.5	78.5	79.3	84.8	80.0
	C.D. (5%)	-	7.0	5.2	2.4	-	4.0	0.0	0.9	3.0	2.3	0.0	-	3.7	2.4
	C.D. (1%)	-	9.2	6.9	3.2	-	5.3	0.0	1.1	4.0	3.1	0.0	-	4.9	3.2
	C.V. (%)	-	5.5	3.3	1.8	-	3.2	0.0	0.7	3.0	1.9	0.0	-	2.7	2.2
	F (Prob.)	0.00	0.06	0.45	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	-	0.10	0.00

TABLE NO. 1 (CONTD.)

GRAIN SHELLING %

SI No	PEDIGREE	ARBH	HYDE	KARI	MAND	COIM	HYDE BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L		GODR
													Mean	Mean	
1	KNMH-40901	81.3	76.1	75.3	84.8	80.9	81.3	80.0	77.0	73.5	80.0	76.8	79.3	82.9	
2	KNMH-40902	85.5	76.5	78.0	79.0	79.5	80.3	79.8	82.8	65.3	76.0	74.7	79.6	78.7	
3	KNMH-40903	84.3	78.7	74.3	79.6	79.7	81.0	79.6	82.8	71.5	79.6	78.0	80.0	77.6	
4	KNMH-40904	82.9	79.3	79.0	80.1	77.1	80.3	79.8	78.5	66.9	81.2	75.5	78.6	81.4	
5	CMH08-154	85.6	80.8	73.7	84.9	78.7	81.3	80.8	80.8	70.6	79.1	76.8	80.5	79.0	
6	CMH08-156	83.0	77.9	81.3	84.0	81.4	80.0	81.3	82.2	66.1	85.2	77.8	80.9	81.0	
7	CMH08-282	83.6	79.7	75.7	83.1	78.5	80.0	80.1	80.0	69.8	82.3	77.3	80.0	70.0	
8	HKH-406	84.9	78.2	77.7	79.6	80.3	80.7	80.2	78.5	73.3	82.2	78.0	80.0	79.5	
9	HKH-407	84.8	78.7	78.3	78.0	75.3	80.3	79.2	76.6	64.9	84.8	75.4	79.1	80.5	
10	JH-12108	82.9	78.2	80.7	84.0	79.2	80.0	80.8	78.4	68.6	84.4	77.1	80.7	78.9	
11	JH-12114	83.6	78.5	70.7	84.4	81.5	80.7	79.9	82.3	70.0	79.0	77.1	80.3	80.0	
12	IDX-2901	85.4	79.1	74.3	83.1	80.7	80.0	80.4	77.9	75.5	88.3	80.6	80.8	74.0	
13	BMH-107	88.1	77.7	74.7	85.6	83.4	80.0	81.6	80.1	74.2	81.4	78.5	80.9	78.2	
14	BMH-109	82.4	78.1	74.3	82.6	81.0	80.7	79.9	80.9	69.1	86.6	78.9	80.2	79.3	
15	VMH-2000	85.5	78.8	83.0	80.4	81.4	80.0	81.5	77.5	72.4	82.0	77.3	80.3	77.2	
16	JCY2-7xHK1163-1	82.8	75.8	74.3	82.9	76.5	80.0	78.7	78.6	69.2	81.4	76.4	78.9	79.0	
17	HK1126xHK1163-1	82.9	77.6	71.7	85.8	78.9	81.0	79.6	78.3	71.3	84.7	78.1	79.4	80.7	
18	MCH-39	86.4	77.6	80.3	83.3	78.2	80.0	81.0	75.9	77.3	81.2	78.1	80.4	79.9	
19	MCH-40	82.0	77.1	79.3	83.0	78.7	80.3	80.1	79.8	73.3	80.4	77.8	80.0	79.4	
20	AFSA-91	83.3	83.8	81.7	83.4	80.3	80.0	82.1	79.6	67.2	91.0	79.3	80.7	78.9	
21	GK-3060	82.3	78.5	80.0	86.1	80.4	80.0	81.2	81.4	73.2	91.7	82.1	80.7	79.8	
22	GK-3074	87.5	80.5	74.3	86.0	83.3	81.0	82.1	83.9	75.2	86.3	81.8	81.5	81.0	
23	GK-3076	85.5	77.6	79.0	69.6	77.4	80.0	78.2	79.6	71.5	88.5	79.9	79.6	80.5	
24	LAXMIGOLD	85.2	75.2	77.3	84.3	79.3	80.0	80.2	76.5	76.4	85.7	79.5	79.5	81.0	
25	LAXMI405	84.7	74.1	67.7	82.2	79.1	81.0	78.1	80.4	73.2	83.0	78.9	79.7	78.3	
26	LAXMI288	84.7	79.7	72.0	81.6	77.4	80.0	79.2	79.9	65.8	87.8	77.8	78.7	80.4	
27	BISCO-74	83.9	80.4	77.3	79.5	79.7	80.7	80.3	78.4	69.2	82.8	76.8	80.3	80.3	
28	BISCO-574	86.2	76.0	72.3	79.2	77.8	80.0	78.6	78.9	70.2	81.0	76.7	77.9	78.8	
29	PAC-799	79.1	79.6	77.0	85.2	80.5	80.0	80.2	75.8	73.6	84.0	77.8	79.5	78.3	
30	BIO-265	83.4	81.6	81.0	81.1	78.6	80.0	80.9	80.1	70.4	73.0	74.5	79.8	80.0	
31	NMH-731	83.2	78.6	73.0	82.9	80.0	80.3	79.6	76.2	74.4	80.6	77.1	80.7	74.6	
32	NMH-920	85.3	78.4	71.3	79.1	76.9	80.0	78.5	78.6	72.8	73.3	74.9	78.5	79.0	

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	GRAIN SHELLING %											OV'L		GODH	
		ARBH	HYDE	KARI	MAND	COIM	BIOS	Zone Mean	UDAI	BANS	CHHI	Zone Mean	Mean			
33	NMH-958	83.7	77.7	78.0	81.8	78.5	80.0	79.9	77.7	75.2	81.2	78.0	80.0	75.1		
34	AMAR6669	84.1	77.4	74.7	79.5	83.2	80.7	79.9	82.6	71.2	81.1	78.3	79.2	80.9		
35	OM7878	85.3	78.2	72.3	83.6	81.6	80.0	80.2	76.6	72.7	88.1	79.1	79.8	81.4		
36	JKMH-8033	83.6	80.0	79.0	80.7	85.5	81.0	81.6	81.5	73.3	83.7	79.5	81.3	78.1		
37	JKMH-7005	84.8	78.7	74.0	83.1	77.3	80.7	79.7	79.8	63.3	81.6	74.9	79.4	75.0		
38	PRO-377	84.5	78.1	74.0	76.4	78.3	80.7	78.7	83.2	71.5	81.0	78.6	79.4	78.9		
39	PRO-378	85.0	80.3	75.0	79.2	74.5	80.0	79.0	81.6	69.7	84.2	78.5	78.8	79.5		
40	NK-6246	79.4	77.9	76.3	78.0	78.0	80.0	78.3	80.5	69.2	88.2	79.3	79.6	76.8		
41	NK-6267	85.4	78.3	78.3	79.9	78.4	80.0	80.0	76.0	72.2	83.4	77.2	79.5	80.9		
42	NK-6607	84.0	80.1	75.0	82.5	81.1	80.3	80.5	85.1	72.8	89.0	82.3	81.7	73.8		
43	NK-6617	82.9	78.0	72.3	81.1	78.0	80.0	78.7	79.8	66.6	84.9	77.1	79.0	79.5		
44	KMH-3670	83.6	79.3	77.0	84.1	80.6	80.7	80.9	77.9	71.8	81.9	77.2	79.9	80.0		
45	KMH-548	82.7	78.5	75.0	79.8	81.2	81.0	79.7	75.6	71.9	82.9	76.8	79.5	79.4		
46	X7A303	83.1	79.9	73.3	85.6	81.6	80.0	80.6	80.4	68.6	84.7	77.9	81.1	79.5		
47	X8B562	81.0	79.8	73.7	79.9	82.1	80.0	79.4	79.7	67.0	81.7	76.1	80.1	79.7		
48	KH-404	85.0	80.8	76.3	81.8	83.3	80.0	81.2	78.7	75.6	80.6	78.3	79.7	78.9		
49	MAIZEPOLJ	83.2	80.6	73.3	80.0	82.3	81.3	80.1	80.6	79.3	85.9	81.9	80.3	71.1		
50	C.-1950	86.9	80.6	76.3	82.5	82.9	80.0	81.5	78.3	68.0	80.8	75.7	79.0	80.1		
51	C.-1945	82.4	80.6	74.3	84.4	78.5	80.0	80.0	77.4	80.0	82.9	80.1	79.8	79.2		
52	KF-105	86.0	81.1	72.7	77.2	80.0	80.7	79.6	79.6	76.6	81.5	79.2	80.4	77.9		
CHECKS																
53	BIO-9681	83.3	78.9	72.7	83.5	78.1	80.0	79.4	76.2	68.3	84.0	76.1	79.4	80.3		
54	SEEDTEC-2324	84.5	77.6	73.3	80.6	79.5	80.0	79.2	78.4	71.3	77.9	75.8	79.4	78.7		
55	HQPM-1	84.5	76.9	77.7	81.6	79.6	80.0	80.0	79.9	66.9	88.6	78.5	79.9	82.6		
56	HQPM-7	84.0	76.7	73.7	79.2	78.2	80.0	78.6	77.4	71.7	83.7	77.6	78.0	81.4		
	Loc. Mean	84.0	78.6	75.7	81.7	79.7	80.3	80.0	79.3	71.3	83.1	77.9	79.8	78.9		
	C.D. (5%)	-	1.5	4.5	3.5	0.6	0.7	2.5	3.3	2.5	3.3	5.4	1.5	-		
	C.D. (1%)	-	2.0	5.9	4.6	0.8	0.9	3.2	4.4	3.3	4.3	7.1	2.0	-		
	C.V. (%)	-	1.2	3.6	2.6	0.5	0.6	2.7	2.6	2.2	2.4	4.3	3.0	-		
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.00	0.00	0.00	0.69	0.00	0.00		

Table No. 1 (Continued)

SI No	PEDIGREE	STAND AT HARVEST ('000/ha)										Zone			
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA
1	KNMH-40901	83	39	69	64	68	47	76	53	74	64	66	51	53	72
2	KNMH-40902	89	38	64	64	64	50	70	58	76	64	64	51	54	81
3	KNMH-40903	87	37	70	65	64	53	81	62	78	68	65	53	56	78
4	KNMH-40904	84	42	65	64	64	51	76	60	76	66	66	49	53	75
5	CMH08-154	74	45	63	61	60	50	76	61	75	64	69	51	55	81
6	CMH08-156	81	39	73	64	70	49	72	62	78	66	67	48	54	78
7	CMH08-282	75	44	73	64	71	53	72	56	76	66	66	53	55	78
8	HKH-406	81	43	63	62	65	51	72	63	75	65	64	43	51	76
9	HKH-407	79	43	60	61	57	48	78	59	72	63	63	46	52	74
10	JH-12108	79	41	71	63	63	53	71	53	80	64	68	43	48	83
11	JH-12114	82	44	69	65	65	51	73	63	78	66	66	51	57	76
12	IDX-2901	86	43	78	69	71	51	76	62	73	66	71	52	58	76
13	BMH-107	81	45	67	65	73	47	75	64	72	66	65	46	50	79
14	BMH-109	90	38	78	68	68	53	72	61	75	66	67	46	57	73
15	VMH-2000	71	33	51	52	55	48	74	51	69	59	64	43	51	76
16	JCY2-7xHKI163-1	78	44	55	59	45	54	77	61	71	62	64	50	52	77
17	HKI1126xHKI163-1	79	44	69	64	54	49	71	61	74	62	64	50	50	73
18	MCH-39	80	40	65	61	65	49	74	62	74	65	67	51	56	74
19	MCH-40	79	44	74	66	70	50	78	62	76	67	69	51	55	78
20	APSA-91	77	44	56	59	60	52	78	54	76	63	61	49	53	78
21	GK-3060	84	34	62	60	60	51	76	59	72	63	61	49	49	76
22	GK-3074	84	37	66	62	67	51	71	61	78	66	63	47	51	79
23	GK-3076	80	42	64	62	54	52	75	54	78	62	63	45	51	78
24	LAXNIGOLD	79	41	64	61	58	50	73	61	76	64	58	51	52	78
25	LAXNI405	81	37	67	62	65	51	70	63	74	65	65	51	52	77
26	LAXNI288	81	43	62	62	63	54	73	54	73	63	62	53	53	78
27	BISCO-74	79	44	63	62	64	56	73	58	74	65	63	51	57	74
28	BISCO-574	82	40	61	61	66	49	78	61	72	65	60	48	53	76
29	PAC-799	76	36	64	58	68	52	72	57	78	66	63	47	51	74
30	BIO-265	87	38	70	65	64	51	75	60	74	65	65	46	56	74
31	NMH-731	84	46	61	64	58	51	75	58	76	64	65	53	53	76
32	NMH-920	81	42	65	62	61	51	75	62	70	64	67	50	50	79

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	STAND AT HARVEST ('000/ha)											Zone	
		BAJA	BARA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH
33	NMH-958	78	40	67	62	64	48	74	57	71	63	48	55	76
34	AMAR6669	82	35	65	61	63	49	73	59	76	64	47	53	71
35	OM7878	76	41	65	61	63	51	77	57	69	64	50	57	78
36	JKMH-8033	84	40	67	64	74	48	76	62	74	67	44	53	76
37	JKMH-7005	80	39	74	64	65	52	76	60	76	66	49	55	81
38	PRO-377	78	39	72	63	63	53	79	57	73	65	52	56	79
39	PRO-378	86	46	70	67	68	53	78	62	74	67	49	58	81
40	NK-6246	77	40	76	64	66	51	79	59	75	66	51	53	77
41	NK-6267	84	38	63	62	73	51	70	57	74	65	51	53	73
42	NK-6607	76	40	65	60	64	51	73	57	78	65	49	52	76
43	NK-6617	84	43	74	67	73	52	72	61	77	67	50	52	80
44	KMH-3670	79	43	61	61	55	53	76	59	76	64	42	51	72
45	KMH-548	84	45	61	63	60	50	75	60	72	63	49	55	76
46	X7A303	87	42	67	65	67	53	81	61	75	67	51	53	74
47	X8B562	91	32	70	64	68	49	81	64	73	67	49	51	79
48	KH-404	81	44	62	62	70	53	75	56	72	65	49	53	78
49	MAIZEPOLO	82	39	65	62	67	51	72	62	80	66	51	53	74
50	C.-1950	76	39	57	57	57	50	69	59	76	62	48	53	72
51	C.-1945	89	42	67	66	72	49	78	57	76	66	53	50	76
52	KF-105	86	38	72	65	67	51	78	57	78	66	50	51	73
CHECKS														
53	BIO-9681	80	48	69	66	62	49	62	61	74	62	49	53	74
54	SEEDTEC-2324	82	42	65	63	63	51	67	62	74	63	53	56	73
55	HQPM-1	81	38	71	63	69	53	71	61	78	66	60	49	79
56	HQPM-7	75	43	63	60	67	54	74	62	72	66	48	51	76
Loc. Mean		81	41	66	63	64	51	74	59	75	65	49	53	76
C.D. (5%)		10.8	9.8	17.7	7.0	15.1	5.6	6.6	6.8	4.0	4.4	8.3	4.7	6.9
C.V. (%)		8.2	14.9	16.5	6.9	14.6	6.8	5.5	7.1	3.3	5.4	10.4	5.4	5.6
F (Prob.)		0.18	0.57	0.85	0.12	0.31	0.66	0.00	0.02	0.00	0.15	0.82	0.00	0.20

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	STAND AT HARVEST ('000/ha)										Zone Mean	
		AMBI	ARBH	HYDE	KARI	MAND	COIM	BANG POCB	BANG JKAG	BANG BAYE	BANG GANG		HYDE BIOS
1	KNMH-40901	65	47	53	59	62	66	75	67	64	78	69	64
2	KNMH-40902	67	38	52	58	63	66	71	58	61	75	72	62
3	KNMH-40903	71	22	54	59	62	65	77	67	65	77	69	62
4	KNMH-40904	75	36	51	57	68	65	82	60	67	77	69	63
5	CMH08-154	64	51	56	58	60	65	66	65	66	79	77	64
6	CMH08-156	62	49	53	58	61	66	65	64	65	78	69	63
7	CMH08-282	60	58	52	58	64	67	76	66	64	78	69	65
8	HKH-406	51	46	48	59	59	66	67	63	56	78	78	62
9	HKH-407	54	51	53	59	59	66	72	61	61	80	72	63
10	JH-12108	58	56	54	56	61	67	75	67	65	78	71	65
11	JH-12114	62	56	53	58	61	63	56	65	65	80	72	63
12	IDX-2901	69	60	61	58	60	65	81	65	65	80	72	67
13	BMH-107	63	61	59	57	61	65	67	65	66	80	69	64
14	BMH-109	66	62	52	60	63	66	76	67	65	78	67	66
15	VMH-2000	48	58	57	58	63	65	68	59	59	78	69	64
16	JCY2-7xHKI163-1	63	52	53	57	57	65	73	62	63	78	72	63
17	HKI1126xHKI163-1	56	45	52	59	64	66	69	61	65	78	57	62
18	MCH-39	58	45	54	58	59	66	69	62	63	78	72	62
19	MCH-40	66	61	57	57	65	66	73	65	61	80	70	66
20	APSA-91	62	44	55	58	61	66	74	67	64	79	72	64
21	GK-3060	53	58	51	58	63	66	72	66	61	78	69	64
22	GK-3074	62	52	56	59	59	65	60	67	62	78	70	63
23	GK-3076	62	56	54	58	67	66	74	65	66	78	70	65
24	LAXMIGOLD	59	54	54	59	59	67	75	67	62	78	66	64
25	LAXMI405	66	53	53	59	60	67	76	65	63	80	65	64
26	LAXMI288	61	64	54	58	63	66	75	65	66	79	69	66
27	BISCO-74	63	64	47	57	64	66	68	67	64	78	70	64
28	BISCO-574	52	46	56	59	65	65	71	63	62	79	67	63
29	PAC-799	56	54	51	58	58	66	67	65	62	80	72	63
30	BIO-265	58	56	54	58	61	67	74	65	66	79	72	65
31	NMH-731	58	56	52	58	62	66	67	67	65	78	73	64
32	NMH-920	54	51	50	58	63	65	72	65	65	80	65	63

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	STAND AT HARVEST ('000/ha)										Zone Mean	Zone Mean	
		AMBI	Zone Mean	ARBH	HYDE	KARI	MAND	COIM	POCB	BANG JKAG	BANG BAYE			BANG GANG
33	NMH-358	57	61	56	54	58	60	67	74	65	67	78	66	64
34	AMAR5669	62	59	47	57	58	61	67	75	63	65	79	66	64
35	OM7878	63	62	56	53	59	61	66	76	62	64	80	68	64
36	JKMH-8033	59	60	36	56	58	57	65	74	63	65	79	63	61
37	JKMH-7005	63	62	52	53	57	63	65	74	65	65	77	71	64
38	PRO-377	68	64	64	48	60	58	66	70	66	64	78	67	64
39	PRO-378	60	62	58	50	58	61	66	74	63	64	83	69	65
40	NK-6246	64	62	47	56	59	61	66	88	66	66	80	76	65
41	NK-6267	66	63	54	58	58	63	66	75	64	65	80	72	66
42	NK-6507	67	62	48	54	57	59	65	72	65	62	78	67	63
43	NK-6517	68	62	57	53	58	62	67	71	67	65	78	72	65
44	KMH-3670	52	56	54	54	57	63	67	70	67	59	80	66	64
45	KMH-548	63	62	59	47	59	64	66	70	66	64	78	67	64
46	X7A303	64	62	57	47	59	63	66	73	68	65	80	70	65
47	X8B562	69	62	61	57	58	64	66	76	67	64	78	71	66
48	KH-404	57	60	53	51	57	58	65	72	66	65	80	73	64
49	MAIZEPOLO	66	62	58	49	58	64	63	70	65	63	80	77	65
50	C.-1950	61	60	46	49	58	60	67	73	47	59	80	71	61
51	C.-1945	64	62	61	50	59	60	65	77	67	66	80	74	66
52	KF-105	67	61	59	49	52	64	66	74	53	64	79	67	63
CHECKS														
53	BIO-9681	59	60	41	53	58	68	65	71	56	63	78	68	62
54	SEEDTEC-2324	60	61	58	57	57	57	65	75	65	63	78	64	64
55	HQPM-1	67	61	49	54	58	59	67	76	64	62	78	72	64
56	HQPM-7	66	61	61	52	57	59	67	76	65	63	80	65	65
Loc. Mean														
C.D. (5%)														
C.V. (%)														
F (Prob.)														
		9.2	3.8	10.8	6.5	3.7	6.5	2.3	13.3	5.6	4.6	3.2	6.8	3.2
		9.2	4.9	12.7	7.5	3.9	6.5	2.1	11.4	5.4	4.5	2.5	6.0	5.7
		0.00	0.00	0.00	0.01	0.86	0.13	0.48	0.66	0.00	0.01	0.16	0.00	0.16

TABLE NO. 1 (CONTD.)

SI No	PEDIGREE	STAND AT HARVEST ('000/ha)					OV'L	
		UDAI	BANS	CHHI	Zone Mean	Zone Mean	Mean	GODH
1	KNMH-40901	69	60	66	65	64	66	
2	KNMH-40902	72	59	65	65	63	67	
3	KNMH-40903	63	60	68	64	64	71	
4	KNMH-40904	67	59	67	65	64	62	
5	CMH08-154	69	62	67	66	64	63	
6	CMH08-156	62	59	67	62	64	71	
7	CMH08-282	61	61	63	62	64	58	
8	HKH-406	69	59	68	65	62	63	
9	HKH-407	63	60	67	63	62	40	
10	JH-12108	60	60	69	63	63	65	
11	JH-12114	60	59	66	61	63	64	
12	IDX-2901	60	64	67	64	66	67	
13	BMH-107	67	65	63	65	64	55	
14	BMH-109	55	61	61	59	64	70	
15	VMH-2000	56	59	59	58	59	33	
16	JCY2-7xHKI163-1	59	59	67	62	62	64	
17	HKI1126xHKI163-1	53	60	60	58	61	62	
18	MCH-39	60	63	64	62	63	65	
19	MCH-40	61	62	66	63	65	69	
20	APSA-91	63	60	63	62	63	62	
21	GK-3060	55	62	63	60	62	68	
22	GK-3074	59	59	68	62	63	66	
23	GK-3076	61	59	64	61	63	29	
24	LAXMIGOLD	62	60	67	63	63	69	
25	LAXMI405	54	61	66	60	63	54	
26	LAXMI288	58	60	66	62	64	67	
27	BISCO-74	60	62	62	61	63	72	
28	BISCO-574	58	60	66	61	62	62	
29	PAC-799	57	64	68	63	62	56	
30	BIO-265	57	63	63	61	63	69	
31	NMH-731	56	63	65	61	63	68	
32	NMH-920	58	63	64	62	63	58	

TABLE NO. 1 (CONTD.)

S- No	PEDIGREE	STAND AT HARVEST ('000/ha)					OV'L	
		UDAI	BANS	CHHI	Zone Mean	Zone Mean	Mean	GODH
33	NMH-958	59	64	66	63	63	69	
34	AMAR6669	74	63	58	65	63	66	
35	OM7878	53	60	68	60	63	67	
36	JKMH-8033	65	60	68	64	63	70	
37	JKMH-7005	58	61	64	61	64	63	
38	PRO-377	63	62	69	65	64	60	
39	PRO-378	65	60	67	64	65	63	
40	NK-6246	55	60	62	59	64	61	
41	NK-6267	62	60	62	61	64	65	
42	NK-6607	55	64	66	62	63	60	
43	NK-6617	58	61	66	62	65	63	
44	KMH-3670	53	61	67	60	62	61	
45	KMH-548	53	64	65	61	63	67	
46	X7A303	55	58	69	61	64	69	
47	X8B562	58	59	67	61	65	69	
48	KH-404	59	65	65	63	63	64	
49	MAIZEPOLO	52	63	64	60	64	75	
50	C.-1950	44	59	64	56	60	55	
51	C.-1945	56	63	68	62	65	62	
52	KF-105	58	63	69	63	63	71	
CHECKS								
53	BIO-9681	56	61	66	61	62	56	
54	SEEDTEC-2324	58	60	62	60	63	40	
55	HQPM-1	52	61	67	60	63	56	
56	HQPM-7	56	63	65	61	63	54	
Loc. Mean								
C.D. (5%)		6.4	3.3	5.8	5.9	1.9	15.3	
C.V. (%)		6.6	3.4	5.5	5.9	5.6	15.2	
F (Prob.)		0.00	0.00	0.04	0.63	0.00	0.00	

TABLE No. 2
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAJAURA, KANGRA, DMR DELHI, LUDHIANA,
 KARNAL, PANTNAGAR, KANPUR, BAHAURAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, ARBHAVI, HYDERABAD, KARIMNAGAR,
 MANDYA, KOLHAPUR, COIMBATORE, POC BANGALORE, UDAIPUR, BANSWARA, CHHINCIWARA, UDHAMPUR (R), GODHRA (R),
 IN IET, TRIAL No. TR62 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1		ZN 2					
		BAJA	R	KANG	R	MEAN	R	DELH	R	KARN	R	LUDH	R	PANT	R	KANP	R	MEAN	R
1	PLM-21	5032	43	5754	17	5393	40	1741	44	4072	42	3714	41	6414	39	9978	7	5184	41
2	L-183	5668	38	5765	16	5716	34	2842	32	4806	33	3107	44	6262	42	7975	44	4998	43
3	EHL-162308	7585	11	5644	20	6614	9	3038	26	5769	7	4468	33	8730	16	8511	38	6103	26
4	PMSY-3	6666	22	6077	6	6371	17	3321	22	4599	37	5230	21	7721	27	9803	11	6135	24
5	PMSW-4	5635	39	6162	4	5898	29	2322	43	4487	40	3766	40	6383	40	9988	6	5389	40
6	PMSQ-5	6047	31	5576	23	5811	30	2357	41	3668	44	3685	42	5499	44	9407	22	4923	44
7	HKH-308	8646	3	5415	27	7030	3	3745	19	5846	6	4638	32	8641	17	9630	17	6500	16
8	HKH-309	6116	30	5458	25	5787	32	2626	35	3700	43	4033	39	6923	35	8569	37	5170	42
9	HKH-310	7419	14	4993	36	6206	21	3222	24	5035	25	4218	36	8010	25	9308	25	5959	29
10	MALVIYA MAKKA-2	6465	25	6199	2	6332	19	3053	28	5671	9	4653	30	8604	18	9557	18	6304	20
11	HKH-311	6797	21	5728	18	6262	20	3298	23	4459	41	4457	34	7019	33	8819	33	5610	37
12	HKH-312	6952	20	6247	1	6599	10	3035	27	4974	29	5559	14	7166	30	10215	5	6190	22
13	HKH-313	5571	41	5957	9	5764	33	2703	34	5506	14	4789	27	8047	24	9308	24	6071	28
14	EH-1974	7325	15	5616	21	6471	15	2973	31	5443	16	4684	28	6554	37	9200	27	5771	33
15	EH-1986	6165	29	4821	40	5493	38	3005	29	4984	28	4280	35	8301	21	9849	10	6083	27
16	EH-2025	5943	34	5886	14	5914	27	3755	18	5153	22	4845	26	8337	20	8616	36	6141	23
17	VEH-09-1	5948	33	5895	13	5922	26	2447	39	4844	30	3546	43	6930	34	9951	8	5544	39
18	VEH-09-2	8462	4	5532	24	6997	4	5835	6	7039	1	8723	4	8394	19	8112	43	7621	8
19	REH-2101	6421	27	5864	15	6142	22	3347	21	4842	31	5466	18	7116	31	9748	15	6104	25
20	REH-2102	6617	23	5195	29	5906	28	5458	8	5267	20	5893	11	8256	22	9791	12	6941	12
21	REH-2103	7061	18	6100	5	6580	13	3050	25	5243	21	4076	38	6605	36	10340	3	5871	31
22	JH-31314	5632	40	5951	11	5792	31	4434	14	5662	11	5543	15	9362	11	8731	35	6756	15
23	JH-31285	7503	13	5671	19	6587	12	5052	9	5271	19	7761	5	9656	10	9697	16	7487	9
24	JH-31336	5835	35	6169	3	6002	24	3930	17	5461	15	5023	25	9012	13	8425	41	6382	19
25	JH-31292	6991	19	4884	39	5938	25	6443	2	4785	34	9581	1	8192	23	8216	42	7443	10
26	JH-31288	5218	42	5065	33	5141	43	3629	20	5545	13	5810	12	8735	15	8487	40	6441	18
27	AH-97001	5756	37	4743	42	5249	41	2341	42	5071	24	4678	29	6137	43	9759	14	5597	38
28	HK11105xHK1163-1	6456	26	4038	44	5247	42	2480	38	4997	25	5028	24	7201	29	9102	29	5761	34
29	BML7xHK1163-1	6550	24	4816	41	5683	35	4562	13	4811	32	5537	16	7821	26	9509	19	6448	17
30	HK11128xHK1163-1	8117	6	4631	43	6374	16	2759	33	4758	35	5215	22	7079	32	9159	28	5796	32

TABLE No. 2 (Cont..)

S1 NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2					
	BAJA		KANG		MEAN		DELH		KARN		LUDH		PANT		KAMP		MEAN	
	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
31 KMH-218	7714	10	4999	35	6357	18	6285	3	4597	38	7497	8	11017	5	9223	26	7724	7
32 KMH-3426	7948	8	5968	8	6958	5	6953	1	5671	10	6869	9	10585	6	9366	23	7889	6
33 LAXMI306	6282	28	5036	34	5659	36	3002	30	4489	39	5528	17	6517	38	9024	30	5712	35
34 MUKHYA-108	9276	2	5956	10	7616	1	5036	10	6475	2	6686	10	12868	1	9762	13	8165	3
35 SARPUNCH-171	7541	12	5972	7	6756	8	2538	37	5124	23	4639	31	8835	14	9863	9	6200	21
36 KDMH-017	7144	16	5909	12	6526	14	5728	7	5438	17	9004	3	10465	7	9009	31	7929	4
37 NMH-803	731	44	4917	37	2824	44	6035	5	6470	3	5402	20	12691	2	10394	2	8198	2
38 X8B557	9310	1	4909	38	7109	2	6044	4	5404	18	9270	2	11671	3	10284	4	8534	1
39 X8B691	7120	17	5119	31	6120	23	4979	11	6279	4	7635	7	11148	4	9427	20	7894	5
40 MCH-41	7942	9	5248	28	6595	11	4306	15	5684	8	5699	13	9958	9	8488	39	6827	14
41 MCH-42	8420	5	5458	26	6939	6	4114	16	4990	27	7758	6	10425	8	8965	32	7250	11
CHECKS																		
42 NAVJOT	5774	36	5066	32	5420	39	2546	36	4704	36	4192	37	6294	41	10466	1	5640	36
43 BIO-9637	8059	7	5608	22	6834	7	4584	12	6223	5	5085	23	9226	12	9409	21	6925	13
44 HM-9	5985	32	5135	30	5560	37	2435	40	5568	12	5414	19	7366	28	8763	34	5909	30
Location Mean	6724		5481		6102		3811		5202		5515		8367		9323		6444	
Mean Stand	33		25		29		35		31		36		36		35		35	
C.D. (5%)	1392		463		928		1100		874		1087		2247		953		1252	
C.V. (%)	12.76		5.2		-		17.78		10.35		12.14		16.54		6.3		-	
F (Proc)	0		0		-		0		0		0		0		0		-	
Plot Size	4.8		3.6		-		5.6		6		5.46		6		4.8		-	
AGRONOMY DATA																		
Sowing Date	5-07		1-07		-		7-06		2-07		2-07		1-08		14-07		-	
Harvest Date	6-11		14-10		-		10-12		4-10		7-10		18-11		4-11		-	
Irrigation Nos	3		-		-		4		4		6		-		2		-	
Fertilizer Applied N	120		120		-		.50		150		125		120		80		-	
Fertilizer Applied P	60		60		-		75		60		60		60		40		-	
Fertilizer Applied K	40		40		-		75		60		-		40		40		-	

TABLE No. 2 (Cont..)

Sl	No PEDIGFEE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												
		BAHR R	DHOL R	JASH R	VARA R	RANC R	AMBI R	ZN 3 MEAN R	ARBH R	HYDE R				
1	PLM-21	3498 38	2439 44	3014 44	4818 38	5555 43	3718 35	3841 44	5182 41	5672 35				
2	L-183	4370 18	2533 43	3771 37	4680 39	5668 40	3441 40	4077 43	5789 35	4666 43				
3	EHL-162308	5086 4	3791 26	3881 36	3913 44	6035 32	3743 34	4408 38	6913 14	7568 13				
4	PMSY-3	5018 8	3304 36	4348 28	5264 32	5590 42	4087 26	4602 32	6736 17	4865 40				
5	PMSW-4	4614 14	4163 22	4385 27	5106 35	7128 20	3936 30	4889 25	5437 39	4292 44				
6	PMSQ-5	3950 24	4188 21	4582 20	4934 37	7051 21	3985 28	4782 26	6323 24	6765 20				
7	HKH-308	3770 30	3583 33	4316 31	5444 31	5999 35	4346 20	4576 34	6198 26	7925 10				
8	HKH-309	3400 40	3888 25	5168 7	6373 24	6316 30	4250 24	4899 24	6196 27	8167 7				
9	HKH-310	4796 13	3557 34	4889 15	6973 20	5926 36	4616 17	5126 21	7703 7	8204 6				
10	MALVIYA MAKKA-2	4047 22	3175 38	3379 43	6882 21	5639 41	3604 37	4454 37	6636 18	7472 14				
11	HKH-311	3515 37	4534 14	5183 6	4489 43	5344 44	4400 19	4577 33	5743 37	8769 3				
12	HKH-312	3116 43	4060 23	4916 14	5569 29	6012 34	4498 18	4695 30	6138 31	8861 2				
13	HKH-313	6369 1	4534 13	4506 24	6806 23	7708 15	5354 13	5880 12	6789 16	7252 16				
14	EH-1974	4155 21	3091 40	3445 42	5052 36	7482 17	3148 41	4395 39	6617 20	6913 18				
15	EH-1986	3575 36	3317 35	4119 33	5188 34	6192 31	2795 44	4198 41	7636 8	6004 33				
16	EH-2025	3185 42	3752 27	4337 30	5853 27	6779 26	4323 23	4705 29	6826 15	6562 24				
17	VEH-09-1	3978 23	3703 28	4996 12	4502 42	6501 28	3613 36	4549 36	7360 12	6313 28				
18	VEH-09-2	5077 5	5126 5	6387 1	7736 15	6664 27	4090 25	5846 13	6514 21	8141 8				
19	REH-2101	3802 29	4334 18	5913 3	7131 17	7004 22	3541 39	5287 19	5968 33	6667 21				
20	REH-2102	3696 33	4624 12	4642 17	7777 13	7617 16	3600 38	5326 16	6433 22	6141 31				
21	REH-2103	3588 35	3692 31	5115 8	6860 22	7858 12	4344 22	5243 20	6358 23	6618 22				
22	JH-31314	3878 26	4208 20	5020 11	8349 9	6967 23	5689 12	5685 15	6246 25	7288 15				
23	JH-31285	4883 11	4347 17	5743 5	8810 3	6875 24	6715 2	6229 7	7713 5	5837 34				
24	JH-31336	4475 17	3164 39	4698 16	8319 10	6021 33	3881 33	5093 23	5209 40	8475 5				
25	JH-31292	4892 10	4632 11	5044 9	9085 2	8268 9	5163 16	6181 8	7438 11	7863 12				
26	JH-31288	4203 19	4401 15	4918 13	7105 18	7402 18	3894 32	5320 17	7164 13	7943 9				
27	AH-97001	3259 41	3702 29	4403 25	6284 25	5694 39	4056 27	4567 35	4411 43	6147 30				
28	HK11105xHK1163-1	3945 25	3275 37	4113 34	4528 41	6372 29	3933 31	4361 40	6143 29	5635 36				
29	EML7xHK1163-1	4508 16	4389 16	4580 21	5456 30	5867 37	5882 10	5114 22	6035 32	5510 37				
30	HK11128xHK1163-1	3809 28	3638 32	3737 39	6168 26	8212 10	2819 43	4731 28	8903 1	4802 41				

TABLE No. 2 (Cont..)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

SI	No	PEDIGREE	BAHR		DHOL		JASH		VARA		RANC		AMBI		ZN 3		ARBH		HYDE		R
			R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
31	KMH-218	5043	6	5027	6	4251	32	9317	1	8841	6	6202	6	6447	4	7500	10	5508	38		
32	KMH-3426	4524	15	5015	7	5814	4	8683	5	8921	5	5812	11	6461	3	6623	19	6967	17		
33	LAXMI306	4158	20	3701	30	4030	35	5814	28	6793	25	3942	29	4740	27	5906	34	5292	39		
34	MUKHYA-108	5699	2	5557	2	5020	10	8788	4	9207	4	6184	7	6743	1	6177	28	6192	29		
35	SARFUNCH-171	5028	7	4720	9	4387	26	7753	14	8379	7	5244	14	5918	11	5662	38	6079	32		
36	KMH-017	3844	27	5398	3	3763	38	6977	19	8325	8	6300	5	5768	14	7587	9	6808	19		
37	NMH-803	4848	12	4259	19	4527	22	8512	7	7845	13	6087	9	6013	9	4110	44	9509	1		
38	X8B557	5585	3	5344	4	4598	19	8358	8	9984	1	6393	4	6710	2	7704	6	6418	26		
39	X8B691	3644	34	4659	10	6080	2	8190	12	9796	2	6091	8	6410	5	8587	2	7900	11		
40	MCH-41	3749	32	4892	8	4507	23	8241	11	7808	14	6661	3	5976	10	7837	4	6541	25		
41	MCH-42	3760	31	6074	1	3506	41	8629	6	9274	3	6730	1	6329	6	8247	3	8769	4		
	CHECKS																				
42	NAVJOT	4921	9	2987	41	3682	40	4551	40	5714	38	3084	42	4156	42	4858	42	4735	42		
43	BIO-9637	3490	39	3958	24	4621	18	7227	16	7373	19	5239	15	5318	18	6141	30	6581	23		
44	HM-9	2995	44	2954	42	4344	29	5248	33	8044	11	4346	21	4655	31	5763	36	6406	27		
	Location Mean	4221		4084		4561		6631		7137		4631		5211		6533		6751			
	Mean Stand	31		28		25		36		32		34		31		35		36			
	C.D. (5%)	923		1283		199		540		1854		831		938		2431		1196			
	C.V. (%)	13.47		19.35		2.69		5.02		16		11.05		-		22.92		10.91			
	F (Prob)	0		0.002		0		0		0		0		-		0.061		0			
	Plot Size	4.8		6		4.8		4.8		5.6		6		-		6		6			
	AGRONOMY DATA																				
	Sowing Date	7-09		3-07		28-07		1-07		8-07		8-07		-		17-07		6-07			
	Harvest Date	15-10		-		14-11		9-10		17-10		-		-		12-11		16-11			
	Irrigation Nos	-		-		-		2		-		-		-		6		2			
	Fertilizer Applied N	120		120		120		100		-		120		-		150		180			
	Fertilizer Applied P	60		60		60		60		-		60		-		75		60			
	Fertilizer Applied K	60		40		60		40		-		40		-		37.5		50			

TABLE No. 2 (Cont...)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

Sl NO	PEDIGREE	KARI R	KOLH R	MAND R	COIM R	BANG POCB R	ZN 4 MEAN R	UDAI R
1	PLM-21	5929 21	4945 40	6088 38	9766 27	7174 5	6394 37	5933 22
2	L-183	4360 39	4483 43	5382 43	8144 42	5609 21	5491 44	4417 38
3	EEL-162308	6344 15	4876 42	5788 40	9779 25	5105 32	6625 29	7446 6
4	PMSY-3	4787 36	6092 18	7658 25	10777 15	4903 38	6546 36	5416 29
5	PMSW-4	5302 27	4971 39	6928 32	9718 28	4859 39	5930 42	4704 34
6	PMSQ-5	5953 20	5059 37	6861 33	10283 19	5034 34	6611 32	4663 37
7	HKH-308	4486 38	5959 19	6684 35	9313 36	5780 18	6621 30	6546 15
8	HKH-309	5253 28	6630 11	8214 20	7464 44	5235 29	6737 25	4700 35
9	HKH-310	5153 32	5792 23	6798 34	8049 43	4522 40	6603 33	6902 9
10	MALVIYA MAKKA-2	4930 35	5135 33	7952 22	9694 29	4908 37	6675 27	6182 17
11	HKH-311	5185 31	6328 15	8586 17	9842 24	7149 6	7372 13	7840 3
12	HKH-312	5694 24	6966 8	7860 24	9377 35	5582 22	7211 14	6526 16
13	HKH-313	5815 23	5233 31	5383 42	12394 10	4922 36	6827 23	4197 41
14	EH-1974	5192 30	7777 6	7583 26	10711 16	4473 41	7038 19	6648 13
15	EH-1986	5844 22	4909 41	7494 27	8521 39	5491 24	6557 35	6709 12
16	EH-2025	5423 25	5576 25	8156 21	9909 22	5530 23	6854 21	9955 1
17	VEH-09-1	4097 41	6198 17	5715 41	8790 38	5056 33	6219 40	3967 42
18	VEH-09-2	7525 2	8288 4	9725 10	11346 13	5222 30	8109 9	4815 33
19	REH-2101	6214 17	6285 16	6981 31	10388 18	5366 26	6838 22	5043 32
20	REH-2102	4237 40	6408 13	9543 11	9430 34	6558 9	6964 20	6119 18
21	REH-2103	4937 34	5356 29	8425 18	9767 26	5696 20	6737 26	5749 23
22	JH-31314	6613 12	5588 24	9400 12	10249 20	3973 43	7051 17	4297 39
23	JH-31285	7373 3	5246 30	8715 15	9569 33	5450 25	7129 15	6635 14
24	JH-31336	6391 14	4208 44	7137 30	9177 37	5727 19	6618 31	3512 43
25	JH-31292	6631 11	6838 10	9893 8	13424 6	7906 2	8571 4	5951 21
26	JH-31288	6991 9	5081 35	6500 37	9652 31	5998 14	7047 18	6749 11
27	AH-97001	7040 8	5846 21	7240 29	8250 41	5352 27	6327 38	4700 36
28	HK11105xHK11163-1	6912 10	5063 36	6038 39	10060 21	6318 12	6595 34	6010 20
29	BML7xHK11163-1	7276 4	5924 20	7288 28	10631 17	3951 44	6659 28	6118 19
30	HK11128xHK11163-1	3504 44	5371 28	6515 36	9662 30	5148 31	6272 39	3505 44

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE														
		KARI	R	KOLH	R	MAND	R	COIM	R	BANG	POCB	R	ZN 4	MEAN	R	UDAI
31	KMH-218	5214	29	6892	9	11897	3	13555	4	7112	7	8240	7	7181	8	
32	KMH-3426	8083	1	6572	12	10204	7	12640	8	6073	13	8166	8	7700	5	
33	LAXMI306	6062	19	5444	27	7888	23	9897	23	6737	8	6746	24	5216	30	
34	MUKHYA-108	6426	13	5211	32	8630	16	13157	7	6529	10	7475	12	5463	27	
35	SARPUNCH-171	5321	26	5809	22	9862	9	11290	14	5824	16	7121	16	5424	28	
36	KDMH-017	6106	18	8743	3	11253	5	12351	11	5796	17	8378	5	5564	24	
37	NMH-803	7065	7	5515	26	9332	14	13764	3	6330	11	7946	10	7823	4	
38	X8B557	7144	6	9808	1	13825	1	15930	1	8240	1	9867	1	5167	31	
39	X8B691	3879	42	9779	2	10859	6	13458	5	7479	4	8849	2	8593	2	
40	MCH-41	7167	5	6379	14	12871	2	12443	9	4942	35	8311	6	4231	40	
41	MCH-42	4660	37	7492	7	11291	4	15350	2	5936	15	8821	3	7318	7	
CHECKS																
42	NAVJOT	5067	33	5105	34	4981	44	8477	40	5240	28	5495	43	5527	25	
43	BIO-9637	6266	16	7858	5	9372	13	11624	12	7727	3	7939	11	5503	26	
44	HM-9	3859	43	5020	38	8233	19	9605	32	4189	42	6154	41	6897	10	
	Location Mean	5766		6092		8251		10629		5731		7108		5899		
	Mean Stand	36		37		33		32		31		34		33		
	C.D. (5%)	663		1696		988		1015		2945		1562		703		
	C.V. (%)	7.08		17.14		7.38		5.88		31.65		-		7.34		
	F (Prob)	0		0		0		0		0.849		-		0		
	Plot Size	6		6		5.6		4.8		4.8		-		4.8		
AGRONOMY DATA																
	Sowing Date	12-07		7-11		24-07		9-07		14-07		-		1-07		
	Harvest Date	18-10		2-12		12-07		3-11		-		-		3-10		
	Irrigation Nos	-		-		6		10		5		-		2		
	Fertilizer Applied N	200		120		150		150		120		-		90		
	Fertilizer Applied P	80		60		75		75		60		-		60		
	Fertilizer Applied K	60		40		40		75		40		-		-		

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										RAINFED TRIALS				OV'L	
		BANS		CHHI		ZN 5		OV'L		ZN 1		ZN 5		OV'L			
		R	R	R	R	MEAN	R	MEAN	R	UDHA	R	GODH	R	MEAN	R		
1	PLM-21	4433	28	3334	31	4567	32	5139	42	2640	31	3286	44	2963	43		
2	L-183	4213	31	3578	24	4069	39	4849	44	2829	21	3681	43	3255	40		
3	EHL-162308	3999	33	3277	35	4907	22	5708	30	3653	3	4557	34	4105	25		
4	PMSY-3	4946	16	4061	20	4808	24	5707	31	2869	19	3811	41	3340	38		
5	PMSW-4	4665	25	3098	40	4155	37	5306	40	2497	33	5880	19	4188	21		
6	PMSQ-5	4517	26	3573	25	4251	35	5390	38	2697	27	5584	21	4140	23		
7	HKH-308	6687	2	3317	33	5517	11	5953	20	2283	40	4250	37	3266	39		
8	HKH-309	3927	35	3333	32	3987	41	5476	35	2932	16	4596	32	3764	32		
9	HKH-310	4777	21	3534	26	5071	20	5843	27	3601	5	5279	23	4440	18		
10	MALVIYA MAKKA-2	4702	24	2824	42	4569	31	5711	29	2188	41	6031	16	4109	24		
11	HKH-311	3461	43	3653	23	4985	21	5852	25	4450	1	5952	18	5201	4		
12	HKH-312	4138	32	3445	29	4703	26	5952	21	2737	25	5170	25	3954	28		
13	HKH-313	3686	40	4249	18	4044	40	5960	19	3577	6	4714	31	4145	22		
14	ER-1974	6601	3	3800	22	5683	8	5847	26	2675	29	4197	38	3436	36		
15	ER-1986	3802	38	3485	28	4665	28	5499	34	2292	39	5561	22	3927	29		
16	EH-2025	5166	15	3943	21	6355	3	5992	18	2893	17	4564	33	3729	33		
17	VEH-09-1	3886	36	2710	43	3521	44	5259	41	2422	37	3919	39	3170	41		
18	VEH-09-2	3349	44	7483	3	5216	14	6938	9	3141	13	6271	12	4706	11		
19	REH-2101	6002	8	3303	34	4783	25	5946	22	2654	30	5036	29	3845	30		
20	REH-2102	4260	30	4888	12	5089	19	6195	16	2776	23	6851	6	4813	8		
21	REH-2103	3600	41	4675	13	4675	27	5876	24	2449	35	6688	8	4568	14		
22	JH-31314	6082	7	3348	30	4576	30	6198	15	2123	42	6915	5	4519	15		
23	JH-31285	4721	23	5594	6	5650	9	6732	12	2469	34	5144	27	3807	31		
24	JH-31336	3968	34	3237	36	3572	43	5718	28	3612	4	5982	17	4797	9		
25	JH-31292	6178	6	8013	1	6714	2	7231	5	3132	14	5851	20	4491	16		
26	JH-31288	5395	10	4493	15	5546	10	6103	17	2882	18	5086	28	3984	26		
27	AH-97001	4879	18	3121	39	4233	36	5342	39	2769	24	5163	26	3966	27		
28	HK11105xHK1163-1	4359	29	2990	41	4453	33	5434	37	2626	32	4409	35	3518	34		
29	BML7xHK1163-1	3746	39	4578	14	4814	23	5885	23	2424	36	6134	13	4279	19		
30	HK11128xHK1163-1	3841	37	4081	19	3809	42	5454	36	2073	43	4734	30	3404	37		

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																		
		BANS	R	CHHI	R	ZN 5	MEAN	R	OV'L	MEAN	R	ZN 1	UDHA	R	ZN 5	GODH	R	OV'L	MEAN	R
31	KMH-218	5387	11	4944	11	5837	7	7183	6	3192	12	6957	3	5075	6					
32	KMH-3426	4767	22	5989	5	6152	5	7293	4	3374	9	9232	1	6303	1					
33	LAXMI306	4868	19	3149	37	4411	34	5599	32	2301	38	3845	40	3073	42					
34	MUKHYA-108	5211	13	5174	8	5283	13	7160	7	2725	26	6640	10	4683	12					
35	SARPUNCH-171	4849	20	3528	27	4601	29	6247	14	3250	11	5236	24	4243	20					
36	KDMH-017	6234	5	4440	16	5413	12	7052	8	2977	15	8764	2	5870	2					
37	NMH-803	5811	9	5087	10	6240	4	6829	10	3263	10	6060	15	4662	13					
38	X8B557	5197	14	5124	9	5163	16	7900	1	3434	7	6603	11	5018	7					
39	X8B691	3469	42	6144	4	6069	6	7405	3	2862	20	6678	9	4770	10					
40	MCH-41	7103	1	4254	17	5196	15	6824	11	3693	2	6847	7	5270	3					
41	MCH-42	6575	4	7738	2	7210	1	7456	2	3388	8	6927	4	5157	5					
CHECKS																				
42	NAVJOT	4920	17	1966	44	4138	38	4994	43	2688	28	4328	36	3508	35					
43	BIO-9637	4482	27	5323	7	5103	17	6569	13	2817	22	6074	14	4446	17					
44	HM-9	5235	12	3141	38	5091	18	5519	33	1902	44	3786	42	2844	44					
	Location Mean	4820		4205		4975		6103		2869		5529		4199						
	Mean Stand	30		39		34		33		27		30		29						
	C.D. (5%)	521		600		608		1152		1263		1147		1215						
	C.V. (%)	6.65		8.78		-		-		27.54		12.78		-						
	F (Prob)	0		0		-		-		0.148		0		-						
	Plot Size	4.8		6		-		-		6		4.8		-						
AGRONOMY DATA																				
	Sowing Date	8-07		14-07		-		-		9-07		13-07		-						
	Harvest Date	25-10		22-11		-		-		28-10		28-10		-						
	Irrigator. Nos	2		-		-		-		-		-		-						
	Fertilizer Applied N	120		120		-		-		80		100		-						
	Fertilizer Applied P	40		60		-		-		60		50		-						
	Fertilizer Applied K	-		40		-		-		40		50		-						

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT										ZN 2		ZN 3			
		BAJA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN
1	PLM-21	-	13.6	-	-	-	-	1.9	-	-	-	-	-	5.9	-	20.6	-
2	L-183	-	13.8	5.5	11.6	2.2	-	-	-	-	-	-	2.4	2.8	-	11.6	-
3	ERL-162308	31.4	11.4	22	19.3	22.7	6.6	38.7	-	-	8.2	3.3	26.9	-	5.6	21.4	6.1
4	PMSY-3	15.4	19.9	17.5	30.4	-	24.8	22.7	-	-	8.8	2	10.6	-	-	32.5	10.7
5	PMSW-4	-	21.6	8.8	-	-	-	1.4	-	-	-	-	39.4	15.7	-	27.6	17.6
6	PMSO-5	4.7	10.1	7.2	-	-	-	-	-	-	-	-	40.2	12.2	24.8	29.2	15
7	HKH-308	49.7	6.9	29.7	47.1	24.3	10.7	37.3	-	-	15.2	-	20	19.6	5	40.9	10.1
8	HKH-309	5.9	7.7	6.8	3.1	-	-	10	-	-	-	-	30.2	40.4	10.5	37.8	17.9
9	HKH-310	28.5	-	14.5	26.6	7	0.6	27.3	-	-	5.6	-	19.1	32.8	3.7	49.7	23.3
10	MALVIYA MAKKA-2	12	22.4	16.8	19.1	20.6	11	36.7	-	-	11.8	-	6.3	-	-	16.8	7.2
11	HKH-311	17.7	13.1	15.5	29.5	-	6.3	11.5	-	-	-	-	51.8	40.8	-	42.7	10.1
12	HKH-312	20.4	23.3	21.7	19.2	5.8	32.6	13.9	-	-	9.7	-	35.9	33.5	5.2	45.8	13
13	HKH-313	-	17.6	6.3	6.2	17.1	14.2	27.9	-	-	7.6	29.4	51.8	22.4	34.9	73.6	41.5
14	EH-1974	26.9	10.9	19.4	16.8	15.7	11.7	4.1	-	-	2.3	-	3.5	-	30.9	2.1	5.8
15	EH-1986	6.8	-	1.3	18	5.9	2.1	31.9	-	-	7.9	-	11.1	11.9	8.4	-	-
16	EH-2025	2.9	16.2	9.1	47.5	9.5	15.6	32.5	-	-	8.9	-	25.6	17.8	18.6	40.2	13.2
17	VEH-09-1	3	16.4	9.2	-	3	-	10.1	-	-	-	-	24	35.7	13.8	17.1	9.4
18	VEH-09-2	46.5	9.2	29.1	129.2	49.6	108.1	33.4	-	-	35.1	3.2	71.6	73.5	16.6	32.6	40.7
19	REH-2101	11.2	15.8	13.3	31.5	2.9	30.4	13.1	-	-	8.2	-	45.1	60.6	22.6	14.8	27.2
20	REH-2102	14.6	2.5	9	115.9	12	40.6	31.2	-	-	23.1	-	54.8	26.1	33.3	16.7	28.1
21	REH-2103	22.3	20.4	21.4	21.4	11.5	-	5	-	-	4.1	-	23.6	38.9	37.5	40.8	26.1
22	JH-31314	-	17.5	6.8	76.1	20.4	32.2	48.8	-	-	19.8	-	40.9	36.3	21.9	84.5	36.8

TABLE No. 2 (Contd.)

S1 NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE NAVJOT										ZN 2		ZN 3			
		BAJA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN
23	JH-31285	29.9	11.9	21.5	98.4	12	85.1	53.4	-	32.7	-	45.6	56	93.6	20.3	117.7	49.9
24	JH-31336	1	21.8	10.7	56.7	16.1	19.8	43.2	-	13.2	-	5.9	27.6	82.8	5.4	25.9	22.5
25	JH-31292	21.1	-	9.5	153.1	1.7	128.6	30.2	-	32	-	55.1	37	99.6	44.7	67.4	48.7
26	JH-31288	-	-	-	42.5	17.9	38.6	38.8	-	14.2	-	47.4	33.6	56.1	29.5	26.2	28
27	AH-97001	-	-	-	-	7.8	11.6	-	-	-	-	24	19.6	38.1	-	31.5	9.9
28	HKI1105xHKI1163-1	11.8	-	-	-	6.2	19.9	14.4	-	2.2	-	9.7	11.7	-	11.5	27.5	4.9
29	BML7xHKI1163-1	13.4	-	4.9	79.2	2.3	32.1	24.3	-	14.3	-	47	24.4	19.9	2.7	90.7	23
30	HKI1128xHKI1163-1	40.6	-	17.6	8.8	1.1	24.4	12.5	-	2.8	-	21.8	1.5	35.5	43.7	-	13.8
31	KMH-218	33.6	-	17.3	146.9	-	78.9	75.1	-	36.9	2.5	68.3	15.5	104.7	54.7	101.1	55.1
32	KMH-3426	37.6	17.8	28.4	173.1	20.6	63.9	68.2	-	39.9	-	67.9	57.9	90.8	56.1	88.5	55.5
33	LAXMI306	8.8	-	4.4	17.9	-	31.9	3.6	-	1.3	-	23.9	9.5	27.8	18.9	27.8	14
34	MUKHYA-108	60.6	17.6	40.5	97.8	37.7	59.5	104.5	-	44.8	15.8	86.1	36.3	93.1	61.1	100.5	62.2
35	SARPUNCH-171	30.6	17.9	24.7	-	8.9	10.7	40.4	-	9.9	2.2	58	19.2	70.4	46.7	70	42.4
36	KMH-017	23.7	16.6	20.4	125	15.6	114.8	66.3	-	40.6	-	80.7	2.2	53.3	45.7	104.3	38.8
37	NMH-803	-	-	-	137.1	37.5	28.9	101.6	-	45.4	-	42.6	23	87	37.3	97.4	44.7
38	X8B557	51.2	-	31.2	137.4	14.9	121.1	85.4	-	5.3	13.5	78.9	24.9	83.7	74.7	107.3	61.4
39	X8B691	23.3	1	12.9	95.6	33.5	82.1	77.1	-	40	-	56	65.1	80	71.4	97.5	54.2
40	MCH-41	37.5	3.6	21.7	69.2	20.8	36	58.2	-	21	-	63.8	22.4	81.1	36.6	116	43.8
41	MCH-42	45.8	7.7	28	61.6	6.1	85.1	65.6	-	28.5	-	103.4	-	89.6	62.3	118.2	52.3
CHECKS																	
42	NAVJOT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	39.6	10.7	26.1	84	32.3	21.3	46.6	-	22.8	-	32.5	25.5	58.8	29	69.9	27.9
44	HM-9	3.7	1.3	2.6	-	18.4	29.2	17	-	4.8	-	-	18	15.3	40.8	40.9	12

TABLE No. 2 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT														OV'L MEAN
		ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG POCB	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 1 UDHA	
1	PLM-21	6.7	19.8	17	-	22.2	15.2	36.9	16.4	7.3	-	69.6	10.4	2.9	-	-
2	L-183	19.2	-	-	-	8.1	-	7	-	-	-	81.9	-	-	5.3	-
3	EHL-162308	42.3	59.8	25.2	-	16.2	15.4	-	20.6	34.7	-	66.6	18.6	14.3	35.9	5.3
4	PMSY-3	38.7	2.7	-	19.3	53.7	27.1	-	19.1	-	0.5	106.5	16.2	14.3	6.8	-
5	PMSW-4	11.9	-	4.6	-	39.1	14.6	-	7.9	-	-	57.5	0.4	6.3	-	35.9
6	PMSQ-5	30.2	42.9	17.5	-	37.8	21.3	-	20.3	-	-	81.7	2.7	7.9	0.3	29
7	HKH-308	27.6	67.4	-	16.7	34.2	9.9	10.3	20.5	18.4	35.9	68.7	33.3	19.2	-	-
8	HKH-309	27.5	72.5	3.7	29.9	64.9	-	-	22.6	-	-	69.5	-	9.6	9.1	6.2
9	HKH-310	58.6	73.3	1.7	13.4	36.5	-	-	20.2	24.9	-	79.7	22.6	17	34	22
10	MALVIYA MAKKA-2	36.6	57.8	-	0.6	59.7	14.4	-	21.5	11.8	-	43.6	10.4	14.4	-	39.4
11	HKH-311	18.2	85.2	2.3	23.9	72.4	16.1	36.4	34.2	41.8	-	85.8	20.5	17.2	65.6	37.5
12	HKH-312	26.4	87.1	12.4	36.4	57.8	10.6	6.5	31.2	18.1	-	75.2	13.6	19.2	1.8	19.5
13	HKH-313	39.8	53.2	14.7	2.5	8.1	46.2	-	24.2	-	-	116.1	-	19.3	33.1	8.9
14	EH-1974	36.2	46	2.5	52.3	52.2	26.4	-	28.1	20.3	34.1	93.2	37.3	17.1	-	-
15	EH-1986	57.2	26.8	15.3	-	50.4	0.5	4.8	19.3	21.4	-	77.2	12.7	10.1	-	28.5
16	EH-2025	40.5	38.6	7	9.2	63.7	16.9	5.5	24.7	80.1	5	100.5	53.6	20	7.6	5.5
17	VEH-09-1	51.5	33.3	-	21.4	14.7	3.7	-	13.2	-	-	37.8	-	5.3	-	-
18	VEH-09-2	34.1	71.9	48.5	62.3	95.2	33.8	-	47.6	-	-	280.5	26	38.9	16.8	44.9
19	REH-2101	22.9	40.8	22.6	23.1	40.2	22.5	2.4	24.5	-	22	68	15.6	19.1	-	16.4
20	REH-2102	32.4	29.7	-	25.5	91.6	11.2	25.1	26.7	10.7	-	148.6	23	24.1	3.3	58.3
21	REH-2103	30.9	39.8	-	4.9	69.1	15.2	8.7	22.6	4	-	137.7	13	17.7	-	54.5
22	JH-31314	28.6	53.9	30.5	9.5	88.7	20.9	-	28.3	-	23.6	70.3	10.6	24.1	-	59.8

TABLE No. 2 (Cont..)

GRAIN YIELD & SUPERIORITY OVER THE NAVJOT																				
Sl	No	PEDIGREE	ARBH	HYDE	KARI	KOLH	MAND	COIM	POCB	BANG	ZN 4	UDAI	BANS	CHHI	ZN 5	OV'L	ZN 1	ZN 5	OV'L	
											MEAN				MEAN	MEAN	UDHA	GODH	MEAN	
23	JH-31285	58.8	23.3	45.5	2.8	75	12.9	4	29.7	20	184.5	36.5	34.8	18.9	8.5	-	-	18.9	8.5	
24	JH-31336	7.2	79	26.1	-	43.3	8.3	9.3	20.4	-	64.6	-	14.5	38.2	36.8	-	34.4	38.2	36.8	
25	JH-31292	53.1	66.1	30.9	33.9	98.6	58.4	50.9	56	7.7	307.5	62.3	44.8	35.2	28	-	16.5	35.2	28	
26	JH-31288	47.5	67.8	38	-	30.5	13.9	14.5	28.3	22.1	128.5	34	22.2	17.5	13.6	-	7.2	17.5	13.6	
27	AH-97001	-	29.8	38.9	14.5	45.4	-	2.1	15.1	-	58.7	2.3	7	13.1	13.1	-	3	19.3	13.1	
28	HK1105xHK1163-1	26.4	19	36.4	-	21.2	18.7	20.6	20	8.7	52	7.6	8.8	1.9	0.3	-	-	41.7	22	
29	EML7xHK1163-1	24.2	16.4	43.6	16	46.3	25.4	-	21.2	10.7	132.8	16.3	17.8	9.4	-	-	-	9.4	-	
30	HK1128xHK1163-1	83.3	1.4	-	5.2	30.8	14	-	14.1	-	107.5	-	9.2	-	-	-	-	-	-	
31	KMH-218	54.4	16.3	2.9	35	138.8	59.9	35.7	50	29.9	151.4	41.1	43.8	60.8	44.7	-	18.8	60.8	44.7	
32	KMH-3426	36.3	47.1	59.5	28.7	104.9	49.1	15.9	48.6	39.3	204.5	48.7	46	113.3	79.7	-	25.5	113.3	79.7	
33	LAXMI306	21.6	11.8	19.6	6.6	58.4	16.7	28.6	22.8	-	60.1	6.6	12.1	-	-	-	-	-	-	
34	MUKHYA-108	27.2	30.8	26.8	2.1	73.3	55.2	24.6	36	-	163.1	27.7	43.4	53.4	33.5	-	1.4	53.4	33.5	
35	SARPUNCH-171	16.6	28.4	5	13.8	98	33.2	11.2	29.6	-	79.4	11.2	25.1	21	21	-	20.9	21	21	
36	KDMH-0.7	56.2	43.8	20.5	71.3	125.9	45.7	10.6	52.5	0.7	125.8	30.8	41.2	102.5	67.4	-	10.7	102.5	67.4	
37	NMH-803	-	100.8	39.4	8	87.3	62.4	20.8	44.6	41.5	158.7	50.8	36.7	40	32.9	-	21.4	40	32.9	
38	X8B557	58.6	35.5	41	92.1	177.6	87.9	57.3	79.6	-	160.6	24.8	58.2	52.6	43.1	-	27.8	52.6	43.1	
39	X8B691	76.8	66.8	-	91.6	118	58.8	42.7	61	55.5	212.4	46.7	48.3	54.3	36	-	6.5	54.3	36	
40	MCH-41	61.3	38.1	41.4	24.9	158.4	46.8	-	51.3	-	116.3	25.6	36.6	58.2	50.2	-	37.4	58.2	50.2	
41	MCH-42	69.8	85.2	-	46.7	126.7	81.1	13.3	60.5	32.4	293.5	74.2	49.3	60.1	47	-	26.1	60.1	47	
CHECKS																				
42	NAVJOT	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
43	BIO-9637	26.4	39	23.7	53.9	88.2	37.1	47.5	44.5	-	170.7	23.3	31.5	40.4	26.7	-	4.8	40.4	26.7	-
44	HM-9	18.6	35.3	-	-	65.3	13.3	-	12	24.8	59.7	23	10.5	-	-	-	-	-	-	-

TABLE No. 2 (Cont..)

Sl	NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9637													Zn 3 MEAN		
		BAJA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	BAHR	DHOL	JASH	VARA		RANC	AMBI
1	PLM-21	-	2.6	-	-	-	-	-	-	6.1	0.2	-	-	-	-	-	-
2	L-183	-	2.8	-	-	-	-	-	-	-	25.2	-	-	-	-	-	-
3	EHL-162308	-	0.6	-	-	-	-	-	-	-	45.7	-	-	-	-	-	-
4	PMSY-3	-	8.4	-	-	2.8	-	-	-	4.2	43.8	-	-	-	-	-	-
5	PMSW-4	-	9.9	-	-	-	-	-	-	6.2	32.2	5.2	-	-	-	-	-
6	PMSQ-5	-	-	-	-	-	-	-	-	-	13.2	5.8	-	-	-	-	-
7	HKH-308	7.3	-	2.9	-	-	-	-	-	2.4	8	-	-	-	-	-	-
8	HKH-309	-	-	-	-	-	-	-	-	-	-	-	11.8	-	-	-	-
9	HKH-310	-	-	-	-	-	-	-	-	-	37.4	-	5.8	-	-	-	-
10	MALVIYA MAKKA-2	-	10.5	-	-	-	-	-	-	1.6	16	-	-	-	-	-	-
11	HKH-311	-	2.1	-	-	-	-	-	-	-	0.7	14.5	12.2	-	-	-	-
12	HKH-312	-	11.4	-	9.3	-	-	-	-	8.6	-	2.6	6.4	-	-	-	-
13	HKH-313	-	6.2	-	-	-	-	-	-	-	82.5	14.6	-	4.5	2.2	10.6	-
14	EH-1974	-	0.1	-	-	-	-	-	-	-	19	-	-	1.5	-	-	-
15	EH-1986	-	-	-	-	-	-	-	-	-	2.4	-	-	-	-	-	-
16	EH-2025	-	5	-	-	-	-	-	-	4.7	-	-	-	-	-	-	-
17	VEH-09-1	-	5.1	-	-	-	-	-	-	5.8	14	-	8.1	-	-	-	-
18	VEH-09-2	5	-	2.4	24.6	13.1	71.6	-	-	-	45.5	29.5	38.2	7	-	-	9.9
19	REH-2101	-	4.6	-	-	7.5	-	-	-	3.6	8.9	9.5	28	-	-	-	-
20	REH-2102	-	-	-	17.4	15.9	-	-	-	4.1	5.9	16.8	0.5	7.6	3.3	0.1	-
21	REH-2103	-	8.8	-	-	-	-	-	-	9.9	2.8	-	10.7	-	6.6	-	-
22	JH-31314	-	6.1	-	-	9	1.5	-	-	-	11.1	6.3	8.6	15.5	-	8.6	6.9

TABLE No. 2 (Cont...)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO-9637										ZN 1			ZN 2			ZN 3		
		BAJA	KANG	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN			
23	JH-31285	-	1.1	-	7.9	-	52.6	4.7	3.1	8.1	39.9	9.8	24.3	21.9	-	28.2	17.1			
24	JH-31336	-	10	-	-	-	-	-	-	-	28.2	-	1.7	15.1	-	-	-			
25	JH-31292	-	-	-	37.6	-	88.4	-	-	7.5	40.2	17	9.1	25.7	12.1	-	16.2			
26	JH-31288	-	-	-	-	-	14.3	-	-	-	20.4	11.2	6.4	-	0.4	-	0			
27	AH-97001	-	-	-	-	-	-	-	3.7	-	-	-	-	-	-	-	-			
28	HK11105xHK1163-1	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-			
29	BML7xHK1163-1	-	-	-	-	-	8.9	-	1.1	-	29.2	10.9	-	-	-	12.3	-			
30	HK11128xHK1163-1	0.7	-	-	-	-	2.6	-	-	-	9.1	-	-	-	11.4	-	-			
31	KMH-218	-	-	-	34.2	-	47.4	19.4	-	11.5	44.5	27	-	28.9	19.9	18.4	21.2			
32	KMH-3426	-	6.4	1.8	48.4	-	35.1	14.7	-	13.9	29.6	26.7	25.8	20.1	21	10.9	21.5			
33	LAXMI306	-	-	-	-	-	8.7	-	-	-	19.2	-	-	-	-	-	-			
34	MUKHYA-108	15.1	6.2	11.5	7.5	4.1	31.5	39.5	3.8	17.9	63.3	40.4	8.6	21.6	24.9	18	26.8			
35	SARPUNCH-171	-	6.5	-	-	-	-	-	4.8	-	44.1	19.3	-	7.3	13.6	0.1	11.3			
36	KDMH-017	-	5.4	-	22.3	-	77.1	13.4	-	-4.5	10.1	36.4	-	-	12.9	20.3	8.5			
37	NMH-803	-	-	-	28.9	4	6.2	37.6	10.5	18.4	38.9	7.6	-	17.8	6.4	16.2	13.1			
38	X8B557	15.5	-	4	29	-	82.3	26.5	9.3	23.2	60	35	-	15.6	35.4	22	26.2			
39	X8B691	-	-	-	6.3	0.9	50.2	20.8	0.2	14	4.4	17.7	31.6	13.3	32.9	16.3	20.5			
40	MCH-41	-	-	-	-	-	12.1	7.9	-	-	7.4	23.6	-	14	5.9	27.1	12.4			
41	MCH-42	4.5	-	1.5	-	-	52.6	13	-	4.7	7.7	53.5	-	19.4	25.8	28.5	19			
	CHECKS																			
42	NAVJOT	-	-	-	-	-	-	-	11.2	-	41	-	-	-	-	-	-	-		
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
44	HM-9	-	-	-	-	-	6.5	-	-	-	-	-	-	-	9.1	-	-			

TABLE No. 2 (Cont..)

GRAIN YIELD & SUPERIORITY OVER THE BIO-9637																	
Sl No	PEDIGREE	ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG	ZN 4	UDAI	BANS	CHHI	ZN 5	OV'L	ZN 1	ZN 5	OV'L
								POCB	MEAN				MEAN	MEAN	UDHA	GODH	MEAN
1	PLM-21	-	-	-	-	-	-	-	-	7.8	-	-	-	-	-	-	-
2	L-183	-	-	-	-	-	-	-	-	35.3	-	-	-	-	0.4	-	-
3	EHL-162308	12.6	15	1.2	-	-	-	-	-	-	-	-	-	-	29.7	-	-
4	PMSY-3	9.7	-	-	-	-	-	-	-	-	10.4	-	-	-	1.9	-	-
5	PMSW-4	-	-	-	-	-	-	-	-	-	4.1	-	-	-	-	-	-
6	PMSO-5	3	2.8	-	-	-	-	-	-	-	0.8	-	-	-	-	-	-
7	HKH-308	0.9	20.4	-	-	-	-	-	-	19	49.2	-	8.1	-	-	-	-
8	HKH-309	0.9	24.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	HKH-310	25.4	24.7	-	-	-	-	-	-	-	-	-	-	-	4.1	-	-
10	MALVIYA MAKKA-2	8.1	13.5	-	-	-	-	-	-	25.4	6.6	-	-	-	27.8	-	-
11	HKH-311	-	33.3	-	-	-	-	-	-	12.3	4.9	-	-	-	-	-	17
12	HKH-312	-	34.6	-	-	-	-	-	-	42.5	-	-	-	-	58	-	-
13	HKH-313	10.6	10.2	-	-	-	6.6	-	-	18.6	-	-	-	-	-	-	-
14	EH-1974	7.8	5	-	-	-	-	-	-	20.8	47.3	-	11.4	-	-	-	-
15	EH-1986	24.3	-	-	-	-	-	-	-	21.9	-	-	-	-	-	-	-
16	EH-2025	11.2	-	-	-	-	-	-	-	80.9	15.3	-	24.5	-	2.7	-	-
17	VEH-09-1	19.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	VEH-09-2	6.1	23.7	20.1	5.5	3.8	-	-	2.1	-	-	40.6	2.2	5.6	11.5	3.2	5.9
19	REH-2101	-	1.3	-	-	-	-	-	-	-	33.9	-	-	-	-	-	-
20	REH-2102	4.8	-	-	-	1.8	-	-	-	11.2	-	-	-	-	-	12.8	8.3
21	REH-2103	3.5	0.6	-	-	-	-	-	-	4.5	-	-	-	-	-	10.1	2.8
22	JH-31314	1.7	10.7	5.5	-	0.3	-	-	-	-	35.7	-	-	-	-	13.8	1.7

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO-9637													OV'L MEAN	
		ARSH	HYDE	KARI	KOLH	MAND	COIM	POCB	BANG ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN		ZN 1 UDHA
23	JH-31285	25.6	-	17.7	-	-	-	-	20.6	5.3	5.1	10.7	2.5	-	-	-
24	JH-31336	-	28.8	2	-	-	-	-	-	-	-	-	-	28.2	-	7.9
25	JH-31292	21.1	19.5	5.8	-	5.6	15.5	2.3	8.1	37.9	50.6	31.6	10.1	11.2	-	1
26	JH-31288	16.7	20.7	11.6	-	-	-	-	22.6	20.4	-	8.7	-	2.3	-	-
27	AH-97001	-	-	12.4	-	-	-	-	-	8.9	-	-	-	-	-	-
28	HK11105xHK1163-1	0	-	10.3	-	-	-	-	9.2	-	-	-	-	-	-	-
29	BML7xHK1163-1	-	-	16.1	-	-	-	-	11.2	-	-	-	-	-	-	-
30	HK11128xHK1163-1	45	-	-	-	-	-	-	-	-	-	-	-	-	1	-
31	KMH-218	22.1	-	-	-	26.9	16.6	-	30.5	20.2	-	14.4	9.4	13.3	14.5	14.2
32	KMH-3426	7.9	5.9	29	-	8.9	8.7	-	39.9	6.4	12.5	20.6	11	19.8	52	41.8
33	LAXMI306	-	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-
34	MUKHYA-108	0.6	-	2.6	-	-	13.2	-	-	16.3	-	3.5	9	-	9.3	5.3
35	SARPUNCH-171	-	-	-	-	5.2	-	-	-	8.2	-	-	-	15.4	-	-
36	KDMH-017	23.5	3.4	-	11.3	20.1	6.2	-	1.1	39.1	-	6.1	7.4	5.7	44.3	32.1
37	NMH-803	-	44.5	12.7	-	-	18.4	-	42.2	29.7	-	22.3	4	15.8	-	4.9
38	X8B557	25.5	-	14	24.8	47.5	37	6.6	-	16	-	1.2	20.3	21.9	8.7	12.9
39	X8B691	39.8	20	-	24.5	15.9	15.8	-	56.1	-	15.4	18.9	12.7	1.6	9.9	7.3
40	MCH-41	27.6	-	14.4	-	37.3	7	-	-	58.5	-	1.8	3.9	31.1	12.7	18.5
41	MCH-42	34.3	33.3	-	-	20.5	32.1	-	33	46.7	45.4	41.3	13.5	20.3	14	16
CHECKS																
42	NAVJOT	-	-	-	-	-	-	-	0.4	9.8	-	-	-	-	-	-
43	BIO-9637	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
44	HM-9	-	-	-	-	-	-	-	25.3	16.8	-	-	-	-	-	-

TABLE No. 2 (Cont..)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HM-9										ZN 2		ZN 3				
		BAJA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN	
1	PLM-21	-	12.1	-	-	-	-	-	-	-	13.9	-	16.8	-	-	-	-	-
2	L-183	-	12.3	2.8	16.7	-	-	-	-	-	-	-	45.9	-	-	-	-	-
3	EHL-162308	26.7	9.9	19	24.8	3.6	-	18.5	-	-	-	3.3	69.8	28.3	-	-	-	-
4	PMSY-3	11.4	18.4	14.6	36.4	-	-	4.8	11.9	-	11.9	3.8	67.6	11.8	0.1	0.3	-	-
5	PMSW-4	-	20	6.1	-	-	-	-	14	-	14	-	54.1	40.9	0.9	-	-	5
6	PMSQ-5	1	8.6	4.5	-	-	-	-	7.3	-	7.3	-	31.9	41.8	5.5	-	-	2.7
7	HKH-308	44.5	5.5	26.5	53.8	5	-	17.3	9.9	-	9.9	10	25.9	21.3	-	3.7	-	-
8	HKH-309	2.2	6.3	4.1	7.8	-	-	-	-	-	-	-	13.5	31.6	19	21.4	-	5.2
9	HKH-310	24	-	11.6	32.3	-	-	8.7	6.2	-	6.2	0.8	60.2	20.4	12.5	32.9	-	10.1
10	MALVIYA MAKKA-2	8	20.7	13.9	24.5	1.8	-	16.8	9.1	-	9.1	6.7	35.1	7.5	-	31.1	-	-
11	HKH-311	13.6	11.6	12.6	35.4	-	-	-	0.6	-	0.6	-	17.4	53.5	19.3	-	1.3	-
12	HKH-312	16.2	21.7	18.7	24.6	-	2.7	-	16.6	-	16.6	4.7	4	37.4	13.2	6.1	-	0.9
13	HKH-313	-	16	3.7	11	-	-	9.2	6.2	-	6.2	2.7	112.7	53.5	3.7	29.7	-	26.3
14	EH-1974	22.4	9.4	16.4	22.1	-	-	-	5	-	5	-	38.7	4.6	-	-	-	-
15	EH-1986	3	-	-	23.4	-	-	12.7	12.4	-	12.4	2.9	19.4	12.3	-	-	-	-
16	EH-2025	-	14.6	6.4	54.2	-	-	13.2	-	-	-	3.9	6.3	27	-	11.5	-	1.1
17	VEH-09-1	-	14.8	6.5	0.5	-	-	-	13.6	-	13.6	-	32.8	25.4	15	-	-	-
18	VEH-09-2	41.4	7.7	25.8	139.6	26.4	61.1	14	-	-	-	29	69.5	73.5	47	47.4	-	25.6
19	REH-2101	7.3	14.2	10.5	37.5	-	1	-	11.2	-	11.2	3.3	26.9	46.7	36.1	35.9	-	13.6
20	REH-2102	10.6	1.2	6.2	125.8	-	8.8	12.1	11.7	-	11.7	17.5	23.4	56.5	6.9	48.2	-	14.4
21	REH-2103	18	18.8	18.4	26.9	-	-	-	18	-	18	-	19.8	25	17.8	30.7	-	12.6
22	JH-31314	-	15.9	4.2	84.2	1.7	2.4	27.1	-	-	-	14.3	29.5	42.4	15.5	59.1	30.9	22.1

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HM-9										ZN 2		ZN 3			
		BAJA	KANG	ZN 1 MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN
23	JH-31285	25.4	10.5	18.5	107.5	-	43.3	31.1	10.7	26.7	63.1	47.1	32.2	67.9	-	54.5	33.8
24	JH-31336	-	20.1	7.9	63.9	-	-	22.3	-	8	49.4	7.1	8.1	58.5	-	-	9.4
25	JH-31292	16.8	-	6.8	164.6	-	77	11.2	-	26	63.4	56.8	16.1	73.1	2.8	16.8	32.8
26	JH-31288	-	-	-	49	-	7.3	18.6	-	9	40.3	49	13.2	35.4	-	-	14.3
27	AH-97001	-	-	-	-	-	-	-	11.4	-	8.8	25.3	1.4	19.8	-	-	-
28	HKI1105xHKI1163-1	7.9	-	-	1.9	-	-	-	3.9	-	31.7	10.9	-	-	-	-	-
29	BML7xHKI1163-1	9.4	-	2.2	87.4	-	2.3	6.2	8.5	9.1	50.5	48.6	5.4	4	-	35.4	9.9
30	HKI1128xHKI1163-1	35.6	-	14.6	13.7	-	-	-	4.5	-	27.2	23.1	-	17.5	2.1	-	1.6
31	KMH-218	28.9	-	14.3	158.1	-	38.5	49.6	5.2	30.7	68.4	70.1	-	77.5	9.9	42.7	38.5
32	KMH-3426	32.8	16.2	25.1	185.5	1.8	26.9	43.7	6.9	33.5	51.1	69.7	33.8	65.5	10.9	33.7	38.8
33	LAXMI306	5	-	1.8	23.3	-	2.1	-	3	-	38.9	25.3	-	10.8	-	-	1.8
34	MUKHYA-108	55	16	37	106.8	16.3	23.5	74.7	11.4	38.2	90.3	88.1	15.5	67.5	14.5	42.3	44.8
35	SARPUNCH-171	26	16.3	21.5	4.2	-	-	20	12.6	4.9	67.9	59.8	1	47.7	4.2	20.7	27.1
36	KDMH-017	19.4	15.1	17.4	135.2	-	66.3	42.1	2.8	34.2	28.4	82.7	-	32.9	3.5	45	23.9
37	NMH-803	-	-	-	147.9	16.2	-	72.3	18.6	38.7	61.9	44.2	4.2	62.2	-	40.1	29.2
38	X8B557	55.5	-	27.9	148.2	-	71.2	58.4	17.4	44.4	86.5	80.9	5.8	59.3	24.1	47.1	44.1
39	X8B691	19	-	10.1	104.5	12.8	41	51.3	7.6	33.6	21.7	57.7	40	56.1	21.8	40.2	37.7
40	MCH-41	32.7	2.2	18.6	76.9	2.1	5.3	35.2	-	15.5	25.2	65.6	3.7	57	-	53.3	28.4
41	MCH-42	40.7	6.3	24.8	68.9	-	43.3	41.5	2.3	22.7	25.6	105.6	-	64.4	15.3	54.9	36
CHECKS																	
42	NAVJOT	-	-	-	4.6	-	-	-	19.4	-	64.3	1.1	-	-	-	-	-
43	BIO-9637	34.7	9.2	22.9	92.3	11.8	-	25.3	7.4	17.2	16.5	34	6.4	37.7	-	20.6	14.2
44	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 2 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HM-9														OV'L MEAN	ZN 5 GODH	OV'L MEAN		
		ARBH	HYDE	KARI	KOLH	MAND	COIM	POCB	BANG	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN				ZN 1 UDHA	ZN 5 GODH
1	PLM-21	-	-	53.6	-	-	1.7	71.3	3.9	-	-	-	-	-	6.2	-	-	38.8	-	4.2
2	L-183	0.5	-	13	-	-	-	33.9	-	-	-	-	-	-	13.9	-	-	48.7	-	14.4
3	EHL-162308	19.9	18.1	64.4	-	-	1.8	21.9	7.7	8	-	-	-	-	4.3	-	-	92	20.4	44.3
4	PMSY-3	16.9	-	24	21.4	-	12.2	17.1	6.4	-	-	-	-	-	29.3	-	-	50.8	0.7	17.4
5	PMSW-4	-	-	37.4	-	-	1.2	16	-	-	-	-	-	-	-	-	-	31.2	55.3	47.3
6	PMSQ-5	9.7	5.6	54.3	0.8	-	7.1	20.2	7.4	-	-	-	-	-	13.8	-	-	41.8	47.5	45.6
7	HKH-308	7.5	23.7	16.3	18.7	-	-	38	7.6	-	-	-	-	-	5.6	8.4	-	20	12.2	14.8
8	HKH-309	7.5	27.5	36.1	32.1	-	-	25	9.5	-	-	-	-	-	6.1	-	-	54.1	21.4	32.3
9	HKH-310	33.7	28.1	33.6	15.4	-	-	7.9	7.3	0.1	-	-	-	-	12.5	-	-	89.3	39.4	56.1
10	MALVIYA MAKKA-2	15.1	16.6	27.8	2.3	-	0.9	17.2	8.5	-	-	-	-	-	-	-	-	15	59.3	44.5
11	HKH-311	-	36.9	34.4	26.1	4.3	2.5	70.7	19.8	13.7	-	-	-	-	16.3	-	-	133.9	57.2	82.9
12	HKH-312	6.5	38.3	47.6	38.8	-	-	33.3	17.2	-	-	-	-	-	9.7	-	-	43.9	36.6	39
13	HKH-313	17.8	13.2	50.7	4.2	-	29	17.5	10.9	-	-	-	-	-	35.3	-	-	88	24.5	45.7
14	EH-1974	14.8	7.9	34.6	54.9	-	11.5	6.8	14.4	-	-	-	-	-	26.1	-	-	40.6	10.8	20.8
15	EH-1986	32.5	-	51.5	-	-	-	31.1	6.6	-	-	-	-	-	11	-	-	20.5	46.9	38.1
16	EH-2025	18.4	2.4	40.5	11.1	-	3.2	32	11.4	44.3	-	-	-	-	25.6	24.8	-	52.1	20.6	31.1
17	VEH-09-1	27.7	-	6.2	23.5	-	-	20.7	1.1	-	-	-	-	-	-	-	-	27.3	3.5	11.5
18	VEH-09-2	13	27.1	95	65.1	18.1	18.1	24.7	31.8	-	-	-	-	-	138.2	2.4	-	65.1	65.6	65.4
19	REH-2101	3.6	4.1	61	25.2	-	8.1	28.1	11.1	-	-	-	-	-	5.2	-	-	39.5	33	35.2
20	REH-2102	11.6	-	9.8	27.7	15.9	-	56.6	13.2	-	-	-	-	-	55.6	-	-	45.9	80.9	69.2
21	REH-2103	10.3	3.3	28	6.7	2.3	1.7	36	9.5	-	-	-	-	-	48.9	-	-	28.7	76.6	60.6
22	JH-31314	8.4	13.8	71.4	11.3	14.2	6.7	-	14.6	-	-	-	-	-	6.6	-	-	11.6	82.6	58.9

TABLE No. 2 (Cont...)

GRAIN YIELD & SUPERIORITY OVER THE HM-9																			
Sl No	PEDIGREE	ARSH	HYDE	KARI	KOLH	MAND	COIM	POCB	BANG	ZN 4 MEAN	UDAI	BANS	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 1 UDHA	ZN 5 GODH	OV'L MEAN	
23	JH-31285	33.8	-	91.1	4.5	5.9	-	30.1	15.8	-	-	-	78.1	11	22	29.8	35.9	33.8	
24	JH-31336	-	32.3	65.6	-	-	-	36.7	7.5	-	-	-	3.1	-	3.6	89.9	58	68.7	
25	JH-31292	29.1	22.7	71.9	36.2	20.2	39.8	88.8	39.3	-	-	18	155.1	31.9	31	64.6	54.5	57.9	
26	JH-31288	24.3	24	81.2	1.2	-	0.5	43.2	14.5	-	-	3	43.1	8.9	10.6	51.5	34.3	40.1	
27	AH-97C01	-	-	82.5	16.5	-	-	27.8	2.8	-	-	-	-	-	-	45.6	36.4	39.4	
28	HK11105XHK1163-1	6.6	-	79.1	0.9	-	4.7	50.8	7.2	-	-	-	-	-	-	38.1	16.4	23.7	
29	BML7XHK1163-1	4.7	-	88.6	18	-	10.7	-	8.2	-	-	-	45.8	-	6.6	27.4	62	50.4	
30	HK11128XHK1163-1	54.5	-	-	7	-	0.6	22.9	1.9	-	-	-	29.9	-	-	9	25	19.7	
31	KMH-218	30.1	-	35.1	37.3	44.5	41.1	69.8	33.9	4.1	2.9	-	57.4	14.7	30.1	67.8	83.8	78.4	
32	KMH-3426	14.9	8.7	109.5	30.9	23.9	31.6	45	32.7	11.6	-	-	90.7	20.8	32.1	77.4	143.8	121.6	
33	LAXMI306	2.5	-	57.1	8.4	-	3	60.9	9.6	-	-	-	0.2	-	1.4	20.9	1.5	8	
34	MUKHYA-108	7.2	-	66.5	3.8	4.8	37	55.9	21.5	-	-	-	64.8	3.8	29.7	43.3	75.4	64.6	
35	SARFUNCH-171	-	-	37.9	15.7	19.8	17.5	39.1	15.7	-	-	-	12.3	-	13.2	70.8	38.3	49.2	
36	KMH-017	31.6	6.3	58.2	74.2	36.7	28.6	38.4	36.1	-	-	19.1	41.4	6.3	27.8	56.5	131.5	106.4	
37	NMH-803	-	48.4	83.1	9.9	13.3	43.3	51.1	29.1	13.4	-	11	62	22.6	23.7	71.5	60.1	63.9	
38	X8B557	33.7	0.2	85.1	95.4	67.9	65.8	96.7	60.3	-	-	-	63.2	1.4	43.1	80.5	74.4	76.4	
39	X8B691	49	23.3	0.5	94.8	31.9	40.1	78.5	43.8	24.6	-	-	95.6	19.2	34.2	50.5	76.4	67.7	
40	MCH-41	36	2.1	85.7	27.1	56.3	29.5	18	35.1	-	-	35.7	35.4	2.1	23.6	94.1	80.9	85.3	
41	MCH-42	43.1	36.9	20.8	49.2	37.1	59.8	41.7	43.3	6.1	-	25.6	146.4	41.6	35.1	78.1	82.9	81.3	
CHECKS																			
42	NAVJOT	-	-	31.3	1.7	-	-	25.1	-	-	-	-	-	-	-	41.3	14.3	23.3	
43	BIO-9637	6.6	2.7	62.4	56.5	13.8	21	84.5	29	-	-	-	69.5	0.2	19	48.1	60.4	56.3	
44	HM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone Mean		AMBI	RANC	VARA	JASH	DHOL	JASH	VARA	RANC	AMBI	Zone Mean
		BAJA	KANG	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA										
1	PIM-21	60.3	57.3	58.8	53.0	46.3	50.0	51.0	56.0	51.3	52.0	54.0	46.0	53.0	48.0	46.7	49.9						
2	L-183	60.0	53.3	56.7	52.0	47.7	50.3	51.7	56.0	51.5	51.3	53.0	47.0	49.3	49.3	48.0	49.7						
3	EHL-162308	54.7	56.0	55.3	53.0	46.7	49.3	51.0	59.0	51.8	50.3	52.7	45.0	50.3	48.7	49.0	49.3						
4	PMSY-3	59.0	57.0	58.0	55.0	49.7	50.7	55.0	58.0	53.7	53.3	55.0	49.7	52.3	51.0	47.7	51.5						
5	PMSW-4	59.3	54.3	56.8	53.0	47.7	48.7	52.3	56.7	51.7	50.7	52.3	46.7	51.0	49.7	47.7	49.7						
6	PMSQ-5	54.3	54.7	54.5	53.7	46.0	51.0	55.0	60.7	53.3	51.7	54.7	48.7	52.3	50.0	50.7	51.3						
7	HKH-308	52.7	51.3	52.0	54.7	48.3	48.3	51.0	54.0	51.3	51.0	52.3	47.0	51.3	50.3	49.0	50.2						
8	HKH-309	55.0	54.3	54.7	57.3	46.3	49.3	53.0	58.3	52.9	50.7	54.0	47.7	51.7	49.3	52.0	50.9						
9	HKH-310	52.7	54.7	53.7	54.0	47.0	49.3	50.7	55.3	51.3	51.0	50.0	45.3	48.7	49.3	51.0	49.2						
10	MALVIYA MAKKA-2	57.0	54.3	55.7	52.0	46.3	48.0	51.7	57.0	51.0	50.7	52.7	45.7	48.0	49.0	47.0	48.8						
11	HKH-311	58.7	54.3	56.5	52.7	45.7	49.3	51.7	56.3	51.1	50.7	51.0	45.3	51.0	50.3	49.0	49.6						
12	HKH-312	53.0	55.7	54.3	53.7	45.7	47.3	51.3	57.0	51.0	52.0	54.3	46.0	49.3	50.0	51.0	50.4						
13	HKH-313	60.0	61.3	60.7	52.7	45.7	49.0	51.3	55.7	50.9	51.0	53.7	47.3	50.7	52.0	52.3	51.2						
14	EH-1974	52.3	53.7	53.0	53.7	45.3	47.0	50.7	57.0	50.7	51.3	52.3	46.0	49.0	50.0	47.0	49.3						
15	EH-1936	60.0	55.7	57.8	54.0	46.0	48.3	52.3	56.0	51.3	51.3	54.7	46.7	50.0	50.7	48.3	50.3						
16	EH-2025	59.3	56.0	57.7	54.3	46.0	51.7	53.3	56.3	52.3	53.0	56.0	50.3	53.0	49.3	48.7	51.7						
17	VEH-09-1	52.7	55.7	54.2	54.3	46.0	51.0	54.0	55.3	52.1	51.7	54.0	48.7	51.3	52.0	49.3	51.2						
18	VEH-09-2	67.7	57.3	62.5	55.7	45.7	50.3	56.0	57.7	53.1	54.7	57.0	52.3	54.7	52.7	53.0	54.1						
19	REH-2101	63.7	57.3	60.5	56.3	46.7	50.3	55.0	58.0	53.3	53.3	56.0	48.0	51.3	52.0	53.7	52.4						
20	REH-2102	60.3	56.7	58.5	56.7	47.3	50.3	55.3	58.3	53.6	52.0	58.3	54.7	53.7	52.7	54.0	54.2						
21	REH-2103	65.7	61.0	63.3	56.7	55.3	51.7	55.7	59.0	55.7	54.3	58.3	53.0	56.0	52.3	51.7	54.3						
22	JH-31314	55.7	54.3	55.0	50.3	46.3	43.0	51.3	58.0	50.8	51.0	51.0	46.0	47.7	47.7	47.0	48.4						
23	JH-31285	56.0	54.7	55.3	52.0	47.7	47.3	52.3	55.0	50.9	51.0	54.0	45.7	49.7	50.7	48.3	49.9						
24	JH-31336	54.3	60.7	57.5	51.3	46.0	47.0	51.3	56.7	50.5	50.7	53.7	44.3	49.0	49.7	48.7	49.3						

Table No. 2 (Continued)

SI	No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone				
			BAJA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI
25	JH-31292	59.0	59.0	59.0	58.0	46.3	51.3	54.7	55.3	53.1	51.3	55.3	48.7	54.0	52.0	48.0	51.6
26	JH-31288	54.3	54.0	54.2	51.0	46.3	46.3	50.7	55.7	50.0	50.3	51.7	45.7	49.7	48.7	48.7	49.1
27	AH-97001	52.7	53.0	52.8	54.0	46.0	50.7	53.0	57.0	52.1	50.7	51.7	47.0	51.0	50.3	46.7	49.6
28	HK1105XHK1163-1	59.7	54.7	57.2	54.7	45.0	46.7	55.3	58.0	51.9	51.3	54.0	47.7	51.0	51.3	49.3	50.8
29	BML7XHK1163-1	61.7	55.3	58.5	58.7	53.0	51.3	56.3	58.0	55.5	54.7	56.0	52.3	55.7	52.7	52.7	54.0
30	HK1128XHK1163-1	59.0	55.0	57.0	56.7	47.0	52.7	54.7	58.0	53.8	52.0	57.3	48.3	55.0	52.7	50.7	52.7
31	KMH-218	61.7	57.7	59.7	56.3	46.0	50.0	55.7	57.0	53.0	54.3	56.7	52.0	55.3	51.3	52.0	53.6
32	KMH-3426	61.0	60.0	60.5	55.0	46.0	50.7	51.0	55.7	51.7	52.0	55.3	50.0	53.0	50.3	52.3	52.2
33	LAXMI306	59.7	53.3	56.5	52.3	45.7	48.3	51.0	58.0	51.1	51.3	53.3	46.0	50.0	50.0	46.7	49.6
34	MUKHYA-108	58.7	55.0	56.8	56.0	46.0	51.3	56.0	58.7	53.6	52.0	56.0	49.7	52.0	51.0	52.0	52.1
35	SARPUNCH-71	60.7	59.3	60.0	56.7	46.3	51.3	55.7	58.0	53.6	52.3	58.0	51.3	55.7	52.3	51.0	53.4
36	KMH-017	59.7	57.0	58.3	55.7	45.7	51.7	55.7	57.0	53.1	52.3	58.3	52.0	53.0	50.7	52.3	53.1
37	NMH-803	54.0	56.7	55.3	54.0	47.7	51.0	54.7	54.3	52.3	51.0	55.0	51.7	50.3	50.7	48.3	51.2
38	X8B557	54.0	60.3	62.2	53.7	46.7	51.0	56.0	59.0	53.3	52.7	56.3	51.3	54.0	53.3	53.0	53.4
39	X8B691	59.0	57.3	58.2	55.3	46.0	49.3	54.7	60.0	53.1	51.0	54.3	49.7	52.0	50.7	51.0	51.4
40	MCH-41	61.3	57.7	59.5	58.7	51.3	52.7	56.3	58.7	55.5	53.7	59.3	53.7	55.0	54.7	53.0	54.9
41	MCH-42	61.3	58.0	59.7	58.0	50.7	51.0	56.0	55.0	54.1	54.0	57.7	53.3	56.0	51.7	51.7	54.1
	CHECKE																
42	NAVJOT	54.3	54.3	54.3	51.0	46.0	50.0	51.3	58.3	51.3	51.3	53.7	46.3	48.7	49.3	47.0	49.4
43	BIO-9637	59.0	57.3	58.2	54.7	46.0	51.7	53.7	57.7	52.7	51.7	55.7	49.0	51.3	49.7	47.7	50.8
44	HM-9	50.7	54.7	52.7	55.7	46.0	50.0	50.7	59.0	52.3	53.3	54.0	48.0	51.3	51.3	49.0	51.3
	Loc. Mean	58.1	56.2	57.1	54.5	47.0	49.8	53.3	57.2	52.4	51.9	54.7	48.6	51.8	50.7	49.9	51.2
	C.D. (5%)	1.70	1.50	4.70	3.00	3.20	2.20	1.80	2.80	1.80	1.50	3.10	2.00	1.50	2.50	1.20	1.40
	C.D. (1%)	2.30	2.00	6.20	4.00	4.20	2.90	2.40	3.80	2.40	2.00	4.10	2.70	2.00	3.30	1.60	1.80
	C.V. (%)	1.81	1.64	4.04	3.41	4.13	2.71	2.08	3.05	2.78	1.75	3.47	2.56	1.84	3.04	1.49	2.39
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone		OV'L		OV'L Mean
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	UDHA	GODH		
1	PLM-21	54.0	48.7	48.3	55.3	52.3	48.7	51.2	51.3	48.3	51.7	50.4	51.5	50.3	48.0	49.2
2	L-183	53.7	51.7	47.3	56.3	51.0	49.0	51.5	51.3	49.0	52.0	50.8	51.4	50.7	47.7	49.2
3	EHL-162308	53.0	50.0	47.7	55.3	50.3	48.3	50.8	51.0	45.0	50.0	48.7	50.7	49.3	48.0	48.7
4	PMSY-3	56.0	52.3	50.3	52.7	53.0	51.7	52.7	51.7	50.3	53.0	51.7	52.9	50.7	48.3	49.5
5	PMSW-4	55.0	49.7	47.7	54.7	50.7	48.0	50.9	51.3	49.0	53.3	51.2	51.3	50.3	47.3	48.8
6	PMSQ-5	56.3	53.7	49.7	56.3	52.0	50.0	53.0	51.3	48.3	55.0	51.6	52.5	53.0	47.7	50.3
7	HKH-308	55.3	51.3	49.3	51.7	51.7	49.3	51.4	51.0	46.3	51.0	49.4	50.8	49.0	47.3	48.2
8	HKH-309	54.3	53.7	50.3	52.3	51.7	49.7	52.0	51.0	47.3	53.7	50.7	52.0	49.7	48.3	49.0
9	HKH-310	54.0	51.0	49.7	54.7	51.7	50.0	51.8	51.7	50.0	52.3	51.3	51.1	49.7	48.3	49.0
10	MALVIYA MAKKA-2	53.3	52.3	49.7	50.7	50.0	48.0	50.7	51.3	49.0	50.7	50.3	50.7	49.0	46.7	47.8
11	HKH-311	55.7	52.0	49.3	50.3	53.0	49.7	51.7	51.0	50.3	53.3	51.6	51.4	48.7	48.3	48.5
12	HKH-312	54.7	52.3	48.3	50.0	51.0	50.7	51.2	51.0	49.3	52.7	51.0	51.2	51.7	47.7	49.7
13	HKH-313	55.7	52.3	48.0	57.0	54.0	48.7	52.6	52.7	49.0	54.0	51.9	52.5	51.0	49.7	50.3
14	EH-1974	52.3	47.3	48.3	48.3	49.7	47.7	48.9	50.7	48.3	51.7	50.2	50.0	48.7	46.3	47.5
15	EH-1986	57.0	52.3	48.7	53.3	53.0	50.3	52.4	50.3	50.3	52.3	51.0	51.9	52.0	47.7	49.8
16	EH-2025	55.3	52.7	49.3	55.0	53.0	49.0	52.4	50.3	47.0	52.3	49.9	52.3	51.7	48.3	50.0
17	VEH-09-1	55.7	52.0	50.0	53.0	53.0	50.0	52.3	52.3	50.7	54.3	52.4	52.1	53.3	49.3	51.3
18	VEH-09-2	56.0	56.0	53.7	56.0	55.7	52.3	54.9	54.3	50.0	57.0	53.8	54.8	54.3	52.3	53.3
19	REH-2101	53.7	54.3	53.3	54.3	54.0	52.7	53.7	56.7	49.0	56.7	54.1	53.9	52.3	50.3	51.3
20	REH-2102	57.0	53.0	54.7	57.0	54.3	48.3	54.1	54.7	49.0	56.0	53.2	54.3	54.3	50.3	52.3
21	REH-2103	57.3	54.3	51.3	58.3	52.3	53.3	54.5	56.0	50.7	56.3	54.3	55.5	54.0	49.7	51.8
22	JH-31314	52.7	49.0	48.0	50.7	50.7	48.3	49.9	51.3	46.3	50.7	49.4	50.1	51.7	48.0	49.8
23	JH-31285	54.0	48.7	48.3	51.7	51.3	48.3	50.4	52.0	48.0	52.0	50.7	50.8	51.3	48.3	49.8
24	JH-31336	53.7	48.3	47.7	55.7	50.3	48.3	50.7	50.7	47.3	50.7	49.6	50.7	49.3	48.3	48.8

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED													Zone Mean		OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	UDHA	GODH	OV'L Mean		
25	JH-31292	57.7	54.0	53.3	56.7	54.3	53.0	54.8	54.3	47.3	54.3	52.0	53.5	53.0	51.0	52.0		
26	JH-31283	54.0	50.0	46.7	51.0	52.0	49.7	50.6	51.7	45.7	52.0	49.8	50.3	50.7	46.7	48.7		
27	AH-97001	54.7	49.0	48.7	56.3	50.7	48.7	51.3	51.3	46.0	52.3	49.9	51.0	50.3	47.0	48.7		
28	HKII105xHKII163-1	56.3	50.7	49.3	54.0	52.3	48.7	51.9	52.0	50.3	53.7	52.0	52.1	50.0	47.3	48.7		
29	BML7xHKII163-1	57.7	55.3	51.7	58.3	55.7	52.7	55.2	55.3	50.7	55.3	53.8	55.0	51.0	52.0	51.5		
30	HKII128xHKII163-1	57.0	54.0	51.3	58.3	54.3	52.7	54.6	54.3	50.7	54.0	53.0	53.9	55.0	49.7	52.3		
31	KMH-218	56.7	54.3	53.7	55.0	53.7	52.3	54.3	55.0	49.0	54.0	52.7	54.1	53.7	49.7	51.7		
32	KMH-3426	55.3	52.0	49.7	55.3	52.3	49.7	52.4	52.0	47.3	54.0	51.1	52.7	53.7	48.3	51.0		
33	LAXMI306	54.7	49.0	47.7	53.3	50.7	48.7	50.7	51.0	46.3	52.0	49.8	50.9	51.7	47.7	49.7		
34	MUKHYA-108	57.3	53.7	52.0	60.7	53.0	53.3	55.0	52.7	48.7	55.0	52.1	53.7	52.3	49.7	51.0		
35	SARPUNCH-171	56.3	53.7	53.7	58.0	54.0	50.3	54.3	53.3	51.0	54.3	52.9	54.2	54.7	50.7	52.7		
36	KDMH-017	56.7	54.0	50.0	55.0	53.7	53.7	53.8	52.3	44.3	54.0	50.2	53.4	54.0	51.3	52.7		
37	NMH-803	55.0	51.7	50.0	54.7	53.3	51.7	52.7	51.3	47.3	52.3	50.3	52.1	54.0	49.3	51.7		
38	X8B557	56.0	54.0	50.7	56.3	55.3	53.7	54.3	56.3	48.3	57.0	53.9	54.5	51.7	51.3	51.5		
39	X8B691	56.3	53.3	51.7	54.3	52.7	52.0	53.4	51.3	45.3	55.0	50.6	52.8	52.7	49.3	51.0		
40	MCH-41	56.3	56.0	55.0	58.3	54.7	56.0	56.1	55.3	51.7	57.0	54.7	55.7	54.0	52.7	53.3		
41	MCH-42	57.7	55.0	48.3	53.3	53.7	53.3	53.6	54.0	48.0	55.7	52.6	54.2	55.0	52.0	53.5		
CHECKS																		
42	NAVJOT	55.0	49.7	55.3	50.7	50.7	46.3	51.3	51.3	46.7	53.3	50.4	50.9	52.7	47.7	50.2		
43	BIO-9637	53.3	51.7	50.7	53.0	50.7	48.7	51.3	51.3	49.0	51.7	50.7	52.0	49.7	48.0	48.8		
44	HM-9	56.0	50.3	50.7	55.0	52.3	48.0	52.1	51.3	47.0	53.3	50.6	51.8	50.7	49.3	50.0		
	Loc. Mean	55.4	52.1	50.2	54.5	52.5	50.3	52.5	52.4	48.4	53.5	51.4	52.4	51.7	48.9	50.3		
	C.D. (5%)	1.80	1.90	2.20	5.80	2.10	0.90	1.60	1.30	1.50	1.40	2.00	0.90	4.21	1.61	2.09		
	C.D. (1%)	2.40	2.50	2.90	7.70	2.80	1.20	2.10	1.70	2.00	1.80	2.60	1.20	5.01	2.03	2.06		
	C.V. (%)	2.05	2.22	2.72	6.59	2.49	1.13	2.68	1.48	1.89	1.58	2.38	2.88	5.01	2.03	2.06		
	F (Prob.)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00		

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% SILKING										Zone		Z			
		BAJA	KANG	Mean	DELH	KARN	LUDH	PANT	KANP	Mean	BAHR	DHOL	JASH		VARA	RANC	AMBI
1	PIM-21	62.3	61.3	61.8	55.7	48.3	51.0	53.7	60.3	53.8	54.0	54.3	48.7	58.3	52.0	49.7	5
2	L-183	62.3	57.3	59.8	54.7	49.7	51.3	55.0	62.7	54.7	53.3	54.3	50.3	54.0	53.7	51.0	5
3	EHL-162308	57.0	58.7	57.8	55.7	48.7	50.3	53.7	63.3	54.3	52.3	53.7	47.7	54.3	53.3	51.7	5
4	PMSY-3	61.7	60.0	60.8	58.0	51.7	51.7	58.7	62.3	56.5	55.3	56.0	52.0	56.7	54.7	50.7	5
5	PMSW-4	61.7	58.3	60.0	55.7	49.7	49.7	55.7	60.0	54.1	52.7	53.0	49.3	55.7	54.0	50.3	5
6	PMSQ-5	56.3	59.0	57.7	56.7	48.0	52.0	57.7	64.7	55.8	54.3	55.7	51.3	56.0	54.0	54.3	5
7	HKH-308	54.7	55.0	54.8	59.0	50.3	49.3	54.0	58.3	54.2	53.3	53.0	50.0	55.3	54.3	51.7	5
8	HKH-309	57.0	57.7	57.3	56.7	48.3	50.3	56.0	63.0	54.9	52.7	55.0	50.0	55.3	53.3	55.3	5
9	HKH-310	54.7	58.3	56.5	59.3	49.3	50.3	54.0	59.7	54.5	53.0	51.0	47.3	53.7	53.7	53.0	5
10	MALVIYA MAKKA-2	59.0	59.0	59.0	54.0	48.3	49.0	54.7	61.7	53.5	53.0	54.3	48.3	53.3	53.7	52.7	5
11	HKH-311	61.0	58.3	59.7	55.7	47.7	50.3	53.7	62.3	53.9	52.7	51.3	48.7	53.7	54.3	52.0	5
12	HKH-312	55.0	59.0	57.0	57.0	47.7	48.3	54.7	61.7	53.9	54.3	55.0	48.3	53.3	54.3	53.3	5
13	HKH-313	62.0	64.7	63.3	55.0	47.7	50.0	55.3	59.0	53.4	53.0	54.0	50.3	53.7	55.7	55.3	5
14	EH-1974	54.3	57.7	56.0	52.3	47.3	48.0	54.0	61.3	52.6	53.7	53.0	48.0	53.3	54.3	50.0	5
15	EH-1986	62.3	58.7	60.5	57.3	48.0	49.3	55.3	60.0	54.0	53.7	55.7	52.7	54.7	54.7	50.7	5
16	EH-2025	61.5	59.3	60.3	57.7	48.0	52.7	57.0	61.3	55.3	55.0	57.3	53.3	56.0	53.7	50.7	5
17	VEH-09-1	55.0	59.0	57.0	57.7	48.0	52.0	57.7	60.3	55.1	53.7	55.0	51.7	55.3	56.0	51.3	5
18	VEH-09-2	70.0	60.3	65.2	58.3	47.7	51.3	59.3	61.3	55.6	56.7	57.7	54.3	58.3	56.7	56.0	5
19	REH-2101	65.7	60.7	63.2	59.7	48.7	51.3	58.7	62.3	56.1	55.0	57.0	51.3	56.3	56.0	56.7	5
20	REH-2102	63.0	61.0	62.0	59.7	49.3	51.3	59.0	62.7	56.4	54.0	59.7	56.0	58.7	56.7	57.0	5
21	REH-2103	67.7	64.3	66.0	60.7	57.3	52.7	59.0	63.0	58.5	56.7	60.0	55.7	60.7	56.7	54.0	5
22	JH-31314	57.7	59.0	57.8	53.0	48.3	49.0	54.0	62.7	53.4	53.0	52.0	48.0	52.0	52.0	49.7	5
23	JH-31285	59.0	53.7	58.8	55.0	49.7	48.3	55.7	59.7	53.7	53.0	55.0	48.3	54.0	54.7	51.0	5
24	JH-31336	56.3	64.0	60.2	54.0	48.0	48.0	53.7	61.0	52.9	52.7	55.0	46.7	53.3	53.7	51.7	5

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% SILKING										Zone				
		BAJA	KANG	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI
25	JH-31292	61.7	62.7	62.2	60.0	48.3	52.3	58.0	59.7	55.7	53.3	56.0	51.0	58.0	56.0	51.0
26	JH-31288	56.3	57.7	57.0	53.7	48.3	47.3	52.3	60.3	52.4	52.3	52.7	47.7	53.3	53.0	51.3
27	AH-97001	55.0	56.3	55.7	38.7	48.3	51.7	55.3	62.7	51.3	52.7	52.7	49.7	55.3	54.3	50.3
28	HK11105xHK1163-1	62.3	58.3	60.3	58.0	47.3	47.7	58.7	62.7	54.9	53.7	54.7	51.0	54.3	55.7	52.3
29	BML7xHK1163-1	64.0	58.7	61.3	61.3	55.0	52.3	60.0	62.7	58.3	56.7	57.7	55.7	61.7	56.7	55.0
30	HK11128xHK1163-1	62.0	58.0	60.0	60.0	49.0	53.7	57.7	62.3	56.5	54.7	59.0	52.0	60.0	56.7	55.0
31	KMH-218	64.0	60.3	62.2	59.7	48.0	51.0	59.0	61.3	55.8	56.3	58.0	54.7	59.3	55.3	54.3
32	KMH-3426	63.7	63.3	63.5	57.7	48.3	51.7	53.3	59.7	54.1	54.0	56.7	53.3	56.3	54.3	55.0
33	LAXMI306	62.0	57.0	59.5	54.7	47.7	49.3	54.3	62.3	53.7	53.3	54.3	48.3	55.3	54.3	49.0
34	MUKHYA-108	61.3	58.3	59.8	58.0	48.0	52.3	59.0	64.0	56.3	54.3	56.7	52.0	56.0	55.7	55.0
35	SARPUNCH-171	63.3	63.0	63.2	59.0	48.3	52.3	59.0	62.7	56.3	54.7	59.0	54.0	61.3	56.3	54.7
36	KDMH-017	61.7	60.7	61.2	59.0	48.0	52.7	58.7	62.3	56.1	54.3	59.3	54.3	58.0	55.0	55.0
37	NMH-803	56.3	60.7	58.5	57.0	50.0	52.0	58.3	57.7	55.0	53.7	56.3	52.7	54.7	54.3	51.0
38	X8B557	66.0	63.7	64.8	57.0	48.7	52.0	59.3	63.0	56.0	54.7	57.3	54.7	57.7	57.3	56.0
39	X8B691	61.0	61.0	61.0	57.7	48.0	50.3	58.7	64.0	55.7	53.0	55.3	52.3	55.3	55.0	53.3
40	MCH-41	63.7	61.0	62.3	61.3	53.3	53.7	59.7	62.7	58.1	55.7	61.0	55.0	59.3	58.7	56.0
41	MCH-42	63.7	61.3	62.5	60.0	52.7	52.0	59.7	59.0	56.7	56.0	58.7	55.7	59.7	55.7	54.3
CHECKS																
42	NAVJOT	56.7	58.3	57.5	54.0	48.0	51.0	55.0	62.0	54.0	53.3	54.3	48.7	53.3	53.7	49.3
43	BIO-9637	61.3	60.3	60.8	58.0	48.0	52.7	57.0	62.0	55.5	53.7	57.0	52.0	55.7	54.0	50.7
44	HM-9	52.7	59.3	56.0	58.3	48.0	51.0	54.0	63.0	54.9	55.3	54.7	51.0	55.7	55.0	52.0
Loc. Mean																
C.D. (5%)																
C.D. (1%)																
C.V. (%)																
F (Prob.)																
		0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% SILKING												Zone Mean		OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	UDHA	GODH	OV'L Mean		
1	PLM-21	55.3	52.0	50.7	56.3	54.0	50.7	53.2	52.7	51.3	52.7	52.2	54.7	49.0	51.8		
2	L-183	56.0	53.7	49.3	57.3	52.7	50.7	53.3	52.3	52.0	53.3	52.6	54.7	49.3	52.0		
3	EHL-162308	54.3	52.3	49.7	56.3	52.7	50.3	52.6	52.3	48.0	52.0	50.8	54.0	48.7	51.3		
4	PMSY-3	57.0	55.3	52.7	53.7	54.7	53.7	54.5	53.3	53.7	54.7	53.9	54.7	49.7	52.2		
5	PMSW-4	55.7	53.0	49.3	55.7	52.3	49.3	52.6	52.3	52.3	55.3	53.3	55.0	48.0	51.5		
6	PMSQ-5	57.7	55.7	52.0	57.3	54.0	52.0	54.8	52.7	51.3	55.7	53.2	57.0	48.7	52.8		
7	HKH-368	56.3	53.7	51.7	52.7	53.0	51.3	53.1	52.3	49.3	52.0	51.2	53.3	48.0	50.7		
8	HKH-369	55.7	54.3	52.0	53.3	53.3	51.7	53.4	52.3	50.3	54.3	52.3	54.3	49.7	52.0		
9	HKH-310	54.0	52.7	51.7	55.7	53.7	52.0	53.3	53.0	63.3	53.0	56.4	54.0	49.3	51.7		
10	MALVIYA MAKKA-2	54.7	52.7	50.7	51.7	48.3	50.0	51.3	52.7	52.0	52.3	52.3	54.0	49.0	51.5		
11	HKH-311	55.7	54.0	51.0	51.3	54.7	51.0	52.9	52.3	53.7	54.7	53.6	54.0	48.7	51.3		
12	HKH-312	54.7	54.3	51.0	51.0	52.0	52.0	52.5	52.0	52.3	53.0	52.4	53.0	48.7	50.8		
13	HKH-313	57.0	55.0	50.3	58.0	55.3	50.3	54.3	54.3	52.0	54.3	53.6	55.3	51.0	53.2		
14	EH-1974	53.7	49.0	50.3	49.3	51.3	48.7	50.4	52.0	51.7	51.7	51.8	53.3	47.0	50.2		
15	EH-1986	58.3	54.3	51.0	54.3	54.7	52.3	54.2	52.0	53.3	54.3	53.2	54.7	50.0	52.3		
16	EH-2025	56.3	55.0	51.3	56.0	54.3	50.7	53.9	51.3	50.0	54.0	51.8	55.7	49.3	52.5		
17	VEH-09-1	56.3	54.0	52.0	54.0	54.7	52.0	53.8	56.0	54.0	55.0	55.0	57.0	52.3	54.7		
18	VEH-09-2	57.3	57.3	55.3	57.0	57.0	54.3	56.4	56.7	53.3	57.0	55.7	56.7	53.7	55.2		
19	REH-2101	54.7	56.7	55.3	55.3	55.7	54.7	55.4	59.0	51.7	58.3	56.3	55.7	52.0	53.8		
20	REH-2102	58.0	55.3	57.3	58.0	56.3	50.3	55.9	57.0	52.0	57.0	55.3	57.7	52.0	54.8		
21	REH-2103	58.3	56.7	53.0	59.3	53.7	55.0	56.0	58.7	53.7	57.7	56.7	57.3	51.3	54.3		
22	JH-31314	54.0	52.3	50.0	51.7	52.7	50.0	51.8	52.3	49.3	52.0	51.2	56.0	49.0	52.5		
23	JH-31285	55.7	50.7	50.3	52.7	53.3	50.0	52.1	53.3	51.0	52.3	52.2	55.3	49.3	52.3		
24	JH-31336	55.3	49.7	49.3	56.7	52.0	50.0	52.2	52.0	50.3	51.3	51.2	54.0	49.7	51.8		

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 50% SILKING											OV'L			
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	OV'L Mean		
25	JH-31292	58.7	55.7	55.3	57.7	56.0	55.3	56.4	56.7	50.3	54.7	53.9	55.8	56.3	52.3	54.3
26	JH-31288	55.3	52.0	48.0	52.0	53.3	51.3	52.0	53.0	48.7	52.0	51.2	52.4	56.0	48.0	52.0
27	AH-97001	56.3	51.7	50.3	57.3	52.7	50.3	53.1	53.0	49.0	54.0	52.0	52.6	54.3	48.3	51.3
28	HK11105xHK1163-1	57.3	53.3	51.3	55.0	53.7	50.7	53.6	54.3	53.3	55.7	54.4	54.6	54.3	48.7	51.5
29	BML7xHK1163-1	58.7	57.3	53.7	59.3	57.3	54.7	56.8	57.3	53.7	56.3	55.8	57.5	56.0	53.3	54.7
30	HK11128xHK1163-1	58.0	55.3	54.0	59.3	56.0	54.7	56.2	55.7	53.7	56.0	55.1	56.5	58.7	52.0	55.3
31	KMH-218	58.0	56.7	56.3	56.0	55.0	54.3	56.1	58.0	52.0	55.3	55.1	56.5	56.7	51.3	54.0
32	KMH-3426	57.0	54.7	51.7	56.3	53.7	51.7	54.2	54.3	51.0	54.7	53.3	55.1	57.0	50.0	53.5
33	LAXMI306	55.7	51.3	51.3	54.3	53.0	50.3	52.7	52.3	49.3	52.3	51.3	53.3	55.3	48.3	51.8
34	MUKHYA-108	58.7	55.0	54.3	61.7	55.3	55.3	56.7	54.7	52.0	55.7	54.1	56.1	55.7	51.0	53.3
35	SARPUNCH-171	57.0	55.7	56.0	59.0	55.7	52.3	55.9	56.0	54.0	56.3	55.4	56.8	58.0	52.3	55.2
36	KDMH-C17	58.0	55.3	52.0	56.0	55.0	54.7	55.2	55.7	48.0	56.0	53.2	55.9	57.7	52.7	55.2
37	NMH-803	57.0	53.7	52.0	55.7	54.7	53.7	54.4	53.0	50.3	52.7	52.0	54.4	57.7	51.0	54.3
38	X8B557	57.3	55.7	52.7	57.3	56.7	54.7	55.7	59.3	51.7	58.0	56.3	56.8	55.3	53.3	54.3
39	X8B691	57.0	55.3	53.7	55.3	54.3	54.0	54.9	53.3	48.3	55.7	52.4	55.1	56.0	51.3	53.7
40	MCH-41	57.3	58.0	57.3	59.3	56.3	58.0	57.7	58.0	54.7	58.3	57.0	58.1	57.7	54.0	55.8
41	MCH-42	58.7	58.0	50.7	54.3	54.7	55.0	55.2	55.3	51.0	56.3	54.2	56.5	58.0	53.3	55.7
CHECKS																
42	NAVJOI	56.3	53.3	57.3	51.7	53.0	47.7	53.2	52.7	50.0	55.0	52.6	53.4	56.7	49.3	53.0
43	BIO-9637	54.7	53.7	53.0	54.0	52.7	50.3	53.1	52.3	52.0	52.7	52.3	54.4	54.0	49.7	51.8
44	HM-9	57.3	52.7	52.7	56.0	54.0	50.0	53.8	52.3	50.0	55.0	52.4	54.1	56.0	50.7	53.3
	Loc. Mean	56.5	54.2	52.3	55.5	54.1	52.1	54.1	54.1	51.7	54.6	53.5	54.8	55.7	50.3	53.0
	C.D. (5%)	1.80	1.40	2.30	5.80	2.50	0.90	1.60	1.30	4.40	1.70	2.80	1.00	3.34	1.72	1.91
	C.D. (1%)	2.40	1.90	3.00	7.60	3.20	1.10	2.10	1.70	5.80	2.30	3.80	1.30			
	C.V. (%)	1.96	1.64	2.68	6.41	2.79	1.01	2.62	1.46	5.25	1.92	3.28	3.11	3.70	2.11	1.79
	F (Prob.)	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 75% DRY HUSK										Zone Mean					
		BAJA	KANG	Mean	DELH	KARN	LUEH	PANT	KANP	Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean
1	PLM-21	107.7	95.7	101.7	85.3	80.0	81.0	102.3	90.3	87.8	81.3	88.3	87.3	92.3	94.5	85.7	88.3
2	L-183	103.0	95.7	99.3	81.3	82.3	80.7	99.0	86.7	86.0	80.3	88.3	89.0	88.0	93.0	79.0	86.3
3	EHL-162308	106.3	94.7	100.5	78.7	79.7	80.3	100.0	86.7	85.1	80.7	85.3	87.7	88.3	94.3	78.3	85.8
4	PMSY-3	106.7	98.7	102.7	86.7	80.3	83.7	103.7	90.7	89.0	80.7	89.7	87.7	92.3	96.7	81.0	87.8
5	PMSW-4	107.7	97.3	102.5	82.7	81.0	80.3	99.7	91.3	87.0	81.7	89.0	88.7	90.7	94.7	83.7	88.1
6	PMSQ-5	108.3	98.0	103.2	81.7	79.3	84.0	99.3	88.3	86.5	81.0	90.3	88.7	91.0	94.7	81.0	87.8
7	HKH-3C8	106.7	99.7	103.2	78.0	81.3	81.7	101.7	91.3	86.8	79.3	90.3	87.0	92.3	93.7	87.3	88.3
8	HKH-3C9	106.3	95.7	101.0	88.7	76.7	82.0	101.0	86.7	87.0	80.3	91.3	88.0	90.0	93.3	87.7	88.4
9	HKH-310	106.7	96.7	101.7	94.0	81.3	83.0	102.3	88.0	89.7	80.3	91.3	87.7	90.0	93.3	87.3	88.3
10	MALVIYA MAKKA-2	106.7	94.3	100.5	82.7	80.7	78.3	99.7	89.0	86.1	78.7	87.0	84.3	88.3	96.3	79.0	85.6
11	HKH-311	111.7	95.7	103.7	88.0	79.3	79.0	102.7	88.7	87.5	80.3	91.3	88.3	88.7	96.3	83.7	88.1
12	HKH-312	109.3	96.3	102.8	89.3	79.3	79.3	101.7	85.0	86.9	79.3	90.0	87.7	88.0	95.0	84.0	87.3
13	HKH-313	106.3	94.7	100.5	79.7	80.0	81.3	101.7	87.3	86.0	80.3	87.3	87.0	88.7	98.0	82.3	87.3
14	EH-1974	108.3	94.3	101.3	82.7	80.0	77.3	100.0	85.0	85.0	81.7	86.3	87.0	87.3	96.0	78.7	86.2
15	EH-1986	104.3	99.0	101.7	82.7	79.3	82.0	103.0	91.3	87.7	84.3	90.0	87.0	90.7	97.0	81.0	88.3
16	EH-2025	107.0	97.0	102.0	88.0	79.3	84.0	101.0	91.7	88.8	80.7	89.3	91.7	90.3	94.7	81.0	87.9
17	VEH-09-1	105.3	97.3	101.3	84.3	80.7	81.7	99.7	88.0	86.9	80.3	88.7	88.3	90.3	96.7	83.7	88.0
18	VEH-09-2	110.0	99.0	104.5	89.0	80.7	83.0	102.0	85.7	88.1	80.7	93.7	93.0	94.3	96.0	81.0	89.8
19	REH-2101	108.7	99.7	104.2	84.7	83.7	83.3	102.7	85.0	87.9	82.3	92.3	88.0	91.0	97.3	84.7	89.3
20	REH-2102	109.7	100.0	104.8	93.7	81.0	84.3	103.7	86.7	89.9	80.7	92.7	92.7	93.3	97.7	87.0	90.7
21	REH-2103	114.7	99.3	107.0	87.0	85.7	84.0	104.0	88.3	89.8	82.0	93.7	92.3	94.0	98.0	82.0	90.3
22	JH-31314	104.0	95.3	99.7	85.7	80.3	82.0	99.0	88.0	87.0	80.0	89.0	88.0	89.3	94.7	78.7	86.6
23	JH-31285	105.0	98.3	101.7	88.3	85.0	80.3	101.0	90.0	88.9	79.0	90.3	88.0	89.7	94.7	83.7	87.6
24	JH-31336	100.7	99.0	99.8	75.7	80.0	79.3	100.3	91.0	85.3	79.7	89.7	88.0	89.3	95.7	75.3	86.3

Table No. 2 (Continued)

SI	No	PEDIGREE	DAYS TO 75% DRY HUSK										Zone				
			BAJA	KANG	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DEOL	JASH	VARA	RANC	AMBI	Zone Mean
25	JH-31292	102.7	101.0	101.8	92.3	80.3	83.7	102.7	92.0	90.2	80.0	91.3	87.7	93.7	96.7	83.7	88.8
26	JH-31288	104.7	99.3	102.0	81.7	79.7	80.3	101.3	92.0	87.0	82.0	89.7	88.7	90.3	94.0	81.0	87.6
27	AH-97001	135.3	99.0	117.2	85.3	80.3	84.3	101.3	94.3	89.1	81.0	87.7	87.3	89.3	94.7	84.0	87.3
28	HKI1105xHKI163-1	111.3	99.7	105.5	86.3	80.0	79.7	102.7	92.0	88.1	79.0	90.3	88.7	91.0	97.0	85.7	88.6
29	BML7xEKI163-1	113.7	100.3	107.0	94.0	87.0	85.0	103.7	88.3	91.6	78.7	91.7	93.7	94.0	96.3	87.3	90.3
30	HKI1128xHKI163-1	114.3	99.0	106.7	88.0	80.7	85.7	103.7	89.0	89.4	82.3	97.7	88.3	96.0	95.7	87.3	91.2
31	KMH-258	107.7	98.0	102.8	94.3	81.0	83.7	105.0	87.0	90.2	82.3	93.7	93.0	95.0	94.0	87.0	90.8
32	KMH-3426	111.0	98.0	104.5	87.3	80.0	83.3	103.0	87.3	88.2	82.3	91.0	92.0	92.0	95.3	85.0	89.6
33	LAXMI306	109.0	98.7	103.8	86.3	79.0	81.3	100.0	90.0	87.3	81.3	89.0	87.0	92.0	95.7	78.0	87.2
34	MUKHYA-108	108.0	99.3	103.7	88.0	80.0	85.0	104.7	90.7	89.7	81.3	97.0	92.7	93.7	97.7	87.0	91.6
35	SARPONCH-171	108.0	99.0	103.5	93.0	79.7	84.3	103.7	89.0	89.9	80.7	94.3	92.7	95.7	98.0	83.3	90.8
36	KMH-C17	109.7	97.3	103.5	90.7	79.0	84.3	101.0	89.0	88.8	80.7	90.7	93.3	91.7	94.3	83.3	89.0
37	NMH-8C3	101.7	96.3	99.0	87.0	81.3	84.3	103.0	84.3	88.0	80.7	92.3	87.7	89.7	93.7	84.0	88.0
38	X8B557	106.7	98.7	102.7	87.7	81.7	83.7	105.0	91.0	89.8	79.3	95.0	90.3	91.7	97.3	84.0	89.6
39	X8B691	108.0	100.0	104.0	87.0	80.3	82.0	101.7	90.7	88.3	80.3	89.7	90.0	91.0	95.7	80.0	87.8
40	MCH-41	105.7	97.0	101.3	87.0	84.0	85.7	104.3	92.0	90.6	82.3	90.3	87.7	92.7	98.3	86.0	89.6
41	MCH-42	115.7	97.7	106.7	94.3	84.7	85.0	103.7	86.7	90.9	80.7	91.3	90.0	92.7	96.3	86.7	89.6
CHECKS																	
42	NAVJOT	102.0	98.3	100.2	81.0	83.0	81.3	99.0	90.7	87.0	81.3	86.0	87.3	88.7	94.3	82.3	87.0
43	BIO-9637	105.7	97.0	101.3	87.7	80.3	84.0	101.0	89.0	88.4	78.7	87.3	88.0	89.7	95.0	81.0	86.6
44	HM-9	105.3	97.0	101.2	86.0	80.0	80.7	102.0	89.0	87.5	81.3	89.3	88.7	91.0	96.7	83.3	88.4
	Loc. Mean	108.1	97.8	102.9	86.4	80.9	82.3	101.9	89.0	88.1	80.7	90.5	89.0	91.1	95.7	83.1	88.4
	C.D. (5%)	12.9	2.9	7.6	8.6	4.3	3.7	2.7	4.8	3.1	1.8	3.3	1.8	1.9	3.8	0.9	2.0
	C.D. (1%)	17.2	3.8	10.1	11.4	5.8	4.9	3.6	6.4	4.1	2.4	4.3	2.4	2.5	5.1	1.2	2.7
	C.V. (8)	7.38	1.80	3.65	6.14	3.31	2.78	1.65	3.32	2.79	1.41	2.22	1.27	1.29	2.47	0.65	2.04
	F (Prob.)	0.11	0.00	0.22	0.00	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 75% DRY HUSK												Zone Mean		OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	UDHA	GODH	OV'L Mean	
1	PIM-21	91.0	92.3	76.7	94.7	94.3	98.0	91.2	85.3	81.7	86.7	84.6	90.7	77.7	84.2		
2	L-183	90.0	93.7	75.3	96.0	94.7	100.0	91.6	86.7	81.3	88.0	85.3	91.3	78.0	84.7		
3	EHL-162308	90.0	92.3	75.7	97.0	91.7	98.0	90.8	83.7	80.7	83.0	82.4	89.7	77.7	83.7		
4	PMSY-3	91.0	95.7	76.3	93.7	97.3	102.0	92.7	85.3	87.0	86.7	86.3	91.3	79.3	85.3		
5	PMSW-4	90.0	94.3	75.7	94.7	93.7	98.0	91.1	84.0	82.0	86.7	84.2	92.3	77.0	84.7		
6	PMSQ-5	92.3	97.3	76.7	97.0	95.7	100.0	93.2	83.7	80.3	88.3	84.1	92.3	77.0	84.7		
7	HKH-308	92.3	95.0	77.3	92.0	97.7	98.0	92.1	84.0	82.7	85.7	84.1	91.7	77.0	84.3		
8	HKH-309	94.7	96.3	76.7	93.3	94.7	100.0	92.6	83.3	82.0	88.7	84.7	92.3	79.3	85.8		
9	HKH-310	91.3	94.7	77.0	95.7	99.7	100.0	93.1	83.0	85.7	89.0	85.9	91.7	78.0	84.8		
10	MALVIYA MAKKA-2	89.0	96.3	75.7	92.0	90.3	98.0	90.2	85.0	84.7	85.0	84.9	90.3	78.3	84.3		
11	HKH-311	93.3	96.0	77.3	91.3	95.7	98.0	91.9	86.7	87.7	91.0	88.4	92.0	77.3	84.7		
12	HKH-312	94.7	95.7	77.3	90.3	96.3	100.0	92.4	85.7	82.7	88.7	85.7	91.3	77.0	84.2		
13	HKH-313	92.3	97.3	76.3	97.7	94.7	98.0	92.7	85.0	82.7	89.0	85.6	92.0	80.3	86.2		
14	EH-1974	90.0	90.7	74.7	90.0	95.7	98.0	89.8	83.7	82.3	85.0	83.7	90.0	76.7	83.3		
15	EH-1986	93.3	95.3	76.3	94.0	94.0	100.0	92.2	87.3	84.7	87.7	86.6	91.7	79.3	80.5		
16	EH-2025	91.3	97.0	75.3	95.7	92.3	98.0	91.6	82.7	82.7	89.7	85.0	93.7	78.0	85.8		
17	VEH-09-1	89.3	96.0	75.0	93.7	92.3	100.0	91.1	84.3	87.0	86.3	85.9	91.7	81.0	86.3		
18	VEH-09-2	93.7	99.3	75.7	93.0	98.7	104.0	94.1	86.3	84.0	91.7	87.3	92.0	82.0	87.0		
19	REH-2101	91.3	96.7	77.0	94.7	98.3	102.0	93.3	87.3	82.7	91.0	87.0	93.3	80.7	87.0		
20	REH-2102	93.0	95.3	77.0	97.7	100.3	98.0	93.6	86.7	85.3	90.3	87.4	93.0	81.0	87.0		
21	REH-2103	94.0	96.7	76.7	98.3	99.3	105.0	95.0	89.0	82.7	90.3	87.3	92.6	80.0	87.5		
22	JH-31314	92.3	93.7	76.7	92.7	94.0	98.0	91.2	83.0	82.0	85.7	83.7	93.7	78.0	85.8		
23	JH-31285	92.7	91.7	77.0	93.0	95.7	98.0	91.3	84.3	84.0	88.0	85.4	91.7	78.0	84.8		
24	JH-31336	88.0	93.3	75.7	95.7	93.3	98.0	90.7	84.3	80.0	83.0	82.4	90.7	77.7	84.2		

Table No. 2 (Continued)

SI No	PEDIGREE	DAYS TO 75% DRY HUSK													Zone Mean		OV'L Mean		OV'L Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean	UDHA	GODH	OV'L Mean	OV'L Mean				
25	JH-31292	93.0	96.7	76.7	97.3	97.7	105.0	94.4	86.3	82.3	91.0	86.6	93.0	81.3	91.5	87.2				
26	JH-31288	90.7	94.0	76.7	90.7	97.3	100.0	91.6	87.3	78.3	85.3	83.7	92.0	76.0	89.3	84.0				
27	AH-97001	91.0	94.3	75.0	97.0	93.0	98.0	91.4	82.3	83.3	86.0	83.9	90.7	77.3	91.1	84.0				
28	HK11105xHK1163-1	92.3	95.3	77.7	95.3	96.7	98.0	92.6	86.3	85.7	88.0	86.7	92.0	77.7	90.8	84.8				
29	BML7xHK1163-1	95.0	99.0	77.3	99.7	102.0	105.0	96.3	86.7	87.0	92.7	88.8	93.3	81.3	93.5	87.3				
30	HK11128xHK1163-1	93.7	96.7	77.3	99.7	99.3	102.0	94.8	86.7	86.0	89.7	87.4	95.0	82.0	92.7	88.5				
31	KMH-218	93.3	97.7	76.3	95.7	99.7	105.0	94.6	86.3	83.7	92.3	87.4	94.7	80.0	92.3	87.3				
32	KMH-3426	93.7	96.7	76.3	96.0	94.3	100.0	92.8	84.7	83.0	93.7	87.1	95.0	78.7	91.2	86.8				
33	LAXMI306	91.7	91.3	76.7	92.7	96.0	98.0	91.1	85.0	79.0	86.0	83.3	93.7	77.3	89.3	85.5				
34	MUKHYA-108	93.0	97.0	77.3	100.7	102.0	105.0	95.8	85.0	85.7	92.3	87.7	93.3	79.7	92.9	86.5				
35	SARPUNCH-171	93.3	97.7	76.7	95.3	98.3	100.0	93.6	86.7	85.0	89.0	86.9	95.0	80.7	92.0	87.8				
36	KDMH-017	91.7	97.3	75.7	96.3	95.0	105.0	93.5	85.0	80.3	88.7	84.7	93.7	81.3	90.9	87.5				
37	NMH-803	90.3	94.7	75.3	95.7	95.3	102.0	92.2	84.7	82.0	87.0	84.6	93.0	79.7	89.7	86.3				
38	X8B557	92.3	97.7	75.3	96.0	99.3	105.0	94.3	87.7	84.0	93.0	88.2	91.3	82.3	91.9	86.8				
39	X8B691	91.7	96.7	74.0	95.0	92.7	105.0	92.5	85.7	82.7	90.3	86.2	92.3	80.3	90.5	86.3				
40	MCH-41	91.3	98.7	77.0	95.7	97.0	110.0	94.9	87.7	86.7	89.0	87.8	94.0	82.7	92.1	88.3				
41	MCH-42	91.7	98.7	76.0	94.7	98.7	105.0	94.1	87.3	84.3	92.3	88.0	93.7	82.3	92.5	88.0				
CHECKS																				
42	NAVJOT	93.0	95.7	77.0	90.7	94.3	95.0	90.9	83.0	78.0	85.7	82.2	93.3	78.3	88.6	85.8				
43	BIO-9637	89.7	95.7	75.3	94.0	90.7	98.0	90.6	84.7	83.7	85.7	84.7	91.3	78.0	89.2	84.7				
44	HM-9	92.0	94.7	76.0	95.7	98.0	98.0	92.4	82.3	82.7	87.7	84.2	92.3	79.7	89.9	86.0				
Loc. Mean																				
C.D. (5%)																				
C.D. (1%)																				
C.V. (%)																				
F (Prob.)																				
0.00 0.00 0.00 0.04 0.00 0.26 0.00 0.00 2.03 0.64 1.34 1.59 2.06 3.96 0.45 2.41 1.95																				
0.00 0.00 0.00 0.04 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.03																				

MAKKA-2

No	PESQUPPER	SAGE	RANG	Year	LTHR	KARN	LUDR	RANI	KANP	Zone		Zone Mean	
										BAHR	Mean		
1	EM-20	22.7	20.9	24.1	22.7	20.8	22.7	20.8	22.7	20.8	22.7	21.2	20.9
2	EM-187	22.3	20.5	24.2	23.2	20.1	22.5	20.1	22.5	20.1	22.5	20.2	20.5
3	EM-162308	22.3	20.6	24.3	24.5	18.3	22.6	18.3	22.6	18.3	22.6	21.3	21.0
4	EMSW-3	22.3	20.5	24.3	23.0	18.7	22.8	18.7	22.8	18.7	22.8	21.3	20.5
5	EMSW-4	22.4	20.6	24.3	23.2	19.3	24.0	19.3	24.0	19.3	24.0	20.2	20.9
6	EMSO-3	22.3	20.4	24.3	24.2	22.0	23.2	22.0	23.2	22.0	23.2	21.3	21.8
7	EMH-309	22.3	20.7	24.3	23.3	19.0	24.6	19.0	24.6	19.0	24.6	21.3	21.0
8	EMH-310	22.3	20.7	24.3	23.1	18.3	24.3	18.3	24.3	18.3	24.3	20.1	20.8
9	EMH-311	22.3	20.9	24.3	22.0	19.6	24.5	19.6	24.5	19.6	24.5	23.1	21.4
10	EMH-312	22.3	20.8	24.3	22.0	19.6	24.5	19.6	24.5	19.6	24.5	20.2	21.1
11	EMH-313	22.3	20.8	24.3	24.2	19.0	25.2	19.0	25.2	19.0	25.2	20.2	21.1
12	EMH-314	22.3	20.8	24.3	24.1	17.2	23.1	17.2	23.1	17.2	23.1	20.3	20.4
13	EMH-315	22.3	20.6	24.3	23.1	18.0	23.9	18.0	23.9	18.0	23.9	20.0	20.3
14	EMH-316	22.3	20.6	24.3	23.2	19.6	23.6	19.6	23.6	19.6	23.6	21.0	20.9
15	EMH-317	22.3	20.9	24.3	22.3	16.4	25.7	16.4	25.7	16.4	25.7	20.1	20.3
16	EMH-318	22.3	20.9	24.3	22.9	17.3	25.2	17.3	25.2	17.3	25.2	20.0	20.7
17	EMH-319	22.3	20.9	24.3	23.3	18.1	24.8	18.1	24.8	18.1	24.8	23.1	21.3
18	EMH-320	22.3	20.9	24.3	24.7	19.0	23.7	19.0	23.7	19.0	23.7	20.4	21.0
19	EMH-321	22.3	20.9	24.3	24.7	18.7	27.0	18.7	27.0	18.7	27.0	22.3	22.0
20	EMH-322	22.3	20.9	24.3	24.7	24.4	26.7	24.4	26.7	24.4	26.7	20.2	22.6
21	EMH-323	22.3	20.9	24.3	24.7	19.3	26.2	19.3	26.2	19.3	26.2	20.2	21.7
22	EMH-324	22.3	20.9	24.3	24.1	25.1	27.3	25.1	27.3	25.1	27.3	19.2	22.8
23	EMH-325	22.3	20.9	24.3	24.1	17.7	24.1	17.7	24.1	17.7	24.1	21.3	20.7
24	EMH-326	22.3	20.9	24.3	23.2	21.9	25.2	21.9	25.2	21.9	25.2	19.4	21.4
25	EMH-327	22.3	20.9	24.3	23.0	16.8	24.2	16.8	24.2	16.8	24.2	19.4	20.2

Table No. 1
Continued

No.	Description	MATERIALS AT HARVEST										OV'L		GODH	OV'L	
		AREA	YIELD	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	MOIST	Mean		Mean	Mean
1	FV-1	23.7	28.5	14.3	13.3	16.3	13.3	23.3	28.3	15.7	11.7	18.8	21.2	25.7	24.0	24.8
2	FV-2	23.7	28.5	14.3	13.3	16.3	13.3	23.3	28.3	15.7	11.7	18.8	21.2	25.7	16.3	21.1
3	ERS-162306	24.7	29.9	15.2	14.2	16.6	13.3	23.4	29.4	15.8	11.4	18.9	21.3	26.1	20.3	23.2
4	PMS-1	22.5	31.3	12.2	12.3	16.3	13.3	23.3	28.2	16.5	13.1	19.2	21.9	25.0	22.3	23.6
5	PMSW-4	22.3	30.1	14.1	14.5	16.3	13.3	23.7	27.4	15.9	11.5	18.2	21.6	28.0	23.6	25.8
6	PMSQ-5	25.7	30.9	12.0	14.9	16.3	22.1	23.4	29.3	16.0	14.3	19.9	22.7	25.8	23.1	24.5
7	BKA-309	22.4	22.9	14.0	14.2	16.2	18.1	23.6	28.3	16.6	11.3	16.7	21.1	25.2	23.4	24.3
8	BKH-309	23.4	27.7	15.3	13.1	16.3	18.0	23.5	28.2	15.6	12.1	18.6	21.3	27.5	22.3	24.9
9	BKH-310	20.9	25.2	13.7	12.7	16.6	20.4	23.3	27.1	16.4	12.0	18.5	21.1	28.7	19.2	23.9
10	MALVIYA MAKKA-2	25.0	27.5	14.5	14.2	16.6	17.7	23.3	27.6	15.6	11.5	18.2	21.5	29.2	19.9	24.5
11	BKH-311	25.0	29.0	14.0	13.4	16.4	17.5	23.5	29.4	16.0	13.8	19.7	21.6	26.3	23.4	24.9
12	BKH-312	24.3	28.2	14.3	13.7	16.3	18.3	23.9	29.9	16.2	11.4	19.1	21.3	26.6	21.2	23.9
13	BKH-313	24.2	26.7	13.3	12.3	15.3	19.1	23.6	27.7	15.9	11.7	18.4	21.3	28.2	29.4	28.8
14	ER-1984	28.6	26.8	15.3	13.5	15.7	17.4	23.8	26.5	16.3	12.8	18.5	21.3	27.5	24.9	26.2
15	ER-1986	24.6	23.4	13.3	12.9	16.9	18.6	23.5	26.3	16.0	14.4	18.9	21.5	27.7	19.7	23.7
16	ER-2025	26.6	29.9	13.0	14.3	16.8	18.8	23.6	24.3	16.0	13.6	18.0	21.6	28.7	16.9	22.8
17	VEH-09-1	23.7	25.1	12.0	13.8	16.3	17.6	23.9	28.5	15.5	13.8	19.2	21.4	28.2	18.5	23.4
18	VEH-09-2	29.0	30.5	12.3	14.8	16.6	18.6	23.8	28.9	15.9	15.3	20.0	22.4	27.6	18.9	23.2
19	REH-2101	24.3	23.5	13.3	13.3	16.3	22.2	23.6	27.1	16.4	14.9	19.4	22.3	26.7	21.6	24.2
20	REH-2102	24.5	31.5	13.0	13.6	16.1	22.1	23.5	29.6	15.9	12.8	19.4	22.6	27.7	19.5	23.6
21	REH-2103	25.9	31.5	13.3	14.0	16.9	20.5	23.7	29.3	16.1	13.7	19.7	23.3	28.6	-	28.6
22	JH-31314	20.6	22.2	14.3	14.1	15.1	17.8	23.8	27.4	16.1	11.2	18.2	21.1	26.9	19.6	23.2
23	JH-31285	24.4	33.0	15.3	15.9	16.1	18.6	23.6	28.7	16.0	15.0	19.9	22.1	25.8	20.3	23.0
24	JH-31336	21.5	24.6	14.3	13.6	15.7	18.5	23.6	25.6	15.9	12.5	18.3	20.8	26.2	17.5	21.9

Table No. 2 CONTINUED

V. NUMBER	MOISTURE AT HARVEST											OV'L				
	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC	JAN	FEB	Zone Mean	Mean	UDHA	GODH	Mean
1	14.9	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.6	23.4	26.4	22.0	24.2
2	14.9	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.6	21.3	27.8	20.7	24.2
3	14.9	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.6	21.4	26.9	15.8	21.4
4	21.4	32.6	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	34.0	14.9	21.5	25.1	22.5	23.8
5	21.6	32.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	34.1	14.1	22.8	26.9	24.2	25.6
6	21.2	30.7	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3	11.4	21.7	26.2	24.2	25.2
7	24.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	31.9	14.3	22.5	26.0	22.0	24.0
8	23.6	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	14.5	22.4	28.1	18.2	23.2
9	23.6	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	33.4	14.3	21.6	29.0	22.3	25.6
10	25.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	13.3	22.1	28.8	22.5	25.7
11	25.3	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	16.1	22.7	26.9	24.2	25.5
12	26.9	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	33.6	12.3	22.0	26.9	20.5	23.7
13	29.2	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	31.1	12.4	21.8	28.0	28.9	28.4
14	25.3	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2	14.5	22.6	27.7	23.5	25.6
15	21.6	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	29.3	16.0	22.8	27.6	22.8	25.2
16	28.1	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	27.3	12.6	22.1	25.5	21.3	23.4
17	25.1	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	21.0	16.5	23.3	29.2	21.4	25.3
18	28.3	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	29.6	12.6	21.4	26.9	20.0	23.4
42	24.5	29.0	12.0	13.6	16.3	15.4	15.4	15.4	15.4	15.4	15.4	11.7	21.8	27.1	20.3	23.7
43	25.3	29.0	15.3	13.6	16.4	18.3	18.3	18.3	18.3	18.3	18.3	11.6	20.8	24.8	19.9	22.4
44	20.5	26.5	12.3	15.0	16.1	18.2	18.2	18.2	18.2	18.2	18.2	13.3	21.9	27.1	21.0	24.3
	24.4	28.4	13.4	14.0	16.2	18.9	18.9	18.9	18.9	18.9	18.9	1.10	1.00	1.68	-	4.49
	4.60	2.50	1.30	1.00	0.50	0.70	0.70	0.70	0.70	0.70	0.70	1.50	1.30	-	-	-
	6.10	3.40	1.70	1.30	0.70	0.90	0.90	0.90	0.90	0.90	0.90	1.69	7.82	3.62	-	9.15
	11.53	5.51	5.79	4.49	1.90	2.24	2.24	2.24	2.24	2.24	2.24	0.00	0.00	0.00	0.00	0.40
	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. 10
Continued

STATION	PLANT RECORD DATA										Zone Mean	RANC	AMBI	Zone Mean
	DATE	WIND	TEMP	WIND	TEMP	WIND	TEMP	WIND	TEMP	WIND				
1	144.4	233.3	131.1	143.3	200.3	129.3	174.3	174.3	143.2	143.7	220.0	175.2	207.0	178.
2	142.4	232.3	130.1	142.3	225.3	186.3	181.3	157.3	137.2	137.2	185.0	174.7	196.3	172.
3	141.4	244.3	134.3	141.3	207.3	207.3	169.3	140.0	138.0	138.0	170.0	179.2	204.5	166.
4	139.4	233.3	132.3	139.3	246.3	188.3	189.3	166.3	155.5	155.5	195.0	187.9	195.2	186.
5	138.4	231.3	130.3	138.3	226.3	183.3	195.3	156.7	157.5	157.5	190.0	181.5	218.3	183.
6	137.4	244.3	134.3	137.3	246.3	209.3	193.3	166.8	161.7	161.7	205.0	190.4	227.5	189.
7	136.4	232.3	132.3	136.3	223.3	189.3	171.7	151.3	155.4	155.4	160.0	166.5	200.6	164.
8	135.4	226.3	130.3	135.3	210.0	186.3	173.7	144.3	143.0	143.0	215.0	175.3	211.2	178.
9	134.4	209.3	128.3	134.3	210.0	181.3	173.3	143.3	147.4	147.4	160.0	178.9	203.9	168.
10	153.2	225.0	144.1	153.3	216.7	195.0	175.3	144.0	147.4	147.4	200.0	199.8	210.4	179.
11	146.1	226.0	134.7	150.3	220.0	186.7	161.3	149.8	149.8	144.0	195.0	168.8	220.3	173.
12	158.3	227.7	146.3	163.3	243.3	185.7	183.1	165.0	148.7	150.4	190.0	179.2	217.4	175.
13	160.3	205.3	149.3	155.3	230.0	203.3	185.9	197.3	176.0	163.7	220.0	201.5	226.9	197.
14	150.3	239.0	164.3	173.3	203.3	194.3	186.3	192.0	158.5	155.4	205.0	189.6	217.7	186.
15	156.3	222.7	148.7	151.7	206.7	199.3	172.6	182.3	154.0	146.2	185.0	180.9	213.7	177.
16	174.1	245.0	162.1	171.3	253.3	197.3	195.7	197.7	170.5	167.2	210.0	193.5	238.9	196.
17	145.3	243.0	159.3	155.3	196.7	208.0	183.9	198.3	179.5	163.3	190.0	192.8	222.7	191.
18	174.7	246.3	168.3	155.3	253.3	191.3	204.2	206.3	181.7	183.8	220.0	195.9	242.7	205.
19	181.3	247.7	161.3	166.7	200.0	188.7	183.3	189.7	174.0	173.5	225.0	179.2	211.5	192.
20	183.3	263.3	163.3	163.3	246.7	203.7	199.8	199.3	184.8	193.2	220.0	201.9	230.2	204.
21	171.3	268.3	152.1	166.7	213.3	204.0	189.7	210.3	154.2	168.1	175.0	194.6	211.7	185.
22	156.7	225.3	151.7	166.7	228.3	184.3	180.9	196.7	145.5	148.9	190.0	182.4	219.7	180.
23	171.7	238.0	156.3	162.3	236.7	196.7	190.1	175.7	168.7	165.9	220.0	187.8	244.7	193.
24	146.0	249.3	162.7	168.3	213.3	209.3	182.1	197.3	145.3	160.3	180.0	171.8	211.5	177.

PLANT HEIGHT (cm)

PLANT	AREA	TYPE	MAPI	KOLE	WAND	COZY	Zone Mean	UDAI	BANS	CHH	Zone Mean	OV'L Mean	UDHA	GODH	OV'L Mean
1	ERM-23	230.0	195.1	185.1	195.0	196.1	186.3	180.0	165.4	186.7	177.3	179.3	195	187	191
2	ER-149	216.7	192.9	188.3	199.0	188.5	187.0	195.0	176.7	179.3	183.7	182.9	196	183	189
3	ERL-162329	215.0	183.4	183.9	213.5	183.7	184.9	206.7	178.9	170.7	185.4	178.1	194	175	185
4	ERMSY-3	216.7	204.1	185.0	211.3	203.3	198.5	171.7	178.6	182.3	177.5	190.5	175	198	186
5	ERMSW-4	215.0	206.4	186.3	206.0	208.8	197.4	190.0	170.3	190.0	183.4	190.7	198	189	194
6	ERMSY-8	211.1	204.0	189.9	199.3	217.5	198.6	198.3	205.4	193.3	199.0	193.7	193	195	194
7	ERH-279	212.5	204.3	188.0	192.1	192.3	195.9	195.0	171.3	180.0	182.1	187.5	184	163	173
8	ERH-312	215.0	205.2	189.3	199.3	196.4	193.1	213.3	178.0	183.0	191.5	184.7	183	201	192
9	ERH-331	208.5	209.3	187.1	195.1	193.9	189.6	196.7	181.8	175.7	184.7	177.1	181	185	183
10	ERH-332	208.3	209.3	186.3	192.3	195.7	182.4	168.3	173.2	169.7	170.4	179.5	177	188	183
11	ERH-341	213.7	193.0	186.1	193.1	195.3	193.3	185.0	160.5	179.0	174.8	179.1	199	185	192
12	ERH-342	213.7	193.0	186.1	193.1	195.3	193.5	193.3	163.5	165.7	174.2	183.5	172	188	180
13	ERH-343	246.1	192.1	183.3	195.3	209.3	200.3	213.3	194.8	195.0	201.1	194.8	207	201	204
14	ER-1374	241.1	195.0	185.0	206.0	196.3	201.7	194.3	183.1	188.3	186.6	191.6	221	185	203
15	ER-1366	208.3	201.0	186.3	200.7	201.4	195.2	205.0	171.0	184.0	186.4	183.5	194	185	190
16	ER-2025	240.0	215.0	183.3	202.7	219.5	212.1	221.7	210.1	207.3	213.0	204.0	204	191	198
17	VEH-09-1	236.7	202.7	193.3	205.7	205.0	204.0	206.7	175.5	186.3	189.5	193.0	211	189	200
18	VEH-09-2	243.3	220.7	191.7	210.7	221.1	214.8	215.0	176.8	196.7	196.2	206.8	214	192	203
19	REH-2101	233.3	204.3	183.3	203.7	197.5	200.9	200.0	192.6	180.0	190.9	193.9	190	183	186
20	REH-2102	226.0	213.0	181.7	199.7	202.5	202.5	221.7	181.1	202.3	201.7	204.3	180	180	180
21	REH-2103	196.7	200.7	166.7	198.3	200.1	190.6	203.3	167.9	168.3	179.9	190.2	158	175	167
22	JH-31314	215.0	203.3	166.7	204.7	205.0	195.9	200.0	184.3	196.7	193.7	187.5	168	187	178
23	JH-31285	238.3	223.3	175.0	211.3	208.5	207.7	213.3	177.8	203.3	198.2	198.3	208	196	202
24	JH-31335	216.7	191.3	146.7	191.3	153.5	181.2	196.7	171.2	178.0	181.9	182.1	204	185	194

PLANT HEIGHT

NO	PLANTGROWTH	ABSH	HTIDE	KASE	SETH	WANG	COLM	SENO	UDAM	HANS	FRH	Mean	OV'L		
								Mean				Mean	Mean		
35	HR-31292	202.0	255.3	239.7	200.0	254.3	224.1	220.6	230.0	204.8	216.7	217.2	215.8	224	212
36	HR-31288	179.5	206.0	201.0	268.3	206.3	207.1	198.0	205.0	184.6	189.0	192.9	189.1	213	185
37	HR-97001	172.5	210.0	187.7	173.3	198.3	202.9	190.8	216.7	177.0	195.7	196.4	188.9	172	186
38	HKII105XHKII163-1	182.0	210.0	195.7	158.3	196.0	188.9	188.5	201.7	174.4	180.0	185.4	181.1	187	175
39	BML7XHKII163-1	187.0	235.0	198.3	193.3	197.0	211.6	203.7	230.0	180.7	208.3	206.3	198.8	195	211
40	HKII128XHKII163-1	187.0	243.3	216.7	171.7	201.3	204.2	204.0	210.0	173.7	190.0	191.2	189.3	191	199
41	KMH-216	188.0	226.7	210.0	195.0	193.0	200.6	202.3	203.3	176.8	186.7	188.9	189.5	205	196
42	KMH-3426	184.0	229.7	219.3	170.0	213.0	202.5	203.1	213.3	187.2	177.3	192.6	195.7	185	198
43	LAXMIS06	183.6	206.7	182.0	170.3	163.3	194.1	187.4	206.7	163.3	187.3	186.4	184.0	166	194
44	MUKHYA-108	194.0	248.3	201.3	155.3	187.1	219.3	206.0	233.3	190.0	201.7	208.5	205.5	173	195
45	SARJONCH-113	174.6	191.7	199.0	166.7	191.7	191.9	188.6	210.0	173.1	186.0	189.7	188.0	193	185
46	KMH-017	181.0	246.7	212.3	196.7	211.3	223.7	213.4	206.7	195.2	208.3	203.4	200.2	171	198
47	KMH-802	182.3	246.7	211.3	153.3	203.3	215.7	206.8	226.7	182.0	201.7	203.5	200.6	228	213
48	X8B557	213.3	270.0	250.3	211.7	213.1	238.6	233.1	210.0	217.9	211.7	213.2	221.3	231	211
49	X8E691	222.3	431.0	222.7	219.3	212.3	216.3	217.3	256.7	211.4	199.0	222.4	215.0	239	199
40	MCH-41	182.5	241.7	228.3	205.0	215.3	209.9	215.0	228.3	200.4	194.0	207.6	210.6	208	205
41	MCH-42	186.5	250.0	221.0	181.7	195.3	201.8	206.1	216.7	176.1	213.3	202.0	200.4	203	192
CHECKS															
42	NAVJOT	191.5	226.7	226.3	185.0	200.7	202.4	205.4	251.7	176.0	205.7	211.3	197.1	195	180
43	BIO-9637	197.0	241.7	210.7	150.0	200.7	205.3	200.9	211.7	190.0	201.7	201.1	197.4	191	192
44	HM-9	177.5	220.0	203.0	161.7	195.0	182.7	190.0	186.7	167.6	191.7	182.0	182.2	202	177
	Loc. Mean	183.3	226.7	206.2	177.0	200.6	203.4	199.5	207.7	181.7	193.3	193.4	192.7	194	191
	C.D. (5%)	15.4	15.9	14.4	38.9	21.5	6.6	10.7	27.0	7.7	22.4	16.5	6.4	33.9	25.2
	C.D. (1%)	20.4	21.1	19.1	51.6	28.4	8.7	14.1	35.7	10.2	30.1	21.8	8.5		
	C.V. (%)	5.2	4.3	4.3	13.6	6.6	2.0	4.7	8.0	2.8	7.3	5.3	5.7	10.7	8.1
	F (Prob.)	0.00	0.00	0.00	0.12	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03

Table No. 1
 CONTINUED

SL. NO.	AREA	BRG	RANG	DATE	TIME	TEMP	WIND	WIND DIR	WIND SPCD	RANGE	TRK	DRAG	WIND DIR	RANG	WIND DIR	WIND SPCD	ZONE MEAN	RANG	WIND DIR	WIND SPCD	ZONE MEAN	
1	BEH-211	59.3	119.3	84.2	33.3	93.3	88.3	38.3	124.7	65.3	68.0	98.0	84.2	125.0	76.1	90.2						
2	BEH-212	55.3	114.3	84.1	33.3	93.3	86.7	31.7	89.3	66.7	65.4	85.4	82.1	100.0	75.1	79.8						
3	BEH-162308	60.0	117.7	88.3	33.3	91.7	99.3	31.7	91.0	59.2	52.5	85.0	85.3	85.0	58.5	71.9						
4	BEH-3	68.3	114.0	91.2	33.3	100.0	85.3	32.7	98.3	83.5	76.9	110.0	93.1	110.0	80.7	90.4						
5	BEH-4	80.0	119.3	99.7	33.3	93.3	76.3	32.7	97.0	80.7	65.5	100.0	93.1	100.0	74.0	85.1						
6	BEH-5	73.3	108.0	90.7	33.3	96.3	101.3	32.3	100.7	80.0	53.0	105.0	97.8	105.0	76.2	85.4						
7	BEH-308	80.0	97.7	89.3	33.3	91.7	91.7	31.0	89.3	72.3	55.1	70.0	85.0	70.0	69.3	73.5						
8	BEH-309	70.0	104.7	97.3	33.3	93.7	95.0	33.7	97.7	64.3	55.5	110.0	85.5	110.0	71.1	80.7						
9	BEH-310	66.0	100.3	81.2	33.3	86.7	81.3	31.7	113.7	61.2	53.4	65.0	80.0	65.0	56.6	71.6						
10	MAHARAJA MAHARAJA-2	66.0	116.7	91.2	33.3	86.7	91.3	31.7	101.7	69.0	69.3	110.0	96.0	110.0	74.8	85.8						
11	BEH-311	55.0	120.0	87.3	33.3	93.3	80.3	31.7	81.7	66.0	53.9	95.0	83.5	95.0	67.5	74.5						
12	BEH-312	66.0	111.7	94.3	33.3	91.7	80.3	31.7	80.0	66.0	53.9	95.0	84.7	95.0	67.5	74.5						
13	BEH-313	81.3	93.3	86.3	33.3	100.0	88.3	31.7	109.7	84.7	65.7	115.0	108.3	115.0	85.3	94.8						
14	BEH-314	73.3	93.3	95.3	33.3	96.3	76.3	31.7	101.7	66.3	50.9	90.0	93.1	90.0	74.7	80.5						
15	BEH-315	73.3	120.0	96.7	33.3	91.3	90.3	31.7	94.0	68.8	56.6	100.0	91.5	100.0	69.3	80.0						
16	BEH-316	65.0	113.3	83.3	33.3	106.3	83.3	31.7	116.0	79.3	68.3	95.0	100.0	95.0	96.3	91.8						
17	BEH-317	72.0	124.3	96.3	33.3	76.7	92.7	32.3	101.0	85.2	61.9	80.0	98.2	80.0	81.8	84.7						
18	BEH-318	78.3	120.0	99.2	33.3	103.3	91.7	32.7	105.0	84.8	75.4	125.0	99.0	125.0	90.3	96.6						
19	BEH-2101	88.3	109.3	98.8	33.3	98.3	90.3	33.3	92.7	86.0	72.4	130.0	96.9	130.0	79.1	92.8						
20	BEH-2102	78.3	113.3	95.8	33.3	96.7	97.3	33.3	109.0	85.0	87.9	130.0	106.1	130.0	83.8	100.3						
21	BEH-2103	88.3	122.3	105.3	33.3	107.3	107.3	33.3	104.7	83.7	71.9	95.0	99.8	95.0	83.9	89.8						
22	JH-31314	71.7	107.0	89.3	33.3	80.0	92.0	33.3	109.0	63.3	57.9	95.0	87.3	95.0	76.7	81.5						
23	JH-31285	93.3	111.7	102.5	33.3	106.7	104.7	33.3	91.3	87.7	70.0	120.0	94.4	120.0	95.7	94.2						
24	JH-31336	75.0	115.3	95.2	33.3	103.3	102.7	33.3	101.3	68.2	62.9	95.0	84.3	95.0	78.8	82.0						

Table No. 1 Continued

LINE	EAB			EAB			Zone Mean			Zone Mean			RANC	AMBI	Zone Mean
	EAB1	EAB2	EAB3	EAB1	EAB2	EAB3	KANI	KANI	KANI	FRSH	FRSH	FRSH			
32	105.3	103.2	103.2	103.3	103.3	103.2	82.0	100.9	100.7	35.9	101.6	115.0	102.1	95.5	105.2
33	96.7	101.3	101.3	101.3	101.3	101.3	84.3	86.0	86.0	34.3	86.5	105.0	93.1	84.5	90.5
34	104.0	104.0	104.0	104.0	104.0	104.0	92.2	86.0	86.0	34.3	87.2	85.0	95.1	78.1	84.6
35	103.3	103.3	103.3	103.3	103.3	103.3	84.7	83.9	85.4	39.7	89.7	105.0	87.8	70.5	79.2
36	103.3	103.3	103.3	103.3	103.3	103.3	91.5	90.7	100.7	36.2	94.7	90.0	92.6	72.5	81.0
37	103.3	103.3	103.3	103.3	103.3	103.3	85.0	86.3	85.7	34.3	82.3	80.0	100.5	74.9	80.3
38	103.3	103.3	103.3	103.3	103.3	103.3	89.0	88.0	101.7	34.8	70.1	115.0	92.7	93.5	93.0
39	103.3	103.3	103.3	103.3	103.3	103.3	87.3	87.3	104.0	31.5	84.2	125.0	96.1	89.6	93.3
40	103.3	103.3	103.3	103.3	103.3	103.3	90.3	92.0	101.0	31.5	84.6	75.0	85.9	75.3	78.9
41	80.0	114.7	97.3	84.7	81.7	393.3	84.3	148.1	101.7	77.3	77.3	90.0	98.5	77.0	87.0
42	86.2	127.3	106.8	111.7	90.0	101.7	94.7	88.9	101.7	88.3	83.2	120.0	103.1	83.0	96.6
43	77.3	116.0	96.7	85.3	95.0	96.7	86.0	93.7	101.3	71.5	75.0	130.0	91.5	81.9	91.9
44	73.3	120.0	96.7	79.3	78.3	93.3	91.7	86.5	98.3	67.2	63.7	95.0	97.4	72.9	82.4
45	96.7	121.0	108.8	87.3	101.7	120.0	96.3	99.4	110.0	78.5	79.8	95.0	110.8	98.9	95.5
46	82.2	122.0	102.3	91.7	106.3	106.7	67.7	99.5	102.0	91.7	75.7	105.0	100.7	89.8	94.1
47	106.7	123.0	114.6	96.3	96.3	111.7	96.0	94.5	113.0	92.3	94.9	115.0	98.1	95.3	101.4
48	91.7	121.7	101.7	93.3	93.3	103.3	101.7	95.9	99.3	85.0	61.7	140.0	102.5	84.0	95.4
49	CHECKS														
50	NAVDDT	76.7	119.0	97.6	76.7	103.3	83.3	89.3	110.3	87.2	64.0	110.0	101.5	78.5	91.9
51	510-9637	76.0	118.0	97.0	79.7	103.3	90.0	89.1	99.7	87.2	58.1	100.0	94.7	83.4	83.8
52	RM-9	90.0	112.0	101.0	63.3	111.7	83.3	78.2	92.3	69.2	64.1	100.0	84.7	75.9	81.0
53	Loc. Mean	79.5	115.4	97.5	76.3	93.3	100.7	89.7	101.4	76.4	66.6	103.2	94.1	79.4	86.8
54	C.D. (5%)	17.1	11.8	18.1	23.9	18.7	19.1	128.8	15.0	16.7	5.9	-	15.5	12.3	9.5
55	C.D. (1%)	22.7	15.6	24.2	31.7	24.8	25.3	170.7	19.9	22.1	7.8	-	20.5	16.2	12.5
56	C.V. (%)	13.3	6.3	9.2	19.3	12.3	13.4	78.8	10.3	13.5	5.4	-	10.1	9.5	9.6
57	F (Prob.)	0.00	0.00	0.29	0.08	0.00	0.44	0.00	0.36	0.00	0.00	-	0.01	0.00	0.00

Table No. 2 (Continued)

ID	DESIGNEE	EAR HEIGHT CM										OV'L Mean	GODH	OV'L Mean		
		APER	RYCE	KARI	KOIR	WANI	COZY	Zone Year	UDAI	BANS	CHHI				Zone Mean	UDHA
38	31129	114.5	122.1	99.7	96.7	111.3	133.9	113.1	125.0	114.8	121.3	120.4	86	108.7	112	99
39	31130	103.2	100.3	96.3	96.7	111.3	115.1	101.9	105.0	81.4	103.0	96.5	120	95.2	93	107
40	AR-97001	90.0	83.3	82.1	81.1	100.1	111.6	92.7	110.0	92.7	99.7	100.8	79	90.1	82	80
41	8K11105XHK11637	91.0	98.7	95.0	90.1	99.3	104.1	91.1	109.0	68.1	84.0	85.7	77	85.5	82	80
42	8K11105XHK11638	92.5	97.1	99.3	93.3	104.3	114.5	96.3	118.3	82.5	95.0	96.6	83	91.1	96	89
43	8K11105XHK11639	93.5	99.3	97.1	94.1	100.3	121.1	95.7	105.0	66.1	90.0	87.0	102	87.9	99	100
44	8K11105XHK11640	113.3	111.3	99.3	101.1	97.3	123.8	106.3	111.7	91.4	109.7	104.2	96	98.2	102	99
45	8K11105XHK11641	95.3	96.5	94.3	93.1	111.3	115.1	96.3	113.3	83.4	98.3	98.3	93	93.9	99	96
46	8K11105XHK11642	113.1	116.1	101.3	101.3	103.3	123.3	111.3	105.0	58.2	97.3	86.7	83	88.8	102	93
47	8K11105XHK11643	104.3	95.3	93.3	91.3	103.3	122.3	102.2	113.3	87.5	96.3	99.7	75	07.6	76	75
48	8K11105XHK11644	101.3	99.3	93.3	93.3	103.3	109.3	96.1	113.3	91.3	105.3	101.3	97	96.7	91	94
49	8K11105XHK11645	101.3	101.3	93.3	93.3	103.3	123.3	103.3	111.3	83.7	114.1	101.3	79	93.4	88	84
50	8K11105XHK11646	93.3	93.3	93.3	91.1	103.3	102.3	101.3	108.3	67.1	95.3	83.6	106	90.7	97	101
51	8K11105XHK11647	120.3	126.1	101.3	101.3	103.3	122.8	116.3	116.7	108.1	110.0	111.6	96	104.9	97	96
52	8K11105XHK11648	126.0	105.0	86.3	106.7	107.7	117.1	108.1	113.3	92.1	104.7	103.4	122	101.2	92	107
53	MCH-41	103.5	111.7	102.0	111.7	116.7	120.5	110.8	133.3	106.2	107.0	115.5	105	105.6	96	101
54	MCH-42	104.0	109.3	86.3	91.7	98.3	119.8	101.6	123.3	84.2	111.7	106.4	92	99.3	82	87
CHECKS																
52	NAVJOT	106.0	107.7	91.0	98.3	103.3	116.7	103.8	143.3	84.4	104.0	110.6	97	97.7	93	95
43	BIO-9637	117.0	89.3	74.3	88.3	106.0	106.0	96.8	113.3	94.5	99.7	102.5	86	92.3	91	89
44	HM-9	97.5	92.7	79.0	85.0	91.3	98.4	90.7	86.7	71.1	90.7	82.8	82	85.1	75	79
Loc. Mean																
C.D. (5%)																
C.D. (1%)																
C.V. (%)																
F (Prob.)																
14.4																
14.9																
0.00																
0.12																
0.00																

Table No. 2 continued

SPAIN SHELLS

	BASE	KANS	Zone Mean	DELE	KARS	LUSS	PANT	KANP	Zone Mean	BAHK	JASH	WARA	RANC	AMBI	Zone Mean
1 ELM-21	75.2	80.5	73.3	80.4	84.1	75.3	85.0	74.0	80.4	74.1	79.5	80.0	83.3	84.1	80.2
2 ELM-22	80.0	82.5	84.3	81.9	83.7	76.4	80.8	73.0	78.0	79.1	79.7	80.0	85.7	82.1	81.2
3 EHL-162308	76.1	79.5	77.8	81.0	85.6	72.1	85.0	71.0	78.5	76.2	79.4	80.0	84.5	84.6	80.9
4 PMSY-3	77.3	84.0	80.7	85.1	73.8	80.0	85.7	71.5	80.4	79.6	79.0	76.0	85.7	81.5	80.4
5 PMSW-4	76.7	83.5	80.1	79.7	83.3	72.5	84.3	74.5	78.9	78.0	77.8	78.0	86.6	81.5	80.4
6 PMSQ-5	76.2	81.0	78.6	81.2	79.5	76.0	84.0	72.5	78.6	77.4	76.7	77.0	87.5	83.9	80.4
7 HKH-309	73.3	81.0	80.5	80.2	81.8	73.0	85.0	73.0	79.0	78.0	80.3	78.0	85.4	81.5	80.6
8 HKH-309	73.3	83.0	79.5	79.2	73.9	73.9	81.0	73.0	77.0	78.8	78.4	81.0	85.7	82.4	81.2
9 HKH-310	73.9	82.0	80.9	84.0	77.3	82.0	85.2	73.0	80.1	78.5	80.9	80.0	83.3	83.7	81.3
10 MALUYVA MANVA-2	80.1	83.4	82.1	81.0	83.3	77.9	85.7	72.0	80.1	74.6	78.0	77.0	85.7	83.3	79.8
11 KKH-311	73.1	81.0	81.1	81.0	83.3	77.0	81.0	75.0	86.4	80.4	77.4	73.0	80.1	83.9	78.5
12 KKH-311	73.1	84.5	80.2	83.3	83.3	76.3	81.0	73.0	81.0	80.4	78.0	81.0	85.0	82.0	80.3
13 KKH-313	73.1	82.5	84.2	83.3	83.3	78.3	83.3	74.0	80.7	74.5	79.9	81.0	86.6	83.3	81.7
14 EH-1974	77.5	82.0	79.3	83.3	82.9	78.2	84.8	74.0	79.7	74.8	79.9	77.0	87.1	84.4	80.5
15 EH-1986	85.0	81.0	83.0	81.3	82.9	78.8	84.8	72.5	80.0	75.4	77.7	77.0	84.5	83.3	79.6
16 EH-2025	77.8	81.0	79.4	74.4	85.2	79.9	85.7	72.0	79.4	76.0	78.9	81.0	86.6	84.1	81.3
17 VEH-09-1	82.4	82.5	82.5	76.1	79.4	74.2	81.5	75.5	77.3	72.4	78.2	76.0	87.3	83.2	79.4
18 VEH-09-2	76.1	79.0	77.5	83.8	89.2	84.8	83.9	73.0	82.9	82.6	80.7	82.0	84.0	82.8	82.4
19 REH-2101	79.4	81.5	80.5	83.9	74.5	71.8	86.6	74.5	78.3	76.1	76.7	78.0	86.6	83.2	80.1
20 REH-2102	84.1	82.0	83.0	83.9	85.9	80.6	78.9	77.5	81.4	74.9	77.5	78.0	84.5	82.9	79.6
21 REH-2103	79.7	83.5	81.6	83.0	81.3	73.0	83.3	74.5	79.0	75.7	78.4	78.0	88.3	83.0	80.7
22 JH-31314	78.1	81.5	79.8	85.1	83.3	74.9	86.1	75.5	81.0	80.0	79.8	81.0	84.9	83.5	81.8
23 JH-31285	87.5	79.5	83.5	85.1	81.8	84.2	83.3	70.0	80.9	76.6	80.1	79.0	85.1	82.5	80.7
24 JH-31336	78.9	82.0	80.4	84.9	86.3	76.4	85.7	71.5	81.0	76.1	80.1	82.0	84.0	83.0	81.0

Table 20. 2. (continued)

SITE	SEASON AVERAGING										Zone				
	DATA	KMVG	MEAN	SEER	KMSP	SEER	PACT	KAMP	MEAN	SAHK	JASHI	VARA	RANC	AMBI	Zone Mean
1	75.5	81.5	79.3	85.4	77.9	82.1	85.7	73.0	83.3	80.0	81.0	85.4	82.4	81.8	
2	76.4	83.5	79.5	84.5	81.9	82.1	85.7	72.0	80.0	80.8	81.0	85.6	83.6	81.9	
3	76.2	83.0	80.9	80.3	81.9	79.8	81.5	73.5	80.3	80.8	80.0	85.7	83.6	79.2	
28	76.9	82.5	79.7	81.9	81.9	78.9	81.5	73.0	79.3	77.0	75.0	84.0	82.5	78.8	
29	77.5	82.0	79.7	79.5	71.8	76.0	79.7	75.5	76.4	77.2	76.0	81.7	83.7	79.1	
30	78.1	82.5	80.9	80.7	85.5	74.2	81.8	74.0	79.2	76.4	78.0	87.1	82.5	80.2	
31	76.7	82.5	79.9	84.6	66.2	83.3	81.3	71.0	77.2	76.6	81.0	85.7	83.0	81.0	
32	79.3	82.0	80.3	84.5	78.2	79.4	87.5	70.0	81.1	76.5	76.0	86.6	83.4	80.1	
33	76.3	82.5	79.4	80.1	76.8	78.2	81.8	74.0	78.6	77.4	76.0	84.5	82.4	79.7	
34	78.6	84.0	81.3	82.0	84.4	76.0	83.3	73.0	80.1	79.2	81.0	85.4	84.2	81.4	
35	79.1	81.0	79.9	81.5	81.4	76.5	85.7	76.0	80.6	77.9	80.0	88.9	83.7	81.7	
36	78.2	80.5	78.3	83.2	81.1	80.3	85.7	74.0	81.4	76.5	78.0	86.6	83.0	80.2	
37	79.3	83.5	84.2	84.3	80.3	79.3	85.6	78.0	83.2	77.4	81.0	86.6	82.2	81.3	
38	79.8	82.5	80.6	85.3	85.3	85.7	85.7	75.0	82.1	79.5	76.0	86.6	83.7	80.6	
39	79.3	83.5	80.3	83.3	83.3	82.5	85.7	74.5	82.0	76.5	80.0	88.9	82.1	81.1	
40	79.3	82.6	80.1	80.6	81.3	80.6	81.6	74.5	80.8	75.5	76.0	84.5	82.3	79.3	
41	77.1	82.0	79.8	85.3	83.2	85.3	85.7	74.0	82.4	77.9	82.0	87.5	81.6	81.2	
CHECKS															
42	76.5	82.0	80.3	86.1	83.3	80.2	86.3	78.0	82.8	80.2	78.4	85.1	84.6	81.3	
43	83.5	80.0	81.8	81.2	91.7	78.3	85.7	73.0	82.0	77.1	80.0	86.1	82.3	80.6	
44	79.4	82.5	81.0	81.7	84.0	79.3	80.0	74.0	79.8	66.1	77.9	86.6	81.6	77.5	
Loc. Mean															
C.D. (5%)															
C.V. (8)															
F (Prob.)															
0.00 0.00 15.07 4.02 0.00 2.03 0.00 0.00 1.14 3.61 2.48 0.00 - 2.31 2.55 2.36															
0.00 0.93 9.39 3.01 0.00 1.60 0.00 0.00 0.95 3.62 1.99 0.00 - 1.67 1.89 2.35															
0.00 0.00 0.36 0.00 0.00 0.00 0.00 0.00 0.00 0.03 0.00 0.00 - 0.00 0.59 0.07															

TABLE 1.1. (continued)

BRACKEN SWELLING

No.	SITE	AREA	HYDE	KRFI	RMR	MANS	CCRY	Zone Year	UDAI	BANS	CHH	Zone Mean	OV'D Mean	UDHA	GOPH	OV'L Mean
1	AKH-24	84.1	79.6	77.0	83.6	83.1	83.0	82.5	81.5	69.9	83.5	78.3	80.6	80.0	79.7	79.9
2	AKH-23	83.4	79.3	72.5	83.4	83.3	82.3	76.6	79.6	68.6	87.1	78.4	79.3	82.0	81.4	81.7
3	MSY-162308	81.0	78.9	80.7	82.4	83.4	84.6	81.3	81.5	74.3	82.0	79.3	79.9	83.0	79.8	81.4
4	MSY-3	84.4	79.1	73.1	82.1	81.1	84.3	80.1	80.8	70.2	91.4	80.8	80.4	83.1	76.5	79.8
5	MSW-4	83.5	79.0	76.7	83.2	83.0	83.3	78.3	80.4	69.1	85.7	78.3	79.3	83.0	78.9	81.0
6	RMSQ-5	83.9	78.8	89.3	82.0	83.4	80.1	78.5	81.3	67.8	82.5	77.2	78.8	84.0	77.3	80.7
7	AKH-308	84.1	79.6	73.0	82.1	83.1	82.5	78.7	84.4	77.3	83.1	81.6	79.8	84.1	79.3	81.7
8	AKH-309	82.8	79.6	79.3	83.3	83.3	81.3	78.6	82.0	63.3	82.2	75.8	78.5	85.4	81.8	83.6
9	AKH-310	85.0	79.6	76.3	82.1	81.3	79.6	80.7	81.5	70.0	88.3	79.9	80.6	84.7	76.9	80.8
10	MADHYA MARKA-2	82.1	81.3	76.0	84.3	83.5	83.3	82.2	81.0	65.9	78.4	75.1	80.1	85.6	79.0	82.3
11	AKH-311	82.3	79.8	79.7	83.8	83.3	83.3	79.5	82.0	67.1	83.8	77.6	78.9	82.6	81.6	82.1
12	AKH-312	80.3	79.9	76.3	83.3	83.3	83.9	78.9	81.5	65.7	85.3	74.5	79.7	80.1	80.8	80.5
13	AKH-313	84.1	79.9	81.3	84.1	83.3	83.7	82.4	80.8	69.6	80.3	77.0	80.9	83.0	79.6	81.3
14	AKH-314	84.3	79.2	76.1	84.3	83.3	84.7	82.3	82.1	74.3	88.0	81.4	80.9	83.0	80.7	81.8
15	AKH-315	84.3	79.2	77.3	83.3	83.3	83.6	79.5	81.6	71.2	85.4	79.4	80.0	83.7	80.0	81.8
16	AKH-316	83.7	79.0	83.3	83.6	83.3	84.1	83.5	83.5	74.1	86.3	81.3	81.1	83.4	79.3	81.4
17	AKH-317	84.3	79.0	83.3	83.3	83.3	83.8	83.7	79.2	61.6	82.5	74.4	79.6	84.1	81.6	82.9
18	AKH-318	84.3	79.0	83.3	83.3	83.3	83.3	83.1	80.1	68.6	81.4	78.7	80.6	84.8	79.6	82.2
19	AKH-319	84.3	79.0	83.3	83.3	83.3	83.3	83.3	83.3	70.3	85.2	78.3	79.3	83.6	77.3	80.5
20	AKH-320	84.3	79.0	83.3	83.3	83.3	83.3	83.3	83.3	65.9	84.3	76.0	80.0	83.2	79.2	81.2
21	AKH-2102	83.3	78.2	72.3	82.6	83.3	83.2	78.8	81.8	64.7	83.8	78.1	79.4	84.2	84.2	84.2
22	JH-31314	85.1	80.6	76.7	85.4	82.7	83.9	82.4	82.6	76.2	81.7	80.2	81.4	81.8	81.2	81.5
23	JH-31285	84.4	78.1	73.7	84.7	84.2	79.0	80.7	79.5	66.8	84.8	77.0	80.5	81.9	77.1	79.5
24	JH-31336	84.1	78.2	79.7	83.6	84.4	81.2	81.9	80.4	71.4	80.2	77.3	80.7	83.9	79.0	81.4

Table No. 1 Continued

No.	FORAGE	STAGE OF HARVEST										Zone Mean				
		BARB	RANG	Year	REER	REAR	REER	REAR	REER	REAR	REER	REAR	REER	REAR	REER	
38	HR-31292	71	71	71	64	52	73	60	73	62	48	52	76	60	62	60
39	HR-31288	62	66	67	65	48	68	60	68	64	51	61	76	58	56	59
40	HR-31301	65	70	68	61	51	63	61	63	64	48	61	76	57	51	58
41	RKI1105XHKI163-3	71	66	68	64	53	65	58	70	63	53	51	73	46	67	59
42	BMI1XHKI163-1	65	67	66	56	51	70	61	65	62	52	52	77	58	49	59
43	RKI1128XHKI163-1	71	69	70	61	56	65	62	70	66	52	56	72	54	47	58
44	KMH-218	74	68	71	66	51	70	59	70	65	42	50	76	57	57	58
45	KMH-3426	71	69	70	61	52	68	59	68	67	38	51	78	58	57	58
46	LAXM3306	71	71	71	62	52	61	61	61	65	40	53	78	55	54	57
47	MUKHYA-108	75	66	69	63	48	63	61	67	63	36	50	74	59	56	56
48	SARPUNCH-101	71	63	63	59	48	63	63	63	64	34	51	74	57	66	58
49	KMH-010	65	72	69	63	47	61	53	62	64	32	53	78	56	66	58
50	KMH-503	73	71	72	61	53	63	61	63	66	50	52	81	67	60	63
51	XBB357	71	69	71	61	53	63	57	63	64	48	58	78	63	64	62
52	XBB691	66	71	69	71	54	61	60	61	65	44	56	72	64	57	60
53	MCH-91	72	71	71	65	53	62	61	62	64	45	55	83	61	49	59
54	MCH-42	70	70	70	64	49	69	58	69	66	51	54	82	55	53	60
CHECKS																
42	NAVJOT	74	67	70	52	51	60	62	60	68	49	52	78	57	55	60
43	BIO-9637	71	70	71	63	51	64	62	64	65	43	53	75	57	63	60
44	HM-9	65	69	67	54	49	59	62	59	65	53	53	74	59	51	59
	Loc. Mean	69	68	69	62	51	65	60	65	65	46	53	76	56	56	59
	C.D. (5%)	9.5	6.6	7.5	15.0	5.3	7.4	7.0	7.4	4.3	12.1	4.9	7.3	10.0	14.2	5.1
	C.V. (8)	8.4	6.0	5.4	14.9	6.3	7.0	7.2	7.0	4.1	16.2	5.7	5.9	10.9	15.5	7.7
	F (Prob.)	0.0	0.5	0.7	0.2	0.0	0.0	0.8	0.0	0.2	0.0	0.1	0.1	0.0	0.0	0.5

Table No. 2 Continued

S. NO.	VARIETY	STAGE AT HARVEST (DAYS)										Zone Mean	OV'L Mean			
		REP	RYE	RAI	RAH	MAH	BOH	BOB	Zone Mean	UDAI	BANS			UDHA	GODH	OV'L Mean
1	BMH-1	51	51	54	53	51	51	55	58	65	62	65	59	39	67	53
2	BMH-2	51	51	53	51	53	53	51	61	63	63	64	61	46	69	58
3	BMH-3	51	53	53	52	53	53	68	62	67	62	68	61	45	68	57
4	BMH-4	53	57	62	57	61	63	67	61	60	62	62	61	42	62	52
5	BMH-5	53	62	63	58	60	67	60	61	65	63	68	60	41	54	48
6	BKH-206	51	53	60	51	60	63	58	61	65	61	64	60	52	61	56
7	BKH-309	51	53	51	53	53	63	72	61	61	61	64	63	45	69	57
8	BKH-310	51	53	51	53	53	61	62	61	65	64	65	64	50	75	63
9	BKH-311	51	53	51	53	53	61	62	61	65	64	64	62	49	63	56
10	MAHATIYA MAHRA-2	51	53	54	53	54	61	60	62	56	63	69	62	37	67	52
11	BKH-311	51	53	53	57	61	61	68	62	68	60	66	63	51	72	61
12	BKH-312	51	53	51	53	53	63	52	60	64	60	63	60	41	65	53
13	BKH-313	51	53	60	53	63	62	59	62	63	62	59	61	48	66	57
14	BH-1974	51	53	53	53	51	63	57	60	75	65	66	62	44	53	49
15	BH-1986	61	62	61	61	61	61	61	63	71	61	69	67	47	78	63
16	BH-2025	61	62	61	61	61	63	61	64	64	61	68	64	46	64	55
17	VER-09-1	57	58	61	53	53	66	73	61	76	60	63	67	42	67	54
18	VER-09-2	62	62	61	59	56	68	68	62	67	62	67	65	48	61	55
19	REH-2101	56	58	60	63	59	67	61	60	67	62	63	64	48	35	42
20	REH-2102	55	58	62	66	59	66	64	61	76	62	67	66	36	66	51
21	REH-2103	55	58	59	61	58	66	66	60	64	60	62	62	49	65	57
22	JH-31314	62	62	61	67	61	66	83	66	79	63	67	70	46	67	56
23	JH-31285	50	58	62	55	60	67	67	60	63	63	64	63	45	35	40
24	JH-31336	56	63	60	57	60	67	73	62	70	61	67	66	47	61	54

TABLE 11. (Cont.) Continued

NO.	PLOT/AREA	STATE AND HARVEST										Zone Mean	OVFL. Mean	UDHA	GODH	OVFL. Mean		
		APR	MYE	KAR	KOL	MAH	GOA	BAN	POD	Zone Near	UDAI						BANS	CHRI
1	TR-11292	61	63	61	62	61	61	61	61	62	61	61	61	66	52	62	63	57
2	TR-11258	61	61	63	61	61	61	61	61	61	61	61	61	68	39	60	63	60
3	CH-31301	61	61	61	63	61	61	61	61	61	61	61	61	68	41	65	62	53
4	HR-1105XHK1163-1	56	53	61	63	60	60	60	60	60	60	60	60	65	46	65	62	56
5	EM-1XHK1162-1	61	61	61	63	62	62	62	62	62	62	62	62	64	46	63	62	54
6	HK-11028XHK1163-1	53	54	60	61	61	61	61	61	61	61	61	61	67	42	67	62	54
7	KMB-216	62	61	61	61	61	61	61	61	61	61	61	61	68	47	65	63	56
8	KMB-3426	63	63	63	61	61	61	61	61	61	61	61	61	64	47	72	63	59
9	LAXN1306	56	53	60	61	62	61	61	61	61	61	61	61	63	43	49	62	46
10	MOKHA-105	50	57	60	61	61	61	61	61	61	61	61	61	68	39	58	61	49
11	SARFUNCH-171	64	59	64	61	61	61	61	61	61	61	61	61	68	46	60	62	53
12	KMB-017	63	63	61	61	61	61	61	61	61	61	61	61	67	54	73	63	63
13	NMR-505	61	61	61	61	61	61	61	61	61	61	61	61	68	50	70	64	60
14	NABET	50	50	51	60	61	61	61	61	61	61	61	61	68	46	72	64	59
15	NEB-01	53	53	64	61	61	61	61	61	61	61	61	61	69	52	62	64	57
16	NEB-01	51	50	61	61	61	61	61	61	61	61	61	61	66	43	73	64	58
17	NB-04	51	50	61	61	61	61	61	61	61	61	61	61	66	40	73	64	58
18	NB-04	51	50	61	61	61	61	61	61	61	61	61	61	66	40	73	64	58
19	PRECK	51	51	61	61	61	61	61	61	61	61	61	61	66	40	54	63	47
20	NALCI	54	53	61	61	61	61	61	61	61	61	61	61	63	45	65	62	55
21	STO-9637	50	50	61	61	61	61	61	61	61	61	61	61	66	39	72	63	56
22	HM-9	57	64	61	63	61	61	61	61	61	61	61	61	65	43	19	61	31
23	LOC. Near.	58	59	61	62	61	61	61	61	61	61	61	61	66	45	63	62	54
24	C.V. (5*)	9.6	7.1	3.5	12.3	5.6	2.3	23.8	8.1	8.1	3.4	6.3	5.9	2.2	15	11	2.2	16
25	C.V. (4)	10.2	7.4	3.5	11.9	5.6	2.7	22.7	7.3	7.3	3.4	5.9	5.5	6.2	21	10	6.2	15
26	F. (Prdb.)	0.8	0.4	0.8	0.1	0.0	0.5	0.9	0.0	0.0	0.3	0.2	0.1	0.0	1.0	0.0	0.0	0.3

TABLE No. 3 (Contd.)

No.	Description	SEASON FIELD AREA IN HECTARES															
		1958	1959	1960	1961	1962	1963	1964	1965	1966	1967						
1	SRH-164111	522	4	534	3	134	1	194	2	574	1	947	1	4673	18	5330	12
2	SRH-164112	473	4	517	13	568	13	475	4	520	13	475	13	4783	17	4698	16
3	SR-3506	424	10	456	1	656	6	578	12	574	6	517	8	5385	11	6227	6
4	SR-2706	404	14	364	13	438	6	568	14	583	4	498	10	4812	16	6405	4
5	SR-1992	3819	14	4622	11	467	11	6434	6	5100	14	4879	11	5856	6	5520	11
6	SR-1971	3722	18	3623	12	286	15	6297	8	5695	8	4595	15	6246	2	5773	10
7	KDM-399	3392	18	2386	11	2542	13	5132	14	4156	18	3806	18	4866	15	3618	18
8	REH-2001	4237	11	4233	3	4121	6	8436	1	5343	12	5392	3	5793	7	6480	3
9	REH-2002	3455	11	4452	6	357	11	6569	5	5403	11	4973	9	5350	12	4940	14
10	REH-2003	3746	16	2966	16	4346	4	6073	9	5036	15	4833	12	5221	13	4498	17
11	JH-31236	6773	1	4772	3	5523	12	7592	3	7327	1	5930	1	6146	3	7865	1
12	JH-31308	4617	1	425	3	3943	3	7473	4	5871	5	5198	7	5400	10	4836	15
13	AH-97002	4709	6	3636	11	3602	10	4536	11	6234	3	4734	14	5937	5	6215	7
14	AH-97017	4026	13	3253	17	4761	16	4623	15	5731	7	4342	16	5478	9	5814	9
15	AH-97018	4571	9	2634	13	2224	13	4474	16	5414	10	4275	17	6411	1	5206	13
16	BIO-605	4563	8	4562	5	4533	8	7631	2	5578	9	5362	4	6080	4	7154	2
17	KH-9560	5262	2	4423	1	2106	18	6390	8	4799	16	5220	6	5510	8	5912	8
	CHECKS																
18	PARKASH	4637	6	4646	2	4608	2	6457	7	7047	3	5359	5	5095	14	6286	5
	Location Mean	4431		3861		3659		6073		6188		4960		5502		5710	
	Mean Stand	34		32		26		38		30		32		31		34	
	C.D. (5%)	905		816		227		693		1812		1671		1730		1284	
	C.V. (%)	12.29		12.73		3.73		6.87		17.63		18.13		18.93		13.53	
	F (Prob)	0		0		0		0		0.196		0.117		0.662		0	
	Plot Size	4.8		6		4.8		4.8		5.6		4.8		6		6	
	AGRONOMY DATA																
	Sowing Date	7-09		7-07		26-07		1-07		6-07		17-07		17-07		6-07	
	Harvest Date	10-12		-		9-11		15-10		17-10		-		6-11		5-11	
	Irrigation Nos	-		-		-		1		-		-		6		2	
	Fertilizer Applied N	120		120		120		100		-		-		150		180	
	Fertilizer Applied P	60		60		60		60		-		-		75		60	
	Fertilizer Applied K	60		40		60		40		-		-		37.5		50	

TABLE NO. 1 (Contd.)

TREATMENT	SEEDS			PLANTS			STAND			YIELD			WATER			FERTILIZER		
	NO.	WT.	NO.	NO.	HT.	NO.	NO.	HT.	NO.	HT.	NO.	HT.	NO.	HT.	NO.	HT.	NO.	HT.
1 REH-1901	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
2 REH-1902	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
3 REH-1903	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
4 REH-2001	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
5 REH-2002	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
6 REH-2003	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
7 KDM-399	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14	3062	14
8 REH-2001	1654	16	1654	16	1654	16	1654	16	1654	16	1654	16	1654	16	1654	16	1654	16
9 REH-2002	4021	6	4021	6	4021	6	4021	6	4021	6	4021	6	4021	6	4021	6	4021	6
10 REH-2003	4324	4	4324	4	4324	4	4324	4	4324	4	4324	4	4324	4	4324	4	4324	4
11 JH-31236	3981	7	3981	7	3981	7	3981	7	3981	7	3981	7	3981	7	3981	7	3981	7
12 JH-31302	3422	10	3422	10	3422	10	3422	10	3422	10	3422	10	3422	10	3422	10	3422	10
13 AH-97004	3420	12	3420	12	3420	12	3420	12	3420	12	3420	12	3420	12	3420	12	3420	12
14 AH-97017	4667	5	4667	5	4667	5	4667	5	4667	5	4667	5	4667	5	4667	5	4667	5
15 AH-97018	3229	4	3229	4	3229	4	3229	4	3229	4	3229	4	3229	4	3229	4	3229	4
16 BIC-605	3925	11	3925	11	3925	11	3925	11	3925	11	3925	11	3925	11	3925	11	3925	11
17 KH-9560	3569	11	3569	11	3569	11	3569	11	3569	11	3569	11	3569	11	3569	11	3569	11
CHECKS																		
18 PARKASH	1952	10	1952	10	1952	10	1952	10	1952	10	1952	10	1952	10	1952	10	1952	10
Location Mean	3646		3646		3646		3646		3646		3646		3646		3646		3646	
Mean Stand	35		35		35		35		35		35		35		35		35	
C.D. (5%)	401		401		401		401		401		401		401		401		401	
C.V. (%)	6.62		6.62		6.62		6.62		6.62		6.62		6.62		6.62		6.62	
F (Prob)	0		0		0		0		0		0		0		0		0	
Plot Size	6		6		6		6		6		6		6		6		6	
AGRONOMY DATA																		
Sowing Date	12-07		12-07		12-07		12-07		12-07		12-07		12-07		12-07		12-07	
Harvest Date	9-10		9-10		9-10		9-10		9-10		9-10		9-10		9-10		9-10	
Irrigation Nos	-		-		-		-		-		-		-		-		-	
Fertilizer Applied N	200		200		200		200		200		200		200		200		200	
Fertilizer Applied P	80		80		80		80		80		80		80		80		80	
Fertilizer Applied K	60		60		60		60		60		60		60		60		60	

TABLE No. 3 Contd.

NO	FERTILISER	GRAIN YIELD Kg/ha			MOISTURE			RAINFALL TR (mm)			OV/L					
		MEAN	S.E.	R	MEAN	S.E.	R	ZN 1	ZN 2	ZN 3	MEAN	R				
1	PER-1000	4139	1	4881	11	5719	3	3678	2	5390	13	2234	15	3768	14	
2	PER-1000	4111	3	4333	3	5433	12	3832	1	5986	12	2048	18	3956	11	
3	PER-1000	4114	3	4331	3	5386	2	2677	7	6787	3	3236	7	4234	6	
4	PER-1000	4168	1	4396	2	5393	1	3164	4	5498	13	2656	11	3773	13	
5	PER-1000	4153	1	4333	3	5394	3	2627	9	5672	13	3852	4	4050	9	
6	PER-1000	4113	3	4331	3	5447	16	2228	13	7120	7	2716	5	4355	5	
7	PER-1000	4114	3	4331	3	5377	15	2198	12	3590	18	2268	14	2685	18	
8	PER-1000	4123	3	4334	3	5352	7	2292	12	467	4	2733	10	4164	8	
9	PER-1000	4141	1	4353	3	5382	11	2812	5	6454	6	2181	16	3815	12	
10	PER-1000	4064	1	4356	16	5323	13	2226	14	5209	16	3021	9	3485	17	
11	JH-31236	4069	1	4334	7	5172	4	2666	8	8252	2	4401	2	5106	1	
12	JH-31308	4020	1	4333	12	5782	6	1879	18	7178	5	4382	3	4479	4	
13	AH-97002	4085	1	4317	6	5323	14	2171	16	6030	11	3673	6	3958	10	
14	AH-97017	4156	7	4659	10	5420	16	2034	17	6203	10	2533	12	3590	15	
15	AH-97016	4247	18	4202	17	4315	17	3223	3	4955	17	2384	13	3520	16	
16	BIO-605	4214	1	4321	4	6588	1	2575	10	9337	1	3205	8	5039	2	
17	KH-9560	4142	3	4339	1	6269	3	2359	11	7142	6	4667	1	4723	3	
CHECKS																
18	PARKASH	4260	3	4321	14	5714	10	2798	6	7838	3	2061	17	4232	7	
	Location Mean	4023		4364		5113		2636		6450		3070		4052		
	Mean Stands	38		33		33		23		35		36		31		
	C.D. (5%)	541		603		1281		497		1155		843		831		
	C.V. (%)	8.1		-		-		11.35		10.78		16.52		-		
	F (Prob)	0		-		-		0		0		0		-		
	Plot Size	6		-		-		6		5.46		4.8		-		
AGRONOMY DATA																
	Sowing Date	14-07		-		-		8-07		13-07		27-07		-		
	Harvest Date	22-11		-		-		22-10		20-10		28-10		-		
	Irrigation Nos	-		-		-		-		-		-		-		
	Fertilizer Applied N	120		-		-		80		80		100		-		
	Fertilizer Applied P	60		-		-		60		40		50		-		
	Fertilizer Applied K	40		-		-		40		-		30		-		

TABLE No. 3 CONTD.

GRAIN YIELD & SUBSTRICITY OVER THE PAKKASH

NO	TREATMENT	AREA	BAJA	BARA	KANF	ZN 1 MEAN	DEER	KERN	PANC	KANF	ZN 2 MEAN	FAHR	DNOL	JASH	VARA
1	REH-162413	33.4	21.9	-	-	3.4	-	3.3	3.3	4.3	-	10.1	-	-	-
2	REH-162513	33.4	26.6	1.3	-	3.4	-	3.3	-	6.5	-	-	-	-	-
3	REH-1556	34.3	24.4	4.4	-	3.3	-	3.3	13.2	3.1	2.1	-	-	-	1.5
4	REH-1557	34.3	24.4	4.4	-	3.3	-	3.3	-	-	-	-	-	-	-
5	REH-1558	34.3	23.3	-	-	3.3	-	3.3	11.3	4.4	-	-	-	1.4	-
6	REH-1571	34.2	23.6	4.3	-	3.3	-	3.3	-	3.7	-	-	-	-	-
7	KDM-399	35.5	11.4	-	-	3.2	-	-	-	-	-	-	-	-	-
8	REH-2001	35.5	13.9	-	-	3.2	-	-	19.1	5.9	0.2	-	-	-	30.7
9	REH-2002	35.5	32.9	-	-	3.2	-	-	-	4.4	-	-	-	-	1.7
10	REH-2003	-	47.8	26.2	-	3.3	-	-	-	-	-	-	-	-	-
11	JH-31236	26.1	-	-	-	-	-	-	19.4	0.8	3.3	46.1	-	-	-
12	JH-31308	2.4	11.5	-	-	-	-	-	4.2	8.2	-	-	1.6	-	16.6
13	AH-97002	-	13.8	-	-	-	-	-	-	4.9	-	1.6	-	-	15.8
14	AH-97017	-	10.5	-	-	-	-	-	-	-	-	-	-	-	-
15	AH-97018	-	1.1	-	-	-	-	-	-	-	-	-	-	-	-
16	BIO-605	30.8	47.6	3	-	12.3	-	4.2	17.3	-	-	-	-	-	-
17	KH-9560	53.9	34.1	-	-	12.1	-	10.7	12.1	5.1	-	13.5	-	-	18.2
18	CHECKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-
18	PAKASH	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 3 (Contd.)

S. No.	FACILITY	GRAND TOTAL SUPERIORITY OVER THE PARKASH											
		RANK	AVG	IN 3 MEAN	ARRR	RYDE	KAFI	KOLH	MANG	COIX	HYDE	IN 4 MEAN	UDAI
1	BR-1-62403	10.3	31.1	3	-	-	43.3	2.3	16.5	11.5	2.6	4.1	-
2	BR-1-62404	-	3.4	-	-	163.3	-	5.4	-	-	18.4	4.1	19.2
3	BR-1-62405	-	24.3	-	5.1	209.3	25.8	60.9	11.6	-	9	26.9	51
4	BR-1-62406	-	23.8	-	-	112	15.2	19.5	19.1	-	-	13.6	111
5	BR-1-62407	-	19.2	-	14.9	14.4	21.4	23.3	8.4	-	5.6	14.5	72.1
6	BR-1-62408	-	19.1	-	22.6	-	31.3	0	3.4	5	-	4.8	62.9
7	KDM-393	-	-	-	-	55.3	-	-	-	-	-	-	-
8	REH-2001	-	14.3	1.6	13.1	-	11.3	71	34.7	34.7	19.3	23.7	16.2
9	REH-2002	-	14.3	-	5	127.1	5.1	37.5	25.4	25.4	41.7	20.2	19.9
10	REH-2003	-	14.3	-	13.6	133.4	13.3	49.4	39.6	39.6	38.3	22.1	18.8
11	REH-2004	-	13.9	1.6	11.6	115.4	16.1	31.1	31.1	31.1	-	14.1	63.6
12	SH-2005	-	23.7	1.6	21.6	84.3	5.2	57.7	17.9	17.9	11.8	16.2	22.8
13	SH-2006	-	23.7	-	16.5	-	-	-	-	-	3.7	5.7	57.5
14	SH-2007	-	20.5	-	11.5	162.8	2.6	27.9	-	-	-	9.5	19.6
15	SH-2008	-	19.8	-	25.8	112.1	2.3	0.8	-	-	-	2	-
16	BIO-605	-	17.2	3.1	19.3	13.8	35.5	45.3	37.9	37.9	54.7	38.2	46.5
17	KH-9560	18.3	0.8	-	8.2	-	24.1	6.7	22.9	22.9	20	17.3	80.9
18	CHECKS	-	-	-	-	-	-	-	-	-	-	-	-
18	PARKASH	-	-	-	-	-	-	-	-	-	-	-	-

TABLE NO. 3 (Contd.)

S. NO	PEDIGREE	SPRINK FIELD - SUPERIORITY OVER THE PARKASH									
		BANS	CHKZ	ZN 5 MEAN	OVTL MEAN	ZN UDHA	ZN 6 SOUTH	ZN 5 GODH	OVTL MEAN		
1	EHL-162408	13.6	13.8	8.9	0.4	31.5	-	8.4	-	-	
2	EHL-162508	30.0	10.9	20.2	-	37	-	-	-	-	
3	FH-3506	13.7	20.8	27.6	11.8	-	-	57	0	-	
4	EH-2005	-	-	28.7	1	13.2	-	28.9	-	-	
5	EH-1992	-	-	14	0.3	-	-	86.9	-	-	
6	EH-1971	-	-	11.7	-	-	-	80.3	2.9	-	
7	KOM-399	-	-	-	-	-	-	30	-	-	
8	REH-1001	-	-	-	7.7	-	-	32.7	-	-	
9	REH-1002	-	-	-	-	0.5	-	5.6	-	-	
10	REH-1003	-	-	-	-	-	-	46.5	-	-	
11	RE-11236	-	-	-	-	-	-	113.5	20.7	-	
12	JH-31393	8.9	-	9.1	0.2	-	-	112.6	5.8	-	
13	AR-97002	6.9	-	17.3	-	-	-	78.2	-	-	
14	AH-97017	16.7	-	11.1	-	-	-	22.9	-	-	
15	AH-97018	-	-	-	-	15.2	-	15.6	-	-	
16	BIO-605	13.7	22.4	26.9	15.3	-	19.1	55.5	19.1	-	
17	KH-9560	15.4	18.4	36.9	9.7	-	-	126.4	11.6	-	
18	PARKASH	-	-	-	-	-	-	-	-	-	

TABLE NO. 3 (Contd.)

NO	REGISTRAR	Zone										Zone Mean	
		AMC	BAH	BRD	KAJ	KEJ	KANP	PANT	KARK	TEJ	BAIR		DHOL
1	EH-162408	52.3	51.3	53.3	52.3	52.3	50.3	47.0	50.3	52.0	49.8	51.7	45.7
2	EH-162508	52.7	52.0	55.3	52.1	49.7	51.0	46.7	51.0	52.0	49.8	51.3	44.3
3	EH-3506	50.7	53.3	55.0	52.2	49.7	50.3	45.7	50.3	47.7	47.8	49.0	41.7
4	EH-2005	52.3	53.0	56.0	53.2	48.0	51.0	45.3	51.0	49.0	48.3	51.0	44.3
5	EH-1992	51.0	53.3	55.3	53.8	48.3	50.7	46.7	50.7	46.0	47.9	49.7	44.3
6	EH-1971	53.7	56.3	54.7	53.6	49.7	51.3	46.0	51.3	45.0	48.0	51.0	45.0
7	KDM-359	53.3	53.7	55.0	53.0	51.0	51.7	47.3	51.7	52.0	50.5	54.3	46.7
8	REH-2001	55.7	57.7	56.0	55.3	52.7	54.7	46.3	54.7	50.0	50.9	55.0	50.3
9	REH-2002	56.0	56.3	56.0	55.0	53.7	55.0	46.7	55.0	53.0	52.0	56.0	49.3
10	REH-2003	56.3	60.7	55.0	56.4	53.7	55.3	46.3	55.3	50.0	51.3	56.3	50.7
11	CH-31235	51.3	53.3	53.7	52.0	46.3	51.0	46.7	51.0	50.0	49.0	50.0	43.7
12	CH-31308	51.0	53.3	56.0	52.3	46.3	53.0	46.0	53.0	45.0	47.3	49.0	43.7
13	AM-97002	53.3	56.3	55.3	54.7	49.3	51.3	46.3	51.3	51.0	49.5	52.7	44.7
14	AM-37011	53.3	56.0	55.3	54.3	46.7	51.7	47.0	51.7	48.0	48.8	51.7	45.0
15	AM-37012	54.3	59.0	55.3	55.3	46.3	53.0	46.0	53.0	50.0	48.6	52.3	44.3
16	BC-808	54.3	55.7	54.7	53.7	52.7	51.7	46.3	51.7	50.0	50.2	53.7	45.3
17	KS-9560	52.3	54.7	55.3	53.2	49.3	50.0	46.0	50.0	50.0	48.8	51.7	42.7
CHECKS													
18	PAKASH	50.7	53.3	57.3	52.3	46.3	49.7	46.3	49.7	48.0	47.6	49.0	41.7
	Loc. Mean	52.8	55.1	55.6	53.5	49.7	51.5	46.6	51.5	49.4	49.2	52.0	45.2
	C.D. (5%)	1.10	1.00	3.80	2.40	2.40	1.60	1.30	1.60	0.20	2.00	2.10	1.80
	C.D. (1%)	1.50	1.30	5.10	3.20	3.20	2.10	1.80	2.10	0.30	2.70	2.90	2.40
	C.V. (%)	2.23	1.06	4.08	3.20	2.91	1.83	1.70	1.83	0.28	2.86	2.47	2.34
	F (Prob.)	0.00	0.00	0.84	0.02	0.00	0.00	0.32	0.00	0.00	0.00	0.00	0.00

TABLE No. 3. (Contd.)

S. No.	Farm Name	Cows										Zone Mean	
		1000	2000	3000	4000	5000	6000	7000	8000	9000	10000		
1	REH-162405	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	49.9
2	REH-162509	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	50.0
3	REH-162606	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0	48.9
4	REH-2005	44.0	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	50.0
5	REH-1992	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	49.2
6	REH-1971	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	50.0
7	KM-399	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.8
8	REH-2001	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	51.7
9	REH-2002	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	52.3
10	REH-2003	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	52.6
11	SH-31236	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	50.1
12	SH-31308	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.3
13	SH-3002	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.7
14	SH-3701	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.6
15	SH-3701B	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.7
16	REH-1605	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	50.7
17	REH-550	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.7
18	CHECKS												
19	PARASH	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	49.2
20	1000 Meat	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	50.2
21	5000	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	54.0	55.0	56.0	1.30
22	C.V. (%)	1.66	1.97	2.98	2.81	1.66	2.38	3.06	3.06	2.06	0.00	0.00	1.80
23	F (Prob.)	0.00	0.00	0.88	0.00	0.00	0.00	0.03	0.03	0.00	0.00	0.00	2.52

S. No.	Description	1980-81						1981-82					
		Area	Yield	Area	Yield	Area	Yield	Area	Yield	Area	Yield		
1	REH-2001	49.0	49.3	48.1	49.3	48.1	48.1	48.1	48.1	48.1	48.1		
2	REH-2002	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
3	REH-2003	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
4	REH-2004	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
5	REH-2005	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
6	REH-2006	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
7	REH-2007	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
8	REH-2008	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
9	REH-2009	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
10	REH-2010	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
11	JH-31236	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
12	JH-31308	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
13	AH-97002	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
14	AH-97017	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
15	AH-97018	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
16	BIO-605	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
17	KH-9560	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
CHECKS													
18	PARKASH	49.0	49.3	48.1	49.3	48.1	49.3	48.1	48.1	48.1	48.1		
Loc. Mean:		49.8	49.6	48.2	49.2	48.0	49.0	48.0	48.0	48.0	48.0		
C.D. (5%)		1.30	2.70	1.60	1.60	1.00	1.00	1.00	1.00	1.00	1.00		
C.D. (1%)		1.70	3.60	2.10	2.10	1.30	1.30	1.30	1.30	1.30	1.30		
S.E.M.		1.55	3.10	1.90	1.90	1.20	1.20	1.20	1.20	1.20	1.20		
P. Prob.		3.00	1.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		

Sl. No.	REGISTRATION NO.	FAIR TO GO RATES										Zone	
		BLMC	BRJA	BASA	BEJG	DEBR	KARN	PANT	KANP	MOBH	BAHR	DHOL	
1	REH-1997	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
2	REH-1998	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
3	REH-1999	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
4	REH-2000	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
5	REH-2001	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
6	REH-2002	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
7	REH-2003	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
8	JH-31236	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
9	JH-31308	51.7	55.3	57.7	59.3	54.3	48.7	53.0	55.0	51.1	50.7	53.3	
10	AH-97002	54.3	60.3	66.3	69.3	56.5	48.7	54.7	55.0	52.8	50.7	53.7	
11	AH-97017	53.7	58.3	60.3	63.7	56.5	49.3	54.3	52.3	51.5	52.0	52.7	
12	AH-97016	54.0	61.7	57.3	53.0	56.5	48.7	53.3	54.0	52.0	54.0	53.3	
13	BIO-605	55.7	58.7	56.0	54.7	56.3	48.7	55.3	54.0	53.5	54.3	55.0	
14	KH-9560	52.3	58.0	57.7	53.7	55.4	48.5	52.7	55.0	52.1	52.3	52.7	
15	CHECKS												
16	PARKASH	51.7	55.3	59.3	51.0	54.3	48.7	53.0	52.7	51.1	50.7	49.3	
17	Loc. Mean	54.0	57.4	57.3	54.0	55.7	48.6	54.3	53.9	52.4	52.7	53.1	
18	C.D. (5%)	1.20	1.00	1.10	1.90	2.50	1.30	2.00	2.10	2.30	1.00	2.10	
19	C.E. (1%)	1.60	1.40	1.50	2.60	3.30	1.70	2.70	2.60	3.10	1.30	2.80	
20	C.V. (1%)	1.31	1.08	1.18	2.10	2.70	1.61	2.21	2.30	3.15	1.14	2.39	
21	T. Error	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 (Contd.)

ST	REGISTRATION	CASH	AREA	FARE	FARE	ZONE	ARBE	HYDE	KARI	KOLH	MAND	COLM	HYDE	BIOS	ZONE	
					MEAN	MEAN									MEAN	
1	ERH-162408	47.3	54.0	50.0	51.3	51.7	54.7	52.3	49.7	53.7	52.3	48.7	50.0	50.0	51.6	
2	ERH-162508	46.3	55.3	50.3	52.3	51.8	56.0	50.3	52.0	53.3	52.3	56.0	50.0	50.0	52.0	
3	ERH-2035	44.3	52.0	48.7	52.3	49.7	52.0	52.0	48.3	51.7	50.0	47.7	49.7	49.7	50.2	
4	ERH-1992	46.3	50.3	50.0	52.0	50.4	54.7	52.0	51.0	53.3	51.7	48.7	50.0	50.0	51.6	
5	ERH-1971	47.3	53.0	49.7	52.0	49.9	53.7	49.3	50.7	52.7	52.0	48.7	49.3	49.3	50.9	
6	KRM-399	46.3	52.0	51.0	52.0	52.2	54.3	53.7	50.7	53.7	51.0	48.7	52.0	52.0	52.0	
7	REH-2001	51.0	53.0	51.0	53.0	52.4	55.3	49.7	49.3	53.0	52.7	49.7	51.0	51.0	51.5	
8	REH-2000	53.0	53.0	53.0	53.0	53.6	57.0	50.3	48.7	56.7	54.3	52.3	54.0	54.0	53.4	
9	REH-2000	53.0	53.0	53.0	53.0	54.4	57.0	51.7	52.3	57.0	56.0	51.7	50.3	50.3	54.2	
10	REH-2000	53.0	53.0	53.0	53.0	54.3	57.0	53.0	49.0	54.0	53.0	51.3	51.7	51.7	54.3	
11	ERH-2028	43.0	53.0	53.0	53.0	53.3	57.0	52.0	50.3	55.0	53.0	51.0	49.7	49.7	51.4	
12	ERH-2028	43.0	53.0	53.0	53.0	53.3	57.0	52.0	50.3	55.0	53.0	51.0	49.7	49.7	51.4	
13	ERH-2028	43.0	53.0	53.0	53.0	53.3	57.0	52.0	50.3	55.0	53.0	51.0	49.7	49.7	51.4	
14	ERH-2028	43.0	53.0	53.0	53.0	53.3	57.0	52.0	50.3	55.0	53.0	51.0	49.7	49.7	51.4	
15	ERH-2028	43.0	53.0	53.0	53.0	53.3	57.0	52.0	50.3	55.0	53.0	51.0	49.7	49.7	51.4	
16	BIO-605	47.3	57.0	51.0	51.7	52.7	55.0	50.7	53.0	59.0	52.7	49.7	49.7	49.7	52.2	
17	KH-9560	45.0	53.0	50.3	52.3	50.9	53.0	51.3	50.7	52.3	53.3	49.0	50.0	50.0	51.4	
CHECKS																
18	PARKASH	43.3	51.3	51.3	52.7	49.8	53.0	50.3	50.7	52.3	52.0	48.0	49.7	49.7	50.9	
	Loc. Mean	47.3	53.3	50.6	52.2	51.5	54.6	51.5	50.3	53.8	52.6	49.7	50.4	50.4	51.9	
	C.D. (5%)	2.00	1.70	1.70	2.40	1.70	1.30	1.00	2.50	1.80	1.50	0.90	1.00	1.00	1.40	
	C.D. (1%)	2.70	2.30	2.30	3.20	2.20	1.80	1.30	3.30	2.40	2.00	1.20	1.40	1.40	1.80	
	C.V. (%)	2.52	1.96	2.03	2.75	2.79	1.45	1.13	2.95	2.03	1.69	1.11	1.24	1.24	2.48	
	F (Prob.)	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	

TABLE NO. 3 Contd...

Sl. No.	FERTILISER	GRS TO 31. SIXKING				Zone Mean	CPLI Mean	UDHA	LUDH	GODH	Ovrl. Mean
		GRS	GRS	GRS	GRS						
1	EH-1971	51.3	49.7	54.3	51.3	52.3	54.3	49.7	51.7	51.9	
2	EH-1972	52.3	50.8	55.3	52.3	52.3	55.3	49.3	51.3	52.0	
3	EH-2005	51.3	51.6	53.7	51.3	50.8	53.7	44.0	47.7	48.4	
4	EH-1992	51.3	51.3	53.7	51.3	51.6	53.7	45.0	51.0	50.3	
5	EH-1971	51.3	51.4	53.7	51.3	51.3	53.7	45.3	51.3	50.1	
6	EH-1971	51.3	51.4	53.7	51.3	51.3	53.7	49.0	53.3	51.9	
7	KDM-389	52.3	52.8	56.0	52.3	52.8	56.0	49.0	53.7	52.9	
8	EH-2001	53.3	53.2	58.7	53.3	54.2	58.7	50.3	56.3	54.4	
9	EH-2004	54.3	54.3	58.7	54.3	54.3	58.7	50.3	56.3	54.4	
10	EH-2003	54.3	54.3	58.7	54.3	54.3	58.7	50.3	56.3	54.4	
11	EH-2003	54.3	54.3	58.7	54.3	54.3	58.7	50.3	56.3	54.4	
12	EH-2003	54.3	54.3	58.7	54.3	54.3	58.7	50.3	56.3	54.4	
13	AH-9701	51.3	51.3	53.3	51.3	51.3	53.3	44.0	50.0	49.1	
14	AH-9701	51.3	51.3	53.3	51.3	51.3	53.3	43.7	47.3	48.8	
15	AH-9701	51.3	51.3	53.3	51.3	51.3	53.3	47.0	51.0	51.8	
16	BIO-605	51.3	51.3	53.3	51.3	51.3	53.3	48.0	50.7	50.7	
17	KH-9560	51.3	51.3	53.3	51.3	51.3	53.3	49.7	51.7	53.0	
CHECKS											
18	PARKASH	51.0	51.3	51.7	51.3	51.1	53.3	43.7	49.3	48.8	
	Loc. Mean	51.8	53.4	48.7	51.3	52.4	55.5	47.6	51.3	51.5	
	C.D. (5%)	1.00	0.70	2.70	1.50	0.80	1.98	1.89	1.98	1.98	
	C.D. (1%)	1.40	1.00	3.70	2.10	1.00					
	C.V. (%)	1.22	0.84	3.38	1.80	2.68	2.15	2.40	2.32	2.32	
	F (Prob.)	0.00	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	

TABLE NO. 3 (Contd.)

Sl. No.	REGISTRATION NO.	DATE TO DATE TEST MARK										Zone Mean	
		ALYC	BAVA	BARA	BARC	BARV	DELR	KARN	PANT	KANT	Zone Mean	BAHR	DHOL
1	BEH-182408	95.3	100.0	95.3	95.3	95.3	82.1	81.3	100.0	80.3	86.1	76.0	84.7
2	BEH-182508	100.0	100.0	100.0	100.0	100.0	84.0	80.3	100.0	76.3	85.2	76.3	84.7
3	BEH-18506	95.3	100.0	95.3	95.3	95.3	75.0	80.3	100.0	76.7	83.0	73.7	85.0
4	BEH-2005	100.0	100.0	100.0	100.0	100.0	72.3	79.7	100.0	75.3	81.8	73.7	86.7
5	BEH-1892	95.3	100.0	95.3	95.3	95.3	70.0	80.7	100.0	75.0	81.4	73.5	83.7
6	BEH-1911	95.3	100.0	95.3	95.3	95.3	90.7	79.7	100.0	77.0	86.8	74.3	85.0
7	KRM-199	95.3	100.0	95.3	95.3	95.3	82.3	80.7	100.0	77.7	85.2	78.0	85.3
8	BEH-2001	100.0	100.0	100.0	100.0	100.0	67.0	79.7	100.0	74.0	85.2	77.5	88.0
9	BEH-2002	100.0	100.0	100.0	100.0	100.0	85.0	81.0	100.0	76.0	86.0	73.0	88.3
10	BEH-2003	102.0	100.0	98.0	98.0	98.0	89.0	80.7	100.0	75.0	86.7	73.7	88.3
11	BEH-31235	97.0	100.0	95.0	95.0	95.0	82.3	80.7	100.0	83.3	83.7	73.5	85.0
12	BEH-31308	95.3	100.0	95.3	95.3	95.3	71.7	80.3	100.0	76.7	82.2	71.7	85.0
13	BEH-31004	97.0	100.0	95.3	95.3	95.3	68.0	80.0	100.0	74.7	84.7	76.0	87.3
14	BEH-31017	94.0	99.0	95.3	95.3	95.3	72.3	80.3	100.0	75.3	82.0	76.0	83.7
15	BEH-31019	97.0	100.0	95.3	95.3	95.3	76.3	80.0	100.0	73.0	83.8	74.0	84.3
16	BEH-30077	97.0	100.0	95.3	95.3	95.3	75.0	80.7	100.0	72.7	82.1	75.0	87.3
17	BEH-3533	95.3	100.0	95.3	95.3	95.3	71.3	79.7	100.0	73.0	77.0	76.3	84.7
18	CHECKS												
19	PARKASH	94.0	98.0	95.3	95.3	95.3	76.3	78.3	100.0	74.7	82.6	72.0	86.0
	100% Mean	97.5	102.0	98.0	98.0	98.0	78.4	80.3	100.0	76.3	83.8	74.7	85.7
	C.V. 15%	2.20	4.40	3.30	3.30	3.30	16.70	1.70	-	2.80	5.00	2.40	2.40
	C.V. 11%	3.00	6.60	4.90	4.90	4.90	22.50	2.20	-	3.80	6.70	3.20	3.20
	C.V. (%)	1.56	2.89	3.56	3.56	3.56	12.86	1.24	-	2.25	4.24	1.94	1.68
	F (Prob.)	0.00	0.00	0.57	0.00	0.00	0.17	0.60	-	0.00	0.27	0.00	0.00

TABLE NO. 3

ST NO	PLOT/RECORD	CRS TO 100 CM MARK										Zone Mean	
		DASH	MARK	ERIC	EMBI	ARBH	HYDE	KARJ	KOLH	MAND	CCIM	Zone Mean	
1	BR-162408	83.0	83.0	83.0	83.3	83.3	83.3	83.7	86.7	93.7	90.0	86.3	86.7
2	BR-162501	83.0	83.0	83.0	83.0	83.0	83.0	83.0	86.3	95.7	90.0	86.3	86.7
3	BR-163000	83.0	83.0	83.0	83.3	83.3	83.3	83.3	84.7	91.7	88.0	84.7	85.4
4	BR-163006	83.0	83.0	83.0	83.0	83.0	83.0	83.0	86.3	93.0	89.3	86.3	85.7
5	BR-163102	83.0	83.0	83.0	83.3	83.3	83.3	83.3	85.7	91.0	89.3	85.7	83.7
6	BR-163107	83.0	83.0	83.0	83.3	83.3	83.3	83.3	86.7	92.3	90.0	86.7	86.6
7	KM-163109	83.0	83.0	83.0	83.0	83.0	83.0	83.0	86.0	89.7	90.0	86.0	84.2
8	BR-163111	83.0	83.0	83.0	83.0	83.0	83.0	83.0	89.7	95.3	92.0	89.7	87.6
9	BR-163114	83.0	83.0	83.0	83.0	83.0	83.0	83.0	89.7	93.3	95.0	89.7	89.8
10	BR-163118	83.0	83.0	83.0	83.0	83.0	83.0	83.0	89.7	100.7	95.0	89.7	89.4
11	BR-163122	83.0	83.0	83.0	83.3	83.3	83.3	83.3	87.7	96.0	90.0	87.7	86.7
12	BR-163130	83.0	83.0	83.0	83.3	83.3	83.3	83.3	85.3	91.0	90.0	85.3	84.7
13	BR-163133	83.0	83.0	83.0	83.3	83.3	83.3	83.3	87.3	92.0	88.0	87.3	85.3
14	BR-163102	83.0	83.0	83.0	83.0	83.0	83.0	83.0	85.0	91.0	89.3	85.0	84.7
15	BR-163117	83.0	83.0	83.0	83.0	83.0	83.0	83.0	85.7	93.3	88.0	85.7	85.3
16	BR-163118	83.0	83.0	83.0	83.0	83.0	83.0	83.0	86.0	91.7	90.0	86.0	84.6
17	BR-163105	83.0	83.0	83.0	83.0	83.0	83.0	83.0	88.0	93.7	90.0	88.0	84.6
18	KH-163111	83.0	83.0	83.0	83.3	83.3	83.3	83.3	85.3	93.7	90.0	85.3	85.5
CHECKS													
19	BR-163108	83.0	83.0	83.0	83.0	83.0	83.0	83.0	85.3	92.3	83.0	85.3	84.6
20	BR-163108	83.0	83.0	83.0	83.0	83.0	83.0	83.0	86.8	93.4	90.1	86.8	85.9
Loc. Mean													
CR-163108									1.80	3.90	0.80	1.80	1.80
CR-163109									5.50	5.30	1.10	2.40	2.40
CR-163110									3.48	2.33	0.52	1.23	1.83
CR-163111									0.00	0.00	0.00	0.00	0.00

TABLE NO. 3 (Contd.)

Sl. No.	ELECTRICEE	LINE CODES AND BUSES					Zone		U.S.A.		C.V.I.	
		CODE	BANS	CHH	Zone Mean	U.S.A. Mean	C.V.I. Mean	U.S.A. Mean	C.V.I. Mean			
1	ERJ-162408	80.1	78.7	83.0	81.7	90.7	80.7	80.0	83.8			
2	ERJ-162508	80.2	81.0	87.7	83.0	93.3	80.0	79.7	84.3			
3	ER-3506	84.1	80.5	83.0	82.7	91.3	77.3	75.0	81.2			
4	ER-2005	81.1	80.7	82.1	81.7	93.0	76.7	78.0	82.6			
5	ER-1992	81.1	80.4	81.0	81.1	91.7	78.0	78.7	82.8			
6	ER-1971	82.1	81.5	83.7	82.6	93.3	79.0	79.0	83.8			
7	KM-399	81.3	81.3	80.3	79.8	93.7	80.0	81.0	84.9			
8	ER-2001	81.7	81.1	83.0	83.3	95.3	81.0	81.3	85.9			
9	ER-2002	83.7	81.3	83.7	84.6	95.3	81.3	82.7	86.4			
10	ER-2003	83.1	81.1	86.3	83.8	96.0	81.0	82.1	86.4			
11	ER-31298	82.1	84.0	80.1	82.1	94.3	76.7	77.3	82.2			
12	JH-31308	81.3	81.0	80.1	80.2	91.0	77.3	76.0	81.4			
13	AH-97002	84.3	81.7	82.7	82.9	92.7	78.7	78.3	83.2			
14	AH-97017	82.7	81.3	81.7	81.9	91.3	79.3	77.7	82.8			
15	AH-97018	81.7	80.7	81.3	81.2	92.3	78.7	78.3	83.1			
16	BIO-605	84.7	81.0	84.3	83.3	92.7	80.7	79.7	84.3			
17	KH-9560	82.0	80.0	81.3	81.1	91.0	81.7	79.0	83.9			
CHECKS												
18	PARKASH	81.3	80.3	82.7	81.4	91.0	76.7	77.7	81.8			
	Loc. Mean	82.4	80.4	83.6	82.1	92.7	79.1	79.0	83.6			
	C.D. (5%)	1.30	1.70	1.50	3.20	2.5	1.7	1.9	1.7			
	C.D. (1%)	1.80	2.30	2.10	4.30							
	C.V. (8)	0.99	1.28	1.11	2.35	1.8	1.3		1.2			
	F (Prob.)	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00			

TABLE NO. 5 (Contd.)

S. No.	SITE NAME	MEASUREMENTS AT DIFFERENT										BAHR	DHOL
		DATE	TIME	WIND	WAVE	SEAS	SWELL	WAVE	WAVE	WAVE	WAVE		
1	REH-162400	31.1	24.3	23.7	26.4	27.3	34.1	38.1	33.1	15.0	24.8	21.0	17.3
2	REH-162500	32.3	23.3	23.3	28.2	25.6	30.2	27.8	24.5	15.0	24.1	20.9	21.2
3	EH-3508	32.3	22.3	22.7	24.7	25.7	28.9	23.3	23.3	15.0	22.7	19.6	17.1
4	EH-2005	34.4	23.6	22.0	23.8	26.0	36.6	25.6	29.5	15.0	26.7	21.1	21.5
5	EH-1992	34.8	22.6	22.0	23.1	25.6	31.1	27.8	21.1	15.0	23.7	19.4	20.1
6	EH-1971	34.1	23.3	22.7	22.4	25.6	37.0	29.9	25.5	15.0	26.9	20.3	18.6
7	KDM-399	32.6	21.1	22.7	25.3	25.4	31.4	25.6	26.1	15.0	24.5	20.9	18.2
8	REH-2001	30.4	24.5	22.7	24.1	25.4	32.3	28.6	33.8	15.0	27.4	20.5	24.4
9	REH-2002	28.6	25.5	22.3	25.5	25.5	32.6	28.8	30.1	15.0	26.6	20.7	21.6
10	REH-2003	29.2	23.3	23.0	24.3	25.0	31.8	27.2	30.6	15.0	26.1	21.6	24.6
11	JH-31236	32.5	20.1	22.0	24.4	24.7	31.2	25.6	24.5	15.0	24.1	20.3	20.9
12	JH-31305	33.2	19.3	22.3	24.8	24.8	32.3	23.7	27.9	15.0	24.7	19.9	20.1
13	AH-37052	33.4	21.3	22.5	25.3	25.6	36.3	25.9	25.3	15.0	25.6	20.1	21.6
14	AH-37017	31.3	22.3	22.1	24.6	25.4	30.4	24.1	21.7	15.0	22.8	20.7	18.4
15	AH-37016	32.0	22.3	21.3	25.0	25.2	34.8	24.2	24.6	15.0	24.6	19.9	21.1
16	BIC-605	34.1	23.3	21.0	23.3	25.7	35.3	24.8	33.7	15.0	28.5	21.2	21.9
17	KH-3560	34.4	26.3	22.3	24.6	27.0	29.9	25.7	26.9	15.0	24.1	22.0	17.7
CHECKS													
18	PARKASH	30.8	19.0	23.3	26.1	24.8	29.6	26.1	22.0	15.0	23.2	18.9	19.1
	Loc. Mean	32.7	22.7	22.4	24.6	25.6	32.5	26.5	26.2	15.0	25.1	20.5	20.3
	C.D. (5%)	2.10	1.90	2.30	1.40	2.40	4.80	-	5.20	-	3.30	1.10	0.00
	C.D. (1%)	2.90	2.60	3.10	1.90	3.10	6.50	-	7.00	-	4.30	1.50	0.00
	C.V. (%)	3.96	5.11	6.23	3.48	6.49	8.97	-	12.0	-	9.13	3.38	0.00
	F (Prob.)	0.00	0.00	0.88	0.30	0.68	0.01	0.00	0.00	-	0.02	0.00	0.00

TABLE NO. 3 (Contd.)

SI NO	MEMBER	TALE	DATE	FAV	RAV	Zone Year	ARBE	HYDE	KARI	KAIR	KANO	COJM	HYDE BIOS	Zone Mean
1	REH-1941	16.1	26.1	22.1	20.4	20.4	22.7	25.5	12.7	13.4	13.4	17.5	14.0	17.8
2	REH-1942	16.1	26.1	22.1	20.4	20.4	23.7	23.5	13.0	13.3	16.0	17.6	14.0	18.4
3	REH-1943	16.1	26.1	22.1	20.4	20.4	33.3	27.2	13.3	13.7	17.6	16.8	14.0	18.9
4	REH-1944	16.1	26.1	22.1	20.4	20.4	31.7	27.2	13.3	13.4	17.4	19.2	14.0	19.5
5	REH-1945	16.1	26.1	22.1	20.4	20.4	23.3	25.2	13.3	14.0	18.0	18.0	14.0	18.0
6	REH-1946	16.1	26.1	22.1	20.4	20.4	27.7	27.3	13.7	13.8	17.4	17.5	14.0	18.7
7	REH-1947	16.1	26.1	22.1	20.4	20.4	24.3	27.3	12.7	13.5	16.6	17.9	14.0	18.1
8	REH-2001	16.1	26.1	22.1	20.4	20.4	29.6	23.2	12.6	13.8	18.4	15.7	14.0	18.9
9	REH-2002	16.1	26.1	22.1	20.4	20.4	32.7	23.5	12.3	13.7	18.6	19.5	14.0	20.0
10	REH-2003	16.1	26.1	22.1	20.4	20.4	34.0	32.4	12.3	14.3	17.6	19.8	14.0	20.4
11	JH-31236	16.9	23.6	23.6	20.4	20.4	19.8	25.2	13.7	14.9	16.8	16.5	14.0	17.1
12	JH-31308	16.8	23.2	23.2	19.8	19.8	24.5	25.2	13.0	13.4	17.5	19.3	14.0	18.3
13	AH-97002	16.8	23.2	23.2	20.6	20.6	26.0	24.4	11.7	13.8	14.2	16.5	14.0	17.2
14	AH-97017	16.5	23.3	23.3	19.8	19.8	16.4	23.9	12.0	13.2	17.2	16.5	14.0	16.2
15	AH-97018	16.6	23.5	23.5	20.6	20.6	25.0	19.1	11.3	13.1	17.6	18.3	14.0	16.9
16	BIO-605	17.4	27.1	27.1	22.0	22.0	27.4	22.6	13.0	13.8	17.0	19.8	14.0	18.2
17	KH-9560	16.4	24.4	24.4	20.5	20.5	16.8	29.4	12.0	13.6	17.5	17.8	14.0	17.5
18	CHECKS	16.1	23.4	23.4	19.9	19.9	24.5	27.4	12.3	13.4	16.9	18.0	14.0	18.1
19	MARKER	16.1	24.3	24.3	20.5	20.5	25.8	26.5	12.7	13.5	17.3	17.9	14.0	18.2
20	Pop. Mean	-	1.53	-	1.80	1.80	3.80	1.93	1.60	0.50	1.30	0.40	-	2.10
21	S.D. (S)	-	0.00	-	2.10	2.10	5.10	2.53	2.20	0.76	1.80	0.50	-	2.80
22	C.V. (%)	-	0.00	-	6.00	6.00	8.86	4.27	7.79	2.30	4.68	1.31	-	11.0
23	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	-	0.02

TABLE NO. 3 CONT.

No.	DESCRIPTION	MOISTURE & ASHERVES		Zone Mean	CV'L		GDHA	LPHI	GODH	OV'L	
		W.M.	W.S.		Mean	Max				Mean	Max
11	BE-1-10410A	20.7	15.4	16.1	21.1	27.3	27.6	18.9	25.5		
12	BE-1-10410B	20.7	15.4	16.1	21.1	27.0	28.9	18.9	24.9		
13	BE-1-10410C	20.7	15.4	16.1	20.4	26.7	26.4	18.8	24.0		
14	BE-1-10410D	20.7	15.4	16.1	21.6	25.9	27.7	19.5	24.3		
15	BE-1-10410E	20.7	15.4	16.1	20.6	26.8	28.0	19.1	24.6		
16	BE-1-10410F	20.7	15.4	16.1	21.7	25.7	26.9	17.7	22.9		
17	BE-1-10410G	20.7	15.4	16.1	21.8	25.7	27.8	14.1	22.2		
18	BE-1-10410H	20.7	15.4	16.1	21.3	27.7	27.7	19.1	28.2		
19	BE-1-10410I	20.7	15.4	16.1	21.9	27.2	27.7	17.2	29.9		
20	BE-1-10410J	20.7	15.4	16.1	22.2	26.6	27.9	26.4	23.7		
21	BE-1-10410K	20.7	15.4	16.1	20.3	26.0	27.7	20.1	24.6		
22	BE-1-10410L	20.7	15.4	16.1	20.5	26.0	27.5	19.3	24.3		
23	BE-1-10410M	20.7	15.4	16.1	20.6	25.8	27.4	21.3	24.8		
24	AH-9701	22.5	13.2	16.5	19.7	28.4	26.8	18.3	24.5		
25	AH-9701B	22.5	13.2	16.5	20.4	27.0	25.7	16.6	23.1		
26	BIO-605	20.9	15.1	16.1	21.8	27.7	31.0	20.4	26.4		
27	KH-8580	22.7	15.0	16.1	20.8	26.4	30.4	17.1	24.6		
28	CHECKS	20.9	15.3	16.1	20.3	25.6	26.6	18.9	23.7		
29	Loc. Mean	21.1	15.7	16.4	21.0	26.6	28.3	20.4	25.1		
30	C.O. Error	3.60	3.13	2.30	1.00	1.74	1.97	-	3.51		
31	C.O. Error	3.60	3.13	2.60	1.40	-	-	-	-		
32	C.O. Error	3.60	3.13	2.23	8.63	3.95	4.07	-	8.44		
33	ERROR	3.60	3.13	3.13	3.93	0.02	0.00	9.00	0.01		

TABLE No. 2 (Contd.)

ST. NO.	FACILITATION	PLANT HEIGHT (mm)											
		ADMC	BRDR	BRDR	KANG	Zone Mean	DELH	KARN	PANT	KANJ	Zone Mean	GAHR	DHOL
1	PH-12458	138	139	161	233	186	154	155	203	192	176	175	150
2	PH-12459	143	147	173	228	194	169	163	207	185	181	189	146
3	PH-3536	144	142	164	244	192	154	138	207	194	173	171	138
4	PH-2008	134	147	172	249	201	155	148	210	197	178	161	149
5	PH-1942	139	133	161	233	188	153	148	227	203	188	169	169
6	PH-1971	140	143	163	234	202	153	143	210	196	186	192	168
7	PH-194	143	143	161	243	196	153	157	223	197	189	183	160
8	PH-2001	146	147	163	243	204	152	177	263	192	206	208	181
9	PH-2004	149	149	163	223	191	157	163	267	198	194	196	163
10	PH-2003	149	147	163	233	193	163	147	240	203	193	190	179
11	PH-12316	149	143	163	233	191	152	168	210	188	183	171	156
12	PH-12316	149	147	163	233	193	153	158	210	193	193	188	172
13	PH-12316	153	153	163	243	193	153	157	210	193	193	190	162
14	PH-12316	152	161	163	233	200	173	169	220	191	186	196	166
15	PH-12316	157	163	171	213	194	150	158	213	180	183	191	161
16	BIC-605	243	162	166	233	201	194	175	257	193	205	174	171
17	KH-9560	225	165	171	232	198	163	157	227	191	184	190	169
CHECKS													
18	PARKASH	230	160	159	210	190	177	163	227	200	192	172	159
	Loc. Mean	237.0	158.0	165.0	224.0	196.0	173.0	160.0	224.0	193.0	187.0	182.0	162.0
	C.D. (5%)	8.0	17.0	34.0	21.0	17.0	20.0	12.0	27.0	11.0	16.0	17.0	25.0
	C.D. (1%)	11.0	23.0	46.0	28.0	22.0	27.0	17.0	36.0	14.0	21.0	23.0	33.0
	C.V. (%)	2.1	6.6	12.6	5.6	6.0	7.1	4.7	7.3	3.3	5.9	5.6	9.3
	F (Prob.)	0.00	0.00	0.79	3.00	0.75	0.00	0.00	0.00	0.00	0.01	0.10	0.09

TABLE No. 3 (Cont.)

ST. NO.	ADDRESS	PLANT HEIGHT IN.										Zone Mean		
		DASH	AREA	FRONT	REAR	Zone Mean	FRER	HYDE	KARI	KOLH	MAND		COIM	HYDE BIOS
1	ERI-162408	126	180	175	212	170	155	198	153	193	167	187	230	183
2	ERI-162508	126	185	172	211	172	164	212	190	210	183	195	235	198
3	ER-3508	127	190	183	207	168	154	200	177	192	179	192	210	186
4	EH-2005	132	195	180	211	172	160	200	188	188	172	200	230	191
5	EH-1992	136	220	187	204	183	172	195	200	197	182	191	233	196
6	EH-1971	134	220	182	219	186	187	210	197	205	193	180	238	201
7	KDM-339	131	205	175	210	176	172	216	166	205	169	185	223	191
8	REH-2001	146	235	191	221	198	202	210	208	207	193	201	232	207
9	REH-2001	146	170	202	206	180	196	210	191	203	170	194	247	202
10	REH-2003	149	215	204	221	190	183	200	179	187	193	203	227	196
11	SH-3-236	149	210	167	213	177	161	203	182	195	181	199	233	194
12	ER-3308	155	220	190	216	183	184	232	189	213	193	205	222	205
13	ER-3302	157	215	194	219	181	173	215	184	203	186	203	218	198
14	ER-3311	157	215	194	219	181	173	215	184	203	186	203	218	198
15	ER-3314	157	215	194	219	181	173	215	184	203	186	203	218	198
16	ERG-605	136	230	191	213	185	192	210	206	212	187	192	212	202
17	KH-9560	132	190	189	207	189	182	223	206	217	201	208	233	210
18	CHECKS					180	173	212	201	198	178	206	218	198
18	PARKASH	139	220	185	212	181	173	227	171	172	191	212	218	195
	Loc. Mean	135	208	185	213	181	176	212	188	200	184	197	226	198
	C.D. (5%)	6.0	-	23.0	23.0	11.0	9.0	13.0	13.0	23.0	20.0	6.0	10.0	11.0
	C.D. (1%)	8.0	-	31.0	31.0	15.0	12.0	18.0	18.0	31.0	27.0	8.0	14.0	14.0
	C.V. (%)	2.8	-	7.5	6.6	5.4	3.1	3.8	4.3	6.9	6.7	1.9	2.8	5.1
	F (Prob.)	0.00	-	0.09	0.79	0.00	0.00	0.00	0.00	0.04	0.05	0.00	0.00	0.00

TABLE 2.1.3. (Contd.)

S. No.	PARKASH	PARKASH				C.D.				C.V.			
		Mean	S.E.M.	S.E.D.	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	
1	EH-16240	173	1.6	1.1	176	170	167	173	153				
2	EH-16250	184	1.5	1.0	186	162	168	127	152				
3	EH-2006	175	1.7	1.2	178	174	158	140	157				
4	EH-2005	184	1.6	1.1	185	176	177	123	159				
5	EH-1992	186	1.7	1.2	189	181	188	133	167				
6	EH-1971	190	1.4	1.0	192	191	187	145	174				
7	KDM-199	185	1.6	1.1	186	175	183	125	161				
8	REH-2001	183	1.6	1.1	182	195	187	155	179				
9	REH-2002	182	1.6	1.1	190	198	192	132	174				
10	REH-2003	184	1.6	1.1	192	171	202	139	171				
11	JH-31236	185	1.5	1.0	186	179	178	139	166				
12	JH-31238	183	1.5	1.0	195	196	185	155	179				
13	AR-91004	183	1.5	1.0	190	168	182	145	163				
14	AR-91011	183	1.5	1.0	191	171	185	143	167				
15	AR-91014	183	1.5	1.0	192	198	187	144	176				
16	STO-91005	183	1.5	1.0	200	192	198	162	184				
17	KH-9550	183	1.5	1.0	190	186	178	145	170				
CHECKS													
18	PARKASH	193	1.55	1.12	188	197	182	149	176				
	Loc. Mean	189	1.68	1.19	190	182	183	140	168				
	C.D. (5%)	40.0	6.0	19.0	6.0	19.7	21.3	23.2	13.5				
	C.D. (1%)	54.0	8.0	26.0	8.0								
	C.V. (%)	12.9	2.1	6.1	5.4	6.5	7.0	10.0	4.8				
	F (Prob.)	0.82	0.00	0.44	0.00	0.00	0.04	0.05	0.09				

TABLE NO. 5. CONTD.

S. NO.	REMARKS	EAR HEIGHT (cm)					ZORG					ZORG Mean					
		100	104	108	112	116	DELH	KARN	PANT	KANP	Kanp	BAHR	DHOL	100	104	108	112
1	REH-162408	116	114	112	110	108	81	80	87	89	84	92	77				
2	REH-162506	119	117	115	113	111	85	78	77	81	80	74	68				
3	REH-162606	119	117	115	113	111	76	73	87	77	78	89	57				
4	REH-1605	126	124	122	120	118	87	77	90	87	85	104	76				
5	REH-1992	130	128	126	124	122	84	77	93	84	84	80	85				
6	REH-1371	133	131	129	127	125	109	68	87	105	92	101	91				
7	KRM-199	139	137	135	133	131	100	78	87	95	90	113	81				
8	REH-2001	124	122	120	118	116	101	92	105	91	97	105	83				
9	REH-2002	116	114	112	110	108	89	82	85	85	85	103	71				
10	REH-2003	123	121	119	117	115	76	70	97	102	86	79	80				
11	JH-31236	121	119	117	115	113	74	82	103	96	89	81	77				
12	JH-31308	136	134	132	130	128	86	95	93	85	90	74	81				
13	AH-97002	149	147	145	143	141	91	100	93	87	93	114	84				
14	AH-97017	122	120	118	116	114	91	90	90	84	84	109	86				
15	AH-97018	148	146	144	142	140	104	82	100	79	91	106	86				
16	BIC-505	130	128	126	124	122	100	87	115	89	98	95	85				
17	KH-356	111	109	107	105	103	72	78	87	83	87	92	72				
CHECKS																	
18	PARASH	126	124	122	120	118	103	90	113	94	100	82	81				
19	LOC. Mean	127	125	123	121	119	89	82	91	89	86	94	79				
20	S.D.	6	5	5	5	5	16	16	17	16	17	18	21				
21	C.V.	4	4	4	4	4	22	22	17	19	18	24	29				
22	C.V.	4	4	4	4	4	12	12	10	18	9	12	16				
E	Prob.	0.00	0.01	0.22	0.00	0.51	0.00	0.02	0.00	0.01	0.01	0.00	0.35				

TABLE No. 1 (Contd.)

S. No.	Locality	Soil Moisture (%)										Zone Mean	
		0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100		
1	REH-1324	3	3	3	3	3	3	3	3	3	3	3	3
2	REH-1325	3	3	3	3	3	3	3	3	3	3	3	3
3	REH-1326	3	3	3	3	3	3	3	3	3	3	3	3
4	REH-1327	3	3	3	3	3	3	3	3	3	3	3	3
5	REH-1328	3	3	3	3	3	3	3	3	3	3	3	3
6	REH-1329	3	3	3	3	3	3	3	3	3	3	3	3
7	KOM-349	3	3	3	3	3	3	3	3	3	3	3	3
8	REH-2001	3	3	3	3	3	3	3	3	3	3	3	3
9	REH-2002	3	3	3	3	3	3	3	3	3	3	3	3
10	REH-2003	3	3	3	3	3	3	3	3	3	3	3	3
11	JH-31236	3	3	3	3	3	3	3	3	3	3	3	3
12	JH-31308	3	3	3	3	3	3	3	3	3	3	3	3
13	AH-97092	3	3	3	3	3	3	3	3	3	3	3	3
14	AH-97017	3	3	3	3	3	3	3	3	3	3	3	3
15	AH-97018	3	3	3	3	3	3	3	3	3	3	3	3
16	BIO-605	3	3	3	3	3	3	3	3	3	3	3	3
17	KH-9560	3	3	3	3	3	3	3	3	3	3	3	3
CHECKS													
18	PARKASH	3	3	3	3	3	3	3	3	3	3	3	3
Loc. Mean		3	3	3	3	3	3	3	3	3	3	3	3
C.D. (5%)		3	3	3	3	3	3	3	3	3	3	3	3
C.D. (1%)		3	3	3	3	3	3	3	3	3	3	3	3
C.V. (%)		3	3	3	3	3	3	3	3	3	3	3	3
Σ		3	3	3	3	3	3	3	3	3	3	3	3

TABLE No. 1 300000

St. No	RECORDED	BAR HEIGHT ST				Zone Mean	OV'L Mean	UDHS	UDHS	CODH	OV'L Mean
		UDL	UDS	UDH	UDL						
1	EH-162408	81	72	88	81	85	83	87	63	78	
2	EH-162408	107	62	107	94	86	68	100	54	75	
3	EH-35536	93	51	81	76	80	72	73	63	70	
4	EH-2305	32	66	96	85	88	82	88	62	77	
5	EH-1992	56	65	98	79	86	75	107	68	83	
6	EH-1971	113	67	105	102	95	99	115	72	95	
7	KDX-199	75	70	87	78	89	88	93	61	81	
8	REH-2001	95	84	100	93	94	86	105	72	86	
9	REH-2002	66	61	90	66	86	85	97	62	81	
10	REH-2003	98	93	93	95	88	73	107	63	81	
11	JH-31236	103	60	93	87	90	89	92	63	81	
12	JH-31306	93	62	92	88	91	91	90	78	86	
13	AH-97002	83	55	110	92	92	82	105	65	84	
14	AH-97017	96	60	87	82	89	82	110	74	88	
15	AH-97016	112	66	83	87	96	97	113	72	94	
16	BIO-605	108	87	105	100	95	92	125	80	99	
17	KH-9560	85	73	78	79	81	71	78	61	70	
CHECKS											
18	PARKASH	97	71	99	89	92	97	95	73	89	
	Loc. Mean	95	73	94	87	89	84	99	67	83	
	C.D. (5%)	26	7	15	16	5	15.4	19.4	12.9	12.4	
	C.D. (1%)	35	10	21	21	6					
	C.V. (%)	17	6	10	11	10	11.1	11.8	11.6	9.0	
	F (Prob.)	0.13	0.00	0.00	0.05	0.00	0.00	0.00	0.02	0.00	

TABLE No. 3 (Contd.)

S. No.	PLOT/AREA	GROUND SETTLEMENTS										Zone		
		ADJ.	BASE	BEHA	EMG	DESH	KARN	PANT	KAND	MOBH	BAHR	JASH		
1	REH-19514	3.1	1.1	3.3	3.1	3.3	84.5	85.7	75.0	81.2	79.2	80.2		
2	REH-19514	3.1	1.1	3.3	3.1	3.3	80.6	83.3	74.0	80.2	79.1	77.9		
3	REH-19514	3.1	1.1	3.3	3.1	3.3	85.7	85.7	78.5	84.0	79.4	78.9		
4	REH-1955	3.1	1.1	3.3	3.1	3.3	83.3	83.3	75.5	81.7	78.8	78.6		
5	REH-1992	3.1	1.1	3.3	3.1	3.3	81.6	85.7	74.5	80.7	77.8	76.3		
6	REH-1971	3.1	1.1	3.3	3.1	3.3	82.6	85.7	75.0	81.4	77.4	78.0		
7	KDM-399	6.4	3.3	8.7	8.2	8.5	77.3	87.5	76.0	80.1	71.6	70.0		
8	REH-2001	6.2	3.3	8.7	8.0	8.5	81.0	85.7	72.0	81.0	76.3	-		
9	REH-2002	3.1	1.1	3.3	3.1	3.3	81.4	81.4	75.0	81.7	74.5	77.9		
10	REH-1003	3.1	1.1	3.3	3.1	3.3	80.3	84.7	76.5	81.6	79.3	79.8		
11	JH-1236	3.1	1.1	3.3	3.1	3.3	83.3	86.1	73.0	84.5	80.1	78.9		
12	JH-1308	3.1	1.1	3.3	3.1	3.3	82.3	84.2	73.5	81.3	79.1	79.5		
13	AR-1002	3.1	1.1	3.3	3.1	3.3	84.6	80.6	76.0	81.0	80.3	77.9		
14	AR-1007	3.1	1.1	3.3	3.1	3.3	76.8	85.7	75.0	80.7	76.7	78.0		
15	AH-1016	3.1	1.1	3.3	3.1	3.3	77.6	83.3	71.0	78.4	77.5	77.7		
16	BIC-105	3.1	1.1	3.3	3.1	3.3	80.0	85.7	72.8	80.7	77.7	78.4		
17	KH-1560	3.1	1.1	3.3	3.1	3.3	85.6	84.3	74.3	82.1	81.0	79.3		
CHECKS														
18	PARKASH	87.1	79.7	79.0	81.0	81.7	88.9	82.0	76.5	83.3	79.0	78.2		
	Loc. Mean	85.7	79.5	84.0	81.3	82.6	82.0	84.4	74.7	81.2	78.0	73.6		
	C.D. (5%)	0.9	0.0	8.9	1.3	3.5	-	-	2.3	3.4	1.3	-		
	C.D. (1%)	1.2	0.0	11.9	1.8	4.7	-	-	3.1	4.5	1.7	-		
	C.V. (%)	0.6	0.0	6.4	1.0	3.0	-	-	1.9	2.9	1.0	-		
	F (Prob.)	0.0	0.0	0.5	0.0	0.3	0.0	0.0	0.0	0.3	0.0	0.0		

GRAIN SUBSTITUTION														
NO.	DESCRIPTION	YIELD	PLANT	AREA	MOIST	MOIST	AREA	YIELD	KARI	KOLM	MAND	COIM	HYDE	Zone Mean
1	SH-1	10.0	10.0	10.0	10.0	10.0	10.0	10.0	76.7	82.1	84.6	79.9	77.7	80.4
2	SH-2	10.0	10.0	10.0	10.0	10.0	10.0	10.0	76.7	84.5	79.9	78.3	80.0	79.8
3	SH-3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	77.0	83.4	82.4	83.1	77.3	81.0
4	SH-4	10.0	10.0	10.0	10.0	10.0	10.0	10.0	74.0	86.8	86.0	82.9	79.0	81.9
5	SH-5	10.0	10.0	10.0	10.0	10.0	10.0	10.0	80.3	83.6	83.6	79.1	80.0	80.8
6	SH-6	10.0	10.0	10.0	10.0	10.0	10.0	10.0	75.2	86.3	84.8	81.9	77.7	81.0
7	SH-7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	82.3	84.3	82.3	79.5	79.3	81.4
8	SH-8	10.0	10.0	10.0	10.0	10.0	10.0	10.0	68.7	87.5	85.1	85.4	80.0	80.8
9	SH-9	10.0	10.0	10.0	10.0	10.0	10.0	10.0	82.0	83.1	79.0	87.3	79.7	79.8
10	SH-10	10.0	10.0	10.0	10.0	10.0	10.0	10.0	78.7	81.2	81.2	73.2	77.7	79.0
11	SH-11	10.0	10.0	10.0	10.0	10.0	10.0	10.0	71.3	84.0	78.9	81.3	78.7	80.9
12	SH-12	10.0	10.0	10.0	10.0	10.0	10.0	10.0	80.0	83.2	84.0	84.3	79.7	83.2
13	SH-13	10.0	10.0	10.0	10.0	10.0	10.0	10.0	84.0	84.9	74.3	81.8	79.7	81.9
14	SH-14	10.0	10.0	10.0	10.0	10.0	10.0	10.0	83.7	86.9	83.0	84.2	79.7	83.5
15	SH-15	10.0	10.0	10.0	10.0	10.0	10.0	10.0	77.3	85.5	84.5	77.5	80.0	81.7
16	BIO-505	10.0	10.0	10.0	10.0	10.0	10.0	10.0	76.3	84.3	76.5	79.6	80.7	80.3
17	KR-350	10.0	10.0	10.0	10.0	10.0	10.0	10.0	76.7	84.2	82.6	84.2	80.3	82.1
CHECKS														
18	PARKASH	10.0	10.0	10.0	10.0	10.0	10.0	10.0	75.0	86.8	87.0	78.5	80.0	81.9
19	Loc. Mean	10.0	10.0	10.0	10.0	10.0	10.0	10.0	77.6	84.6	82.0	81.2	79.3	81.2
20	Std. Dev.	10.0	10.0	10.0	10.0	10.0	10.0	10.0	6.5	3.0	1.3	0.9	1.3	2.9
21	Var.	10.0	10.0	10.0	10.0	10.0	10.0	10.0	42.25	9.0	1.69	0.81	1.69	8.41
22	Coef. Var.	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.8	3.6	1.8	1.2	1.7	3.8
23	Prob.	10.0	10.0	10.0	10.0	10.0	10.0	10.0	5.1	2.1	1.0	0.7	1.0	3.4
24	Prob.	10.0	10.0	10.0	10.0	10.0	10.0	10.0	0.0	0.1	0.0	0.0	0.0	0.2

TABLE 10. (Contd.)

SI NO	PEDIGREE	GRAIN SHELLING										GV'L	
		Area	EGNS	CHL	Zone Mean	CVL Mean	UDHA	LODH	GODH	Mean			
1	EH-162406	1.3	1.3	55.6	79.0	80.8	81.2	86.6	73.0	80.3			
2	EH-162506	2.1	1.1	54.6	61.0	80.6	80.8	85.1	72.3	79.4			
3	EH-3506	2.2	2.0	55.9	80.5	81.4	81.2	85.5	81.9	82.8			
4	EH-2005	3.3	3.3	53.8	79.0	81.4	86.0	84.3	81.3	83.8			
5	EH-3002	3.3	3.3	55.2	76.4	80.4	80.5	84.9	80.0	81.8			
6	EH-371	3.2	3.2	52.8	74.2	79.6	81.1	85.6	80.7	82.5			
7	EH-349	3.2	3.2	53.3	73.1	80.4	83.0	86.0	79.1	82.7			
8	EH-2004	3.1	3.1	55.2	77.3	80.2	81.1	86.3	80.6	82.7			
9	EH-2001	3.1	3.1	55.1	77.8	80.0	84.2	84.0	79.5	82.5			
10	EH-343	3.1	3.1	55.7	60.2	81.1	83.5	87.9	79.8	83.7			
11	EH-3304	3.1	3.1	54.8	73.2	81.3	83.1	83.5	81.2	82.6			
12	EH-3004	3.1	3.1	55.5	73.9	81.7	84.5	85.1	78.4	82.6			
13	EH-3001	3.1	3.1	53.8	61.7	82.4	85.1	86.0	80.9	84.0			
14	EH-3011	3.1	3.1	57.1	77.8	80.4	85.2	84.3	78.6	82.7			
15	EH-3013	3.1	3.1	54.3	81.3	80.4	80.9	87.3	79.0	83.2			
16	EH-356	3.1	3.1	53.1	81.7	81.4	85.4	80.3	73.1	82.7			
CHECKS													
18	PAR-58	3.1	3.1	53.3	77.2	81.4	85.4	87.2	81.3	84.7			
Loc. Mean:													
	G.D. 15%	3.40	2.40	1.50	4.90	1.50	0.6	1.0	-	3.3			
	G.D. 11%	4.50	3.20	1.80	6.60	1.90							
	CV. (%)	4.31	3.38	3.93	3.76	3.13	0.4	0.1	-	2.4			
	Prob.	3.11	3.11	3.11	3.25	0.51	0.0	0.0	-	0.3			

TABLE 10.1. (Contd.)

ST. NO.	REMARKS	STANDARD MEASUREMENT										Zone Mean		BAHR	DHOL		
		ALMC	ERLR	ESPA	KANG	Zone Mean	DELH	KARN	PANT	KANT	Zone Mean						
1	ERL-162408	62	73	52	69	66	57	49	62	78	61	69	55				
2	ERL-162509	63	73	52	68	65	59	53	62	73	60	72	54				
3	ER-3336	64	73	53	68	67	71	50	62	73	64	71	52				
4	ER-2005	61	73	52	67	65	61	48	61	74	61	71	56				
5	ER-192	60	73	51	67	68	54	52	59	75	60	72	55				
6	ER-3337	60	73	51	67	62	52	51	64	72	60	72	51				
7	KDM-3339	59	73	51	65	64	55	49	62	71	60	73	53				
8	ER-3340	61	73	53	64	61	60	44	61	72	61	72	50				
9	REH-2002	61	73	51	63	63	68	54	57	75	64	70	47				
10	REH-2003	64	73	51	63	61	59	42	61	71	61	67	50				
11	ER-3336	63	73	51	66	66	61	51	61	71	61	72	56				
12	ER-3308	60	73	51	67	63	64	52	62	76	63	73	57				
13	ER-3302	61	73	51	69	61	60	52	63	76	63	69	54				
14	ER-3301	63	73	51	69	66	63	53	61	79	64	69	55				
15	ER-3332	64	73	51	71	61	61	48	64	76	62	71	56				
16	BAC-605	60	73	50	65	62	54	50	59	72	61	73	52				
17	RS-350	63	75	57	70	66	60	40	52	74	60	73	45				
CHECKS																	
18	PARKASH	60	71	48	69	62	61	46	58	74	60	74	56				
	Loc. Mean	63	77	53	68	65	60	51	61	72	61	71	53				
	C.D. (5%)	5.7	8.3	11.1	3.9	4.4	14.1	5.2	5.2	3.4	4.7	4.2	7.0				
	C.V. (%)	5.5	6.5	12.7	3.4	4.8	14.2	6.2	5.2	2.7	5.3	3.5	7.9				
	F (Prob.)	0.1	0.0	0.6	0.0	0.1	0.4	0.2	0.4	0.0	0.7	0.2	0.1				

TABLE No. 1 (Contd.)

STATION	STANDARD DEVIATION										HYDR. BIOS	Zone Mean
	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967		
1 REH-164108	53	74	53	53	53	53	53	53	53	53	66	64
2 REH-162108	53	74	53	53	53	53	53	53	53	53	67	66
3 PH-3506	53	74	53	53	53	53	53	53	53	53	65	64
4 EH-2005	52	74	53	53	53	53	53	53	53	53	67	65
5 EH-1992	52	76	48	48	52	56	56	56	56	56	66	62
6 EH-1971	54	79	63	76	57	58	66	66	66	66	67	62
7 KDM-399	49	76	52	80	47	57	64	64	64	64	66	64
8 REH-2001	52	74	53	71	61	58	63	63	63	63	65	64
9 REH-2002	51	76	54	77	57	60	62	62	62	62	67	65
10 REH-2003	52	73	49	73	53	59	61	61	61	61	66	64
11 PH-31235	56	80	53	73	49	58	66	66	66	66	67	64
12 PH-31303	56	69	53	73	54	59	66	66	66	66	67	66
13 AH-97002	55	78	53	77	57	59	68	68	68	68	67	66
14 AH-97017	53	82	53	73	60	57	66	66	66	66	67	62
15 AH-97018	53	81	53	73	57	57	66	66	66	66	67	66
16 BIO-605	50	83	53	73	53	58	67	67	67	67	66	62
17 KH-9560	52	76	54	75	54	56	63	63	63	63	67	64
CHECKS												
18 PARKASH	57	78	47	75	39	57	64	64	64	64	67	62
Loc. Mean	53	79	54	74	52	58	64	64	64	64	66	64
C.D. (5%)	4.7	7.4	15.5	18.0	11.1	3.1	3.8	3.8	3.8	3.8	3.6	3.5
C.V. (%)	5.3	5.6	17.3	14.8	12.9	3.3	5.1	5.1	5.1	5.1	1.5	5.1
F (Prob.)	0.1	0.2	0.7	0.8	0.0	0.4	0.0	0.0	0.0	0.0	3.5	0.2

TABLE No. 3 CONT.

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)									
		UDAI	BANS	CHHI	Zone Mean	OV'L Mean	UDHA	LUDH	GODH	OV'L Mean	
1	EHL-162408	54	60	61	58	63	41	67	67	58	
2	EHL-162508	57	65	60	61	64	43	65	68	59	
3	FH-3506	71	64	66	67	65	39	67	72	59	
4	EH-2005	70	59	69	66	65	35	64	72	57	
5	EH-1992	65	59	64	63	63	36	57	78	57	
6	EH-1971	69	60	57	62	63	39	60	71	57	
7	KDM-399	48	60	62	57	63	39	62	78	60	
8	REH-2001	55	60	61	58	62	42	64	72	60	
9	REH-2002	63	60	61	61	63	41	60	73	58	
10	REH-2003	54	62	70	62	63	39	72	69	60	
11	JH-31236	83	61	69	71	65	38	68	74	60	
12	JH-31308	74	60	68	68	66	31	69	77	59	
13	AH-97002	78	65	61	68	64	42	62	78	61	
14	AH-97017	73	63	64	67	66	38	61	77	59	
15	AH-97018	70	59	66	65	63	41	66	74	60	
16	BIC-605	74	65	62	67	64	38	62	74	58	
17	KE-9560	64	62	64	63	63	36	68	78	60	
CHECKS											
18	PARKASH	65	62	66	64	62	33	65	81	60	
	Loc. Mean	66	61	64	64	64	38	64	74	59	
	C.D. (5%)	11.8	3.4	7.8	9.3	2.1	6.4	7.5	8.3	6.9	
	C.V. (%)	10.8	3.3	7.4	8.7	5.8	10.1	7.0	6.7	7.0	
	F (Prob.)	0.0	0.0	0.1	0.2	0.0	0.0	0.1	0.1	1.0	

TABLE No. 4
 1954 SEANTE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA, UDHAMPUR (R),
 UVE DELHI, AGRIANAGAR, KAPNAL, PANTNAGAR, KANPUR, BARRAICH, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KARIMNAGAR,
 ABERNATHY, MANDLA, COIMBATORE, COCHIN, CHENNAI, BANSWARA, GODHRA (R), CHHINDIWARA IN IET, TRIAL No. TR64 DURING KHARIF (2009).

BRAIN YIELD Kg/ha AT 15% MOISTURE

CULTIVAR	ZN 1										ZN 2									
	ALMO	BARI	BARA	KANG	KANS	R	MEAN	R	DELH	R	KARN	R	PANT	R	KANP	R	MEAN	R		
1 PH-3473	3456	3	6733	4	3834	4	6924	2	6487	4	2956	10	3705	5	8792	3	6875	1	5582	4
2 PH-3487	8078	7	8543	1	3640	3	6476	3	6734	3	3314	9	4280	1	9270	2	4662	11	5382	7
3 PH-3486	8351	6	7430	2	3463	5	8195	1	6860	1	2888	11	4116	3	7026	9	6657	3	5172	8
4 PH-3483	8846	1	7333	3	5116	1	5743	7	6760	2	6473	1	3565	6	10321	1	5553	9	6478	1
5 FQH-76	8409	5	5780	8	4107	2	4679	10	5744	5	3877	7	3189	8	6172	11	5593	8	4708	11
6 DH-177	7693	8	5215	9	2496	10	5170	8	5143	9	4115	6	3993	4	7547	7	6406	4	5516	5
7 DH-179	5516	11	4311	11	2055	11	6379	4	4565	11	4493	4	4273	2	7307	8	6398	5	5618	3
8 AH-97020	6955	9	6134	5	2674	8	4989	9	5188	8	4775	3	2936	9	8158	6	6673	2	5635	2
9 AH-97024	6527	10	5887	7	2770	7	4481	11	4916	10	3625	8	2606	10	8238	4	6067	7	5134	9
CHECKS																				
10 VIVEK QPM-9	8431	4	5986	6	2554	9	5879	6	5713	6	4210	5	3251	7	8203	5	6349	6	5503	6
11 VIVEK HYBRID-9	8554	2	4869	10	2947	6	6075	5	5611	7	5121	2	2412	11	6537	10	5342	10	4853	10
Location Mean	7802		6202		3259		5908		5793		4168		3484		7361		6052		5416	
Mean Stand	23		32		31		29		29		33		30		35		42		35	
C.D. (5%)	1274		1081		991		535		970		1195		573		2516		875		1290	
C.V. (%)	9.56		10.2		17.78		5.3		-		16.78		9.63		18.49		8.46		-	
F (Prob)	0.001		0		0		0		-		0		0		0.012		0.005		-	
Plot Size	3.6		4.2		5.6		4.2		-		5.6		6		6		4.8		-	
AGRONOMY DATA																				
Sowing Date	9-07		4-07		15-07		1-07		-		7-06		2-07		1-08		14-07		-	
Harvest Date	3-11		5-11		-		12-10		-		10-09		2-10		18-11		2-11		-	
Irrigation Nos	-		3		-		-		-		4		3		-		2		-	
Fertilizer Applied N	80		120		-		120		-		150		150		120		80		-	
Fertilizer Applied P	60		60		-		60		-		75		60		60		40		-	
Fertilizer Applied K	40		40		-		40		-		75		60		40		40		-	

TABLE No. 4 Contd...

GRAIN YIELD (kg/ha) AT 15% MOISTURE

VARIETY	GRAIN YIELD (kg/ha) AT 15% MOISTURE																						
	BAH	B	CHC	P	JASH	P	MARA	R	RANC	R	AMBI	R	ZN 3	MEAN	R	ARBH	K	HYDE	R	KARI	R	KOLH	R
PH-1471	3556	3	2938	11	3251	4	4034	10	9039	1	5431	4	4620	7	1942	10	4903	4	3192	9	6620	6	
PH-1472	4311	1	4106	5	2766	5	2080	4	8374	3	5219	8	5310	1	2238	6	4732	6	5005	2	7400	5	
PH-1481	3763	2	4493	2	2480	9	5301	7	7627	6	5246	7	4819	4	1687	11	5121	3	3175	10	5962	10	
PH-1483	2263	11	3999	6	4428	1	5630	6	8743	2	6385	1	5275	2	3430	1	5952	1	5051	1	8819	3	
PH-148	2826	7	3213	9	2186	10	2954	11	6125	8	5454	2	3793	11	2541	5	4810	5	3754	4	6607	7	
PH-177	2620	8	4738	1	2751	6	6752	2	6191	7	5317	5	4728	5	2124	9	3573	11	3230	8	7478	4	
PH-179	3324	4	3908	8	2615	7	4797	9	5636	10	4435	11	4119	10	2548	4	4420	9	3291	7	6333	8	
AH-97020	2412	10	3089	10	3110	3	5860	5	5904	9	5317	6	4282	9	2153	8	4532	8	3722	5	6154	9	
AH-97024	2939	5	4116	4	3657	2	6244	4	5363	11	4624	10	4490	8	2184	7	4555	7	2056	11	5842	11	
CHECKS																							
10 VIVEK QPM-9	2916	6	4304	3	2578	8	4859	8	8116	4	5439	3	4702	6	2790	2	3856	10	4014	3	8974	2	
11 VIVEK HYBRID-9	3554	3	3947	7	1913	11	6732	3	8060	5	5054	9	4877	3	2620	3	5636	2	3490	6	9823	1	
Location Mean	3045		3895		2867		5556		7198		5266		4638		2387		4736		3635		7274		
Mean Stand	33		31		26		37		29		35		32		30		34		34		37		
C.D. (5%)	498		1992		164		1007		1602		1048		1052		635		1455		452		2013		
C.V. (%)	9.57		29.93		3.34		10.61		13.02		11.65		-		15.56		17.98		7.28		16.19		
F (Prob)	0		0.164		0		0		0		0.003		-		0		0.058		0		0.032		
Plot Size	4.8		6		4.8		4.8		5.6		4.8		-		12		6		6		4.8		
AGRONOMY DATA																							
Sowing Date	7-09		7-07		26-07		2-07		6-07		18-07		-		17-07		7-07		12-07		28-07		
Harvest Date	10-12		-		12-11		4-10		12-10		-		-		3-11		5-11		9-10		5-12		
Irrigation Nos	-		-		-		1		-		-		-		6		2		-		-		
Fertilizer N	120		120		120		100		-		80		-		150		180		200		100		
Fertilizer P	60		60		60		60		-		50		-		75		60		80		50		
Fertilizer K	60		40		60		40		-		30		-		37.5		50		60		30		

TABLE No. 4 (Contd.)

TREATMENT	GRAIN YIELD (kg/ha) AT 15% MOISTURE										RAINFED TRIALS																									
	ZIN 4					UDAI R					BANS R					CHHI R					ZN 5					OV'L										
	MEAN	R	COIM	R	MEAN	R	UDAI	R	MEAN	R	BANS	R	CHHI	R	MEAN	R	ZN 5	R	UDHA	R	ZN 2	R	MEAN	R	ZN 5	R	UDHA	R	ZN 2	R	MEAN	R				
1. 30-3473	3080	6	3080	6	5798	3	5798	3	3572	8	5475	1	5475	1	4948	3	5353	4	3691	1	4709	8	3023	6	3808	4	3691	1	4709	8	3023	6	3808	4		
2. 30-3477	4222	4	4222	4	5681	10	5681	10	4885	1	4292	5	4292	5	4952	2	5812	2	2876	7	4831	7	3408	3	3705	5	2876	7	4831	7	3408	3	3705	5		
3. 30-3478	4655	8	4655	8	5789	4	5789	4	3827	7	3566	11	3566	11	4394	9	5176	6	2963	5	4141	11	3169	4	3424	8	2963	5	4141	11	3169	4	3424	8		
4. 30-3493	6062	1	6062	1	4941	11	4941	11	3954	6	5310	3	5310	3	4735	6	6137	1	3433	2	7787	2	4073	1	5098	1	3433	2	7787	2	4073	1	5098	1		
5. 30-3495	6623	3	6623	3	5772	6	5772	6	4336	4	4042	6	4042	6	4717	7	4859	9	2023	11	4260	10	3557	2	3280	10	2023	11	4260	10	3557	2	3280	10		
6. 30-3496	6353	5	6353	5	5765	5	5765	5	3284	10	3603	10	3603	10	4224	10	5024	7	2134	10	5101	6	2806	8	3347	9	2134	10	5101	6	2806	8	3347	9		
7. 30-3500	7520	3	7520	3	5751	8	5751	8	4334	5	3901	8	3901	8	4662	8	4834	10	2923	6	4647	9	2224	11	3265	11	2923	6	4647	9	2224	11	3265	11		
8. 30-3520	4532	10	4532	10	4792	11	4792	11	4884	2	3995	7	3995	7	4897	4	4888	8	3088	3	6359	3	2424	10	3957	3	3088	3	6359	3	2424	10	3957	3		
9. 30-3524	5964	6	5964	6	5711	9	5711	9	3204	11	3728	9	3728	9	4214	11	4770	11	3061	4	5381	4	2494	9	3645	6	3061	4	5381	4	2494	9	3645	6		
CHECKS																																				
10. VIVEK QPM-9	7729	2	7777	4	6190	3	6190	3	4796	3	5401	2	5401	2	5322	1	5486	3	2271	9	5206	5	2972	7	3483	7	2271	9	5206	5	2972	7	3483	7		
11. VIVEK HYBRID-9	4221	11	10645	3	6073	4	6073	4	3509	9	4746	4	4746	4	4877	5	5312	5	2376	3	7875	1	3147	5	4466	2	2376	3	7875	1	3147	5	4466	2		
Location Mean	6364		9322		5619		5619		4053		4369		4369		4722		5241		2804		5482		3027		3771		2804		5482		3027		3771			
Mean Stand	33		32		33		33		30		38		38		35		33		23		36		34		31		23		36		34		31			
C.D. (5%)	894		912		1060		1060		634		758		758		671		1031		1660		1534		1154		1450		1660		1534		1154		1450			
C.V. (%)	8.22		5.72		-		-		9.15		10.15		10.15		-		-		34.65		16.38		22.31		-		34.65		16.38		22.31		-			
F (Prob)	0		0		0.54		0.54		0		0		0		-		-		0.38		0.001		0.018		-		0.38		0.001		0.018		-			
Plot Size	5.6		4.8		-		-		4.8		6		6		-		-		6		5.46		4.8		-		6		5.46		4.8		-			
AGRONOMY DATA																																				
Sowing Date	22-07		16-07		-		-		8-07		14-07		14-07		-		-		8-07		24-07		27-07		-		8-07		24-07		27-07		-			
Harvest Date	23-11		12-11		-		-		23-10		22-11		22-11		-		-		27-10		27-10		28-10		-		27-10		27-10		28-10		-			
Irrigation Nos	6		10		-		-		2		-		-		-		-		-		-		-		-		-		-		-		-			
Fertilizer N	150		150		-		-		90		120		120		-		-		80		80		100		-		80		80		100		-			
Fertilizer P	75		75		-		-		40		60		60		-		-		60		40		50		-		60		40		50		-			
Fertilizer K	40		75		-		-		-		40		40		-		-		40		-		50		-		40		-		50		-			

TABLE No. 4 (Contd...)

GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM-9

NO	PILIGREE	ZN 1										ZN 2				ZN 3				
		ALMC	BAJA	BARA	KANG	DELF	KARN	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN			
1	FH-3478	0.3	12.5	50.1	17.6	13.6	14	7.2	8.3	1.4	-	13.3	-	11.4	-	-				
2	FH-3487	-	42.7	59.3	10.1	17.9	31.6	13	-	-	7.3	45.7	3.2	-	-	12.9				
3	FH-3488	-	24.1	35.6	39.4	20.1	26.6	-	4.9	-	29.3	4.4	-	-	-	2.5				
4	FH-3483	4.9	22.5	100.3	-	18.3	53.7	9.6	25.8	17.7	-	71.7	20	7.7	17.4	12.2				
5	FQH-76	-	-	63.8	-	0.5	-	-	-	-	-	-	-	-	0.3	-				
6	CH-177	-	-	-	-	-	22.6	-	0.9	0.2	-	10.1	39	-	-	0.6				
7	CH-179	-	-	-	9.5	-	31.4	-	0.8	2.1	14	-	-	-	-	-				
8	AR-37021	-	2.3	4.7	-	13.4	-	-	5.1	2.4	-	29.6	20.6	-	-	-				
9	AR-37024	-	-	3.5	-	-	-	0.4	-	-	0.8	-	28.5	-	-	-				
10	CHECKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
11	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
12	VIVEK HYBRID-9	1.6	-	16.4	3.3	21.6	-	-	-	-	21.9	-	38.6	-	-	3.7				

NO	PILIGREE	ZN 3					ZN 4				ZN 5						
		AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	MEAN	UDAI	BANS	CHHI	MEAN	ZN 1	ZN 2	ZN 5
1	FH-3478	-	-	-	27.1	-	-	-	-	0.5	-	1.4	-	62.5	-	1.7	9.3
2	FH-3487	-	12.9	-	22.7	24.7	-	23	3.7	-	1.9	-	5.9	26.6	-	14.7	6.4
3	FH-3488	-	2.5	-	32.8	-	-	-	0.4	-	-	-	-	30.5	-	6.6	-
4	FH-3483	17.4	12.2	22.9	54.4	25.8	5.6	11.8	14	-	-	-	11.9	51.2	49.6	37.1	46.4
5	FQH-76	0.3	-	-	24.7	-	-	-	0.1	-	-	-	-	-	-	19.7	-
6	CH-177	-	0.6	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-
7	CH-179	-	-	-	14.6	-	-	-	-	-	-	-	-	28.7	-	-	-
8	AR-37021	-	-	-	17.5	-	-	-	0.8	1.8	-	-	-	36	22.1	-	13.6
9	AR-37024	-	-	-	18.1	-	-	-	-	-	-	-	-	34.8	3.4	-	4.7
10	CHECKS	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	VIVEK HYBRID-9	-	3.7	-	46.2	-	9.5	8.9	10.6	-	-	-	-	4.6	51.3	5.9	28.2

TABLE No. 4 (Contd.)

No.	VARIETY	GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-9											ZN 3 MEAN				
		ALMC	BAJA	BARA	KANG	DELH	KARN	PANT	KANP	MEAN	BAHR	DHOL		JASH	VARA	RANC	AMBI
1	FH-3479	-	38.3	30.1	14	15.6	-	53.6	34.5	28.7	15	-	59.5	-	12.1	7.5	-
2	FH-3487	-	75.5	30.3	6.6	20	-	77.5	41.8	-	10.9	-	44.6	5.2	3.9	3.3	8.9
3	FH-3488	-	52.6	17.5	34.9	22.3	-	70.7	7.5	24.6	6.6	-	29.6	-	-	3.8	-
4	FH-3489	3.4	50.6	13.6	-	20.5	26.4	47.8	57.9	4	33.5	-	131.4	-	8.5	26.3	8.2
5	FQH-76	-	18.7	39.4	-	2.4	-	32.2	-	4.7	-	-	14.3	-	-	7.9	-
6	DH-177	-	7.1	-	-	-	-	65.6	15.5	19.9	13.7	-	20	0.3	-	5.2	-
7	DH-179	-	-	-	5	-	-	77.2	11.8	19.8	15.8	-	36.7	-	-	-	-
8	AH-97020	-	26	-	-	-	-	21.7	24.8	24.9	16.1	-	62.5	-	-	5.2	-
9	AH-97024	-	20.9	-	-	-	-	8.1	26	13.6	5.8	-	4.3	-	-	-	-
CHECKS																	
10	VIVEK QPM-9	-	22.9	-	-	1.8	-	34.8	25.5	18.9	13.4	-	34.7	-	0.7	7.6	-
11	VIVEK HYBRID-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

No.	VARIETY	GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-9											ZN 5 OV'L MEAN	ZN 5 GODH			
		APBH	HYDE	KARI	KOLH	MANC	COIN	MEAN	UDAI	BANS	CHHI	MEAN			OV'L MEAN	UDHA	LUDH
1	FH-3476	-	-	-	-	54.8	-	-	-	1.8	15.4	1.5	0.8	55.3	-	-	-
2	FH-3487	-	-	43.4	-	68.4	12.9	5.7	-	39.2	-	1.5	9.4	-	-	8.3	-
3	FH-3488	-	-	-	-	10.5	-	-	-	9.1	-	-	24.7	-	-	0.7	-
4	FH-3489	30.9	5.6	44.7	-	93.4	2.7	16.2	-	22.7	11.9	-	15.5	44.5	-	29.4	14.1
5	FQH-76	-	-	7.6	-	57	-	-	-	23.6	-	-	-	-	-	13	-
6	DH-177	-	-	-	-	64.8	-	-	-	-	-	-	-	-	-	-	-
7	DH-179	-	-	-	-	78.3	-	-	-	23.5	-	-	-	-	-	-	-
8	AH-97020	-	-	6.6	-	6.6	-	-	-	39.2	-	0.4	-	29.9	-	-	-
9	AH-97024	-	-	-	-	41.3	-	-	-	-	-	-	-	28.8	-	-	-
CHECKS																	
10	VIVEK QPM-9	6.5	-	15	-	83.1	-	1.9	-	36.7	13.8	9.1	3.3	-	-	-	-
11	VIVEK HYBRID-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE No. 4 (Contd.)
DAYS TO 50% POLLEN SHED

No.	VARIETY	Zone Mean										Zone Mean		Zone Mean			
		ALMC	BAUH	BARA	KANG	DELH	KARN	PANT	KANP	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	Zone Mean
1	FH-3478	48.7	53.3	50.3	50.3	48.3	45.7	48.3	52.0	48.6	48.7	41.7	44.7	41.3	47.0	45.3	45.3
2	FH-3487	51.0	55.3	51.3	49.7	49.7	46.3	48.7	44.0	47.2	48.3	43.3	45.0	42.7	47.7	45.7	45.7
3	FH-3488	48.3	55.7	51.0	48.3	46.7	47.7	50.3	48.0	48.2	48.7	43.0	43.3	42.7	46.0	45.6	45.6
4	FH-3483	50.0	56.3	51.3	47.7	45.3	45.0	47.3	45.0	45.7	49.3	44.3	44.3	42.7	49.0	46.7	46.7
5	FQH-76	48.3	56.3	50.0	48.7	44.7	43.7	47.3	48.0	45.9	47.7	40.7	42.0	39.7	45.0	43.8	43.8
6	DH-177	51.0	56.0	51.7	49.3	48.3	46.3	48.7	48.0	47.8	48.0	44.0	44.3	42.7	47.0	45.6	45.6
7	DH-179	51.0	57.7	50.7	48.7	46.0	43.0	48.3	47.0	46.1	45.0	41.3	43.0	40.0	46.7	44.1	44.1
8	AH-97020	52.3	57.3	53.7	50.3	49.7	47.3	48.3	46.0	47.8	53.3	43.7	45.7	42.7	45.7	46.8	46.8
9	AH-97024	54.7	56.7	55.7	47.3	49.0	47.0	50.3	45.0	47.8	52.7	45.7	45.0	40.7	47.3	46.6	46.6
CHECKS																	
10	VIVEK QPM-9	47.3	53.0	49.3	48.3	43.7	42.3	47.7	44.0	44.4	46.7	41.0	42.0	40.0	46.0	43.9	43.9
11	VIVEK HYBRID-9	48.0	53.3	49.3	48.0	44.3	44.0	47.3	45.0	45.2	45.3	41.0	42.3	41.7	48.3	44.5	44.5
Loc. Mean		50.0	55.5	51.3	48.8	46.9	45.3	48.4	46.5	46.8	47.9	42.7	43.8	41.5	46.9	45.3	45.3
C.D. (5%)		1.0	1.1	1.1	2.8	3.8	2.5	2.3	1.8	2.3	0.9	2.7	1.6	2.7	1.0	1.3	1.3
C.D. (1%)		1.4	1.3	1.5	3.8	5.2	3.3	3.1	2.4	3.0	1.2	3.7	2.2	3.7	1.4	1.8	1.8
C.V. (%)		1.2	1.1	1.3	3.4	4.8	3.2	2.8	2.2	3.4	1.1	3.7	2.1	3.8	1.3	2.6	2.6
F (Prob.)		0.00	0.00	0.00	0.33	0.02	0.00	0.10	0.00	0.01	0.00	0.01	0.00	0.11	0.00	0.00	0.00
CHECKS																	
1	FH-3478	49.7	46.0	44.0	50.7	46.0	47.0	46.3	46.0	48.7	47.0	47.5	49.5	43.3	46.7	46.5	46.5
2	FH-3487	51.3	47.3	44.3	50.7	46.7	47.6	46.3	37.0	48.7	44.0	47.3	51.7	43.3	48.3	47.8	47.8
3	FH-3488	50.7	46.7	45.0	49.7	46.7	47.2	46.7	39.3	49.7	45.2	47.4	52.7	44.3	46.7	47.9	47.9
4	FH-3483	50.0	46.3	45.3	51.0	46.0	47.5	46.3	39.7	50.0	45.3	47.4	52.0	45.7	48.3	48.7	48.7
5	FQH-76	50.3	47.0	44.3	49.3	45.3	46.7	44.3	38.0	48.7	43.7	46.1	52.0	43.7	46.7	47.4	47.4
6	DH-177	51.0	48.0	45.3	50.7	45.7	47.9	45.7	37.7	49.0	44.1	47.5	52.7	44.7	46.7	48.0	48.0
7	DH-179	50.7	48.3	44.3	48.7	46.0	47.1	44.7	37.7	49.3	43.9	46.5	51.7	44.3	45.3	47.1	47.1
8	AH-97020	54.7	49.7	47.0	51.3	48.3	49.6	48.7	37.0	52.0	45.9	48.7	54.0	45.7	48.0	49.2	49.2
9	AH-97024	53.3	50.3	49.0	50.3	47.7	49.7	48.7	37.3	52.0	46.0	48.8	54.7	45.3	50.3	50.1	50.1
CHECKS																	
10	VIVEK QPM-9	50.0	47.0	44.0	46.0	45.3	46.0	43.3	38.3	48.0	43.2	45.4	51.3	44.0	45.7	47.0	47.0
11	VIVEK HYBRID-9	48.3	47.0	44.0	46.3	45.3	45.8	43.7	38.0	47.0	42.9	45.7	49.7	44.0	45.3	46.3	46.3
Loc. Mean		50.9	47.6	45.2	49.5	46.3	47.5	45.9	38.7	49.4	44.7	47.1	52.0	44.4	47.1	47.8	47.8
C.D. (5%)		1.8	1.4	1.8	1.7	1.0	1.0	1.8	1.3	0.9	3.2	0.8	2.79	1.28	1.78	1.49	1.49
C.D. (1%)		2.5	1.9	2.4	2.3	1.4	1.4	2.4	1.8	1.3	4.3	1.0					
C.V. (%)		2.1	1.7	2.3	2.0	1.3	1.9	2.3	2.0	1.1	4.2	2.8	3.15	1.69	2.22	1.83	1.83
F (Prob.)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.03	0.00	0.00	0.00	0.00

DAYS TO 50% SILKING

TABLE No. 4 Contd.

No.	PREGREE	Zone										Zone Mean					
		ARBH	BRBA	BRBA	BRBA	KANG	KANG	PANT	KANP	Zone Mean	BAHR		DHOL	JASH	VARA	RANC	AMBI
1	BR-3476	48.7	55.7	51.3	57.2	52.5	50.0	47.7	50.3	55.0	50.8	50.7	44.0	49.3	45.7	49.3	48.1
2	BR-3487	50.1	57.7	52.3	52.7	53.3	49.3	48.3	50.7	48.0	49.1	49.3	45.7	49.0	46.7	51.0	48.6
3	BR-3486	50.3	57.7	53.0	52.0	53.3	51.0	49.7	52.3	52.0	51.3	51.7	45.0	48.3	46.7	49.0	48.4
4	BR-3483	51.3	58.3	52.3	51.0	53.3	49.0	47.0	49.3	49.0	48.6	52.3	46.3	49.0	47.0	52.0	49.5
5	BR-177	48.3	58.3	51.0	51.7	52.4	48.7	45.7	49.7	51.3	48.8	49.7	43.3	48.7	44.7	48.0	47.1
6	BR-179	52.0	58.0	53.7	52.3	54.0	51.0	48.3	50.7	52.0	50.5	50.0	45.3	49.0	46.7	50.3	48.3
7	BR-7020	51.0	59.7	52.0	52.0	53.6	48.3	45.0	50.3	52.0	48.9	47.0	43.0	48.0	45.0	50.0	47.1
8	BR-7020	54.0	59.3	55.7	50.7	54.9	52.3	49.3	50.7	50.0	50.6	52.0	46.3	51.0	46.7	48.7	49.8
9	BR-7024	56.3	59.3	57.7	51.7	56.3	51.3	49.3	52.3	50.0	50.8	50.3	48.3	53.7	45.0	50.7	50.3
CHECKS																	
10	VIVEK QPM-9	47.7	55.0	50.3	51.7	51.2	48.7	44.3	49.7	49.0	47.9	48.7	43.3	47.7	44.7	48.7	47.0
11	VIVEK HYBRID-9	48.3	55.3	50.3	51.0	51.3	48.0	46.0	49.3	52.3	48.9	47.7	43.7	47.7	46.3	51.0	47.6
Loc. Mean		50.9	57.7	52.7	51.8	53.3	49.8	47.3	50.5	51.0	49.6	49.9	44.9	49.2	45.9	49.9	48.3
C.D. (5%)		1.0	0.8	1.1	1.8	2.0	3.3	2.5	2.4	1.7	2.0	1.2	1.9	2.1	2.2	1.3	1.4
C.D. (1%)		1.4	1.1	1.5	2.4	2.7	4.4	3.4	3.3	2.3	2.6	1.7	2.6	2.9	3.0	1.7	1.9
C.V. (%)		1.1	0.9	1.3	2.0	2.7	3.8	3.1	2.8	2.0	2.7	1.4	2.5	2.5	2.8	1.5	2.5
F (Prob.)		0.00	0.00	0.00	0.24	0.00	0.15	0.00	0.17	0.00	0.01	0.00	0.00	0.00	0.20	0.00	0.00
No.	PREGREE	Zone										Zone Mean	OV'L				
		ARBH	HYDE	KARI	KOLH	KAND	COIM	Zone Mean	UDAI	BANS	CHRI			Zone Mean	UDHA	LUDH	GODH
1	BR-3476	51.7	46.7	46.0	51.7	47.7	48.0	48.6	48.3	49.3	49.3	49.3	49.6	54.0	44.3	47.7	48.7
2	BR-3487	53.3	49.3	46.3	51.7	48.0	48.0	49.4	48.3	40.0	49.7	49.7	49.4	55.7	44.3	49.7	49.9
3	BR-3486	53.3	48.0	47.3	50.7	46.3	47.7	48.9	48.7	42.3	50.7	47.2	49.7	56.3	45.3	49.0	50.2
4	BR-3483	52.3	48.7	47.7	52.0	48.3	47.3	49.4	48.3	42.7	51.3	47.4	49.7	56.0	46.7	50.7	51.1
5	BR-176	50.7	49.3	46.3	50.3	45.7	47.0	48.2	46.3	41.0	49.3	45.6	48.4	55.3	44.7	47.0	49.0
6	BR-177	51.7	49.7	47.3	51.7	49.0	47.7	49.5	47.7	40.7	50.3	46.2	49.7	56.0	45.7	48.3	50.0
7	BR-179	51.7	51.0	46.3	49.7	45.7	48.0	48.7	46.7	40.7	50.3	45.9	48.8	55.0	45.3	47.3	49.2
8	BR-7020	55.3	51.7	49.3	52.3	48.7	50.3	51.3	51.0	40.0	53.0	48.0	51.0	57.7	46.7	50.7	51.7
9	BR-7024	55.3	52.7	52.0	51.3	49.0	49.7	51.7	51.3	40.3	50.7	47.4	51.4	58.0	46.3	52.0	52.1
CHECKS																	
10	VIVEK QPM-9	50.7	49.3	46.0	47.0	45.7	47.0	47.6	45.7	41.3	48.0	45.0	47.8	55.7	45.0	47.0	49.2
11	VIVEK HYBRID-9	48.7	48.7	46.0	47.3	46.3	47.0	47.3	45.7	41.0	47.7	44.8	48.0	53.7	45.0	47.7	48.8
Loc. Mean		52.2	49.5	47.3	50.5	47.3	48.0	49.2	48.0	41.8	50.0	46.6	49.4	55.8	45.4	48.8	50.0
C.D. (5%)		1.9	1.1	1.9	1.7	2.9	0.8	1.3	1.7	1.5	3.2	3.3	0.8	3.02	1.28	2.08	1.32
C.D. (1%)		2.7	1.5	2.5	2.3	4.0	1.2	1.7	2.4	2.0	4.4	4.5	1.0				
C.V. (%)		2.2	1.3	2.3	1.9	3.6	1.0	2.2	2.1	2.1	3.8	4.2	2.8	3.18	1.65	2.51	1.55
F (Prob.)		0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.11	0.26	0.00	0.16	0.00	0.00	0.00

DAYS TO 75% DRY HUSK

TABLE NO. 4 (CONT'D.)

No.	REGISTRAR	Zone										Zone					
		ARBH	HYDE	KARI	KOLH	MAND	COIM	KARN	PANT	KANP	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	Zone Mean
10	VIVEK QPM-9	92.3	100.7	86.3	88.7	92.0	78.3	76.0	97.0	78.0	82.3	69.7	85.3	79.7	82.7	78.3	79.1
11	VIVEK HYBRID-9	97.0	101.0	87.3	89.7	93.8	81.7	77.3	98.3	75.0	83.1	68.3	87.3	80.0	84.0	82.0	80.3
	Loc. Mean	94.6	101.8	89.9	87.5	93.5	78.0	78.9	97.9	74.8	82.4	69.9	84.6	80.2	83.8	81.6	80.0
	C.D. (5%)	2.9	5.5	1.5	1.3	3.3	3.9	2.8	2.5	2.5	3.1	1.2	2.1	1.9	2.7	0.8	2.1
	C.D. (1%)	4.0	7.5	2.1	1.8	4.5	5.3	3.8	3.4	3.5	4.2	1.7	2.9	2.6	3.6	1.1	2.9
	C.V. (%)	1.8	3.2	1.0	0.9	2.5	2.9	2.1	1.5	2.0	2.6	1.0	1.5	1.4	1.9	0.6	2.1
	F (Prob.)	0.00	0.03	0.00	0.00	0.06	0.00	0.01	0.53	0.00	0.42	0.00	0.00	0.00	0.25	0.00	0.04
CHECKS																	
10	VIVEK QPM-9	92.3	100.7	86.3	88.7	92.0	78.3	76.0	97.0	78.0	82.3	69.7	85.3	79.7	82.7	78.3	79.1
11	VIVEK HYBRID-9	97.0	101.0	87.3	89.7	93.8	81.7	77.3	98.3	75.0	83.1	68.3	87.3	80.0	84.0	82.0	80.3
	Loc. Mean	94.6	101.8	89.9	87.5	93.5	78.0	78.9	97.9	74.8	82.4	69.9	84.6	80.2	83.8	81.6	80.0
	C.D. (5%)	2.9	5.5	1.5	1.3	3.3	3.9	2.8	2.5	2.5	3.1	1.2	2.1	1.9	2.7	0.8	2.1
	C.D. (1%)	4.0	7.5	2.1	1.8	4.5	5.3	3.8	3.4	3.5	4.2	1.7	2.9	2.6	3.6	1.1	2.9
	C.V. (%)	1.8	3.2	1.0	0.9	2.5	2.9	2.1	1.5	2.0	2.6	1.0	1.5	1.4	1.9	0.6	2.1
	F (Prob.)	0.00	0.03	0.00	0.00	0.06	0.00	0.01	0.53	0.00	0.42	0.00	0.00	0.00	0.25	0.00	0.04
CHECKS																	
10	VIVEK QPM-9	81.7	82.3	68.7	75.0	86.7	88.0	81.5	81.0	82.0	79.7	80.9	82.5	89.5	75.7	74.3	79.8
11	VIVEK HYBRID-9	80.7	82.3	69.0	75.3	90.7	86.0	82.9	81.3	72.7	80.7	78.2	83.7	90.3	75.3	77.3	81.0
	Loc. Mean	81.6	83.1	70.7	78.6	88.5	87.4	81.7	81.1	74.7	80.4	78.7	83.2	90.7	76.3	75.7	80.9
	C.D. (5%)	2.5	1.0	3.1	1.7	2.9	0.3	1.5	2.2	2.0	0.8	0.8	1.1	1.13	1.59	1.92	2.06
	C.D. (1%)	3.4	1.4	4.3	2.3	3.9	0.4	1.9	2.9	2.7	1.1	1.1	1.5	1.13	1.59	1.92	2.06
	C.V. (%)	1.8	0.7	2.6	1.3	1.9	0.2	1.5	1.6	1.5	0.6	0.6	2.3	0.73	1.23	1.49	1.50
	F (Prob.)	0.64	0.00	0.04	0.00	0.06	0.00	0.00	0.00	0.00	0.00	0.44	0.00	0.00	0.64	0.00	0.34

MOISTURE * AT HARVEST

TABLE NO. 4 (Contd.)

No	PEDIGREE	Zone										Zone Mean	Zone Mean				
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	KARN	PANT	KANP			BAHR	DHOI	JASH	VARA
1	FR-3477	33.0	21.9	22.3	25.0	25.5	32.0	20.0	26.9	26.0	26.2	19.9	18.5	15.2	24.1	22.1	19.9
2	FR-3480	36.0	21.8	23.3	26.2	27.0	27.2	24.0	30.1	34.5	28.9	20.2	17.7	15.7	23.3	22.0	19.8
3	FR-3482	34.4	21.7	22.0	25.5	26.2	22.0	22.3	31.7	26.0	25.5	21.2	17.8	16.2	23.3	21.7	20.0
4	FR-3483	33.4	22.5	23.3	23.0	26.1	32.9	20.7	32.4	35.0	30.2	20.7	19.9	16.1	25.6	20.4	20.5
5	FR-3484	33.2	24.0	24.1	24.6	23.6	33.8	20.0	30.3	35.5	29.9	19.9	16.7	15.1	25.7	21.6	19.8
6	FR-3485	33.3	21.1	23.3	24.3	23.5	32.3	20.5	32.4	33.5	29.7	17.9	17.5	16.3	26.5	21.8	20.0
7	FR-3486	33.1	21.3	24.1	25.1	24.0	25.6	23.7	27.7	35.0	28.0	19.2	17.0	15.1	22.5	20.9	18.9
8	FR-3487	33.3	22.6	23.1	24.6	23.9	35.3	20.4	31.2	34.0	30.4	20.1	20.1	16.0	25.3	19.7	20.2
9	FR-3488	33.6	22.1	23.3	25.4	25.6	29.1	20.4	28.0	38.0	28.9	19.0	17.7	17.0	26.7	21.3	20.3
	CHECKS																
10	VIVEK QPM-9	29.2	22.6	22.0	24.8	24.6	33.7	20.5	31.5	38.0	30.9	18.3	16.4	15.1	24.1	21.7	19.1
11	VIVEK HYBRID-9	32.5	24.6	22.0	25.2	26.1	37.6	21.5	35.8	37.0	33.0	19.5	16.8	15.3	24.4	19.8	19.1
	Loc. Mean	31.8	22.3	22.7	25.1	25.5	31.1	21.3	30.7	33.9	29.2	19.6	17.8	15.7	24.7	21.2	19.8
	S.D. (5%)	2.1	1.7	2.1	1.2	2.4	5.8	0.0	4.7	7.8	4.6	0.8	-	-	0.7	1.5	1.3
	S.D. (1%)	2.8	2.4	2.9	1.6	3.2	7.9	0.0	6.4	10.6	6.1	1.1	-	-	1.0	2.1	1.7
	C.V. (%)	3.8	4.6	5.5	2.7	6.4	11.0	0.0	9.0	13.5	10.8	2.5	-	-	1.7	4.2	5.1
	F (Prob.)	0.00	0.01	0.75	0.14	0.19	0.00	0.00	0.04	0.04	0.10	0.00	0.00	0.00	0.00	0.03	0.23
No	PEDIGREE	Zone										Zone Mean	Zone Mean				
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	UDAI	BANS	CHHI			GODH	UDHA	LUDH	GODH
1	FR-3478	17.6	20.5	11.7	13.2	16.0	17.0	16.0	20.5	15.1	12.2	15.9	20.5	28.3	23.9	12.4	21.5
2	FR-3487	26.6	25.1	12.7	13.7	17.4	18.4	18.9	19.0	15.2	12.2	15.5	21.9	29.2	26.0	15.9	23.7
3	FR-3488	14.4	20.0	12.7	13.1	16.5	19.6	16.0	14.6	15.2	11.0	13.6	20.2	26.0	23.9	13.4	21.1
4	FR-3483	33.8	25.1	12.3	13.2	17.3	20.1	20.3	20.8	15.7	13.6	16.7	22.7	28.6	29.4	20.3	26.1
5	FR-76	18.9	19.9	14.0	14.0	16.3	16.4	16.6	17.1	14.8	11.0	14.3	20.7	27.1	26.5	19.5	24.4
6	FR-177	26.1	23.7	14.7	14.0	16.1	16.6	18.5	19.8	16.1	12.3	16.0	21.8	26.5	26.7	17.3	23.5
7	FR-179	17.8	20.7	12.3	13.7	16.5	17.3	16.4	20.3	15.8	11.9	16.0	20.4	27.8	23.8	21.2	24.3
8	FR-220	25.7	26.6	13.3	14.7	16.5	17.3	19.0	21.7	15.4	11.8	16.3	22.2	24.9	27.7	18.5	23.7
9	FR-224	27.4	23.0	12.1	14.2	15.8	19.1	18.7	21.5	15.3	11.6	16.1	21.8	27.3	29.4	20.5	25.7
	CHECKS																
10	VIVEK QPM-9	18.4	22.6	12.0	13.8	16.2	17.7	16.8	19.5	15.0	11.6	15.4	21.1	27.5	25.8	14.9	22.7
11	VIVEK HYBRID-9	24.6	21.8	13.7	12.7	16.5	17.4	17.7	16.5	15.2	11.7	14.5	21.9	26.5	25.4	25.4	25.8
	Loc. Mean	22.8	22.6	12.9	13.6	16.4	17.9	17.7	19.2	15.3	11.9	15.5	21.4	27.2	26.2	18.1	23.9
	C.D. (5%)	4.6	1.1	2.0	0.6	0.8	0.4	2.8	3.8	0.4	0.9	2.0	1.3	1.86	1.25	-	4.18
	C.D. (1%)	6.3	1.4	2.7	0.8	1.1	0.6	3.7	5.2	0.6	1.3	2.8	1.7	-	-	-	-
	C.V. (%)	11.9	2.7	8.9	2.4	2.8	1.3	13.6	11.8	1.7	4.6	7.8	10.0	4.01	2.80	-	10.3
	F (Prob.)	0.00	0.00	0.11	0.00	0.01	0.00	0.03	0.02	0.00	0.00	0.10	0.00	0.00	0.00	-	0.27

PLANT HEIGHT (cm)

TABLE No. 4 (Contd.)

No.	PEDIGREE	Zone										Zone					
		ALMO	BABA	BARA	KANG	DELH	KARN	PANT	KANP	BAHR	DHOL	JASH	VARA	RANC	AMBI	Mean	Zone
1	FR-3476	205	105	166	221	133	117	192	192	158	127	119	158	163	221	157	
2	FR-3487	210	118	176	225	137	130	190	175	158	142	126	153	172	212	164	
3	FR-3488	213	120	172	231	140	125	195	199	165	144	122	180	168	211	166	
4	FR-3483	214	125	175	221	141	132	210	185	167	138	123	165	164	221	160	
5	FQR-76	230	128	186	224	169	152	237	205	191	167	135	180	179	206	175	
6	DR-177	236	127	185	225	167	148	210	198	181	182	134	180	180	206	175	
7	DR-179	239	129	192	225	165	150	220	197	183	177	168	185	168	207	173	
8	AR-97020	242	131	201	216	166	166	247	194	199	196	137	195	191	202	181	
9	AR-97024	251	131	194	216	167	142	243	198	188	199	147	195	186	229	187	
CHECKS																	
10	WATER QPM-9	223	135	200	218	163	154	233	202	188	194	132	195	182	211	180	
11	WATER HYBRID-9	211	138	192	225	166	138	203	191	175	177	129	188	181	203	174	
	Loc. Mean	222	126	185	224	158	141	216	194	177	179	131	179	176	212	172	
	S.D. (S.E.)	13	19	14	12	15	10	22	11	13	11	7	7	17	14	11	
	C.V. (%)	3.4	8.9	4.4	3.1	5.7	4.2	5.9	3.4	5.2	3.5	4.9	2.4	5.7	3.9	5.3	
	F (Prob.)	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Zone																	
	Zone Mean	194	163	194	194	163	154	233	202	188	194	168	195	182	211	180	
	Zone Mean	192	171	170	170	170	170	203	191	175	177	168	188	181	203	174	
	Zone Mean	189	189	189	189	189	189	216	194	177	179	156	179	176	212	172	
	Zone Mean	12	12	12	12	12	10	22	11	13	11	13	7	17	14	11	
	Zone Mean	4.3	4.3	4.3	4.3	4.3	4.2	5.9	3.4	5.2	3.5	4.9	2.4	5.7	3.9	5.3	
	Zone Mean	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Zone																	
	Zone Mean	190	163	163	163	149	149	180	128	155	156	162	158	147	160	155	
	Zone Mean	193	167	167	167	172	172	165	125	170	170	167	154	150	122	142	
	Zone Mean	193	167	167	167	155	155	185	125	165	165	169	157	158	163	159	
	Zone Mean	178	155	154	154	154	163	172	148	157	157	166	169	163	138	157	
	Zone Mean	198	160	160	160	175	175	197	160	192	192	183	161	200	143	168	
	Zone Mean	192	167	167	167	173	174	185	156	193	193	180	176	180	131	162	
	Zone Mean	192	153	153	153	175	174	190	124	182	182	165	177	183	149	167	
	Zone Mean	207	153	153	153	171	171	220	164	186	186	190	172	202	139	171	
	Zone Mean	205	165	165	165	172	172	210	172	189	189	187	177	188	147	171	
CHECKS																	
10	WATER QPM-9	226	137	176	213	147	174	179	177	182	182	183	172	180	149	167	
11	WATER HYBRID-9	220	139	189	188	168	177	192	160	183	183	179	164	187	140	164	
	Loc. Mean	222	136	186	195	160	168	188	148	178	178	176	166	176	144	162	
	S.D. (S.E.)	10	14	8	3	42	7	13	5	15	15	6	27.3	17.2	24.3	22.5	
	C.V. (%)	4.6	3.9	2.5	2.7	15.2	2.3	4.0	1.9	5.1	5.5	9.7	5.7	5.7	9.9	8.2	
	F (Prob.)	0.1	0.0	0.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.1	0.3	

TABLE No. 4 (Contd.)
EAR HEIGHT (cm)

No.	PREGREE	Zone											Zone Mean	AMBI	RANC	VARA	LUDH	UDHA	OV'L Mean	OV'L Mean
		ALMC	BAJA	BARA	KANG	Zone Mean	DELH	KARN	PANI	KANP	Zone Mean	BAHR								
1	FH-3476	103	35	59	93	74	67	60	83	78	72	81	52	45	80	72	71	67		
2	FH-3487	104	47	67	89	77	58	57	78	83	69	92	57	41	60	75	69	66		
3	FH-3488	104	52	72	82	77	64	66	78	88	74	79	62	44	80	73	89	71		
4	FH-3483	115	50	84	97	89	76	68	92	81	79	77	62	52	85	81	78	73		
5	FQH-76	114	68	83	86	89	85	68	87	102	85	88	75	49	70	77	89	75		
6	DH-177	120	78	83	88	92	87	72	88	78	82	84	73	55	80	76	79	75		
7	DH-179	122	60	86	84	88	93	68	100	86	87	81	86	47	88	76	87	78		
8	AH-97020	124	77	117	98	104	103	82	112	77	93	97	88	58	118	96	83	90		
9	AH-97024	120	63	102	88	93	90	82	127	106	101	90	92	64	103	99	85	89		
CHECKS																				
10	VIVEK QPM-9	111	55	92	96	89	74	77	87	81	80	101	77	49	80	77	76	77		
11	VIVEK HYBRID-9	109	47	81	95	83	76	59	73	75	71	81	71	45	63	71	66	66		
Loc. Mean		113	58	85	90	87	79	69	91	85	81	86	72	50	82	80	79	75		
S.E.D.		9.0	14.0	11.0	7.0	11.0	10.0	11.0	17.0	10.0	12.0	23.0	16.0	4.0	8.0	12.0	6.0	9.0		
C.V. (%)		8.6	15.2	12.5	7.8	12.6	12.7	9.2	11.2	7.0	10.4	15.8	13.3	4.6	5.8	9.2	4.3	10.4		
F Prob.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0		
No.	PREGREE	Zone											Zone Mean	GODH	LUDH	UDHA	OV'L Mean	OV'L Mean		
		ARBH	HYDE	KARI	KOLH	Zone Mean	COIM	Zone Mean	UDAI	BANS	CHHI	Zone Mean								
1	FH-3478	70	75	77	93	76	63	76	76	80	45	72	66	71	64	68	65	66		
2	FH-3487	64	75	59	105	63	63	90	76	75	48	68	64	71	66	63	70	66		
3	FH-3488	67	68	67	103	60	60	86	75	90	53	71	71	74	62	80	67	70		
4	FH-3483	65	73	75	97	75	75	92	80	82	56	73	70	78	77	83	69	76		
5	FQH-76	65	80	67	125	76	76	93	84	95	64	81	80	82	67	87	69	74		
6	DH-177	65	74	72	103	60	60	96	78	87	46	93	75	80	81	78	67	76		
7	DH-179	70	93	73	97	66	66	101	83	88	51	94	78	82	72	93	67	77		
8	AH-97020	63	88	68	110	72	72	101	84	110	85	93	96	92	69	113	67	83		
9	AH-97024	70	95	68	105	59	59	108	84	98	79	95	91	91	72	103	65	80		
CHECKS																				
10	VIVEK QPM-9	72	85	68	105	66	66	86	80	77	68	72	72	80	75	87	68	77		
11	VIVEK HYBRID-9	62	85	72	82	65	65	92	76	83	57	70	70	73	65	95	63	74		
Loc. Mean		66	81	70	102	66	66	93	80	88	59	80	76	79	70	87	67	74		
C.D. (5%)		6.0	14.0	5.0	29.0	18.0	18.0	4.0	8.0	8.0	5.0	3.0	13.0	5.0	13.6	18.3	11.5	15.5		
C.V. (%)		5.1	10.0	4.3	16.9	16.4	16.4	2.6	9.1	5.5	4.7	2.2	9.9	9.8	11.4	12.4	10.0	12.2		
F (Prob.)		0.0	0.0	0.0	0.4	0.6	0.6	0.0	0.2	0.0	0.0	0.00	0.00	0.00	0.1	0.0	1.0	0.4		

TABLE No. 4 (Contd.)

GRAIN SHELLING %

S. No.	PEDIGREE	ZN 1										ZN 2					ZN 3				
		ALMO	BAJA	BARA	KANG	Mean	DELH	KARN	PANT	KANP	Mean	BAHR	JASH	VARA	RANC	AMBI	Mean				
1	FR-3476	85.4	79.3	79.7	84.0	82.1	83.2	80.6	86.4	80.0	82.5	79.1	79.5	75.3	87.3	81.9	80.6				
2	FR-3487	85.2	79.7	79.0	82.5	81.6	78.8	82.8	86.7	80.0	82.1	80.1	78.2	76.3	86.7	83.3	80.9				
3	FR-3488	82.4	79.1	76.0	82.0	79.9	75.3	82.2	83.5	80.0	80.2	80.4	76.4	76.8	85.4	81.2	80.0				
4	FR-3483	85.5	80.0	80.7	81.5	81.9	85.0	82.2	85.6	80.0	83.2	76.0	78.0	75.8	88.8	83.8	80.5				
5	FQH-76	85.5	82.2	82.0	81.5	82.8	82.8	86.1	86.7	80.0	83.9	72.3	78.8	76.3	86.6	85.4	79.9				
6	DH-177	87.0	78.4	77.3	80.5	80.8	84.8	79.4	88.4	80.0	83.1	71.6	77.2	75.5	83.5	82.7	78.1				
7	DH-179	86.1	80.7	75.3	83.5	81.4	83.2	80.0	88.0	80.0	82.8	76.4	78.7	76.5	81.7	83.9	79.4				
8	AH-97020	87.5	81.8	79.0	82.5	82.7	82.5	80.3	84.4	80.0	81.8	77.2	78.2	76.8	82.9	83.5	79.7				
9	AH-97024	86.2	78.6	78.0	83.5	81.6	80.7	73.5	85.3	80.0	79.9	76.0	78.3	75.8	86.6	81.2	79.6				
CHECKS																					
10	VIVEK QPM-9	86.9	80.2	76.3	82.0	81.3	83.7	81.4	88.0	80.0	83.3	79.1	78.2	76.3	88.9	82.8	81.0				
11	VIVEK HYBRID-9	86.3	78.1	79.3	81.0	81.2	85.0	82.4	88.0	80.0	83.9	76.4	77.5	75.0	86.3	81.6	79.4				
	Loc. Mean	85.8	79.8	78.4	82.2	81.6	82.3	81.0	86.5	80.0	82.4	76.8	78.1	76.0	85.9	82.8	79.9				
	C.D. (5%)	0.86	0.00	5.90	1.67	2.09	3.67	-	0.00	-	3.08	2.35	-	1.17	3.21	3.12	2.30				
	C.V. (%)	0.59	0.00	4.42	1.19	1.77	2.62	-	0.00	-	2.59	1.79	-	0.90	2.20	2.21	2.25				
	F Prob. (%)	0.00	0.00	0.44	0.01	0.27	0.00	-	0.00	-	0.16	0.00	0.00	0.06	0.00	0.20	0.39				

S. No.	PEDIGREE	ZN 4										ZN 5					OV'L				
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Mean	UDAI	BANS	CHHI	Mean	UDHA	LUDH	GODH	Mean					
1	FR-3478	79.4	80.0	80.0	80.9	72.6	85.1	79.7	83.0	69.3	89.7	80.7	81.0	84.6	87.0	79.4	83.6				
2	FR-3487	81.3	79.8	76.7	79.0	71.9	82.1	78.5	82.5	74.3	81.0	79.2	80.3	84.1	85.7	79.3	83.0				
3	FR-3488	75.7	79.6	80.3	80.8	67.1	78.3	77.0	82.0	69.7	85.9	79.2	79.1	84.1	86.0	75.4	81.8				
4	FR-3483	84.8	80.4	79.0	81.9	75.7	82.3	80.7	82.2	69.3	88.2	79.9	81.2	83.8	84.9	79.1	82.6				
5	FQH-76	84.1	79.1	76.0	84.7	78.8	83.1	80.9	82.5	73.2	86.8	80.8	81.6	83.1	84.1	80.0	82.4				
6	DH-177	81.3	79.7	78.7	81.4	81.1	82.4	80.8	82.4	64.4	80.6	75.8	79.9	84.2	86.1	80.9	83.7				
7	DH-179	86.6	80.9	81.0	85.7	86.6	82.1	83.8	83.3	71.3	88.0	80.8	81.8	83.9	86.0	80.2	83.4				
8	AH-97020	81.5	79.1	81.7	82.1	69.9	78.4	78.8	83.4	77.8	86.4	82.5	80.8	82.9	84.5	78.3	81.9				
9	AH-97024	79.4	78.9	78.0	83.4	70.0	81.9	78.6	83.7	68.5	86.0	79.4	79.7	84.6	83.7	79.4	82.6				
CHECKS																					
10	VIVEK QPM-9	84.5	76.5	81.3	83.5	81.6	81.2	81.4	84.1	73.3	88.7	82.1	81.7	85.3	85.0	80.2	83.5				
11	VIVEK HYBRID-9	84.0	77.6	78.0	84.7	81.7	82.2	81.4	83.0	68.4	87.3	79.6	81.1	84.5	83.6	78.7	82.2				
	Loc. Mean	82.0	79.2	79.2	82.6	76.1	81.7	80.1	82.9	70.9	86.2	80.0	80.7	84.1	85.1	79.2	82.8				
	C.D. (5%)	2.24	3.15	7.27	0.91	1.50	0.85	3.30	1.44	2.53	1.07	4.28	1.38	2.3	1.0	-	1.9				
	C.V. (%)	1.60	2.33	5.39	0.65	1.16	0.61	3.56	1.02	2.10	0.73	3.14	2.88	1.61	0.65	-	1.31				
	F (Prob.%)	0.00	0.27	0.81	0.00	0.00	0.00	0.01	0.12	0.00	0.00	0.21	0.00	0.69	0.00	0.00	0.35				

STAND AT HARVEST ('000/ha)

TABLE No. 4 Contd.

No.	Peculiar	Zone										Zone Mean						
		ALMC	ERCA	BARA	KANG	KANG	DESH	KARN	PANT	KANE	Mean							
1	ER-3475	67	62	58	68	69	55	54	61	86	64	69	55	57	82	52	78	65
2	ER-3481	67	81	53	68	66	63	49	59	85	64	69	54	57	75	58	83	66
3	ER-3488	66	84	53	70	68	64	49	61	86	65	70	52	56	79	58	78	65
4	ER-3493	62	74	53	67	64	63	51	54	87	64	67	52	58	76	57	65	62
5	QCH-76	63	78	54	69	65	63	52	57	92	66	69	54	53	74	55	80	64
6	DR-177	62	78	53	67	65	61	53	59	92	66	69	53	52	73	52	82	63
7	DR-179	63	75	57	71	66	57	49	63	92	65	70	55	56	82	51	81	66
8	AH-97020	67	73	55	67	66	65	52	58	89	66	67	51	55	79	52	74	63
9	AH-97024	65	73	55	67	65	52	48	58	88	62	68	51	56	77	48	69	62
CHECKS																		
10	VIVEK QPM-9	63	81	56	68	67	54	47	63	87	63	74	54	53	74	54	78	64
11	VIVEK HYBRID-9	56	67	54	69	61	46	49	47	83	58	69	31	50	74	39	32	49
	Loc. Mean	64	77	55	68	66	58	50	58	83	64	69	51	55	77	52	73	63
	C.D. (5%)	6.1	9.6	4.9	6.5	3.8	13.2	4.6	4.7	9.5	5.5	5.6	5.7	5.4	10.3	9.5	15.4	6.9
	C.V. (%)	5.6	7.3	5.3	5.6	4.0	13.3	5.4	4.7	6.3	5.9	4.8	6.5	5.8	7.9	10.6	12.4	9.4
	F (Prob.)	3.0	0.1	0.5	1.0	0.0	0.1	0.1	0.0	0.3	0.1	0.5	0.0	0.1	0.6	0.0	0.0	0.0

No.	Peculiar	Zone										Zone Mean						
		AFBH	HYDE	KARZ	KOLR	MANE	COIM	UDAI	BANS	CHHI	Mean							
1	ER-3475	26	57	58	83	56	67	75	60	67	67	67	64	46	68	76	63	
2	ER-3481	23	59	56	83	64	63	78	65	67	67	70	65	45	65	69	60	
3	ER-3485	24	62	59	83	54	67	76	63	67	69	69	64	35	68	74	59	
4	ER-3488	27	60	61	72	63	67	79	64	67	70	70	63	39	69	69	59	
5	QCH-76	27	56	58	83	58	65	70	63	65	66	66	63	36	70	80	62	
6	DR-177	26	53	56	83	63	67	67	64	64	65	65	63	34	63	76	58	
7	DR-179	26	54	54	83	64	66	75	63	66	68	68	64	36	67	76	60	
8	AH-97020	27	54	56	78	59	66	76	65	61	67	67	63	39	63	78	60	
9	AH-97024	25	59	57	83	61	67	72	63	66	67	67	62	37	66	77	60	
CHECKS																		
10	VIVEK QPM-9	26	54	58	76	56	66	74	63	64	67	67	63	39	67	72	60	
11	VIVEK HYBRID-9	16	54	57	38	48	66	67	63	41	57	57	53	28	59	38	42	
	Loc. Mean	25	57	57	77	59	66	74	63	63	67	67	62	38	66	71	58	
	C.D. (5%)	5.9	9.2	2.4	10.0	7.5	2.6	7.8	4.6	7.0	7.7	7.7	2.8	10.1	8.3	10.1	10.3	
	C.V. (%)	13.8	9.6	2.5	7.6	7.5	2.3	6.2	4.3	6.5	6.8	7.6	7.6	15.7	7.4	8.3	10.3	
	F (Prob.)	C.0	0.5	0.0	0.0	0.0	0.2	0.1	0.7	0.0	0.1	0.0	0.0	0.1	0.4	0.0	0.0	

Table No. 3
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT DMR DELHI, LUHIANA, KARNAL, PANTNAGAR,
 KANPUR IN 1st YEAR TRIAL NO. TR6522 DURING KHARIF (2009).

S. No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		DELH	R	KARN	R	LU DH	R	PANT	R	KANP	R	ZN 2	MEAN	R	OV'L	MEAN	R
1	LAXMI-949F	5102	5	6769	4	6888	4	9476	3	8136	2	7274	4	7274	4	7274	4
2	GK-3059	6780	2	7617	1	8760	1	8693	5	7210	5	7812	3	7812	3	7812	3
3	PAC-745	10754	1	7346	2	8407	2	10137	2	6408	7	8611	1	8611	1	8611	1
	CHECKS																
4	BIO-9681	4269	7	5799	7	5720	6	7415	7	6749	6	5990	7	5990	7	5990	7
5	SEEDTEC-2324	6685	3	7275	3	6979	3	10663	1	8168	1	7954	2	7954	2	7954	2
6	HQPM-1	5018	6	6341	5	5733	5	8763	4	8071	3	6785	5	6785	5	6785	5
	HQPM-7	5316	4	6264	6	5656	7	8547	6	7239	4	6605	6	6605	6	6605	6
	Location Mean	6275		6773		6877		9099		7426		7290		7290		7290	
	Mean Stand	63		75		65		68		74		69		69		69	
	C.D. (5%)	4358		769		761		1347		472		1541		1541		1541	
	C.V. (%)	46.55		7.61		7.42		9.93		3.53		-		-		-	
	F (Prob)	0.088		0.002		0		0.001		0		-		-		-	
	Plot Size	11.2		12		10.4		12		9.6		-		-		-	
	AGRONOMY DATA																
	Sowing Date	1-08		29-06		30-06		1-08		14-07		-		-		-	
	Harvest Date	18-10		5-10		8-10		18-11		7-11		-		-		-	
	Irrigation Nos	4		3		7		-		2		-		-		-	
	Fertilizer Applied N	150		150		-		120		80		-		-		-	
	Fertilizer Applied P	75		60		-		60		40		-		-		-	
	Fertilizer Applied K	75		60		-		40		40		-		-		-	

Table No. 5 (Continued)

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO-9681							GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC-2324						
		DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN		
1	LAXMI-9495	19.5	16.7	20.4	27.8	20.6	21.4	-	-	-	-	-	-		
2	GK-3059	58.8	31.3	53.1	17.2	6.8	30.4	1.4	4.7	25.5	-	-	-		
3	PAC-745	151.9	26.7	47	36.7	-	43.7	60.9	1	20.5	-	-	8.3		
	CHECKS														
4	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-		
5	SEEDTEC-2324	56.6	25.5	22	43.8	21	32.8	-	-	-	-	-	-		
6	HQPM-1	17.6	9.4	0.2	18.2	19.6	13.3	-	-	-	-	-	-		
7	HQPM-7	24.5	8	-	15.3	7.3	10.3	-	-	-	-	-	-		

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1							GRAIN YIELD % SUPERIORITY OVER THE HQPM-7						
		DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN	DELH	KARN	LUDH	PANT	KANP	ZN 2 MEAN		
1	LAXMI-9495	1.7	6.7	20.2	8.1	0.8	7.2	-	8.1	21.8	10.9	12.4	10.1		
2	GK-3059	35.1	20.1	52.8	-	-	15.1	27.5	21.6	54.9	1.7	-	18.3		
3	PAC-745	114.3	15.8	46.6	15.7	-	26.9	102.3	17.3	48.6	18.6	-	30.4		
	CHECKS														
4	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-		
5	SEEDTEC-2324	33.2	14.7	21.7	21.7	1.2	17.2	25.8	16.1	23.4	24.8	12.8	20.4		
6	HQPM-1	-	-	-	-	-	-	-	1.2	1.4	2.5	11.5	2.7		
7	HQPM-7	5.9	-	-	-	-	-	-	-	-	-	-	-		

Table No. 5 Continued.

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					Zone Mean
		DELH	KARN	LUDH	PANT	KANP	DELH	KARN	LUDH	PANT	KANP	
1	LAXMI-9495	56.0	50.0	53.5	54.6	62.3	57.8	52.0	54.5	56.3	68.0	57.7
2	GK-3059	54.3	46.3	53.5	53.3	61.0	56.0	50.3	54.5	56.5	67.0	56.9
3	PAC-745	53.0	48.5	52.8	53.5	64.7	56.5	50.5	53.8	56.8	70.0	57.5
	CHECKS											
4	BIO-9681	53.3	48.8	52.0	53.3	62.0	56.8	50.8	53.0	54.5	68.0	56.6
5	SEEDTEC-2324	56.0	50.0	53.5	54.5	64.7	58.3	52.0	54.5	56.3	70.0	58.2
6	HQPM-1	54.3	49.7	52.8	53.3	63.3	56.5	51.7	53.8	54.3	68.7	57.0
7	HQPM-7	50.8	48.0	51.5	53.3	60.0	53.5	50.0	52.5	56.3	65.7	55.6
	Loc. Mean	53.9	49.0	52.8	53.7	62.6	56.5	51.0	53.8	55.8	68.2	57.1
	C.D. (5%)	2.28	2.10	1.88	2.19	1.14	2.43	2.10	1.88	2.24	2.35	1.22
	C.V. (%)	2.84	2.88	2.40	2.74	1.03	2.89	2.77	2.35	2.71	1.94	1.64
	F (Prob.)	0.00	0.25	0.21	0.59	0.00	0.02	0.25	0.21	0.16	0.02	0.01

SI No.	PEDIGREE	DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST					Zone Mean
		DELH	KARN	LUDH	PANT	KANP	DELH	KARN	LUDH	PANT	KANP	
1	LAXMI-9495	38.5	83.0	92.8	104.3	104.7	38.2	30.5	19.0	27.3	15.0	26.0
2	GK-3059	93.8	81.5	94.0	104.3	104.3	38.5	30.4	18.2	35.3	15.0	27.5
3	PAC-745	88.5	83.3	90.8	102.5	106.0	38.2	28.9	17.6	27.2	15.0	25.4
	CHECKS											
4	BIO-9681	86.3	83.5	91.5	101.0	106.0	40.2	29.2	15.8	26.0	15.0	25.2
5	SEEDTEC-2324	88.5	83.3	90.3	104.0	107.7	38.1	30.4	18.4	33.5	15.0	27.1
6	HQPM-1	93.8	83.7	95.5	104.3	107.0	39.4	27.9	17.6	27.8	15.0	25.5
7	HQPM-7	89.3	82.0	96.3	105.3	102.7	37.2	30.1	16.1	28.7	15.0	25.4
	Loc. Mean	89.8	82.9	93.0	103.6	105.5	38.5	29.6	17.5	29.4	15.0	26.0
	C.D. (5%)	3.42	2.00	2.80	1.41	3.07	1.48	0.79	0.98	2.91	-	2.26
	C.V. (%)	2.56	1.62	2.03	0.91	1.64	2.59	1.79	3.78	6.67	-	6.66
	F (Prob.)	0.00	0.25	0.00	0.00	0.05	0.01	0.00	0.00	0.00	-	0.27

Table No. 5 (Continued)

SI	PLANT HEIGHT (cm)							EAR HEIGHT (cm)						
	DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean		
No. PEDIGREE	173.5	203.8	241.5	251.0	209.3	217.0	88.5	112.5	99.4	100.8	94.3	99.1		
1 LAXMI-9495	195.3	213.8	264.6	285.8	185.7	229.0	101.3	118.0	108.3	110.5	80.0	103.6		
2 GK-3059	183.0	208.0	244.8	260.8	205.3	220.4	91.8	122.5	108.8	107.0	89.7	103.9		
3 PAC-745	CHECKS													
4 BIO-9681	172.5	184.0	231.5	216.5	176.0	196.1	89.3	97.3	78.8	72.3	69.0	81.3		
5 SEEDTEC-2324	180.3	198.5	241.8	240.0	204.7	213.0	108.0	122.5	103.9	102.5	81.7	103.7		
6 HQPM-1	170.5	190.0	234.3	231.0	209.3	207.0	111.8	103.3	89.4	88.5	91.0	96.8		
7 HQPM-7	186.8	198.8	238.1	251.8	195.7	214.2	87.5	111.3	97.4	95.3	75.3	93.3		
Loc. Mean	180.3	199.5	242.4	249.0	198.0	213.8	96.9	112.5	98.0	96.7	83.0	97.4		
C.D. (5%)	18.52	13.25	14.37	12.32	1.43	13.58	34.6	12.4	11.5	10.3	4.3	9.9		
C.V. (%)	6.91	4.47	3.99	3.33	0.40	4.87	24.0	7.4	7.9	7.2	2.9	7.8		
F (Prob.)	0.11	0.00	0.00	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00		

SI	GRAIN SHELLING %							STAND AT HARVEST ('000/ha)						
	DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean		
No. PEDIGREE	82.4	81.7	76.6	87.5	75.5	80.8	52	61	59	57	79	62		
1 LAXMI-9495	88.4	84.0	83.0	81.3	74.0	82.1	48	63	54	48	76	58		
2 GK-3059	85.5	84.4	82.5	83.3	72.0	81.5	60	64	71	60	76	66		
3 PAC-745	CHECKS													
4 BIO-9681	81.4	85.9	80.3	86.7	72.5	81.4	60	64	68	61	77	66		
5 SEEDTEC-2324	85.6	84.1	80.5	86.0	75.5	82.3	60	63	65	57	80	65		
6 HQPM-1	87.6	80.3	81.8	84.3	75.5	81.9	56	65	60	59	78	64		
7 HQPM-7	81.5	83.4	78.6	85.6	73.5	80.5	56	59	61	57	76	62		
Loc. Mean	84.6	83.4	80.4	85.0	74.1	81.5	56	63	63	57	78	63		
C.D. (5%)	2.16	0.95	1.17	-	0.80	3.00	13.4	5.2	13.4	6.9	2.5	3.9		
C.V. (%)	1.72	0.76	0.98	-	0.61	2.82	16.2	5.6	14.4	8.1	1.8	4.8		
F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.85	0.39	0.32	0.21	0.02	0.03	0.00		

TABLE No. 6
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT BAHARAICH, VARANASI, DHOLI, JASHIPUR,
 AMSIKAPUR IN AET 1st YEAR, TRIP L No. TR6523 DURING KHARIF (2009).

NO	REGISRE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		BAHR	R	DHOL	R	JASH	R	VARA	R	AMBI	R	MEAN	R		
1	X 7B 401	10687	1	13213	3	5745	6	6336	7	5564	1	8309	2		
2	X 7B 403	8802	3	13277	2	5714	7	7156	5	4498	10	7889	3		
3	S K - 3059	8124	5	12435	4	6103	4	7371	4	4772	8	7761	5		
4	M 05 008	7299	8	11874	7	5152	10	5254	10	4599	9	6836	9		
5	BHS - 520247	7696	6	12097	6	6288	3	6247	9	4936	6	7453	7		
6	BICH - 5401	7667	7	10081	9	6568	1	9424	1	5304	2	7809	4		
7	M C H - 39	9411	2	13880	1	6544	2	7762	3	4906	7	8501	1		
CHECKS															
8	BIC - 9681	6606	9	10010	10	5248	8	6329	8	5108	4	6660	10		
9	SEEDTEC - 2324	8462	4	11413	8	4839	11	7108	6	5187	3	7402	8		
10	HQPM - 1	6449	11	8549	11	5153	9	4056	11	4025	11	5646	11		
11	HQPM - 7	6595	10	12247	5	5976	5	7790	2	5064	5	7535	6		
	Location Mean	7982		11734		5757		6803		4906		7436			
	Mean Stand	70		58		54		74		78		67			
	C.D. (5%)	1187		2215		254		577		1203		1087			
	C.V. (%)	8.7		11.04		2.58		4.96		14.35		-			
	F (Prob)	0		0.001		0		0		0.107		-			
	Pict Size	9.6		6		9.6		9.6		12		-			
AGRONOMY DATA															
	Sowing Date	4-07		8-07		26-07		1-07		6-07		-			
	Harvest Date	14-10		-		12-11		16-10		-		-			
	Irrigation Nos	-		-		-		2		-		-			
	Fertilizer Applied N	120		120		120		120		120		-			
	Fertilizer Applied P	60		60		60		60		60		-			
	Fertilizer Applied K	60		40		60		40		40		-			

TABLE No. 6 (Contd.)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681						GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC - 2324					
		BAHR	DHOL	JASH	VARA	AMBI	MEAN	BAHR	DHOL	JASH	VARA	AMBI	MEAN
1	X 7B 401	61.8	32	9.5	3.1	8.9	24.8	26.3	15.8	18.7	-	7.3	12.3
2	X 7B 403	33.2	32.6	8.9	13.1	-	18.5	4	16.3	18.1	0.7	-	6.6
3	G K - 3059	23	24.2	16.3	16.5	-	16.5	-	9	26.1	3.7	-	4.9
4	M 05 008	10.5	18.6	-	-	-	2.6	-	4	6.5	-	-	-
5	FHS - 520247	16.5	20.9	19.8	-	-	11.9	-	6	29.9	-	-	0.7
6	HTCH - 5401	16.1	0.7	25.2	48.9	3.8	17.2	-	-	35.7	32.6	2.2	5.5
7	X C H - 38	42.5	38.7	24.7	22.6	-	27.6	11.2	21.6	35.2	9.2	-	14.8
CHECKS													
8	BIO - 9681	-	-	-	-	-	-	-	-	8.5	-	-	-
9	SEEDTEC - 2324	28.1	14	-	12.3	1.6	11.1	-	-	-	-	-	-
10	HQPM - 1	-	-	-	-	-	-	-	-	6.5	-	-	-
11	HQPM - 7	-	22.4	13.9	23.1	-	13.1	-	7.3	23.5	9.6	-	1.8

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM - 1						GRAIN YIELD & SUPERIORITY OVER THE HQPM - 7					
		BAHR	DHOL	JASH	VARA	AMBI	MEAN	BAHR	DHOL	JASH	VARA	AMBI	MEAN
1	X 7B 401	65.7	54.6	11.5	56.2	38.2	47.2	62.1	7.9	-	-	9.9	10.3
2	X 7B 403	36.5	55.3	10.9	76.4	11.7	39.7	33.5	8.4	-	-	-	4.7
3	G K - 3059	26	45.5	18.4	81.7	18.5	37.5	23.2	1.5	2.1	-	-	3
4	M 05 008	13.2	38.9	-	29.5	14.2	21.1	10.7	-	-	-	-	-
5	FHS - 520247	19.3	41.5	22	54	22.6	32	16.7	-	5.2	-	-	-
6	HTCH - 5401	18.9	17.9	27.5	132.3	31.8	38.3	16.3	-	9.9	21	4.7	3.6
7	X C H - 38	45.9	62.3	27	91.4	21.9	50.5	42.7	13.3	9.5	-	-	12.8
CHECKS													
8	BIO - 9681	2.4	17.1	1.8	56	26.9	18	0.2	-	-	-	0.9	-
9	SEEDTEC - 2324	31.2	33.5	-	75.2	28.9	31.1	28.3	-	-	-	2.4	-
10	HQPM - 1	-	-	-	-	-	-	-	-	-	-	-	-
11	HQPM - 7	2.3	43.3	16	92.1	25.8	33.4	-	-	-	-	-	-

TABLE No. 6 (Cont.)

No. PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					Zone Mean	
	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean
1 X 7B 401	53.3	55.3	51.0	53.7	49.3	52.5	55.7	56.3	52.7	58.7	52.0	55.1
2 X 7B 403	52.3	54.3	51.0	56.7	53.0	53.5	54.3	55.3	53.0	62.7	56.0	56.3
3 G K - 3059	52.7	55.3	52.7	53.3	52.7	53.3	54.7	54.7	58.3	58.3	56.0	56.0
4 M 05 008	56.0	58.0	54.3	57.0	55.0	56.1	58.0	59.0	57.7	63.3	58.0	59.2
5 PHS - 520247	57.3	58.7	56.0	56.7	53.7	56.5	59.3	60.0	59.0	61.3	56.3	59.2
6 HICH - 5401	56.3	57.3	52.7	56.3	56.0	55.7	58.3	58.7	55.0	60.3	59.0	58.3
7 M C H - 38	55.3	56.0	52.3	56.7	51.0	54.3	57.3	58.0	54.3	62.3	54.0	57.2
CHECKS												
8 BIO - 9681	50.0	53.7	49.3	51.3	48.7	50.6	52.0	54.7	51.7	57.0	51.3	53.3
9 SEEDTEC - 2324	55.7	57.7	52.0	58.3	53.3	55.4	57.7	59.3	54.0	64.0	56.0	58.2
10 HOEM - 1	54.0	56.0	50.7	56.3	53.0	54.0	56.0	57.3	53.3	61.3	56.0	56.8
11 HQPM - 7	50.3	54.0	50.7	51.0	54.0	52.0	52.7	55.0	53.0	55.3	57.0	54.6
Loc. Mean	53.9	56.0	52.1	55.2	52.7	54.0	56.0	57.3	54.4	60.4	55.6	56.7
C.D. (5%)	1.53	2.05	0.99	2.00	0.67	1.62	1.32	2.56	0.94	2.59	1.24	1.89
C.V. (2)	1.67	2.15	1.12	2.13	0.75	2.35	1.39	2.63	1.02	2.51	1.31	2.61
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

No. PEDIGREE	DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST					Zone Mean	
	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean
1 X 7B 401	87.7	96.3	97.0	95.7	85.3	92.4	26.9	23.8	18.3	28.3	24.3	24.3
2 X 7B 403	86.3	97.0	98.3	95.0	88.0	92.9	27.8	21.3	17.4	26.2	23.2	23.2
3 G K - 3059	86.3	96.7	98.7	95.3	89.0	93.2	26.8	23.5	19.5	29.6	24.8	24.8
4 M 05 008	88.0	98.3	99.0	98.3	87.7	94.3	26.2	27.9	17.8	31.5	25.9	25.9
5 PHS - 520247	89.0	96.0	98.3	95.0	89.0	93.5	26.3	30.2	17.8	32.7	26.8	26.8
6 HICH - 5401	89.0	93.0	98.3	95.7	86.3	92.5	28.0	21.2	18.2	29.6	24.3	24.3
7 M C H - 38	86.3	95.3	97.7	98.7	84.3	92.5	26.9	24.8	17.3	29.7	24.7	24.7
CHECKS												
8 BIO - 9681	83.3	93.0	96.7	94.0	86.0	90.6	24.0	18.7	17.0	26.2	21.5	21.5
9 SEEDTEC - 2324	87.3	95.0	95.0	100.7	85.7	92.7	25.8	24.8	17.9	29.9	24.6	24.6
10 HQPM - 1	85.3	99.0	96.0	98.0	88.0	93.3	24.1	24.3	17.3	31.2	24.2	24.2
11 HQPM - 7	87.0	97.0	96.7	93.0	88.3	92.4	24.1	17.1	17.8	23.7	20.7	20.7
Loc. Mean	86.9	96.1	97.4	96.3	87.1	92.8	26.1	23.4	17.8	29.0	24.1	24.1
C.D. (5%)	1.50	3.09	2.65	1.82	0.72	2.17	0.92	0.00	-	0.00	2.84	2.84
C.V. (8)	1.01	1.89	1.60	1.11	0.49	1.83	2.07	0.00	-	0.00	8.16	8.16
F (Prob.)	0.00	0.01	0.10	0.00	0.00	0.20	0.00	0.00	0.00	0.00	0.00	0.01

TABLE No. 8 (Contd.)

No. PEDIGREE	PLANT HEIGHT (cm)							EAR HEIGHT (cm)						
	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean		
1 X 7B 401	239	185	166	225	256	214	143	413	64	135	119	175		
2 X 7B 403	215	175	171	205	246	202	112	88	64	105	89	92		
3 G K - 3059	221	178	166	210	248	205	121	82	63	110	99	95		
4 M 05 008	212	170	165	240	274	212	118	90	68	125	125	105		
5 PHS - 520247	231	184	186	240	282	225	120	87	80	135	110	106		
6 HTCH - 5401	220	158	151	200	269	200	111	73	56	85	101	85		
7 M C H - 38	214	166	167	215	247	202	115	80	71	110	98	95		
CHECKS														
8 BIO - 9681	196	160	162	210	238	193	91	65	60	105	74	79		
9 SEEDTEC - 2324	210	165	153	215	244	198	118	86	62	130	110	101		
10 HQPM - 1	203	157	161	200	252	195	105	69	58	100	82	83		
11 HQPM - 7	220	180	159	215	270	209	107	82	57	105	111	92		
Loc. Mean	216	171	164	216	257	205	115	110	64	113	102	101		
C.D. (5%)	19.7	14.7	5.1	0.0	20.8	11.1	18	288	5	-	15	55		
C.V. (%)	5.3	5.0	1.8	0.0	4.8	4.2	9	153	4	-	9	43		
F (Prob.)	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.00	0.00	0.00	0.09		

SI No. PEDIGREE	STAND AT HARVEST ('000/ha)							Zone Mean						
	BAHR	JASH	VARA	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	AMBI	Zone Mean			
1 X 7B 401	80.1	81.1	80.0	83.9	81.3	74	104	58	79	79	79			
2 X 7B 403	76.5	81.1	80.0	76.9	78.6	74	107	54	75	78	78			
3 G K - 3059	79.6	88.0	79.0	79.5	81.5	74	92	55	77	75	75			
4 M 05 008	76.4	75.7	77.5	80.8	77.6	73	86	54	79	73	73			
5 PHS - 520247	79.0	77.2	76.5	82.4	78.8	72	79	55	78	71	71			
6 HTCH - 5401	78.9	79.8	80.5	83.3	80.6	74	107	59	75	79	79			
7 M C H - 38	79.3	79.5	77.0	83.4	79.8	74	101	58	77	77	77			
CHECKS														
8 BIO - 9681	76.4	76.9	77.5	83.6	78.6	74	99	56	79	77	77			
9 SEEDTEC - 2324	77.9	76.5	76.0	82.3	78.2	74	99	57	74	76	76			
10 HQPM - 1	77.6	78.5	77.5	84.9	79.6	66	92	54	81	73	73			
11 HQPM - 7	76.6	77.5	76.0	82.0	78.0	72	94	57	74	74	74			
Loc. Mean	78.0	79.3	78.0	82.1	79.3	73	96	56	77	76	76			
C.D. (5%)	1.95	-	-	8.52	3.18	2.5	15.2	3.6	6.3	6.7	6.7			
C.V. (%)	1.47	-	-	6.09	2.77	2.0	9.2	3.8	4.8	6.1	6.1			
F (Prob.)	0.00	0.00	-	0.77	0.20	0.00	0.02	0.07	0.36	0.29	0.29			

TABLE NO. 7
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE,
 MYSURU, BANGALORE, JK AGRIC BANGALORE, ADVANTA BANGALORE, GANGA KAVARI HYDERABAD, IN AET 1st YEAR,
 TRIAL NO. TRAZZA DURING KHAIRI 2002

NO	HYBRID	GRAIN YIELD (kg/ha) AT 15% MOISTURE										BANG					
		AREH R	HYDE R	KARI R	KOLH R	MAND R	COIM R	POCB R	ADVA R	AREH R	HYDE R	KARI R	KOLH R	MAND R	COIM R	POCB R	ADVA R
1	BH-407135	8237	11	6773	9	4216	16	5512	20	7629	13	13650	9	7593	19	6195	13
2	BH-407138	7867	13	5715	15	6027	5	6708	16	8049	8	11266	17	9075	13	5377	17
3	X7B401	7805	15	6282	12	9093	1	8604	4	9076	3	13564	10	7147	20	6291	11
4	X7B403	7149	17	4888	18	6357	4	8059	8	7302	17	14532	2	8225	16	6423	9
5	LAXMI-9495	8442	8	5277	17	7460	3	6635	18	7221	18	13175	13	9495	9	6398	10
6	GK-3059	10529	1	8363	3	6004	6	8638	3	7302	16	14462	3	9983	7	6635	7
7	PAC-745	10484	2	6289	11	8178	2	6845	14	7573	14	13083	14	11225	4	7312	3
8	PHS-520247	6993	18	7257	8	4607	13	7245	13	8220	7	15205	1	10635	5	6114	14
9	PFMH-9737	8268	10	6723	10	1933	20	8182	7	7677	12	14446	4	8807	14	7586	2
10	JKMH-8003	8936	6	5613	16	4693	12	7718	11	8949	5	12503	16	7805	18	6859	4
11	BISCO-4564	6727	19	4841	19	5948	7	6822	15	7054	19	14238	6	8116	17	5647	16
12	KMH-3669	9355	4	7673	5	4879	11	6227	19	6979	20	14280	5	9084	12	6465	8
13	KHUPER-244	10425	3	9362	1	5298	10	9861	1	9044	4	13462	11	11752	3	7932	1
14	BL-2801	7864	14	7935	4	4053	18	8312	5	9209	2	12750	15	9540	8	5897	15
15	HTCH-5401	8055	12	6184	14	4003	19	7847	9	9775	1	13315	12	8750	15	6797	5
16	XCH-35	9008	5	7613	6	4517	14	9138	2	7724	11	13968	7	9358	11	6685	6
CHECKS																	
17	BIO-9681	5031	20	4511	20	5322	9	8234	6	7315	15	10692	19	10016	6	4308	20
18	SEEDTEC-2324	8731	7	8534	2	4107	17	6641	17	7875	10	13853	8	12951	2	6268	12
19	HQPM-1	7231	16	6188	13	5919	8	7566	12	8783	6	10441	20	13848	1	4841	19
20	HQPM-7	8331	9	7277	7	4480	15	7820	10	8027	9	10815	18	9427	10	5119	18
	Location Mean	8273		6665		5355		7631		8039		13185		9642		6257	
	Mean Stand	71		67		74		74		64		64		34		65	
	C.D. (5%)	1357		1176		383		1452		944		1313		2893		1114	
	C.V. (%)	9.91		10.67		4.33		11.5		7.1		6.02		18.14		10.76	
	F (Prob)	0		0		0		0		0		0		0.005		0	
	Plot Size	12		12		12		12		11.2		9.6		4.8		10000	
AGRONOMY DATA																	
	Sowing Date	17-07		6-07		12-07		7-12		22-07		9-07		14-07		6-07	
	Harvest Date	9-11		22-11		18-10		12-07		26-11		3-11		-		12-11	
	Irrigation Nos	6		2		-		-		6		10		5		3	
	Fertilizer Applied N	150		180		200		120		150		150		120		120	
	Fertilizer Applied P	75		60		80		60		75		75		60		60	
	Fertilizer Applied K	37.5		50		60		40		40		75		40		40	

TABLE No. 7 (Cont...)

SL NO	PLOT/REP	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE BIO-9681										
		BANG	E	GANG	R	MEAN	R	OV'L	MEAN	R	ARBH	HYDE	KARI	KOLH	MAND	COIM
1	BH-40135	15010	5	8444	20	3327	16	8327	16	63.7	50.2	-	-	4.3	27.7	
2	BH-40136	11241	16	8639	19	7996	19	7996	19	56.4	26.7	13.2	-	10	5.4	
3	XTB401	15256	3	9528	14	3265	4	9265	4	55.1	39.3	70.9	4.5	24.1	26.9	
4	XTB403	13918	10	10351	2	8701	10	8771	10	42.1	8.4	19.5	-	-	35.9	
5	XXM1-9432	14367	8	10723	5	3919	8	8919	8	67.8	17	40.2	-	-	23.2	
6	BH-110	15303	2	10672	6	9789	2	9789	2	109.3	85.4	12.8	4.9	-	35.3	
7	BAG-145	14391	-	9620	11	9500	3	9500	3	108.4	39.4	53.7	-	3.5	22.4	
8	PHS-520247	12098	16	8993	16	8737	11	8737	11	39	60.9	-	-	12.4	42.2	
9	PFMH-9737	12238	14	10590	7	8645	14	8645	14	64.3	49	-	-	5	35.1	
10	JKMH-8003	15244	4	9035	15	8736	12	8736	12	77.6	24.4	-	-	22.3	16.9	
11	BISCO-4564	12266	13	10883	1	8254	17	8254	17	33.7	7.3	11.8	-	-	33.2	
12	KMH-3669	14451	6	10457	10	8985	7	8985	7	85.9	70.1	-	-	-	33.6	
13	KMHSUPER-244	15962	1	10545	8	10364	1	10364	1	107.2	107.5	-	19.8	23.6	25.9	
14	BL-2801	14208	9	8808	17	8858	9	8858	9	56.3	75.9	-	0.9	25.9	19.2	
15	HTCH-5401	12419	12	9580	12	8672	13	8672	13	60.1	37.1	-	-	33.6	24.5	
16	MCH-38	13463	11	10742	4	9222	5	9222	5	79	68.8	-	11	5.6	30.6	
CHECKS																
17	BIO-9681	8769	20	10768	3	7497	20	7497	20	-	-	-	-	-	-	-
18	SEEDTEC-2324	12165	15	9546	13	9067	6	9067	6	73.5	89.2	-	-	7.7	29.6	
19	HQPM-1	9414	19	10486	9	8472	15	8472	15	43.7	37.2	11.2	-	20.1	-	
20	HQPM-7	11854	17	8647	18	8180	18	8180	18	65.6	61.3	-	-	9.7	1.2	
Location: Mean																
Mean Stand																
C.D. (5%)																
C.V. (%)																
f (Prob)																
Plot Size																
AGRONOMY DATA																
Sowing Date																
Harvest Date																
Irrigation Nos																
Fertilizer Applied N																
Fertilizer Applied P																
Fertilizer Applied K																

TABLE No. 1 (Contd.)

NO	VARIETY	GRAIN YIELD & SUPERIORITY OVER THE BIO-9681						GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324					
		BANG POCB	BANG ADVA	BANG UKAG	BANG GANG	ZN 4 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG POCB
1	BR-477136	-	43.8	71.2	-	43.3	-	-	2.7	-	-	-	-
2	BR-407139	-	24.8	28.2	-	24.5	-	-	46.7	1	2.2	-	-
3	XTB401	-	46	74	-	45.7	-	-	121.4	29.6	15.2	-	-
4	XTB403	-	49.1	58.7	0.8	48.6	-	-	54.8	21.4	-	4.9	-
5	LAXMI-9495	-	48.5	63.8	-	48	-	-	81.6	-	-	-	-
6	GK-3059	-	54	74.5	-	53.6	20.6	-	46.2	30.1	-	4.4	-
7	PAC-745	12.1	69.7	64.1	-	69	20.1	-	99.1	3.1	-	-	-
8	PHS-520247	6.2	41.9	38	-	41.5	-	-	12.2	9.1	4.4	9.8	-
9	PFMH-9737	-	76.1	39.6	-	75.1	-	-	-	23.2	-	4.3	-
10	JKMH-8003	-	59.2	73.9	-	58.5	2.3	-	14.3	16.2	13.6	-	-
11	BISCO-4564	-	31.1	39.9	1.1	30.7	-	-	44.8	2.7	-	2.8	-
12	KMH-3669	-	50.1	64.8	-	49.6	7.1	-	18.8	-	-	3.1	-
13	KMHSUPER-244	17.3	84.1	82	-	83.4	19.4	9.7	29	48.5	14.9	-	-
14	BL-2801	-	36.9	62	-	36.6	-	-	-	25.2	16.9	-	-
15	HTCH-5401	-	57.8	41.6	-	57.1	-	-	-	18.2	24.1	-	-
16	MCH-38 CHECKS	-	55.2	53.5	-	54.7	3.2	-	10	37.6	-	0.8	-
17	BIO-9681	-	-	-	-	-	-	-	29.6	24	-	-	-
18	SEEDTEC-2324	29.3	45.5	38.7	-	45.1	-	-	-	-	-	-	-
19	HQPM-1	38.3	12.4	7.4	-	12.4	-	-	44.1	13.9	11.5	-	6.9
20	HQPM-7	-	16.8	35.2	-	18.7	-	-	9.1	17.8	1.9	-	-

TABLE No. 7 (Contd.)

S. NO.	PEDIGREE	GRAIN YIELD * SUPERIORITY OVER THE SEEDTEC-2324				GRAIN YIELD * SUPERIORITY OVER THE HQPM-1									
		BANG ADVA	BANG JKAG	BANG GANG	BANG ZN 4 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG POGB	BANG ADVA		
1	BR-317135	-	23.4	-	-	13.9	9.5	-	-	-	30.7	-	28		
2	BR-407138	-	-	-	-	8.8	-	1.8	-	-	7.9	-	11.1		
3	XTB401	0.4	25.4	-	0.4	7.9	1.5	53.6	13.7	3.3	29.9	-	30		
4	XTB403	2.5	14.4	13.7	2.4	-	-	7.4	6.5	-	39.2	-	32.7		
5	LAXMI-9495	2.1	18	12.4	2	16.7	-	26	-	-	26.2	-	32.2		
6	EK-3059	5.9	25.8	11.8	5.9	45.6	35.2	1.4	14.2	-	38.5	-	37.1		
7	EAT-748	16.7	15.3	5.8	16.5	45	1.6	38.2	-	-	25.3	-	51.1		
8	PHS-520247	-	-	-	-	-	17.3	-	-	-	45.6	-	26.3		
9	FFM-9737	21	5.8	10.9	20.7	14.3	8.7	-	8.1	-	38.4	-	56.7		
10	KNH-8903	9.4	25.3	-	9.3	23.6	-	-	2	1.9	19.7	-	41.7		
11	BISCO-4564	-	0.8	14	-	-	-	0.5	-	-	36.4	-	16.7		
12	KMH-3669	3.2	18.8	9.5	3.1	29.4	24	-	-	-	36.8	-	33.6		
13	KMHSUPER-244	26.5	31.2	10.5	26.4	44.2	51.3	-	30.3	3	28.9	-	63.9		
14	BL-2801	-	16.8	-	-	8.8	28.2	-	9.9	4.8	22.1	-	21.8		
15	HTCH-5401	8.4	2.1	0.4	8.3	11.4	-	-	3.7	11.3	27.5	-	40.4		
16	MCH-38	6.7	10.7	12.5	6.6	24.6	23	-	20.8	-	33.8	-	38.1		
CHECKS															
17	BIO-9681	-	-	12.8	-	-	-	-	8.8	-	2.4	-	-		
18	SEEDTEC-2324	-	-	-	-	20.7	37.9	-	-	-	32.7	-	29.5		
19	HQPM-1	-	-	9.9	-	-	-	-	-	-	-	-	-		
20	HQPM-7	-	-	-	-	15.2	17.6	-	3.4	-	3.6	-	5.8		

TABLE No. 7 (Cont..)

Sl. No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM-1				GRAIN YIELD & SUPERIORITY OVER THE HQPM-7							
		BANG JKAG	BANG GANG	ZN 4 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	POCBE	BANG ADVA	BANG JKAG
1	BH-417135	59.4	-	27.5	-	-	-	-	-	26.2	-	21	26.6
2	BH-407138	19.4	-	10.8	-	-	34.5	-	0.3	4.2	-	5	-
3	X7B401	62.1	-	29.6	-	-	103	10	13.1	25.4	-	22.9	28.7
4	X7B403	47.8	3.5	32.2	-	-	41.9	3.1	-	34.4	-	25.5	17.4
5	LAXMI-9495	52.5	2.3	31.7	1.3	-	66.5	-	-	21.8	0.7	25	21.1
6	GK-3059	62.6	1.8	36.7	26.4	14.9	34	10.5	-	33.7	5.9	29.6	29.1
7	PAC-745	52.9	-	50.4	25.8	-	82.5	-	-	21	19.1	42.8	21.4
8	PHS-520247	26.5	-	28.9	-	-	2.8	-	2.4	40.6	12.8	19.4	2.1
9	PMP-3737	30	-	55.8	-	-	-	4.6	-	33.6	-	48.2	3.2
10	PXE-6001	61.9	-	41.1	7.3	-	4.7	-	11.5	15.6	-	34	28.6
11	B200-4564	30.3	3.8	16.3	-	-	32.8	-	-	31.6	-	10.3	3.5
12	KMH-3669	53.5	-	33.1	12.3	5.5	8.9	-	-	32	-	26.3	21.9
13	KMHSUPER-244	69.6	0.6	63.2	25.1	28.7	18.3	26.1	12.7	24.5	24.7	54.9	34.7
14	BL-2801	50.9	-	21.5	-	9	-	6.3	14.7	17.9	1.2	15.2	19.9
15	HTCH-5401	31.9	-	39.8	-	-	-	0.3	21.8	23.1	-	32.8	4.8
16	MCH-38	43	2.4	37.6	8.1	4.6	0.8	16.9	-	29.1	-	30.6	13.6
CHECKS													
17	BIO-9681	-	2.7	-	-	-	18.8	5.3	-	-	6.2	-	-
18	SEEDTEC-2324	29.2	-	29.1	4.8	17.3	-	-	-	28.1	37.4	22.4	2.6
19	HQPM-1	-	-	-	-	-	32.1	-	9.4	-	46.9	-	-
20	HQPM-7	25.9	-	5.6	-	-	-	-	-	-	-	-	-

TABLE No. 1 (Contd.)

Sl. No	PEDIGREE	GRAIN YIELD * SUPERIORITY OVER THE HQPM-7		DAYS TO 50% POLLEN SHED											
		BANG GANG	ZN 4 MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG ADVA	BANG JKAG	BANG GANG	Zone Mean		
1	BH-417135	-	20.7	58.3	58.0	54.0	61.3	54.3	58.0	61.0	60.7	53.3	57.7		
2	BH-407138	-	4.9	55.0	54.0	50.0	58.3	51.7	50.7	58.0	57.7	51.0	54.0		
3	X7B401	10.2	22.7	57.3	55.3	49.7	60.3	51.3	57.3	57.3	58.7	49.3	55.2		
4	X7B403	25.5	25.2	56.0	57.3	49.7	59.3	50.7	54.3	60.0	59.0	48.7	55.0		
5	LAXMI-9495	24.1	24.7	59.3	57.7	53.7	61.3	54.0	57.3	61.3	61.0	53.7	57.7		
6	GK-3059	23.4	29.5	56.7	56.3	53.3	59.3	52.0	56.0	59.0	58.7	51.7	55.9		
7	PAC-745	11.2	42.4	56.3	55.0	50.7	59.7	51.0	56.3	57.3	58.3	48.3	54.8		
8	PHS-520247	4	19.2	58.7	57.7	54.0	60.7	53.0	58.3	60.7	63.0	52.7	57.6		
9	PMH-9737	22.5	47.5	57.3	55.0	51.0	60.0	51.0	57.3	57.7	58.0	50.7	55.3		
10	IKMH-8093	4.5	33.6	55.3	55.0	48.0	57.3	50.3	54.7	56.7	58.7	49.7	54.0		
11	BISCO-4564	25.9	19.2	54.7	55.3	49.3	59.7	50.0	52.0	56.7	58.3	49.0	53.9		
12	KMH-3669	20.9	26.1	57.3	55.7	50.7	61.3	52.3	54.0	60.3	61.0	50.7	55.9		
13	KMSUPER-244	21.9	54.5	55.3	57.3	51.3	58.0	52.7	57.3	56.7	58.7	47.3	55.0		
14	BH-2801	1.9	15.1	56.3	55.0	53.0	60.0	52.0	56.7	59.0	59.7	51.0	56.1		
15	HCH-5401	10.8	32.4	59.7	60.7	55.7	61.3	54.3	57.7	60.7	61.7	56.3	58.7		
16	KCH-38	24.2	30.3	57.0	55.0	52.3	59.3	52.3	58.0	59.0	58.0	49.3	55.6		
CHECKS															
17	BIO-9681	24.5	-	54.0	53.7	48.3	57.0	49.7	49.0	55.3	57.0	49.0	52.6		
18	SEEDTEC-2324	10.4	22.3	57.7	57.3	51.0	59.3	50.3	54.3	56.7	59.0	51.3	55.2		
19	HQPM-1	21.3	-	55.7	56.3	52.0	60.3	52.3	54.0	59.0	59.0	50.7	55.5		
20	HQPM-7	-	-	55.7	56.0	50.7	60.0	52.0	54.7	61.0	59.0	51.0	55.6		
Loc. Mean															
C.D. (5%)															
C.V. (%)															
F (Prob.)															
				0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
				1.35	3.55	2.54	1.88	2.11	0.86	1.71	1.24	1.28	2.00		
				1.26	3.30	2.15	1.86	1.81	0.79	1.66	1.21	1.07	1.03		
				56.8	56.2	51.4	59.7	51.9	55.4	58.7	59.3	50.7	55.6		

TABLE NO. 7 (Contd.)

SI NO	REGIDREE	DAYS TO 50% SIKING						DAYS TO 75% DRY HUSK						
		ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG ADVA	BANG JKAG	BANG GANG	Zone Mean	ARBH	HYDE	KARI
1	BH-41135	59.3	60.3	55.7	62.3	56.3	60.0	63.0	61.7	55.3	59.3	95.7	100.7	76.3
2	BH-46138	56.3	56.3	52.0	59.3	53.7	52.3	60.0	58.0	53.0	55.7	94.3	98.7	74.7
3	XTB401	58.3	58.3	51.7	61.3	53.3	59.3	60.0	59.3	51.3	57.0	97.0	102.3	75.7
4	XTB403	57.3	59.7	51.7	60.3	52.7	56.3	61.3	60.3	50.3	56.7	95.3	101.7	75.0
5	LAXMI-9495	60.3	59.7	56.0	62.3	56.0	59.3	63.7	62.0	55.3	59.4	96.0	101.7	76.0
6	GK-3659	58.3	58.0	55.3	60.3	54.0	58.0	61.7	60.7	53.7	57.8	96.7	100.0	76.7
7	PAC-745	57.7	58.0	52.7	60.7	53.3	59.3	59.3	58.3	50.3	56.6	94.0	101.0	75.3
8	PHS-820247	59.7	59.7	55.7	61.7	55.0	60.3	63.0	62.0	54.7	59.1	96.0	101.7	76.0
9	PFMH-9737	58.3	58.3	53.3	61.0	52.7	59.3	61.0	59.3	52.7	57.3	97.0	101.7	75.7
10	KMH-8003	56.3	58.7	50.0	58.3	52.3	56.7	58.7	58.7	51.3	55.7	93.3	102.7	75.0
11	BISCO-4564	56.3	57.7	51.7	60.7	52.0	54.0	59.3	59.3	50.3	55.7	96.0	101.7	75.3
12	KMH-3669	59.0	58.3	53.0	62.3	54.0	56.0	63.0	61.3	52.3	57.7	96.7	103.3	75.7
13	KMHSDPER-244	57.0	57.0	53.7	59.0	54.7	59.3	58.3	58.7	49.3	56.3	96.0	102.0	75.7
14	SL-2801	59.0	57.3	55.7	61.0	54.0	58.7	62.0	61.7	53.0	58.0	95.7	102.3	76.3
15	NTCH-5401	60.7	59.7	57.7	62.3	56.3	59.7	62.7	63.0	58.3	60.0	97.0	104.7	76.7
16	MCH-38	58.3	57.3	53.7	60.3	54.3	60.3	61.7	59.0	51.0	57.3	97.0	102.7	75.7
CHECKS														
17	SEED-9651	55.7	56.0	50.7	58.0	51.7	51.3	58.0	57.0	50.3	54.3	91.3	101.0	74.7
18	SEED-2324	59.0	57.7	52.7	60.3	52.0	56.3	59.0	61.0	53.3	56.8	96.3	102.7	76.0
19	HQEM-1	57.3	58.3	54.7	61.3	53.7	56.0	61.0	60.3	52.7	57.3	97.3	103.3	77.0
20	HQPM-7	57.3	58.0	53.3	61.0	54.0	56.7	63.3	60.3	53.0	57.4	97.3	103.0	76.3
Loc. Mean														
		58.1	58.2	53.5	60.7	53.8	57.4	61.0	60.1	52.6	57.3	95.8	101.9	75.8
C.D. (5%)														
		1.20	1.64	2.32	1.86	1.71	0.84	1.53	1.28	1.14	1.02	2.08	1.81	1.39
C.V. (%)														
		1.25	1.70	2.62	1.85	1.93	0.89	1.52	1.29	1.31	1.92	1.31	1.07	1.11
F (Prob.)														
		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

TABLE No. 1 (Contd.)

S. No.	VARIETY	DAYS TO 75% DRY HUSK										MOISTURE % AT HARVEST									
		FLR	MANE	COBY	BANG AIVE	BANG SKAS	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	BANG POCB							
1	BB-41135	115.0	98.0	110.0	105.3	110.7	100.2	26.0	30.9	12.0	14.1	17.7	19.7	23.2							
2	BB-43136	102.0	95.7	105.0	107.0	110.0	98.4	27.2	30.4	12.0	13.2	18.9	18.0	24.3							
3	XTB401	104.0	92.3	110.0	106.0	110.7	99.8	27.1	31.0	12.3	11.9	17.3	19.5	23.9							
4	XTB403	102.3	97.0	108.0	109.7	114.0	100.4	28.0	30.6	12.0	13.2	17.0	19.2	23.9							
5	LAXMI-9495	104.7	97.3	110.0	106.0	111.3	100.4	26.6	27.9	13.0	13.3	17.9	20.0	23.9							
6	GK-3059	102.7	97.0	110.0	105.0	110.7	99.9	32.7	28.7	13.0	13.0	18.0	20.2	24.6							
7	PAC-745	102.7	89.7	110.0	102.0	108.0	97.8	26.8	29.4	12.0	13.1	16.9	18.5	25.3							
8	PBS-520247	104.0	93.0	112.0	104.3	110.7	99.7	30.8	32.5	11.7	12.8	18.5	19.7	26.6							
9	FFMH-9737	103.0	96.7	110.0	110.0	111.0	100.6	24.1	29.1	11.7	12.9	18.3	19.3	27.1							
10	JRMH-8003	100.7	92.7	108.0	105.3	110.7	98.5	28.1	31.0	12.7	12.9	18.1	19.9	23.1							
11	BISCO-4564	102.7	96.0	105.3	107.0	110.7	99.3	27.1	29.3	12.7	12.0	18.1	18.3	25.4							
12	KMH-3669	104.7	95.3	108.0	109.7	112.3	100.7	30.1	25.5	13.3	12.9	18.0	18.9	24.3							
13	KMSUPER-244	101.3	97.0	110.0	105.0	110.3	99.7	31.1	29.7	11.0	11.9	16.3	19.0	24.4							
14	BL-2801	103.3	95.7	110.0	109.0	114.0	100.8	27.7	28.2	12.0	12.2	17.5	22.1	25.2							
15	HCH-5401	104.7	98.7	110.0	109.3	111.3	101.5	25.8	31.2	12.3	13.1	17.8	21.7	25.3							
16	MCH-38	102.7	97.3	110.0	110.0	114.7	101.3	29.8	29.0	11.3	11.9	18.6	20.6	24.5							
CHECKS																					
17	BIC-9681	100.0	92.3	105.0	100.0	109.0	96.7	27.2	30.1	12.0	12.2	16.1	17.5	25.2							
18	SEDFEC-2324	102.7	91.3	108.0	104.7	108.0	98.7	28.0	28.8	12.3	13.3	17.9	18.8	25.2							
19	HQPM-1	103.7	98.0	108.0	109.0	112.3	101.1	27.3	32.5	11.0	13.2	17.9	20.3	24.6							
20	HQPM-7	103.3	98.0	108.0	106.0	116.0	101.0	31.6	33.2	11.3	12.9	17.1	18.2	24.5							
Los. Mean																					
		2.24	2.45	3.21	3.05	3.56	1.49	4.22	3.23	1.09	0.65	0.62	0.51	1.88							
		3.32	3.55	3.12	1.73	1.94	1.51	9.06	6.54	5.46	3.07	2.13	1.58	4.59							
		3.00	3.00	3.00	3.00	3.00	3.00	0.02	0.01	0.00	0.00	0.00	0.00	0.02							

TABLE No. 7 (Contd.)

No	FELLSREE	MOISTURE AT HARVEST		PLANT HEIGHT (cm)										Zone Mean	
		BANG ADVA	BANG JKAG	BANG ADVA	BANG JKAG	ARSH	HYDE	KARI	KOLH	MAND	COIM	BANG ADVA	BANG JKAG		BANG GANG
1	BR-407136	25.9	22.0	15.4	20.7	169	206	213	218	193	192	223	273	259	216
2	BR-407136	22.9	22.5	15.2	20.5	185	215	215	215	172	202	225	280	264	219
3	X7B401	25.4	21.8	15.6	20.6	217	241	228	230	192	229	253	307	227	236
4	X7B403	26.8	22.6	16.5	21.0	205	238	222	215	205	219	245	280	260	232
5	LAXMI-9495	26.0	21.8	16.3	20.7	202	236	235	207	197	212	217	275	229	223
6	GR-3059	26.2	22.1	16.7	21.5	212	238	229	218	202	217	242	287	233	231
7	PAC-745	25.2	21.3	15.4	20.4	197	228	211	198	195	221	237	282	216	221
8	PHS-520247	22.7	22.1	15.3	21.3	208	258	235	227	207	221	232	272	265	236
9	PFMH-9737	22.0	20.9	15.8	20.1	208	241	227	203	212	211	237	317	227	231
10	JKMH-8003	24.2	23.1	15.5	20.9	170	216	195	202	200	188	210	280	223	209
11	SISCO-4564	24.5	20.5	16.0	20.4	201	233	214	212	202	211	217	287	257	226
12	KMH-3669	22.5	21.0	15.5	20.2	215	245	234	207	198	213	242	298	222	231
13	KMHSUPER-244	23.5	22.9	15.8	20.5	189	237	218	197	217	214	232	270	234	223
14	BI-2501	25.8	22.5	16.3	20.9	197	248	209	223	187	206	222	292	263	227
15	HTCH-5401	24.4	20.8	16.2	20.9	203	249	220	208	163	198	230	280	281	226
16	MCH-38	25.8	23.4	16.8	21.2	197	243	215	218	198	202	242	257	257	225
CHECKS															
17	BIO-9681	22.4	20.2	16.0	19.9	174	225	210	207	202	192	212	267	287	219
18	SEEDTEC-2324	23.8	22.0	15.2	20.5	175	209	214	220	205	187	208	273	255	216
19	HQPM-1	26.7	22.5	16.2	21.2	183	211	210	213	202	192	208	267	243	214
20	HQPM-7	20.9	20.9	15.3	20.6	204	250	228	222	212	224	227	277	274	235
Loc. Mean															
C.D. (5%)															
S.E. (%)															
F Prob.															
11.44 11.75															
32.35 6.97															
17.15 4.55															
6.08 1.77															
33.65 10.29															
8.26 6.97															
2.07 2.78															
0.00 0.12															
0.00 0.00															

TABLE No. 7 (Contd.)

S. NO	P.E. NAME	EAR HEIGHT (cm)				GRAIN SHELLING %									
		ARBH	HYDE	KARI	KOLH	MAND	COIM	ADVA	BANG JKAG	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND
1	BR-417135	92	89	84	120	93	103	100	107	98	84.0	74.7	66.0	84.2	71.5
2	BR-407138	96	99	73	115	70	107	105	122	98	84.6	74.6	74.7	82.9	85.1
3	X7B401	115	105	96	128	95	140	127	145	119	84.7	77.5	73.0	84.7	84.8
4	X7B403	107	93	82	113	102	116	120	113	106	86.4	78.5	84.3	87.6	81.3
5	LAXM:-9495	114	100	98	118	93	119	123	123	111	83.6	77.4	70.0	84.6	82.8
6	GK-3059	107	91	85	113	97	119	105	130	106	87.7	79.5	78.7	84.9	76.1
7	PAC-745	105	105	87	117	97	131	113	130	110	83.0	74.6	71.3	82.6	73.6
8	PES-520247	112	99	85	128	87	123	112	125	109	80.6	78.7	71.0	82.1	84.3
9	PENH-9737	103	101	86	115	98	116	100	138	107	88.0	79.4	72.0	84.1	82.2
10	JMH-8003	92	89	90	107	92	107	100	135	100	84.3	75.9	66.3	84.1	81.9
11	BISCO-4564	99	98	74	123	93	108	93	117	101	84.6	75.8	78.7	85.0	72.9
12	KMH-3669	107	93	85	117	97	113	113	115	105	82.1	76.6	69.0	83.9	77.5
13	KMHSUPER-244	106	105	86	100	107	124	127	128	110	84.9	78.5	65.0	84.9	79.8
14	BL-2801	107	105	85	128	100	117	115	137	112	83.3	76.6	73.3	83.8	76.1
15	HCH-5401	102	107	76	113	98	109	113	113	104	83.2	75.7	74.7	87.8	85.2
16	MCH-38	101	75	86	127	97	117	117	117	105	85.9	79.2	73.7	86.2	76.7
CHECKS															
17	BIG-9681	88	73	76	105	98	95	85	117	92	85.7	75.4	72.0	84.9	84.8
18	SEEDTEC-2324	95	80	96	115	102	112	120	125	106	86.4	78.3	77.3	84.0	87.0
19	HQEM-1	94	85	77	110	102	104	95	120	98	84.0	76.2	75.7	84.9	85.4
20	HQEM-7	106	101	84	113	98	130	115	130	110	82.4	79.7	74.0	82.2	71.0
	Loc. Mean	102	95	84	116	96	116	110	124	105	84.5	77.1	73.0	84.5	80.0
	C.D. (5%)	8.5	15.5	5.6	23.0	17.7	3.8	14.9	23.3	7.2	2.1	2.8	4.4	0.7	2.1
	C.V. (%)	5.0	9.9	4.0	12.0	11.2	2.0	8.2	11.3	6.9	1.5	2.2	3.6	0.5	1.6
	F (Prob.)	0.00	0.00	0.00	0.52	0.16	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 7 (Contd.)

S. No.	PEPPER	GRAIN SHELLING %		STAND AT HARVEST ('000/ha)												
		COIM	Zone Mean	BANG ADVA	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	POCB	ADVA	JKAG	BANG GANG	Zone Mean
1	PR-417155	73.1	76.1	79.6	76.1	57.5	56.4	63.1	64.2	56.8	66.0	75.0	65.6	62.2	74.2	64.1
2	PR-421158	75.9	79.3	77.4	79.3	50.3	50.6	61.7	62.5	55.7	66.0	70.8	63.5	59.3	77.5	61.8
3	XTB491	82.9	80.9	78.7	80.9	61.4	61.1	61.1	63.6	57.4	66.3	77.1	68.8	66.0	77.5	66.0
4	XTB493	83.4	82.8	77.9	82.8	60.6	58.6	60.6	63.6	58.3	66.0	81.9	68.4	64.4	78.3	66.1
5	LAXMI-9495	74.8	78.5	76.4	78.5	56.1	47.5	64.2	61.7	51.5	66.3	66.0	67.4	54.2	78.3	61.3
6	GK-3059	82.0	81.1	79.3	81.1	62.2	56.4	61.4	60.8	56.5	66.0	65.3	67.4	63.5	78.3	63.8
7	PAC-745	78.7	77.7	80.0	77.7	63.6	53.3	60.6	59.4	57.1	66.3	75.7	68.4	66.0	76.7	64.7
8	PRS-520247	79.1	79.3	79.6	79.3	46.7	54.4	62.2	64.7	57.1	66.0	67.4	58.3	57.1	78.8	61.3
9	PENH-9737	80.5	80.7	78.7	80.7	63.6	57.5	60.3	59.4	56.3	66.0	72.2	67.4	66.3	78.3	64.7
10	JKMH-8003	79.8	78.5	77.5	78.5	64.2	51.1	60.8	63.9	55.7	66.3	75.0	68.8	65.4	76.7	64.8
11	BISCO-4564	79.6	79.3	79.0	79.3	55.3	57.2	60.3	60.8	58.9	66.3	55.6	69.1	58.3	78.3	62.0
12	KMH-3669	80.2	78.1	77.8	78.1	58.3	54.2	62.5	58.9	58.6	66.3	80.6	66.3	58.0	78.3	64.2
13	KMHSUPER-244	78.4	78.7	79.5	78.7	61.9	61.7	59.7	64.7	57.7	66.3	67.4	67.4	65.7	77.5	65.0
14	BL-2801	80.2	78.6	76.6	78.6	60.3	57.2	60.8	60.3	57.7	66.3	76.4	69.1	66.0	77.5	65.2
15	HTCR-5401	80.3	80.8	78.5	80.8	61.1	57.8	60.6	63.6	56.3	66.7	68.1	68.4	64.4	76.7	64.4
16	MCH-38	80.1	80.0	78.6	80.0	60.6	53.3	60.8	60.6	59.5	66.3	72.9	68.4	65.7	78.3	64.6
CHECKS																
17	BIC-9681	81.0	80.1	77.1	80.1	60.8	57.5	62.8	62.2	57.7	66.0	69.4	69.1	54.2	80.0	64.0
18	SEEDTEC-2324	82.1	81.9	78.3	81.9	62.5	55.6	62.2	56.7	57.1	65.6	68.8	67.7	63.5	77.9	63.8
19	HQPM-1	80.2	80.6	78.1	80.6	56.7	60.0	62.8	63.3	56.8	66.3	72.9	69.1	55.1	78.3	65.1
20	HQPM-7	78.7	77.9	77.0	77.9	60.6	55.3	61.1	63.9	55.1	66.7	73.6	68.4	53.5	77.5	64.6
	Loc. Mean	79.5	79.6	78.3	79.6	59.2	55.8	61.5	61.9	56.9	66.2	71.6	67.3	62.4	77.8	64.1
	C.D. (5%)	1.2	3.0	4.7	3.0	7.1	5.6	3.1	8.4	5.0	1.0	15.8	3.8	3.8	3.2	2.7
	C.V. (%)	0.9	3.5	3.6	3.5	7.3	6.0	3.0	8.2	5.3	0.9	13.3	3.4	3.7	2.5	4.7
	F (Prob.)	0.00	0.98	0.00	0.00	0.00	0.00	0.33	0.89	0.52	0.92	0.32	0.00	0.00	0.40	0.00

TABLE No. 6
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT UDAIPUR, GODHRA (R.), BANSWARA, CHHINDIWARA IN
 NET 1st YEAR, TRIAL No. TR6525 DURING KHARIF (2009).

S. NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD % SUPERIORITY OVER THE BIO-9681					
		UDAI	R	BANS	R	CHHI	R	ZN 5 MEAN	R	RAIN GODH	R	UDAI	BANS	CHHI	ZN 5 MEAN	ZN 5 GODH	
1	BR-407139	5696	11	5682	9	5374	8	5584	11	5019	7	-	-	20	-	29	
2	X-78401	6274	7	7914	1	4873	10	6354	5	5379	6	-	28.6	8.9	10	38.2	
3	X-78403	4616	14	5868	8	4943	9	5142	14	5446	5	-	-	10.4	-	39.9	
4	GK-3059	5004	13	6724	5	5490	6	5739	9	4764	10	-	9.2	22.6	-	22.4	
5	PAC-745	7664	2	7670	2	5438	7	6924	1	3588	14	14.5	24.6	21.5	19.9	-	
6	PHS-520247	6190	8	7478	4	6378	4	6682	2	4046	12	-	21.5	42.5	15.7	4	
7	SMH-4502	6019	9	5108	13	6486	2	5871	6	4765	9	-	-	44.9	1.6	22.4	
8	KMH-3669	5869	10	7549	3	5748	5	6388	4	5637	3	-	22.6	28.4	10.6	44.9	
9	KMH SUPER-244	6915	3	5224	12	7532	1	6557	3	5658	2	3.3	-	68.2	13.5	45.4	
10	MCH-38	5210	12	5274	11	6402	3	5629	10	5686	1	-	-	43	-	46.1	
CHECKS																	
11	BIO-9681	6695	4	6156	7	4477	12	5776	8	3892	13	-	-	-	-	-	-
12	SEDETEC-2324	6482	6	4778	14	4831	11	5364	13	5449	4	-	-	7.9	-	40	
13	HQPM-1	7675	-	5393	10	3597	14	5555	12	4836	8	14.6	-	-	-	24.3	
14	HQPM-7	6686	5	6444	6	4243	13	5791	7	4097	11	-	4.7	-	0.3	5.3	
Location Mean.																	
	Mean Stand	66		62		77		68		72							
	C.D. (5%)	534		361		869		588		803							
	C.V. (%)	5.11		3.44		9.54		-		9.79							
	F (Prob)	0		0		0		-		0							
	Plot Size	9.6		9.6		12		-		9.6							
AGRONOMY DATA																	
	Sowing Date	24-06		8-07		14-07		-		13-07							
	Harvest Date	4-10		26-10		9-11		-		8-10							
	Irrigation Nos	2		2		-		-		-							
	Fertilizer Applied N	90		120		120		-		100							
	Fertilizer Applied P	60		40		60		-		50							
	Fertilizer Applied K	-		-		40		-		50							

TABLE No. 4 (Contd.)

No	PEDIGREE	GRAIN YIELD SUPERIORITY OVER THE SEEDTEC-2324				GRAIN YIELD % SUPERIORITY OVER THE HQPM-1				GRAIN YIELD % SUPERIORITY OVER THE HQPM-7									
		UDAI	BANS	CHHI	MEAN	ZN 5	ZN 5	UDAI	BANS	CHHI	MEAN	ZN 5	ZN 5	UDAI	BANS	CHHI	MEAN	ZN 5	ZN 5
1	BH-407138	-	18.9	11.3	4.1	-	5.4	49.4	0.5	3.8	-	26.7	-	-	-	-	-	-	22.5
2	X 7B401	-	65.6	0.9	18.5	-	46.8	35.5	14.4	11.2	-	14.9	-	22.8	-	9.7	31.3	-	32.9
3	X 7B403	-	22.8	2.3	-	-	8.8	37.4	-	12.6	-	16.5	-	-	-	-	-	-	16.3
4	GK-3059	-	40.7	13.7	7	-	24.7	52.6	3.3	-	-	29.4	-	4.3	-	19.6	-	-	-
5	PAC-745	18.2	60.5	12.6	29.1	-	42.2	51.2	24.6	-	14.6	-	-	-	-	15.4	-	-	-
6	PHS-520247	-	56.5	32	24.6	-	38.7	77.3	20.3	-	-	-	-	16	-	50.3	-	-	-
7	SMH-4502	-	6.9	34.3	9.5	-	-	80.3	5.7	-	-	-	-	-	-	52.9	-	1.4	16.3
8	KMH-3669	-	58	19	19.1	3.5	40	59.8	15	16.6	-	35.5	-	17.1	-	10.3	-	37.6	-
9	KMH SUPER-244	6.7	9.3	55.9	22.2	3.8	-	109.4	18	17	3.4	-	-	-	-	77.5	-	13.2	38.1
10	MCH-38	-	10.4	32.5	4.9	4.4	-	78	1.3	17.6	-	50.9	-	-	-	-	-	-	38.8
CHECKS																			
11	BIO-9681	3.3	28.8	-	7.7	-	14.2	24.5	4	-	0.1	-	5.5	-	-	-	-	-	-
12	SEEDTEC-2324	-	-	-	-	-	-	34.3	-	12.7	-	-	13.9	-	-	-	-	-	33
13	HQPM-1	18.4	12.9	-	3.6	-	-	-	-	-	14.8	-	-	-	-	-	-	-	18
14	HQPM-7	3.2	34.9	-	8	-	19.5	17.9	4.2	-	-	-	-	-	-	-	-	-	-

No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK							
		UDAI	BANS	CHHI	MEAN	UDAI	BANS	CHHI	MEAN	UDAI	BANS	CHHI	MEAN	UDAI	BANS	CHHI	MEAN
1	BH-407138	53.0	54.3	56.0	54.4	50.3	55.3	57.3	56.7	56.4	52.0	90.0	91.3	93.0	91.4	78.0	
2	X 7B401	54.7	51.0	54.3	53.3	52.3	56.7	54.0	56.3	55.7	53.0	88.0	87.3	92.0	89.1	78.3	
3	X 7B403	54.7	51.3	53.7	53.2	52.0	57.0	55.0	55.7	55.9	52.0	91.0	87.7	92.3	90.3	77.7	
4	GK-3059	55.3	52.0	55.3	54.2	53.3	57.3	55.7	56.7	56.6	54.3	91.3	87.0	96.3	91.6	78.3	
5	PAC-745	53.3	53.3	56.3	54.3	53.3	55.3	56.3	57.7	56.4	55.7	89.0	89.3	89.7	89.3	78.0	
6	PHS-520247	56.7	52.7	57.7	55.7	56.3	59.3	56.0	58.7	58.0	56.3	92.3	90.3	95.3	92.7	77.7	
7	SMH-4502	56.7	58.0	57.7	57.4	55.3	58.7	61.0	59.0	59.6	55.0	92.3	93.7	97.7	94.6	80.7	
8	KMH-3669	54.7	52.3	55.3	54.1	52.0	56.7	55.3	56.0	56.0	52.7	91.0	89.3	92.7	91.0	78.0	
9	KMH SUPER-244	53.3	54.7	53.7	53.9	51.7	56.0	58.0	55.7	56.6	52.7	90.0	91.3	95.7	92.3	76.3	
10	MCH-38	55.3	51.7	56.3	54.4	53.7	57.3	55.0	58.0	56.8	53.7	91.0	88.0	95.0	91.3	79.3	
CHECKS																	
11	BIO-9681	52.3	51.3	53.0	52.2	49.3	54.3	54.3	54.7	54.4	53.3	87.0	87.3	89.7	88.0	75.3	
12	SEEDTEC-2324	57.3	52.3	55.7	55.1	51.7	59.3	55.3	56.7	57.1	53.7	92.0	89.7	92.7	91.4	78.3	
13	HQPM-1	55.0	54.3	57.3	55.6	51.3	57.3	57.3	57.7	57.4	53.0	89.0	89.0	96.0	91.3	81.3	
14	HQPM-7	54.0	52.0	55.3	53.8	52.0	56.3	55.7	57.0	56.3	52.7	87.7	90.3	95.3	91.1	77.3	
Loc. Mean		54.7	53.0	55.5	54.4	52.5	56.9	56.2	56.9	56.7	53.6	90.12	89.40	93.81	91.11	78.2	
C.D. (5%)		0.97	1.62	1.38	2.10	1.29	1.01	1.82	1.41	1.95	1.32	1.79	2.15	1.50	2.64	2.51	
C.V. (%)		1.06	1.83	1.48	2.30	1.46	1.06	1.93	1.48	2.05	1.47	1.18	1.43	0.96	1.72	1.91	
F (Prob.)		0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.85	

TABLE No. 3
2002...

Sl No	PEDIGREE	MOISTURE AT HARVEST					PLANT HEIGHT (cm)					EAR HEIGHT (cm)				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	BH-407138	23.5	16.2	21.0	20.2	28.1	202	200	208	203	172	95	90	97	94	72
2	X 7B401	22.8	15.5	21.2	19.8	24.9	225	213	209	216	163	110	91	109	103	70
3	X 7B403	20.5	15.9	18.2	18.2	22.4	200	197	206	201	176	97	86	93	92	76
4	GK-3059	22.1	15.6	21.7	19.8	26.5	208	210	201	206	173	100	96	101	99	67
5	PAC-745	20.5	16.1	20.8	19.1	23.8	215	218	208	214	164	112	105	102	106	65
6	PHS-520247	22.7	16.2	21.4	20.1	30.6	227	211	207	215	178	128	97	111	112	76
7	SMH-4502	21.6	16.4	22.4	20.1	19.7	185	208	213	202	175	100	98	108	102	75
8	KMH-3669	22.4	16.1	22.2	20.2	26.4	198	195	197	197	178	92	84	86	87	73
9	KMH SUPER-244	23.3	15.6	20.8	19.9	27.2	188	188	194	190	173	98	96	105	100	66
10	KCR-38	22.5	15.7	21.6	19.9	27.0	182	197	202	193	173	95	97	97	96	78
CHECKS																
11	BIO-9681	21.9	15.6	18.1	18.5	20.7	185	175	191	183	175	80	69	85	78	78
12	SEEDTEC-2324	23.3	15.6	20.9	19.9	26.5	188	212	187	196	173	102	105	106	104	74
13	HQPM-1	21.1	16.1	20.4	19.2	29.3	193	183	181	186	175	95	85	87	89	76
14	HQPM-7	21.8	16.0	21.0	19.6	29.2	198	207	207	204	175	100	83	105	96	70
	Loc. Mean	22.1	15.9	20.8	19.6	25.9	200	201	201	200	173	100	92	99	97	73
	C.D. (5%)	1.56	0.36	0.84	1.44	0.00	15.9	5.1	13.8	14.2	11.9	8.9	3.5	8.9	9.5	9.4
	C.V. (8)	4.21	1.35	2.40	4.36	0.00	4.7	1.5	4.1	4.2	4.1	5.3	2.3	5.4	5.8	7.7
	F (Prob.)	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.09

TABLE No. 8 (Contd.)

Sl No	PEDIGREE	GRAIN SHELLING %					STAND AT HARVEST ('000/ha)				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	BH-407138	77.6	72.7	89.7	80.0	73.7	56	61	59	58	63
2	X 7B401	83.8	75.8	81.3	80.3	80.5	71	66	68	68	80
3	X 7B403	83.7	73.5	80.1	79.1	82.6	72	64	65	67	88
4	GK-3059	81.9	75.6	82.6	80.0	77.5	64	64	64	64	70
5	PAC-745	77.0	75.8	72.2	75.0	73.2	73	65	69	69	81
6	PHS-520247	76.6	77.8	80.0	78.1	72.5	68	66	57	64	68
7	SME-4502	80.0	72.8	72.0	74.9	71.7	79	66	64	70	69
8	KMH-3669	82.7	76.9	79.2	79.6	74.0	64	66	58	62	66
9	KMH SUPER-244	81.1	66.2	82.8	76.7	76.2	81	64	69	71	83
10	MCH-38	82.1	68.8	83.3	78.1	80.6	67	65	69	67	78
CHECKS											
11	BIO-9681	86.1	71.1	87.5	81.5	73.0	73	65	63	67	75
12	SEEDTEC-2324	81.0	66.5	81.8	76.4	73.0	63	63	61	62	79
13	HQPM-1	83.4	73.7	86.1	81.1	77.2	66	63	68	66	73
14	HQPM-7	81.5	73.9	79.8	78.4	76.4	69	63	68	66	84
LCC. Mean											
C.D. (5%)											
C.V. (%)											
F. (Prob.)											
		0.01	0.00	0.00	0.62	0.00	5.97	2.83	5.48	6.50	7.39
					5.09		5.17	2.62	5.07	5.88	5.83
							0.60	0.02	0.00	0.03	0.00

TABLE NO. 9
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT BAJAURA, BARAPANI MEGHALAYA, KANGRA IN AET 1st
 YEAR, TRIAL NO. TR6621 DURING KHARIF (2009).

CULTIVAR	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD % SUPERIORITY OVER THE NAVJOT				GRAIN YIELD % SUPERIORITY OVER THE HM-9			
	BAJA	BARA	KANG	MEAN	BAJA	BARA	KANG	MEAN	BAJA	BARA	KANG	MEAN
1 BH-1047	9663	9	2323	12	5486	6	5845	8	44.1	74.4	22.8	39.8
2 BH-1048	11103	5	3026	6	4056	11	6085	7	65.3	128.5	-	45.5
3 BH-1049	8271	12	2412	9	5385	7	5356	12	23.1	78	20.5	28.1
4 BH-406005	8251	13	2636	8	3712	14	4866	13	22.8	94.6	-	16.4
5 KEM-7	9373	10	1584	13	6323	3	5760	10	39.5	16.9	41.5	37.8
6 EC-3160	9314	11	3324	4	5664	5	6101	6	38.6	145.3	26.7	45.9
7 KH-717	9757	8	4556	2	6984	1	7099	2	45.2	236.3	56.3	69.8
8 KH-9452	11974	2	4755	1	4767	9	7165	1	78.2	251	6.7	71.4
9 HYBRID VMH-4060	12676	1	2847	7	5690	4	7071	3	88.7	110.1	27.3	69.1
10 KMH-3712	11649	3	1972	12	3841	13	5821	9	73.4	45.6	-	39.2
11 BL-2802	10228	7	1983	11	4935	8	5715	11	52.2	46.4	10.4	36.7
12 MCH-37	10941	6	4032	3	3984	12	6319	5	62.9	197.6	-	51.1
CHECKS												
13 NAVJOT	6718	14	1355	14	4470	10	4181	14	-	-	-	-
14 HM-9	11584	4	3038	6	6327	2	6983	4	72.4	124.2	41.5	67
Location Mean	10109		2854		5116		6026					
Mean Stand	63		50		49		54					
S.E. (S)	1991		1140		926		1352					
S.W. (S)	11.71		23.76		10.76		-					
P. Prob)	0		0		0		-					
Plot Size	8.4		12		7.2		-					
AGRONOMY DATA												
Sowing Date	1-07		5-08		18-06		-					
Harvest Date	28-10		-		6-10		-					
Irrigation Nos			-		-		-					
Fertilizer Applied N	120		-		120		-					
Fertilizer Applied P	60		-		60		-					
Fertilizer Applied K	40		-		40		-					

TABLE No. 9 (Continued)

No.	PILLSBEE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			Zone Mean	
		BAJA	BARA	KANG	BAJA	BARA	KANG	BAJA	BARA	KANG	Mean	Zone
1	EC-31241	55.3	63.3	55.3	57.7	66.3	58.0	100.7	114.7	100.7	105.3	105.3
2	EC-31242	55.3	62.3	54.7	58.3	64.3	57.3	95.7	108.3	97.0	100.3	100.3
3	EC-4030126	54.0	64.0	52.0	56.7	66.0	55.3	113.7	115.0	100.0	109.6	109.6
4	EC-4030008	55.0	65.3	55.3	57.3	67.3	57.3	111.7	114.0	101.7	109.1	109.1
5	KLM-7	55.7	62.0	57.0	56.3	64.0	59.3	95.3	108.0	96.7	100.0	100.0
6	EC-31260	54.3	63.3	55.3	56.7	65.3	58.0	95.3	108.0	101.3	101.6	101.6
7	KH-717	53.7	62.7	56.7	56.7	64.7	59.7	99.0	111.3	99.3	103.2	103.2
8	KH-9452	61.3	63.0	55.0	63.3	65.0	58.0	102.7	109.0	96.7	102.8	102.8
9	HYBRID VMH-4060	53.3	63.0	56.3	56.0	66.0	58.7	94.3	114.0	95.7	101.3	101.3
10	KMH-3712	56.0	62.0	57.7	58.3	64.0	60.0	95.3	105.0	96.7	99.0	99.0
11	BL-2802	61.7	65.0	54.3	64.3	67.0	57.3	97.7	114.0	94.7	102.1	102.1
12	MCH-37	53.7	63.7	56.0	56.3	66.7	58.0	101.7	113.7	97.3	104.2	104.2
CHECKS												
13	NAVJOT	54.3	62.3	56.7	56.7	64.3	58.0	96.0	108.0	95.0	99.7	99.7
14	HM-9	53.3	62.7	57.7	55.7	65.7	59.3	95.3	113.7	102.3	103.8	103.8
Loc. Mean												
C.E. (5%)												
C.V. (%)												
F (prob.)												
0.00 0.00 0.00 1.31 3.40 3.31 1.28 1.09 1.06 3.15 2.43 1.20 1.12 5.82 1.45 0.64 0.68 3.37 0.00 0.00 0.00 0.00 0.00 0.00												

TABLE No. 3 (Continued)

S1 NO	PESIGREE	MOISTURE AT HARVEST			PLANT HEIGHT (cm.)			EAR HEIGHT (cm.)			Zone Mean	
		BAJA	BARA	KANG	Zone Mean	BAJA	BARA	KANG	BAJA	BARA	KANG	Zone Mean
1	SR-31240	23.4	34.0	27.5	28.3	180	144	238	92	64	124	94
2	SR-31242	24.5	32.7	26.2	27.8	195	138	256	97	63	125	95
3	BH-406126	27.8	33.0	26.4	29.1	186	114	264	188	50	119	88
4	BH-408003	26.2	32.3	27.2	28.6	171	134	252	185	90	128	92
5	KLN-7	23.5	31.3	28.9	27.9	173	132	264	189	77	125	86
6	EC-3160	27.2	31.7	26.8	28.5	201	157	232	197	113	111	98
7	KH-711	27.5	32.3	27.4	29.1	192	153	244	196	66	128	96
8	KH-9454	24.1	32.7	24.7	27.5	177	139	257	191	93	121	93
9	HYBRID UNH-4280	17.1	32.7	27.2	29.0	204	148	263	205	94	131	96
10	KMS-3112	28.0	32.0	27.7	29.2	196	166	238	200	105	131	106
11	SL-2802	25.7	33.3	26.3	27.8	195	147	225	189	89	114	87
12	MCH-37	26.9	33.0	24.5	28.1	212	156	244	204	97	128	92
CHECKS												
13	NAVJOT	22.4	32.7	24.5	26.5	175	145	263	194	91	125	91
14	HM-9	26.0	32.0	24.0	27.3	180	141	263	195	93	131	93
Loc. Mean												
C.D. (5%)												
C.V. (%)												
F (Prob.)												
		1.27	1.97	1.23	2.51	18.1	23.7	15.8	23.7	20.5	15.1	11.7
		2.97	3.59	2.79	5.31	5.7	9.8	3.8	7.3	12.9	14.7	7.5
		0.00	0.32	0.00	0.63	0.00	0.02	0.00	0.86	0.28	0.02	0.17

TABLE No. 9 (Continued)

S. No	PEDIGREE	GRAIN SHELLING %						STAND AT HARVEST ('000/ha)							
		BAJA		BARA		KANG		BAJA		BARA		KANG		Zone Mean	
		Mean	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	Zone
1	JH-3124C	89.2	81.7	82.0	82.0	82.0	84.3	71	42	73	73	62			
2	JH-31242	89.0	79.3	79.0	79.0	79.0	82.4	80	45	68	68	64			
3	BH-406126	79.1	69.0	83.5	83.5	83.5	77.2	74	38	69	69	60			
4	BH-408005	86.3	74.0	84.5	84.5	84.5	81.6	74	33	66	66	58			
5	KLM-7	88.1	71.7	83.5	83.5	83.5	81.1	71	41	74	74	62			
6	EC-3160	86.9	82.0	81.5	81.5	83.5	83.5	73	41	68	68	61			
7	KH-717	83.0	79.0	84.0	84.0	82.0	82.0	72	43	68	68	61			
8	KH-9452	90.0	75.0	82.5	82.5	82.5	82.5	85	49	67	67	67			
9	HYBRID VMH-4060	91.1	73.0	84.0	84.0	82.7	82.7	74	43	71	71	63			
10	KMH-3712	86.0	66.3	79.5	79.5	77.3	77.3	75	41	68	68	61			
11	BL-2802	88.6	70.0	84.5	84.5	81.0	81.0	77	44	66	66	62			
12	MCH-37	80.0	68.3	83.5	83.5	77.3	77.3	75	39	68	68	61			
CHECKS															
13	NAVJOT	87.8	74.0	83.5	83.5	81.8	81.8	70	44	66	66	60			
14	HM-9	88.5	72.0	79.0	79.0	79.8	79.8	78	38	69	69	62			
LOS. Mean		86.7	74.0	82.5	82.5	81.0	81.0	75	42	69	69	62			
C.D. (5%)		0.00	4.76	0.94	0.94	5.99	5.99	4.44	9.83	3.65	3.65	5.63			
C.V. (%)		0.00	3.84	0.68	0.68	4.40	4.40	3.53	14.1	3.17	3.17	5.44			
F (Prob.)		0.00	0.00	0.00	0.00	0.30	0.30	0.00	0.28	0.00	0.00	0.33			

TABLE NO. 1
 EXPERIMENT ON MIXING MATURING EXPERIMENTAL HYBRIDS AT DMP DELHI LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BAHARAI, CHANDI, MATHUR, VARANASI, RANCHI, ANBIKAPUR, ARBAVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 1961 YEARS TRIAL No. TR66Z-2, 3, 4 DURING KHARIF (2009).

GRAIN YIELD (kg/ha) AT 15% MOISTURE

NO.	HYBRID	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		DELH	R	KARN	R	LUDH	R	PANT	R	KANP	R	MEAN	BAHR	R	DHOL	R	JASH	R	
1	KH-11242	4736	5	7589	1	6445	7	8215	8	6240	9	6645	8	5150	8	4883	4	4821	8
2	KH-31242	6228	1	6924	3	9254	1	9953	5	5775	13	7627	2	5985	3	4677	6	6270	2
3	KH-406126	3274	12	5426	12	4130	13	6177	13	5946	12	4991	13	3379	13	3075	13	2401	13
4	KH-406905	5152	4	6201	10	6081	10	7404	11	6520	5	6271	10	5230	7	4576	8	6221	3
5	EC-3160	3823	11	6242	9	6427	8	7999	9	6421	6	6182	11	3434	12	3785	11	4320	9
6	KH-717	4651	6	6636	5	6212	9	10108	4	6209	10	6763	6	5707	6	4319	10	5346	6
7	KH-9452	5584	2	6246	8	6899	4	12294	2	6760	2	7557	3	5949	4	4628	7	4919	7
8	HYBRID VMH-4060	4469	8	6641	4	6785	5	9590	6	6395	7	6776	5	4932	9	4818	5	2441	12
9	KMH-3712	5432	3	6569	6	7962	3	13101	1	6748	3	7962	1	6419	1	5508	2	5598	4
10	BL-2802	4611	7	6413	7	6647	6	11569	3	6074	11	7063	4	6078	2	5481	3	5389	5
11	MCH-37	4241	9	6164	11	8404	2	7518	10	6769	1	6619	9	5885	5	6085	1	6336	1
CHECKS																			
12	NAVOT	2827	13	5360	13	4214	12	6485	12	6271	8	5031	12	4479	11	3434	12	3385	11
13	KY-2	3958	10	7419	2	6076	11	9168	7	6735	4	6671	7	4784	10	4483	9	3597	10
REGRESSION MEAN																			
	Mean Stand	4537		6448		6580		9198		6374		6628		5186		4596		4696	
	S.E. S.D.	59		69		71		69		75		69		66		56		53	
	S.E. S.D.	1071		772		1075		3166		212		1259		595		1248		151	
	S.E. S.D.	13.98		7.09		9.67		20.38		1.97		-		6.8		16.08		1.9	
	F (Prob)	0		0		0		0		0		0		0		0		0	
	Plot Size	11.2		12		10.92		12		9.6		-		9.6		12		9.6	
AGRONOMY DATA																			
	Sowing Date	7-06		29-06		3-07		1-08		14-07		-		4-07		8-07		26-07	
	Harvest Date	13-10		3-10		8-10		18-11		6-11		-		14-10		-		12-11	
	Irrigation Nos	4		4		6		-		2		-		-		-		-	
	Fertilizer Applied N	150		150		125		120		80		-		120		120		120	
	Fertilizer Applied P	75		60		60		60		40		-		60		60		60	
	Fertilizer Applied K	75		60		-		40		40		-		60		40		60	

Table No. 10 continued

GRAIN YIELD (kg/ha) AT 15% MOISTURE

NO	PEDIGREE	ZN 3																	
		VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R	KARI	R	KOLH	R	MAND	R
1	HR-31240	7232	4	8309	2	6500	3	6149	6	5417	7	7510	3	6454	6	5034	10	10017	1
2	HR-31242	7816	3	7046	6	7141	2	6489	2	5644	6	6287	10	7649	1	7088	2	8489	7
3	BH-406126	5480	11	6004	10	5360	9	4283	13	3331	13	5450	12	4068	12	3822	13	4358	13
4	BH-406305	6799	7	5791	13	5111	11	5621	9	6452	4	6749	7	3697	13	4656	12	9208	5
5	EC-3160	5540	10	5887	11	4749	12	4619	11	4909	11	6905	5	7291	2	6254	6	8388	8
6	KN-117	6581	8	6755	9	5999	6	5784	7	5359	9	6698	8	6111	8	6479	5	9436	3
7	KH-9482	8587	2	7638	5	5892	8	6269	5	6740	2	7878	2	6704	5	7460	1	7045	10
8	HYBRID VMH-4060	7145	5	8123	3	6446	4	5651	8	5054	10	6669	9	5964	9	6730	3	9347	4
9	KMH-3712	6289	9	9124	1	5947	7	6481	3	7346	1	8320	1	7236	3	5660	7	8611	6
10	BL-2802	6829	6	7741	4	6333	5	6309	4	6497	3	6879	6	7233	4	5268	9	6886	11
11	MCH-37	8924	1	6994	8	7360	1	6931	1	5694	5	7375	4	6342	7	6572	4	9790	2
	CHECKS																		
12	NAVJOT	4953	13	5826	12	4556	13	4439	12	4015	12	4759	13	5174	10	4859	11	5332	12
13	RM-9	5362	12	6996	7	5138	10	5060	10	5384	8	6234	11	4545	11	5446	8	8314	9
	Location Mean	6734		7095		5887		5699		5526		6747		6036		5794		8094	
	Mean Stand	74		58		76		64		60		66		73		66		63	
	S.D. 15%	539		1936		935		921		1035		1123		409		1151		1035	
	S.E.D.	4.74		16.65		10.01		-		11.09		9.86		4.01		11.76		7.57	
	P. Error	0		0.003		0		0		0		0		0		0		0	
	Plot Size	9.6		11.2		12		-		12		12		12		12		11.2	
	AGRONOMY DATA																		
	Sowing Date	2-07		9-07		4-07		-		17-07		6-07		12-07		11-07		22-07	
	Harvest Date	8-10		15-10		-		-		10-11		16-11		18-10		3-12		26-11	
	Irrigation Nos	2		-		-		-		6		2		-		-		6	
	Fertilizer Applied N	100		-		120		-		150		180		200		120		150	
	Fertilizer Applied P	60		-		60		-		75		60		80		60		75	
	Fertilizer Applied K	40		-		40		-		37.5		50		60		40		40	

Table No. 10 (Continued)

CULTIVAR	GRAIN YIELD (kg/ha)			GRAIN YIELD & SUPERIORITY OVER THE NAVJOT											
	COIN	MEAN	R	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH			
1 BH-11245	10901	9	7556	8	6791	6	67.5	41.6	52.9	26.7	-	32.1	15	42.2	42.4
2 BH-11242	10980	8	7690	4	7248	4	120.3	29.2	119.6	53.5	-	51.6	33.6	36.2	85.3
3 BH-406126	8478	12	4918	13	4715	13	15.8	1.2	-	-	-	-	-	-	-
4 BH-408805	15251	1	7669	6	6535	9	82.2	15.7	44.3	14.2	4	24.6	16.8	33.3	83.8
5 EC-3160	10521	10	7378	10	6053	11	35.2	16.5	52.5	23.3	2.4	22.9	-	10.2	27.6
6 KH-117	11019	7	7517	9	6684	8	64.5	23.8	47.4	55.9	-	34.4	27.4	25.8	57.9
7 KH-9452	14032	3	8310	2	7368	2	97.5	16.5	63.7	89.6	7.8	50.2	32.8	34.8	45.3
8 HYBRID VMH-4060	12174	6	7656	7	6690	7	58.1	23.9	61	47.9	2	34.7	10.1	40.3	-
9 RMH-3712	14146	2	8553	1	7648	1	92.2	22.6	88.9	102	7.6	58.3	43.3	60.4	65.4
10 BL-2802	13371	5	7689	5	7018	5	63.1	19.7	57.7	78.4	-	40.4	35.7	59.6	59.2
11 YCH-37	13948	4	8287	3	7318	3	50	15	99.4	15.9	7.9	31.6	31.4	77.2	87.2
CHECKS															
12 NAVJOT	7621	13	5293	12	4915	12	-	-	-	-	-	-	-	-	-
13 HM-9	10401	11	6721	11	6120	10	40	38.4	44.2	41.4	7.4	32.6	6.8	30.6	6.3
Location Mean	11757		7326		6546										
Mean Stand	64		65		66										
C.D. (5%)	1174		988		1044										
C.V. (%)	5.91		-		-										
F (Prob)	0		-		-										
Plot Size	9.6		-		-										
AGRONOMY DATA															
Sowing Date	9-07		-		-										
Harvest Date	4-11		-		-										
Irrigation Nos	10		-		-										
Fertilizer Applied N	150		-		-										
Fertilizer Applied P	75		-		-										
Fertilizer Applied K	75		-		-										

Table No. 10 (Continued)

NO	VARIETY	GRAIN YIELD & SUPERIORITY OVER THE HM-9										DAYS TO 50% POLLEN SHED				
		ASBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN	OV'L MEAN	DELH	KARN	LUDH	PANT	KANP		
1	JH-31240	0.6	20.5	42	-	20.5	4.8	12.4	11	50.0	49.0	49.7	52.0	52.7		
2	JH-31242	4.8	0.9	68.3	30.2	2.1	5.6	14.4	18.4	51.3	49.7	49.7	52.0	53.7		
3	BH-406126	-	-	-	-	-	-	-	-	55.3	50.3	53.0	56.3	57.3		
4	BH-408005	19.8	8.3	-	-	10.8	46.6	14.1	6.8	54.0	49.3	55.3	57.0	54.7		
5	EC-3160	-	10.8	60.4	14.8	0.9	1.2	9.8	-	50.0	49.3	49.3	51.7	55.3		
6	KH-717	-	7.4	34.5	19	13.5	5.9	11.9	9.2	53.7	49.7	54.7	54.3	56.0		
7	KH-9452	25.2	26.4	47.5	37	-	34.9	23.6	20.4	54.3	49.0	54.3	55.7	57.0		
8	HYBRID VMH-4060	-	7	31.2	23.6	12.4	17	13.9	9.3	53.3	48.3	50.7	54.0	56.0		
9	KMH-3712	36.4	33.5	59.2	3.9	3.6	36	27.3	25	51.7	50.7	49.0	51.3	53.3		
10	BL-2802	20.7	10.3	59.1	-	-	28.6	14.4	14.7	53.0	50.3	51.7	56.0	52.7		
11	MCH-37	5.8	18.3	39.5	20.7	17.7	34.1	23.3	19.6	55.0	49.3	52.0	56.7	55.0		
	CHECKS															
12	NAVJOT	-	-	13.8	-	-	-	-	-	50.3	46.3	50.0	52.0	55.3		
13	HM-9	-	-	-	-	-	-	-	-	51.3	48.7	49.7	51.3	54.7		
	Loc. Mean									52.6	49.2	51.5	53.9	54.9		
	C.D. (5%)									3.09	1.95	2.23	2.59	1.80		
	C.V. (%)									3.49	2.35	2.57	2.85	1.94		
	F (Prob.)									0.01	0.02	0.00	0.00	0.00		

Table No. 10 (Continued)

No.	REGISTRY	DAYS TO 50% POLLEN SHED												
		Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMB-	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND
1	TR-1241	50.7	52.7	52.3	45.7	48.3	49.0	47.3	49.2	57.0	54.0	48.7	56.3	48.7
2	TR-31242	51.3	55.3	52.7	45.7	47.0	49.0	47.3	49.5	58.3	54.3	49.3	54.7	48.7
3	BR-406126	54.5	56.7	56.3	48.3	51.3	51.7	50.7	52.5	55.0	55.7	54.7	61.3	50.7
4	BR-408035	54.1	60.7	57.3	53.3	54.3	52.0	53.3	55.2	56.7	54.7	54.7	59.3	51.3
5	EC-3160	51.1	54.3	51.3	46.0	47.3	50.7	46.3	49.3	55.7	53.7	47.7	54.0	46.3
6	KH-117	53.7	54.0	54.0	48.0	49.0	50.3	50.3	50.9	56.7	53.7	50.3	56.0	48.7
7	KH-9452	54.1	55.7	55.7	49.7	51.0	50.7	52.0	52.4	56.3	53.3	50.7	57.7	51.7
8	HYBRID VMH-4060	52.5	53.7	52.7	47.3	49.0	49.7	48.0	50.1	57.7	54.0	49.3	55.3	49.3
9	KMH-3712	51.2	53.3	53.7	47.7	46.0	49.3	50.7	50.4	54.7	53.3	50.7	58.0	49.0
10	BL-2802	52.7	54.3	53.7	49.0	51.0	51.7	52.0	51.9	56.7	55.7	52.7	61.0	52.0
11	MCH-37	53.6	54.3	53.7	49.3	50.3	50.3	51.0	51.5	57.0	55.0	50.3	57.0	51.3
CHECKS														
12	NAVJOT	50.8	51.7	51.7	45.3	46.7	49.0	46.0	48.4	57.3	49.7	46.7	51.0	47.3
13	HM-9	51.1	52.3	50.7	47.0	49.3	48.7	51.0	49.8	57.7	52.3	50.0	58.7	48.3
	Loc. Mean	52.4	54.5	53.5	47.9	49.4	50.2	49.7	50.9	56.7	53.8	50.4	56.9	49.5
	C.D. (5%)	1.65	2.63	2.13	1.19	1.36	2.44	0.73	1.21	2.11	1.55	1.78	4.87	2.03
	C.V. (%)	2.48	2.87	2.36	1.47	1.63	2.88	0.57	2.05	2.21	1.71	2.10	5.07	2.44
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.09	0.00	0.00	0.06	0.00	0.00	0.01	0.00

Table No. 10 (Continued)

S#	PEDIGREE	DAYS TO 50% POLLEN SHED		DAYS TO 50% SILKING		Zone		BAHR	DHOL	JASH	VARA
		COIM	Mean	OV'L	Mean	KANP	Mean				
1	SH-31240	46.7	51.9	50.6	55.0	51.7	50.7	55.0	53.3	48.7	54.0
2	SH-31242	48.0	52.2	51.0	55.3	52.0	50.7	57.3	53.7	47.7	52.3
3	SH-406126	53.3	55.1	54.0	57.3	52.7	54.0	59.3	57.3	51.0	56.0
4	SH-408005	55.0	55.3	54.9	57.7	51.7	56.3	60.0	59.3	56.0	59.0
5	SC-3160	46.7	50.7	50.3	52.0	51.7	50.3	54.3	53.0	48.3	52.7
6	SH-117	47.7	52.2	52.2	55.7	52.0	55.7	57.7	55.0	50.7	54.3
7	SH-2452	52.0	53.6	53.3	56.7	51.3	55.3	59.0	56.7	51.7	56.0
8	HYBRID VMH-4060	49.7	52.6	51.6	54.7	50.7	51.7	57.0	53.7	49.3	54.7
9	KMH-3712	48.0	52.3	51.3	53.3	53.3	60.0	54.3	54.7	49.7	52.3
10	SL-2802	52.3	55.1	53.3	55.0	52.7	52.7	59.7	54.7	51.3	55.0
11	MCH-37	51.0	53.6	52.9	57.7	51.3	53.0	60.0	55.0	55.3	55.0
CHECKS											
12	NAVJOT	46.3	49.7	49.6	52.7	48.3	51.0	55.0	53.3	47.3	52.3
13	RM-9	49.0	52.5	51.2	53.0	51.0	51.0	54.3	51.7	49.0	54.0
L.S. Mean											
		49.6	52.8	52.0	55.1	51.6	53.3	57.0	56.6	50.5	54.4
C.D. (5%)											
		0.86	1.78	0.92	3.68	1.82	8.65	2.97	1.99	1.92	1.86
C.V. (%)											
		1.03	2.91	2.61	3.97	2.09	9.64	3.10	2.16	2.26	2.03
F (Prob.)											
		0.00	0.00	0.00	0.04	0.00	0.51	0.00	0.00	0.00	0.00

Table No. 10 Continued

SI No	PEDIGREE	DAYS TO 50% SILKING										Zone	
		RANC	AMBI	ARBH	HYDE	KARI	KOLR	MAND	COIM	Zone Mean	OV'L Mean		
1	JH-31240	53.5	49.7	52.4	58.0	50.7	57.3	51.0	48.7	53.9	53.3		
2	JH-31242	53.7	50.3	52.5	58.7	52.0	55.7	51.0	50.0	54.1	53.6		
3	BH-406126	55.0	53.0	55.2	56.0	57.0	62.3	52.7	54.7	56.8	56.4		
4	BH-408005	55.7	55.7	58.1	57.3	56.7	60.3	52.3	57.0	56.8	57.4		
5	EC-3160	54.7	49.3	52.4	56.7	50.3	55.0	48.0	48.7	52.3	52.8		
6	KH-717	54.7	53.0	53.9	57.3	53.0	57.0	50.7	49.7	53.8	55.0		
7	KH-9452	54.3	55.0	55.2	57.3	53.3	58.3	53.7	54.0	55.3	55.7		
8	HYBRID VMH-4060	54.0	50.7	53.0	58.7	51.7	56.3	51.0	52.0	54.2	54.1		
9	KMH-5712	53.3	53.0	53.1	56.0	53.0	59.0	50.7	50.0	54.0	54.3		
10	BL-2502	55.0	55.0	54.6	57.3	54.3	62.0	53.0	54.0	56.3	55.5		
11	MCH-37	54.3	54.0	55.1	58.3	52.7	58.0	53.0	53.0	55.3	55.6		
CHECKS													
12	KAVJIT	53.0	49.0	51.4	59.0	48.0	52.0	49.0	48.0	51.3	52.1		
13	HM-9	53.0	53.3	52.6	59.0	52.3	59.7	50.3	50.0	54.7	53.7		
	Loc. Mean	54.2	52.4	53.8	57.7	52.7	57.9	51.3	51.5	54.5	54.6		
	C.D. (5%)	2.03	0.96	1.37	2.10	2.00	4.85	2.29	0.74	1.87	1.12		
	C.V. (%)	2.22	1.09	2.21	2.16	2.25	4.97	2.65	0.85	2.96	3.03		
	F (Prob.)	0.22	0.00	0.00	0.06	0.00	0.01	0.00	0.00	0.00	0.00		

Table No. 10 (Continued)

No	PELIGREE	DAYS TO 15% DRY HUSK										Zone		
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASE	VARA	RANC	AMBI	Zone Mean
1	JH-31240	88.7	83.3	83.7	104.3	86.7	89.3	82.3	88.7	91.0	89.7	93.0	81.0	87.6
2	JH-31242	91.3	83.3	81.7	101.0	86.7	88.8	83.3	87.0	87.7	87.7	93.0	78.3	86.2
3	BH-406126	90.7	83.3	80.7	99.0	89.7	88.7	83.7	86.0	90.0	89.7	94.0	85.7	88.5
4	BH-408005	92.7	83.7	87.0	104.3	89.7	91.5	87.7	91.3	96.0	92.0	93.0	87.0	91.2
5	EC-3160	87.7	83.0	82.3	99.7	66.0	83.7	82.0	91.3	90.0	87.7	94.3	79.7	87.5
6	KH-717	91.0	83.3	87.0	104.3	88.7	90.9	86.7	89.3	89.7	88.7	94.0	87.0	89.2
7	KH-9452	88.7	82.7	85.0	103.0	87.0	89.3	85.7	91.0	88.3	89.7	94.0	83.3	88.7
8	HYBRID VMH-4060	86.3	83.7	85.3	107.0	89.7	90.4	84.7	89.7	86.7	95.0	95.3	86.7	89.7
9	KMH-3712	89.3	84.7	81.0	104.0	88.3	89.5	85.0	91.0	90.3	85.7	93.7	82.3	88.0
10	BL-2802	87.3	83.7	83.3	105.0	79.0	87.7	85.7	89.0	92.0	89.7	92.7	82.0	88.5
11	MCH-37	87.7	84.0	85.3	110.3	88.7	91.2	86.7	90.3	93.7	89.3	93.0	84.0	89.5
CHECKS														
12	NAVSOI	84.3	80.7	78.7	101.7	89.3	86.9	80.7	89.0	85.0	84.7	92.7	77.7	84.9
13	HX-9	86.0	83.0	81.3	101.0	91.7	88.6	84.3	93.7	89.0	88.7	93.7	82.3	88.6
Loc. Mean														
C.D. (5%)														
C.V. (%)														
F (Prob.)														

Table No. 10 (Continued)

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK							MOISTURE % AT HARVEST							Zone Mean	
		ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	Zone Mean	
1	JH-31240	94.3	99.7	79.3	92.3	95.3	98.0	93.2	90.1	39.7	28.3	31.4	28.7	15.0	28.6	28.6	
2	JH-31242	94.7	99.3	77.0	93.3	91.7	100.0	92.7	89.2	37.5	24.9	29.4	23.7	15.0	26.1	26.1	
3	BH-406126	91.7	100.3	78.7	100.3	91.7	105.0	94.6	90.7	37.1	27.1	30.2	26.9	15.0	27.2	27.2	
4	BH-408005	94.0	99.0	77.0	98.3	94.0	110.0	95.4	92.7	38.2	28.6	33.8	22.5	15.0	27.6	27.6	
5	EC-3160	94.3	97.3	77.7	93.0	89.0	98.0	91.6	87.8	38.6	28.0	27.8	34.2	15.0	28.7	28.7	
6	KH-717	93.0	98.0	77.7	95.0	91.7	98.0	92.2	90.8	38.9	26.7	32.8	26.3	15.0	27.9	27.9	
7	KH-9452	94.7	97.0	77.3	96.7	92.7	105.0	93.9	90.7	40.2	28.0	32.7	27.2	15.0	28.6	28.6	
8	HYBRID VMH-4060	92.3	99.7	78.0	94.3	96.3	100.0	93.4	91.2	36.2	28.9	30.3	24.6	15.0	27.0	27.0	
9	KMH-3712	92.0	100.3	78.7	97.0	90.7	100.0	93.1	90.2	37.6	28.4	29.8	33.7	15.0	28.9	28.9	
10	BL-2802	96.0	98.0	78.0	100.0	94.0	104.7	95.1	90.6	35.0	28.1	29.1	27.8	15.0	27.0	27.0	
11	MCH-37	90.0	97.7	78.3	96.0	97.0	102.0	93.5	91.4	35.6	26.3	32.0	27.6	15.0	27.3	27.3	
CHECKS																	
12	NAVJOT	93.3	93.7	73.3	90.7	88.0	98.0	89.5	87.1	35.8	28.4	28.4	27.5	15.0	27.0	27.0	
13	HM-9	92.7	99.0	78.3	97.7	90.7	98.0	92.7	90.1	34.3	27.8	31.3	24.6	15.0	26.6	26.6	
	Loc. Mean	93.3	98.4	77.6	95.7	92.5	101.3	93.1	90.2	37.3	27.6	30.7	27.3	15.0	27.6	27.6	
	C.D. (5%)	3.13	1.49	2.38	3.91	3.78	0.27	2.54	1.72	3.28	1.39	1.84	4.77	-	2.53	2.53	
	C.V. (%)	1.99	0.90	1.82	2.42	2.42	0.16	2.36	2.82	5.22	2.97	3.57	10.36	-	7.20	7.20	
	F (Prob.)	0.05	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	-	0.46	0.46	

Table No. 10 (Continued)

Sl No	PEDIGREE	MOISTURE % AT HARVEST											Zone		Zone		OV'L	
		BAHR	DHOL	JASH	VARA	RANC	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	Zone Mean	OV'L Mean	OV'L Mean	
1	JH-31240	23.2	18.7	18.5	29.0	21.2	22.1	35.9	30.5	12.9	14.4	18.6	20.4	22.1	22.1	24.1	24.1	
2	JH-31242	24.4	17.0	17.1	27.9	22.2	21.7	27.8	28.6	11.3	14.9	18.7	17.7	19.8	19.8	22.4	22.4	
3	BH-406126	23.6	16.7	16.4	28.8	21.8	21.5	29.0	31.0	12.3	14.1	17.8	19.9	20.7	20.7	23.0	23.0	
4	BH-408005	23.6	19.6	17.9	31.9	20.6	22.7	35.4	29.8	12.4	13.9	17.6	20.1	21.5	21.5	23.8	23.8	
5	EC-3160	24.6	19.4	18.4	26.1	21.7	22.0	33.3	27.8	11.2	13.7	16.7	18.6	20.2	20.2	23.4	23.4	
6	KH-717	27.0	23.1	18.0	30.1	20.8	23.8	37.4	32.2	12.4	14.1	18.3	18.3	22.1	22.1	24.4	24.4	
7	KH-9452	25.6	24.7	18.1	28.1	21.2	23.5	31.9	30.8	12.6	13.3	18.9	18.8	21.0	21.0	24.2	24.2	
8	HYBRID VMH-4060	27.1	17.5	14.8	26.0	20.7	21.2	29.7	29.7	11.9	13.8	17.5	21.2	20.6	20.6	22.8	22.8	
9	KMH-3712	27.0	23.5	17.6	29.3	20.8	23.6	32.8	30.4	11.6	14.6	18.5	19.9	21.3	21.3	24.4	24.4	
10	BL-2802	25.5	20.0	18.0	28.0	22.1	22.7	28.7	27.3	14.4	14.1	17.9	17.0	19.9	19.9	23.0	23.0	
11	MCH-37	26.1	26.9	17.3	25.5	20.8	23.3	34.6	31.1	14.0	13.9	18.5	21.9	22.3	22.3	24.2	24.2	
CHECKS																		
12	NAVJOT	23.7	16.4	16.9	24.9	20.8	20.5	22.6	30.0	13.5	13.2	16.0	16.5	18.6	18.6	21.9	21.9	
13	HM-9	24.1	18.5	17.6	24.8	20.3	21.1	30.2	28.4	11.8	13.7	17.7	17.4	19.9	19.9	22.3	22.3	
	Loc. Mean	25.0	20.2	17.4	27.7	21.1	22.3	31.5	29.8	12.5	14.0	17.9	19.0	20.8	20.8	23.4	23.4	
	C.D. (5%)	1.20	-	0.00	0.00	1.33	2.34	2.19	2.09	1.16	1.18	1.04	0.51	2.05	2.05	1.27	1.27	
	C.V. (%)	2.84	-	0.00	0.00	3.74	8.24	4.14	4.16	5.49	5.00	3.44	1.57	8.55	8.55	7.78	7.78	
	F (Prob.)	0.00	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00	0.25	0.00	0.00	0.02	0.02	0.00	0.00	

Table No. 10 (Continued)

SI No	PEDIGREE	PLANT HEIGHT (cm)											Zone		
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	BHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	ARBH
1	JH-31240	174	195	175	217	176	187	193	164	148	200	187	238	188	183
2	JH-31242	169	183	187	233	185	192	176	157	156	195	201	254	190	156
3	BH-406126	148	173	148	197	185	170	142	154	122	180	192	227	170	170
4	BH-408005	184	197	192	233	188	199	185	162	150	210	188	244	190	184
5	EC-3160	185	202	193	237	186	201	182	159	148	205	203	255	192	177
6	KH-717	158	180	182	225	184	186	193	150	153	190	202	234	187	-
7	KH-9452	158	177	192	227	191	189	173	139	135	205	190	244	181	-
8	HYBRID VMH-4060	181	203	202	223	195	201	192	176	155	220	211	250	201	-
9	KMH-3712	183	183	193	237	190	197	177	165	163	210	210	261	198	173
10	BL-2802	170	196	187	243	190	197	193	168	163	235	212	256	204	178
11	MCH-37	189	208	210	240	187	207	194	177	183	240	211	261	211	153
CHECKS															
12	NAVJOT	162	183	190	257	183	195	184	165	152	200	196	237	189	190
13	HM-9	133	177	170	217	195	178	156	153	145	200	195	238	181	163
	Loc. Mean	169	189	186	230	187	192	180	161	152	207	200	246	191	133
	C.D. (5%)	34.9	17.4	16.6	17.4	2.8	12.5	24.6	12.3	8.0	0.0	22.4	16.3	9.7	16.0
	C.V. (%)	12.3	5.5	5.3	4.5	0.9	5.1	8.1	4.6	3.1	0.0	6.7	3.9	4.4	7.2
	F (Prob.)	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00

Table No. 10 (Continued)

Sl No	PEDIGREE	PLANT HEIGHT (cm)										EAR HEIGHT (cm)									
		HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR						
1	JH-31240	243	201	183	192	203	201	192	88	106	80	80	63	83	102						
2	JH-31242	227	210	190	198	201	197	193	87	107	103	110	71	96	98						
3	BH-406126	194	179	188	193	183	185	175	75	94	80	85	75	82	76						
4	BH-408005	234	217	162	187	185	195	194	95	121	103	107	89	103	90						
5	EC-3160	235	223	192	193	197	203	198	94	108	92	90	81	93	97						
6	KH-717	230	219	192	165	187	198	190	74	99	97	95	82	89	97						
7	KH-9452	229	213	163	183	191	196	188	84	103	102	85	85	92	86						
8	HYBRID VMH-4060	238	210	193	180	211	207	203	94	110	97	98	71	94	95						
9	KMH-3712	235	210	200	188	202	201	199	125	101	102	103	82	102	88						
10	BL-2802	241	210	183	187	213	202	201	74	107	85	103	85	91	92						
11	MCH-37	243	226	188	193	214	203	207	93	122	105	122	89	106	100						
CHECKS																					
12	NAVJOT	231	198	177	180	202	196	193	81	92	97	95	66	86	91						
13	HM-9	200	203	177	190	190	187	182	85	98	93	85	87	90	80						
	Loc. Mean	229	209	184	187	198	198	194	88	105	95	97	79	93	92						
	C.D. (5%)	16.3	5.0	40.7	28.9	6.0	13.9	6.8	24.8	15.2	14.3	17.5	19.4	10.5	11.5						
	C.V. (%)	4.2	1.4	13.1	9.2	1.8	6.1	5.2	16.7	8.6	8.9	10.7	14.6	8.9	7.4						
	F (Prob.)	0.00	0.00	0.76	0.69	0.00	0.11	0.00	0.03	0.01	0.01	0.00	0.12	0.00	0.00						

Table No. 10 (Continued)

Sl No	PEDIGREE	EAR HEIGHT (cm)											Zone Mean	OV'L Mean	
		DHOL	JASH	VARA	RANC	AMBI	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND			COIM
1	JH-31240	79	56	100	88	81	84	95	107	80	98	85	105	95	88
2	JH-31242	85	70	95	98	103	91	83	107	85	107	105	121	101	96
3	BH-406126	77	42	80	92	87	76	90	78	69	92	102	100	88	82
4	BH-408005	83	64	120	92	109	93	97	108	87	112	95	108	101	99
5	EC-3160	78	63	105	91	104	90	94	97	90	95	97	110	97	93
6	KH-717	76	66	100	96	95	89	-	108	86	100	91	107	99	92
7	KH-9452	67	55	100	100	106	86	-	96	84	87	88	117	94	90
8	HYBRID VMH-4060	84	61	115	99	96	92	-	96	75	102	92	120	97	94
9	KMH-3712	87	62	120	98	112	94	78	107	85	110	95	118	99	98
10	BL-2802	80	68	135	101	98	96	94	107	82	92	92	114	97	95
11	MCH-37	85	68	120	97	97	95	82	97	83	102	97	113	95	98
CHECKS															
12	NAVJOT	79	57	95	97	91	85	96	83	77	93	90	107	91	88
13	HM-9	77	55	110	96	97	86	88	83	78	90	87	115	90	88
	Loc. Mean	80	61	107	96	98	89	69	98	82	98	93	112	96	92
	C.D. (5%)	12.5	6.6	-	16.2	19.9	8.4	10.6	12.9	5.8	25.2	14.5	5.6	7.9	5.0
	C.V. (%)	9.3	6.5	-	10.0	12.1	8.2	9.1	7.8	4.2	15.2	9.2	2.9	7.1	8.1
	F (Prob.)	0.17	0.00	0.00	0.88	0.15	0.00	0.00	0.00	0.00	0.63	0.27	0.00	0.03	0.00

Table No. 10 (Continued)

SI No	PEDIGREE	GRAIN SHELLING %											Zone		
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	JASH	VARA	RANC	AMBI	Zone Mean	ARBH	HYDE
1	JH-31240	86.2	84.3	84.9	85.7	73.0	82.9	77.5	78.1	81.5	87.5	84.0	81.7	83.7	77.9
2	JH-31242	83.6	83.3	85.6	83.3	73.5	82.0	78.4	78.8	77.5	86.2	83.3	80.8	81.9	81.2
3	BH-406126	84.7	84.9	81.6	83.3	72.5	81.4	70.7	79.0	78.5	85.0	84.6	79.6	81.4	76.4
4	BH-408005	83.0	83.9	82.3	83.3	75.0	81.5	76.4	80.1	78.0	85.7	83.7	80.8	83.0	75.6
5	EC-3160	82.5	84.9	83.8	85.7	74.5	82.3	73.4	78.0	80.0	83.3	83.6	79.7	83.6	77.8
6	KH-717	85.6	83.9	87.2	85.7	72.0	82.9	80.0	82.4	78.0	86.6	84.4	82.3	84.4	79.5
7	KH-9452	85.5	78.3	82.6	85.7	76.5	81.7	77.1	77.3	79.0	87.3	83.8	80.9	85.0	77.6
8	HYBRID VMH-4060	88.1	85.3	85.7	86.6	75.0	84.2	77.1	79.4	79.0	87.9	84.0	81.5	84.5	78.5
9	KMH-3712	86.7	87.3	84.0	87.5	76.0	84.4	74.1	77.9	77.0	88.2	84.6	80.3	84.2	76.0
10	BL-2802	83.9	79.3	80.8	85.7	72.5	80.5	76.4	78.2	75.0	87.5	82.3	79.9	79.6	75.0
11	MCH-37	82.1	84.5	86.1	83.3	76.0	82.4	77.8	78.8	77.5	88.2	83.3	81.1	81.2	74.5
	CHECKS														
12	NAVJOT	84.8	83.4	81.4	80.0	74.0	80.7	79.2	78.0	78.0	81.7	84.1	80.2	80.4	78.7
13	HM-9	83.0	82.3	84.6	78.6	77.0	81.1	73.3	77.4	76.0	86.1	84.4	79.4	81.5	74.0
	Loc. Mean	84.6	83.7	83.9	84.2	74.4	82.2	76.2	78.7	78.1	86.2	83.9	80.6	82.6	77.1
	C.D. (5%)	1.00	2.62	1.16	-	1.93	2.50	2.77	-	0.00	1.53	2.67	2.21	2.54	2.56
	C.V. (%)	0.70	1.85	0.82	-	1.54	2.39	2.16	-	0.00	1.05	1.89	2.15	1.82	1.97
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.06	0.00	-	0.00	0.00	0.91	0.26	0.00	0.00

Table No. 10 (Continued)

Sl No	PEDIGREE	GRAIN SHELLING %										STAND AT HARVEST ('000/ha)									
		KARI	KOLH	MAND	COIM	Zone Mean	CV'L Mean	DELH	KARN	LUDR	PANT	KANP	Zone Mean	BAHR	DHOL						
1	JH-31240	79.7	81.7	82.6	83.1	81.4	32.0	49	58	64	51	78	60	69	48						
2	JH-31242	70.7	85.0	82.8	83.2	80.8	31.2	58	58	71	63	77	65	73	50						
3	BH-406126	78.0	84.2	81.0	76.7	79.6	33.2	41	55	61	54	77	58	64	40						
4	BH-408005	72.0	84.8	82.4	80.5	79.7	30.6	30	53	60	48	78	54	61	38						
5	EC-3160	74.0	83.9	75.9	82.1	79.5	30.4	57	54	63	65	77	63	69	49						
6	KH-717	73.3	80.6	82.9	82.9	80.6	31.8	49	61	62	58	75	61	72	42						
7	KH-9452	73.7	85.2	81.5	78.5	80.2	30.9	56	63	70	62	78	66	74	48						
8	HYBRID VMH-4060	74.7	86.1	81.1	82.8	81.3	32.3	58	61	66	56	79	64	65	49						
9	KMH-3712	73.0	84.8	78.7	79.7	79.4	31.3	65	56	66	59	79	65	74	50						
10	BL-2802	71.3	81.0	76.0	74.3	76.2	29.7	48	61	66	60	76	62	72	48						
11	MCH-37	66.0	85.0	76.4	77.6	76.8	29.9	50	58	61	52	78	60	72	50						
CHECKS																					
12	NAVJOT	76.3	83.6	83.1	77.2	79.9	30.2	62	54	63	61	76	63	64	49						
13	HM-9	75.3	81.0	77.8	75.4	77.5	29.2	68	62	68	63	80	68	70	44						
	Loc. Mean	73.7	83.6	80.2	79.5	79.5	30.7	53	58	65	58	78	62	69	47						
	C.D. (5%)	4.77	3.44	3.28	1.15	2.55	1.42	14.2	5.0	5.0	10.6	2.4	5.9	3.6	5.6						
	C.V. (%)	3.84	2.44	2.43	0.86	2.78	2.51	15.9	5.2	4.6	10.9	1.8	7.5	3.1	7.1						
	F (Prob.)	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.01	0.00	0.00	0.00						

Table No. 10 (Continued)

SI	No	PEDIGREE	STAND AT HARVEST ('000/ha)											Zone		Zone	
			JASH	VARA	RANC	AMBI	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean		
1	JH-31240	55	73	59	58	60	53	60	60	54	55	66	58	59			
2	JH-31242	56	76	54	73	63	53	58	62	62	59	66	60	63			
3	BH-406126	56	71	60	65	59	45	54	40	40	50	67	53	56			
4	BH-403005	55	72	39	50	52	36	52	59	41	57	67	52	53			
5	EC-3150	54	77	40	61	58	48	53	60	66	57	66	58	60			
6	KH-717	54	76	52	58	59	45	54	60	56	55	67	56	59			
7	KH-9452	57	82	52	69	64	54	55	60	63	57	66	59	63			
8	HYBRID VMH-4060	55	80	55	59	60	55	51	61	55	57	66	57	60			
9	KMH-3712	56	79	55	68	64	55	57	61	57	57	66	59	62			
10	BL-2802	56	78	53	69	63	52	56	59	49	58	66	57	60			
11	MCR-37	54	78	54	62	62	51	56	61	51	58	66	57	59			
CHECKS																	
12	NAVJOT	54	76	49	61	59	41	53	60	64	57	66	57	60			
13	HM-9	58	78	49	68	61	60	51	61	61	58	66	60	63			
	Loc. Mean	55	77	52	63	60	50	55	60	55	57	66	57	60			
	C.D. (5%)	3.7	6.6	9.1	12.0	4.3	8.0	3.4	3.5	14.0	4.7	0.9	4.9	2.8			
	C.V. (8)	3.9	5.1	10.4	11.3	6.1	9.6	3.7	3.5	15.0	4.9	0.8	7.4	6.9			
	F (Prob.)	0.42	0.07	0.00	0.04	0.00	0.00	0.00	0.90	0.01	0.11	0.74	0.06	0.00			

TABLE No. 11
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS AT UDAIPUR, BANSWARA, GODHRA, CHHINDIWARA IN AET 1st YEAR,
 TRIAL No. TR6625 DURING KHARIF (2009).

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	ZN 5 GODH	R	UDAI	BANS	CHHI	ZN 5 MEAN	ZN 5 GODH
1	JH-31242	6098	5	5614	3	2973	6	4895	5	7036	2	59.7	13.7	50.3	36.8	35
2	EH-1858	7874	1	5227	5	3472	5	5524	3	5819	4	106.3	5.8	75.5	54.4	11.7
3	EH-1877	7614	2	5975	2	3632	3	5740	2	5620	5	99.5	21	83.6	60.4	7.8
4	BH-406126	6538	3	4888	7	2292	8	4572	8	3712	8	71.3	-	15.8	27.8	-
5	BH-408005	5796	7	4788	8	4776	2	5120	4	3222	9	51.8	-	141.4	43.1	-
6	KMH-3712	5943	6	6270	1	5184	1	5799	1	7866	1	55.7	27	162	62.1	50.9
7	BL-2802	5351	8	5451	4	3590	4	4797	6	6083	3	40.2	10.4	81.5	34.1	16.7
CHECKS																
8	NAVJOT	3817	9	4939	6	1978	9	3578	9	5212	6	-	-	-	-	-
9	HM-9	6503	4	4324	9	2965	7	4598	7	4331	7	70.4	-	49.9	28.5	-
Location Mean																
	Mean Stand	6170	60	5275	60	3429	79	4958	66	57						
	C.D. (5%)	925	461	501	501	629	1420									
	C.V. (%)	8.61	5.03	8.39	8.39	15.02	15.02									
	F (Prob)	0	0	0	0	0	0									
	Plot Size	9.6	9.6	12	12	9.6	9.6									
AGRONOMY DATA																
	Sowing Date	24-06	8-07	14-07	14-07											
	Harvest Date	1-10	25-10	9-11	9-11											
	Irrigation Nos	2	2	-	-											
	Fertilizer Applied N	90	120	120	120											
	Fertilizer Applied P	60	40	60	60											
	Fertilizer Applied K	-	-	40	40											

TABLE No. 11 (Cont..)

S1 No	PEDIGREE	DAYS TO 50% POLLEN SHED					GRAIN YIELD & SUPER. OVER HM-9				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	ZN 5 MEAN	ZN 5 GODH
1	JH-31242	54.7	47.7	52.7	51.7	49.3	-	29.8	0.3	6.5	62.5
2	EH-1858	51.0	48.0	55.0	51.3	51.3	21.1	20.9	17.1	20.2	34.4
3	EH-1877	51.0	46.7	54.7	50.8	50.7	17.1	38.2	22.5	24.9	29.8
4	BH-406126	56.3	50.7	56.0	54.3	52.3	0.5	13	-	-	-
5	BH-408005	60.0	48.3	55.7	54.7	54.7	-	10.7	61.1	11.4	-
6	KMH-3712	54.7	49.3	52.0	52.0	49.7	-	45	74.8	26.1	81.6
7	BL-2802	56.0	48.3	56.0	53.4	52.0	-	26.1	21.1	4.3	40.4
CHECKS											
8	NAVJOT	53.3	46.0	51.0	50.1	47.7	-	14.2	-	-	20.3
9	HM-9	55.3	49.0	52.0	52.1	49.0	-	-	-	-	-
Loc. Mean											
C.D. (5%)											
C.V. (%)											
F (Prob.)											
DAYS TO 50% SILKING											
S1 No	PEDIGREE	UDAI	BANS	CHHI	Zone Mean	GODH	DAYS TO 75% DRY HUSK				
							UDAI	BANS	CHHI	Zone Mean	GODH
1	JH-31242	56.7	50.7	54.7	54.0	50.7	88.7	76.7	85.7	83.7	77.7
2	EH-1858	52.0	51.3	55.7	53.0	51.3	90.7	79.0	87.0	85.6	79.7
3	EH-1877	52.3	50.0	56.0	52.8	51.0	90.7	73.7	87.7	84.0	78.0
4	BH-406126	58.3	54.0	57.7	56.7	53.3	89.7	80.7	88.0	86.1	76.7
5	BH-408005	62.7	51.7	56.3	56.9	54.3	93.7	75.7	89.3	86.2	75.3
6	KMH-3712	55.7	53.3	52.0	53.7	49.7	88.7	80.0	89.3	86.0	72.7
7	BL-2802	57.3	51.3	56.3	55.0	52.0	84.3	78.3	87.3	83.3	76.7
CHECKS											
8	NAVJOT	56.7	49.7	53.0	53.1	49.7	86.0	75.7	82.7	81.4	77.3
9	HM-9	57.3	52.0	54.0	54.4	50.7	91.0	80.0	86.7	85.9	75.0
Loc. Mean											
C.D. (5%)											
C.V. (%)											
F (Prob.)											

TABLE No. 11 (Cont..)

Sl No	PEDIGREE	MOISTURE & AT HARVEST					PLANT HEIGHT (cm.)					EAR HEIGHT (cm.)				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	Zone Mean	GODH	
																UDAI
1	JH-31242	24.5	15.9	17.3	19.2	38.5	170	188	182	180	186	82	85	84	88	
2	EH-1858	21.1	15.5	14.4	17.0	35.9	188	196	205	196	177	90	95	93	83	
3	EH-1877	20.1	15.6	18.2	18.0	35.9	180	195	207	194	184	90	84	87	87	
4	BH-406126	24.2	16.2	16.8	19.1	38.5	152	166	165	161	195	68	80	74	95	
5	BH-408005	22.8	15.9	19.2	19.3	37.8	198	175	194	189	181	100	76	88	83	
6	KMH-3712	26.2	15.7	18.0	20.0	37.4	182	203	196	194	180	83	84	84	76	
7	BL-2802	21.4	16.0	17.1	18.2	36.3	197	205	204	202	176	95	95	95	81	
CHECKS																
8	NAVJOT	22.6	15.4	14.1	17.4	38.2	158	198	187	181	183	77	81	79	90	
9	HM-9	21.3	15.9	14.2	17.1	35.5	178	186	185	183	181	73	67	70	85	
	Loc. Mean	22.7	15.8	16.6	18.4	37.1	178	190	192	187	182	84	83	84	85	
	C.D. (5%)	2.31	0.33	1.03	2.47	-	26.1	4.0	17.7	15.6	15.9	20.4	4.5	16.6	15.3	
	C.V. (%)	5.89	1.21	3.59	7.77	-	8.5	1.2	5.3	4.8	5.05	14.0	3.1	8.6	10.4	
	F (Prob.)	0.00	0.00	0.00	0.17	0.00	0.02	0.00	0.00	0.00	0.40	0.07	0.00	0.10	0.38	
STAND AT HARVEST ('000/ha)																
Sl No	PEDIGREE	UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean		
															UDAI	BANS
		UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean							
1	JH-31242	82.0	69.3	81.3	77.5	77.7	73	63	69	68	68	68	68	68		
2	EH-1858	82.8	69.1	83.8	78.5	75.6	68	61	69	66	66	66	66	66		
3	EH-1877	81.5	72.9	80.7	78.4	74.7	65	65	66	65	65	65	65	65		
4	BH-406126	84.1	70.9	81.0	78.6	75.2	46	61	66	58	58	58	58	58		
5	BH-408005	80.1	68.2	81.8	76.7	75.8	49	60	48	52	52	52	52	52		
6	KMH-3712	81.7	73.6	80.1	78.4	78.6	73	65	69	69	69	69	69	69		
7	BL-2802	79.3	72.8	80.0	77.4	74.6	65	64	69	66	66	66	66	66		
CHECKS																
8	NAVJOT	82.7	71.6	83.7	79.3	80.1	56	63	68	62	62	62	62	62		
9	HM-9	82.6	67.3	82.5	77.5	65.6	66	63	66	65	65	65	65	65		
	Loc. Mean	81.8	70.6	81.6	78.0	75.3	62	63	66	64	64	64	64	64		
	C.D. (5%)	2.84	1.57	2.63	3.30	0.00	6.15	2.56	6.27	9.35	9.35	9.35	9.35	9.35		
	C.V. (%)	2.00	1.28	1.86	2.44	0.00	5.71	2.35	5.51	8.50	8.50	8.50	8.50	8.50		
	F (Prob.)	0.07	0.00	0.05	0.80	0.00	0.00	0.01	0.00	0.03	0.03	0.03	0.03	0.03		

TABLE NO. 12
 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, BARAPANI MEGHALAYA, KANGRA
 IN AET 1st YEAR, TRIAL No. TR67Z1 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE PARKASH						GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-4					
		ALMO	R	BAJA	R	KANG	R	MEAN	R	ALMO	BAJA	KANG	MEAN	ZN 1	ALMO	BAJA	KANG	MEAN	ZN 1
1	COMP.R-2006-1	9116	1	6990	1	7439	1	7848	1	10.7	9.9	25.5	14.7	40	35.7	53.5	42.6		
2	UMC-10	6956	5	6743	2	6507	4	6735	4	-	6	9.8	-	6.8	31	34.3	22.4		
3	KML-9	7408	4	6184	4	5968	5	6520	6	-	-	0.7	-	13.8	20.1	23.2	18.5		
4	KML-15	6857	6	5492	6	7278	2	6542	5	-	-	22.8	-	5.3	6.7	50.2	18.9		
	CHECKS																		
5	PARKASH	8237	2	6360	3	5928	6	6842	2	-	-	-	-	26.5	23.5	22.3	24.3		
6	PRATAP MAKKA-4	6512	7	5149	7	4845	7	5502	7	-	-	-	-	-	-	-	-		
7	PRATAP MAKKA-5	7563	3	6046	5	6865	3	6825	3	-	-	15.8	-	16.1	17.4	41.7	24		
	Location Mean	7521		6138		6404		6688											
	Mean Stand	56		59		51		55											
	C.D. (5%)	534		748		854		712											
	C.V. (%)	4.76		8.17		7.42		-											
	F (Prob)	0		0		0		-											
	Plot Size	9.6		8.4		7.2		-											
	AGRONOMY DATA																		
	Sowing Date	1-07		1-07		29-06		-											
	Harvest Date	3-11		27-10		9-10		-											
	Irrigation Nos	-		3		-		-											
	Fertilizer Applied N	80		120		120		-											
	Fertilizer Applied P	60		60		60		-											
	Fertilizer Applied K	40		40		40		-											

GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5		
		ALMO	BAJA	KANG
1	COMP.R-2006-1	20.5	15.6	8.4
2	UMC-10	-	11.5	-
3	KML-9	-	2.3	-
4	KML-15	-	-	6
	CHECKS			
5	PARKASH	8.9	5.2	-
6	PRATAP MAKKA-4	-	-	0.3
7	PRATAP MAKKA-5	-	-	-

TABLE No. 12 (Cont...)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					Zone Mean
		ALMO	BAJA	BARA	KANG	Zone Mean	ALMO	BAJA	BARA	KANG	Zone Mean	
1	COMP.R-2006-1	62.3	59.8	56.8	50.7	57.4	63.5	62.8	59.0	53.3	59.6	
2	UMC-10	55.3	54.8	56.3	49.7	54.0	56.5	56.8	58.5	52.7	56.1	
3	KML-9	63.0	59.0	56.0	47.7	56.4	63.5	62.0	58.3	50.7	58.6	
4	KML-15	55.8	56.8	56.5	49.7	54.7	56.8	58.8	58.5	52.7	56.7	
	CHECKS											
5	PARKASH	55.3	56.8	58.0	48.0	54.5	55.3	58.8	60.3	51.3	56.4	
6	PRATAP MAKKA-4	56.5	55.8	57.3	48.3	54.5	57.5	58.3	59.5	52.3	56.9	
7	PRATAP MAKKA-5	56.0	55.3	57.3	49.7	54.5	57.0	57.8	60.0	52.3	56.8	
	Loc. Mean	57.7	56.9	56.9	49.1	55.1	58.6	59.3	59.1	52.2	57.3	
	C.D. (5%)	1.06	2.47	7.05	1.01	2.78	1.01	2.84	7.08	1.03	2.89	
	C.V. (%)	1.23	2.92	8.35	1.16	3.39	1.16	3.23	8.06	1.11	3.39	
	F (Prob.)	0.00	0.00	1.00	0.00	0.16	0.00	0.00	0.99	0.00	0.15	

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST					Zone Mean
		ALMO	BAJA	BARA	KANG	Zone Mean	ALMO	BAJA	BARA	KANG	Zone Mean	
1	COMP.R-2J06-1	110.3	105.8	98.0	84.7	99.7	37.2	27.8	21.5	26.2	28.2	
2	UMC-10	95.3	93.5	99.3	86.3	93.6	31.3	20.9	21.8	24.8	24.7	
3	KML-9	110.5	104.5	98.3	86.7	100.0	37.7	26.8	22.0	25.7	28.0	
4	KML-15	101.0	99.8	98.0	85.7	96.1	32.8	24.5	20.8	26.1	26.0	
	CHECKS											
5	PARKASH	98.0	90.0	101.0	84.7	93.4	29.3	19.6	21.8	25.5	24.0	
6	PRATAP MAKKA-4	97.8	92.8	99.0	85.3	93.7	32.3	25.6	21.0	25.0	26.0	
7	PRATAP MAKKA-5	98.3	96.3	98.8	85.7	94.7	29.1	23.8	22.0	24.7	24.9	
	Loc. Mean	101.6	97.5	98.9	85.6	95.9	32.8	24.1	21.5	25.4	26.0	
	C.D. (5%)	1.54	2.21	8.80	1.68	5.73	1.64	1.51	1.01	1.90	2.85	
	C.V. (%)	1.02	1.53	5.99	1.10	4.02	3.37	4.22	3.15	4.20	7.39	
	F (Prob.)	0.00	0.00	0.99	0.15	0.09	0.00	0.00	0.11	0.50	0.04	

TABLE No. 12 (Cont...)

Sl No	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				Zone Mean
		ALMO	BAJA	KANG	Zone Mean	ALMO	BAJA	BARA	KANG	
1	COMP. R-2006-1	257	188	204	216	139	88	56	118	100
2	UMC-10	264	179	215	219	155	89	60	106	102
3	KML-9	231	168	232	210	125	91	59	112	97
4	KML-15	245	168	239	217	127	83	56	122	97
CHECKS										
5	PARKASH	262	186	228	225	148	96	59	102	101
6	PRATAP MAKKA-4	255	177	235	222	141	91	56	110	99
7	PRATAP MAKKA-5	268	189	234	230	155	94	55	114	104
	Loc. Mean	255	179	227	220	141	90	57	112	100
	C.D. (5%)	8.7	20.9	10.7	20.8	9.8	16.8	12.2	9.6	11.6
	C.V. (%)	2.3	7.9	2.7	5.3	4.7	12.5	14.3	4.8	7.8
	F (Prob.)	0.00	0.22	0.00	0.52	0.00	0.77	0.95	0.01	0.79

Sl No	PEDIGREE	GRAIN SHELLING %				STAND AT HARVEST ('000/ha)				Zone Mean
		ALMO	BAJA	BARA	KANG	ALMO	BAJA	BARA	KANG	
1	COMP. R-2006-1	84.4	79.5	77.8	85.0	59	70	45	74	62
2	UMC-10	84.9	78.0	80.5	84.0	60	72	48	73	63
3	KML-9	87.0	79.7	77.8	81.5	60	68	41	69	60
4	KML-15	82.3	77.6	80.5	80.5	60	70	48	74	63
CHECKS										
5	PARKASH	87.1	82.2	79.5	82.5	56	73	46	72	62
6	PRATAP MAKKA-4	87.9	78.6	79.8	81.5	57	70	42	68	59
7	PRATAP MAKKA-5	86.5	81.1	80.0	83.5	56	68	46	70	60
	Loc. Mean	85.7	79.5	79.4	82.6	58	70	45	71	61
	C.D. (5%)	1.44	0.00	7.58	1.91	4.1	7.3	11.5	5.1	2.8
	C.V. (%)	1.13	0.00	6.43	1.30	4.7	7.0	17.2	4.0	3.1
	F (Prob.)	0.00	0.00	0.97	0.00	0.11	0.68	0.80	0.12	0.03

TABLE No. 13
 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT DMR DELHI LUDHIANA, KARNAL, PANTNAGAR, KANPUR IN AET
 1st YEAR, TRIAL No. TR67Z2 DURING KHARIF (2009).

Sl	NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD & SUPERIORITY OVER THE PARKASH											
		DELH	R	KARN	R	PANT	R	KANP	R	ZN 2 MEAN	R	RAIN LUDH	R	DELH	KARN	PANT	KANP	ZN 2 MEAN	RAIN LUDH						
1	COMP.R-2006-1	4590	2	4691	3	7480	3	6616	3	5844	3	5345	6	-	0.9	-	22.4	-	-						
2	COMP.R-2007-1	4349	3	6310	1	9498	1	7258	1	6854	1	5611	2	-	35.8	14.8	34.3	11.3	-						
3	UMC-10	1825	9	4488	6	6968	5	6613	4	4973	7	5357	5	-	-	-	22.3	-	-						
4	UMC-11	3372	6	4547	5	7119	4	6236	7	5319	5	5464	3	-	-	-	15.4	-	-						
5	UMC-12	4102	4	4952	2	5979	7	6306	6	5335	4	5360	4	-	6.5	-	16.7	-	-						
6	KML-9	2999	8	3748	9	6321	6	6546	5	4903	8	4370	9	-	-	-	21.1	-	-						
CHECKS																									
7	PARKASH	6318	1	4648	4	8270	2	5406	8	6160	2	7331	1	-	-	-	-	-	-						
8	PRATAP MAKKA-4	3127	7	4122	8	5692	8	3581	9	4131	9	4422	8	-	-	-	-	-	-						
9	PRATAP MAKKA-5	3958	5	4247	7	5139	9	6829	2	5043	6	4655	7	-	-	-	26.3	-	-						
	Location Mean	3849		4639		6941		6155		5396		5324													
	Mean Stand	62		68		72		73		69		64													
	C.D. (5%)	1191		497		1335		2182		1301		720													
	C.V. (%)	17.78		7.33		13.15		20.37		-		9.25													
	F (Prob)	0		0		0		0.049		-		0													
	Plot Size	11.2		12		12		9.6		-		10.92													
AGRONOMY DATA																									
	Sowing Date	7-06		29-06		1-08		14-07		-		24-07													
	Harvest Date	10-09		25-09		18-11		6-11		-		27-10													
	Irrigation Nos	4		5		-		2		-		-													
	Fertilizer N	150		150		120		80		-		80													
	Fertilizer P	75		60		60		40		-		40													
	Fertilizer K	75		60		40		40		-		-													

Table No. 13 (Continued)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-4					GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5					2N 2	
		DELH	KARN	PANT	KANP	RAIN LUDH	DELH	KARN	PANT	KANP	RAIN LUDH	MEAN	RAIN LUDH
1	COMP.R-2006-1	46.8	13.8	31.4	84.7	41.5	20.9	16	10.5	45.6	-	15.9	14.8
2	COMP.R-2007-1	39.1	53.1	66.9	102.7	65.9	26.9	9.9	48.6	84.8	6.3	35.9	20.5
3	UMC-10	-	8.9	22.4	84.7	20.4	21.2	-	5.7	35.6	-	-	15.1
4	UMC-11	7.8	10.3	25.1	74.1	28.8	23.6	-	7.1	38.5	-	5.5	17.4
5	UMC-12	31.2	20.1	5	76.1	29.1	21.2	3.6	16.6	16.4	-	5.8	15.2
6	KML-9	-	-	11	82.8	18.7	-	-	-	23	-	-	-
CHECKS													
7	PARKASH	102	12.8	45.3	50.9	49.1	65.8	59.6	9.4	60.9	-	22.2	57.5
8	PRATAP MAKKA-4	-	-	-	-	-	-	-	-	10.8	-	-	-
9	PRATAP MAKKA-5	26.5	3	-	90.7	22.1	5.3	-	-	-	-	-	-

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					Zone	
		DELH	KARN	PANT	KANP	RAIN LUDH	DELH	KARN	PANT	KANP	RAIN LUDH	Mean	RAIN LUDH
1	COMP.R-2006-1	53.3	51.3	55.8	55.0	53.8	50.0	51.0	53.5	59.0	60.0	55.9	51.0
2	COMP.R-2007-1	53.0	50.5	54.8	54.7	53.2	50.8	56.0	52.8	57.5	59.7	56.5	51.8
3	UMC-10	47.3	42.8	50.3	51.7	48.0	49.5	50.3	45.3	52.5	57.3	51.4	50.5
4	UMC-11	48.7	45.0	50.5	55.3	49.9	49.5	51.0	47.0	53.0	60.7	52.9	50.5
5	UMC-12	47.7	44.0	50.3	50.7	48.1	50.3	51.0	46.0	52.5	56.3	51.5	51.3
6	KML-9	52.7	52.5	57.5	53.7	54.1	50.3	52.3	54.5	59.8	59.0	56.4	51.3
CHECKS													
7	PARKASH	47.0	43.8	49.8	51.7	48.0	49.3	53.0	46.0	51.8	57.0	51.9	50.3
8	PRATAP MAKKA-4	49.7	47.0	50.5	51.7	49.7	49.5	55.7	49.5	52.8	57.0	53.7	50.5
9	PRATAP MAKKA-5	48.7	46.3	50.3	54.7	50.0	49.5	53.0	48.5	53.0	59.7	53.5	50.5
Loc. Mean													
		49.8	47.0	52.2	53.2	50.5	49.8	52.6	49.2	54.6	58.5	53.7	50.8
C.D. (5%)		3.58	3.19	1.75	0.91	2.08	0.93	6.35	3.18	2.10	1.15	2.97	0.93
C.V. (%)		4.16	4.65	2.30	0.99	2.82	1.28	6.98	4.42	2.64	1.13	3.78	1.26
F (Prob.)		0.00	0.00	0.00	0.00	0.00	0.04	0.50	0.00	0.00	0.00	0.00	0.04

TABLE NO. 14
 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI, AMBIKAPUR,
 ARBHVI, HYDERABAD, KARIMNAGAR, KOLHAPUR, MANDYA, COIMBATORE IN AET 1st YEAR, TRIAL No. TR67Z-3,4 DURING KHARIF(2009).
 GRAIN YIELD (kg/ha) AT 15% MOISTURE

SI No	PEDIGREE	ZN 3																	
		BAHR	R	DHOL	R	JASH	R	VARA	R	RANC	R	AMBI	R	MEAN	R	ARBH	R	HYDE	R
1	COMP.R-2006-1	5560	4	3808	4	5226	1	3620	5	6275	1	5689	3	5030	3	5863	1	5224	3
2	COMP.R-2007-1	6970	1	4631	3	4854	2	5373	1	5948	2	5663	4	5573	1	5382	3	5243	2
3	UMC-10	6278	2	3739	5	3853	6	4526	3	5803	3	5973	2	5029	4	5373	4	4822	6
4	UMC-11	5830	3	4977	2	4619	3	2958	8	4795	8	5573	5	4792	5	5296	5	5324	1
5	KML-9	5015	6	3583	7	4096	5	3758	4	5784	4	5512	6	4625	6	5420	2	4749	7
CHECKS																			
6	PARKASH	5361	5	5044	1	4411	4	5169	2	5451	6	6266	1	5284	2	5213	6	4956	5
7	PRATAP MAKKA-4	4066	8	3709	6	3312	7	3309	6	5682	5	4693	8	4129	7	4541	8	5042	4
8	PRATAP MAKKA-5	4541	7	3385	8	3145	8	3099	7	5266	7	5082	7	4086	8	4778	7	4326	8
	Location Mean	5453		4109		4190		3976		5625		5556		4818		5233		4961	
	Mean Stand	67		53		52		68		56		69		61		62		66	
	C.D. (5%)	441		857		130		363		984		664		573		554		837	
	C.V. (%)	5.48		14.13		2.1		6.19		11.86		8.1		-		7.18		11.45	
	F (Prob)	0		0		0		0		0.005		0		-		0.002		0.155	
	Plot Size	9.6		12		9.6		9.6		11.2		9.6		-		12		12	
AGRONOMY DATA																			
	Sowing Date	4-07		7-07		27-07		9-07		7-07		18-07		-		17-07		6-07	
	Harvest Date	13-10		-		7-11		15-10		19-10		-		-		10-11		16-11	
	Irrigator. Nos	-		-		-		1		-		-		-		6		2	
	Fertilizer Applied N	120		120		120		100		-		80		-		150		180	
	Fertilizer Applied P	60		60		60		60		-		50		-		75		60	
	Fertilizer Applied K	60		40		60		40		-		30		-		37.5		50	

TABLE No. 14 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD & SUPERIORITY OVER THE PARKASH					
		KARI	R	KOLH	R	MAND	R	COIM	R	ZN 4	OV'L	BAHR	DHOL	JASH	VARA		
1	COMP.R-2006-1	6112	1	5792	7	8535	1	10452	2	6996	2	6013	2	3.7	-	18.5	-
2	COMP.R-2007-1	5812	3	5835	6	8322	2	11880	1	7079	1	6326	1	30	-	10	3.9
3	UMC-10	2752	8	6860	2	6815	7	8402	5	5837	6	5433	5	17.1	-	-	-
4	UMC-11	6038	2	6389	3	7911	3	8823	4	6630	3	5711	4	8.8	-	4.7	-
5	KML-9	3043	6	6225	4	6374	8	9286	3	5850	5	5237	6	-	-	-	-
CHECKS																	
6	PARKASH	5188	4	6870	1	7615	4	8114	7	6326	4	5805	3	-	-	-	-
7	PRATAP MAKKA-4	3380	5	5169	8	6965	6	7876	8	5495	8	4812	8	-	-	-	-
8	PRATAP MAKKA-5	2944	7	6139	5	7116	5	8262	6	5594	7	4840	7	-	-	-	-
	Location Mean	4409		6160		7457		9137		6226		5522					
	Mean Stand	72		71		64		64		67		64					
	C.D. (5%)	358		990		689		596		671		622					
	C.V. (%)	5.51		10.9		6.27		4.42		-		-					
	F (Prob)	0		0.012		0		0		-		-					
	Plot Size	12		9.6		11.2		9.6		-		-					
AGRONOMY DATA																	
	Sowing Date	12-07		19-07		22-07		9-07		-		-					
	Harvest Date	9-10		4-12		29-11		5-11		-		-					
	Irrigation Nos	-		-		6		10		-		-					
	Fertilizer Applied N	200		100		150		150		-		-					
	Fertilizer Applied P	80		50		75		75		-		-					
	Fertilizer Applied K	60		30		40		75		-		-					

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARKASH										OV'L			
		RANC	AMBI	ZN 3	MEAN	ARBH	HYDE	KARI	KOLH	MAND	COIM	ZN 4	MEAN	OV'L	MEAN
1	COMP.R-2006-1	15.1	-	-	-	12.5	5.4	17.8	-	12.1	28.8	10.6	3.6	-	-
2	COMP.R-2007-1	9.1	-	5.5	5.8	3.2	5.8	12	-	9.3	46.4	11.9	9	-	-
3	UMC-10	6.5	-	-	-	3.1	-	-	-	-	3.5	-	-	-	-
4	UMC-11	-	-	-	7.4	1.6	7.4	16.4	-	3.9	8.7	4.8	-	-	-
5	KML-9	6.1	-	-	-	4	-	-	-	-	14.4	-	-	-	-
CHECKS															
6	PARKASH	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	PRATAP MAKKA-4	4.2	-	-	1.7	-	-	-	-	-	-	-	-	-	-
8	PRATAP MAKKA-5	-	-	-	-	-	-	-	-	-	1.8	-	-	-	-

TABLE No. 14 (Cont..)

GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-4														
ZN 3														
Sl	NO	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN	ARBH	HYDE	KARI	KOLH	MAND
	1	COMP.R-2006-1	36.7	2.7	57.8	9.4	10.4	21.2	21.8	29.1	3.6	80.8	12	22.5
	2	COMP.R-2007-1	71.4	24.9	46.5	62.4	4.7	20.7	35	18.5	4	72	12.9	19.5
	3	UMC-10	54.4	0.8	16.3	36.8	2.1	27.3	21.8	18.3	-	-	32.7	-
	4	UMC-11	43.4	34.2	39.5	-	-	18.7	16.1	16.6	5.6	78.7	23.6	13.6
	5	KML-9	23.3	-	23.7	13.6	1.8	17.4	12	19.4	-	-	20.4	-
		CHECKS												
	6	PARKASH	31.8	36	33.2	56.2	-	33.5	28	14.8	-	53.5	32.9	9.3
	7	PRATAP MAKKA-4	-	-	-	-	-	-	-	-	-	-	-	-
	8	PRATAP MAKKA-5	11.7	-	-	-	-	8.3	-	5.2	-	-	18.7	2.2

GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5														
ZN 3														
Sl	NO	PEDIGREE	COIM	MEAN	OV'L	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN	ARBH	HYDE
	1	COMP.R-2006-1	52.7	27.3	25	22.4	12.5	66.2	16.8	19.2	12	23.1	22.7	20.7
	2	COMP.R-2007-1	50.8	28.8	31.5	53.5	36.8	54.3	73.4	13	11.4	36.4	12.7	21.2
	3	UMC-10	6.7	6.2	12.9	38.2	10.5	22.5	46	10.2	17.5	23.1	12.5	11.5
	4	UMC-11	12	20.6	18.7	28.4	47	46.9	-	-	9.7	17.3	10.8	23.1
	5	KML-9	17.9	6.4	8.8	10.4	5.8	30.2	21.3	9.8	8.5	13.2	13.5	9.8
		CHECKS												
	6	PARKASH	3	15.1	20.6	18	49	40.2	66.8	3.5	23.3	29.3	9.1	14.6
	7	PRATAP MAKKA-4	-	-	-	-	9.6	5.3	6.8	7.9	-	1	-	16.5
	8	PRATAP MAKKA-5	4.9	1.8	0.6	-	-	-	-	-	-	-	-	-

TABLE No. 14 (Cont...)

GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5																
Sl No	PEDIGREE	ZN 4				OV'L				DAYS TO 50% POLLEN SHED					Zone	
		KARI	KOLH	MAND	COIM	MEAN	MEAN	MEAN	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	Mean
1	COMP.R-2006-1	107.6	-	19.9	26.5	25.1	24.2	53.8	57.5	52.5	57.8	51.0	52.8	54.2		
2	COMP.R-2007-1	97.4	-	17	43.8	26.5	30.7	50.8	56.8	49.5	53.0	51.0	52.5	52.3		
3	UMC-10	-	11.7	-	1.7	4.3	12.2	49.3	48.3	42.8	46.8	45.8	47.0	46.6		
4	UMC-11	105.1	4.1	11.2	6.8	18.5	18	48.3	49.8	42.5	50.3	44.3	50.8	47.6		
5	KML-9	3.4	1.4	-	12.4	4.6	8.2	51.0	58.3	52.5	54.5	49.3	52.8	53.0		
CHECKS																
6	PARKASH	76.2	11.9	7	-	13.1	19.9	46.5	49.3	42.5	50.0	45.8	49.3	47.2		
7	PRATAP MAKKA-4	14.8	-	-	-	-	-	50.5	49.8	43.5	49.3	45.5	49.8	48.0		
8	PRATAP MAKKA-5	-	-	-	-	-	-	50.5	48.8	43.3	48.0	45.3	48.0	47.3		
Loc. Mean																
C.D. (5%)																
C.V. (%)																
F (Prob.)																
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00																

DAYS TO 50% POLLEN SHED																
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				OV'L				DAYS TO 50% SILKING					Zone	
		AREH	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN	BAHR	DHOL	JASH	VARA	RANC	Mean	Mean
1	COMP.R-2006-1	57.8	45.3	53.8	53.3	52.5	53.3	52.6	53.4	55.8	58.8	55.0	61.5	55.0		
2	COMP.R-2007-1	57.0	47.5	51.3	53.0	51.8	52.8	52.2	52.2	50.3	57.8	52.3	57.5	55.0		
3	UMC-10	50.3	49.3	46.0	49.5	44.8	45.8	47.6	47.1	51.0	49.3	44.8	52.0	49.8		
4	UMC-11	51.3	50.3	45.3	49.8	45.3	45.8	47.9	47.8	50.3	50.8	44.8	56.3	48.3		
5	KML-9	57.5	51.5	54.8	53.3	52.5	53.3	53.8	53.4	53.0	59.3	55.3	59.8	53.3		
CHECKS																
6	PARKASH	51.8	49.3	47.3	50.0	47.0	46.0	48.5	47.9	48.5	50.3	44.5	53.5	49.8		
7	PRATAP MAKKA-4	51.5	49.3	46.0	51.0	46.3	46.0	48.3	48.2	52.5	50.8	45.5	55.3	49.5		
8	PRATAP MAKKA-5	50.5	48.8	46.5	49.0	44.8	47.0	47.8	47.5	52.8	49.8	45.0	54.3	49.3		
Loc. Mean																
C.D. (5%)																
C.V. (%)																
F (Prob.)																
1.27 1.79 1.16 2.02 1.48 0.55 2.26 1.44 3.09 1.77 1.61 2.91 3.54																
1.61 2.50 1.62 2.69 2.09 0.76 3.87 3.55 4.06 2.26 2.27 3.52 4.70																
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.00																

TABLE No. 14 (Cont...)

Sl No	PEDIGREE	DAYS TO 50% SILKING										DAYS TO 75% DRY HUSK														
		Zone Mean					Zone Mean					Zone Mean					Zone Mean									
		AMBI	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	BAHR	DHOL
1	COMP.R-2006-1	55.8	57.0	58.8	49.0	56.0	54.5	53.8	55.3	54.5	53.8	55.3	54.5	55.8	90.0	92.5	94.5	90.0	92.5	94.5	90.0	92.5	94.5	90.0	92.5	94.5
2	COMP.R-2007-1	55.3	54.7	58.3	52.0	53.5	54.0	53.5	54.8	54.3	53.5	54.8	54.3	54.5	84.0	93.8	91.8	84.0	93.8	91.8	84.0	93.8	91.8	84.0	93.8	91.8
3	UMC-10	49.5	49.4	50.5	50.8	47.8	50.5	46.3	47.8	48.9	46.3	47.8	48.9	49.1	78.0	84.3	83.5	78.0	84.3	83.5	78.0	84.3	83.5	78.0	84.3	83.5
4	UMC-11	53.3	50.6	52.5	50.8	47.3	50.8	46.5	47.8	49.3	46.5	47.8	49.3	49.9	80.5	85.3	84.8	80.5	85.3	84.8	80.5	85.3	84.8	80.5	85.3	84.8
5	KML-9 CHECKS	55.3	56.0	58.3	53.0	56.8	54.3	54.5	55.3	55.3	54.5	55.3	55.3	55.6	86.5	89.8	91.8	86.5	89.8	91.8	86.5	89.8	91.8	86.5	89.8	91.8
6	PARKASH	52.0	49.8	51.3	51.8	48.5	51.0	49.0	48.0	49.9	49.0	48.0	49.9	49.8	79.3	87.3	87.0	79.3	87.3	87.0	79.3	87.3	87.0	79.3	87.3	87.0
7	PRATAP MAKKA-4	52.8	51.0	52.0	51.5	47.5	52.0	48.3	48.0	49.9	48.3	48.0	49.9	50.5	86.3	84.0	83.3	86.3	84.0	83.3	86.3	84.0	83.3	86.3	84.0	83.3
8	PRATAP MAKKA-5	51.0	50.3	51.0	51.0	48.0	50.0	46.0	49.0	49.2	46.0	49.0	49.2	49.8	85.3	82.5	83.8	85.3	82.5	83.8	85.3	82.5	83.8	85.3	82.5	83.8
	Loc. Mean	53.1	52.3	54.1	51.2	50.7	52.1	49.7	50.7	51.4	49.7	50.7	51.4	51.9	83.7	87.4	87.5	83.7	87.4	87.5	83.7	87.4	87.5	83.7	87.4	87.5
	C.D. (5%)	0.97	2.11	0.98	1.74	1.41	2.02	1.83	0.55	2.00	1.83	0.55	2.00	1.40	4.88	1.61	2.10	4.88	1.61	2.10	4.88	1.61	2.10	4.88	1.61	2.10
	C.V. (%)	1.24	3.43	1.24	2.31	1.90	2.64	2.51	0.73	3.32	2.51	0.73	3.32	3.32	3.96	1.25	1.63	3.96	1.25	1.63	3.96	1.25	1.63	3.96	1.25	1.63
	F (Prob.)	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Sl No	PEDIGREE	DAYS TO 75% DRY HUSK										Zone Mean															
		Zone Mean					Zone Mean					Zone Mean					Zone Mean										
		VARA	RANC	AMBI	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	BAHR
1	COMP.R-2006-1	92.0	92.7	90.0	91.9	92.3	85.8	76.3	90.5	95.0	76.3	90.5	95.0	102.0	90.3	91.1	90.3	92.3	85.8	76.3	90.5	95.0	102.0	90.3	91.1	90.3	91.1
2	COMP.R-2007-1	90.3	92.3	86.5	89.8	94.0	86.5	75.5	90.3	98.3	75.5	90.3	98.3	102.0	91.1	90.4	91.1	90.4	86.5	75.5	90.3	98.3	102.0	91.1	90.4	91.1	90.4
3	UMC-10	86.8	90.8	79.5	83.8	84.5	86.8	71.8	85.0	87.0	71.8	85.0	87.0	96.0	85.2	84.5	85.2	84.5	86.8	71.8	85.0	87.0	96.0	85.2	84.5	85.2	84.5
4	UMC-11	89.8	90.5	81.3	85.3	85.5	85.3	73.3	87.0	89.3	73.3	87.0	89.3	97.0	86.2	85.8	86.2	85.8	89.8	90.5	81.3	85.3	97.0	86.2	85.8	86.2	85.8
5	KML-9 CHECKS	91.0	91.8	86.0	89.5	90.5	87.0	74.3	88.5	88.5	74.3	88.5	88.5	102.0	88.5	89.0	88.5	89.0	91.0	91.8	86.0	89.5	102.0	88.5	89.0	88.5	89.0
6	PARKASH	88.3	91.5	83.8	86.2	38.3	87.0	73.8	85.3	90.3	73.8	85.3	90.3	96.0	86.8	86.5	86.8	86.5	88.3	91.5	83.8	86.2	96.0	86.8	86.5	86.8	86.5
7	PRATAP MAKKA-4	87.8	90.3	82.3	85.6	36.3	88.0	72.3	86.5	89.0	72.3	86.5	89.0	96.0	86.3	86.0	86.3	86.0	87.8	90.3	82.3	85.6	96.0	86.3	86.0	86.3	86.0
8	PRATAP MAKKA-5	88.3	90.5	80.3	85.1	37.0	85.3	72.0	83.8	88.5	72.0	83.8	88.5	98.0	85.8	85.4	85.8	85.4	88.3	90.5	80.3	85.1	98.0	85.8	85.4	85.8	85.4
	Loc. Mean	89.3	91.3	83.7	87.1	38.5	86.4	73.6	87.1	90.7	73.6	87.1	90.7	98.6	87.5	87.3	87.5	87.3	89.3	91.3	83.7	87.1	98.6	87.5	87.3	87.5	87.3
	C.D. (5%)	2.52	1.27	0.83	2.49	2.65	0.76	1.38	3.98	3.72	1.38	3.98	3.72	0.60	2.07	1.58	2.07	1.58	2.52	1.27	0.83	2.49	0.60	2.07	1.58	2.07	1.58
	C.V. (%)	1.92	0.95	0.67	2.43	2.03	0.60	1.27	3.11	2.79	1.27	3.11	2.79	0.41	2.02	2.23	2.02	2.23	1.92	0.95	0.67	2.43	0.41	2.02	2.23	2.02	2.23
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 14 (Cont..)

MOISTURE % AT HARVEST

Sl No	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	Zone		KOLH	MAND	COIM	Zone		OV'L	
							Mean	Mean				Mean	Mean		
1	COMP.R-2006-1	24.4	24.3	17.4	26.9	20.8	22.7	28.9	29.5	14.8	13.3	17.7	21.1	20.9	21.7
2	COMP.R-2007-1	23.6	23.8	17.1	28.6	19.5	22.5	26.9	28.4	13.3	13.2	17.9	20.0	19.9	21.1
3	UMC-10	21.4	17.3	17.0	27.9	20.2	20.7	22.1	28.6	13.3	13.5	16.9	16.9	18.5	19.5
4	UMC-11	20.9	16.4	16.6	29.0	22.3	21.0	22.9	28.5	14.3	13.3	18.5	15.2	18.7	19.8
5	KML-9	24.2	27.8	17.9	28.9	20.7	23.9	31.3	30.7	12.0	15.5	17.9	19.8	21.2	22.4
CHECKS															
6	PARKASH	22.3	16.0	17.0	27.0	21.6	20.8	23.7	29.1	14.3	13.0	16.3	17.8	19.0	19.8
7	PRATAP MAKKA-4	24.8	18.2	16.4	26.7	20.8	21.4	19.3	29.1	13.0	14.1	17.0	17.2	18.2	19.7
8	PRATAP MAKKA-5	23.2	17.3	16.4	26.7	21.2	20.5	18.0	29.2	14.5	12.7	18.1	16.7	18.2	19.4
	Loc. Mean	23.1	20.1	17.0	27.7	20.9	21.7	24.1	29.1	13.7	13.5	17.5	18.0	19.3	20.4
	C.D. (5%)	0.70	0.00	0.22	1.97	1.16	2.71	1.14	2.18	1.28	0.57	0.82	0.43	2.33	1.65
	C.V. (%)	2.07	0.00	0.87	4.85	3.79	9.60	3.20	5.10	6.37	2.84	3.18	1.62	10.28	9.52
	F (Prob.)	0.00	0.00	0.00	0.07	0.00	0.20	0.00	0.43	0.00	0.00	0.00	0.00	0.07	0.00

PLANT HEIGHT (cm)

Sl No	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	Zone		KARI	KOLH	MAND	COIM	Zone		OV'L
							Mean	Mean					Mean	Mean	
1	COMP.R-2006-1	194	161	149	218	200	241	194	192	217	218	210	189	193	198
2	COMP.R-2007-1	210	179	144	203	187	202	187	205	234	219	221	185	198	199
3	UMC-10	210	163	145	208	195	204	187	184	211	192	200	172	186	189
4	UMC-11	208	158	139	205	188	197	182	177	203	190	205	179	195	187
5	KML-9	190	153	118	195	192	216	177	151	202	174	198	156	189	178
CHECKS															
6	PARKASH	207	168	122	210	178	232	186	185	218	207	203	177	197	192
7	PRATAP MAKKA-4	198	163	122	218	185	210	183	172	217	187	193	166	190	185
8	PRATAP MAKKA-5	208	183	124	218	186	223	190	194	215	200	200	177	195	193
	Loc. Mean	203	166	133	209	189	215	186	182	215	198	204	175	193	194
	C.D. (5%)	13.7	15.9	5.7	10.6	25.1	8.3	12.0	9.3	17.4	8.6	25.6	22.4	5.0	7.3
	C.V. (%)	4.6	6.5	2.9	3.5	9.0	2.6	5.5	3.5	5.5	2.9	8.6	8.7	1.8	4.7
	F (Prob.)	0.03	0.01	0.00	0.00	0.71	0.00	0.22	0.00	0.03	0.00	0.45	0.12	0.00	0.00

TABLE No. 14 (Cont...)

SI No	PEDIGREE	EAR HEIGHT (cm)											Zone			
		BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean
1	COMP.R-2006-1	105	78	64	130	91	66	89	101	95	86	104	89	112	98	93
2	COMP.R-2007-1	108	85	51	108	91	88	89	102	88	82	106	91	107	96	92
3	UMC-10	119	79	56	115	95	91	93	95	93	82	101	83	106	93	93
4	UMC-11	116	70	54	123	90	74	88	91	81	70	99	90	105	89	88
5	KML-9	108	83	46	125	96	67	87	90	88	76	101	79	101	89	88
CHECKS																
6	PARKASH	110	86	45	133	90	78	90	102	97	74	106	90	114	97	94
7	PRATAP MAKKA-4	113	78	42	140	87	75	89	94	84	70	96	88	102	89	89
8	PRATAP MAKKA-5	130	91	47	125	87	71	92	108	87	75	101	92	106	95	93
Loc. Mean																
		114	81	51	125	91	76	90	98	89	77	102	87	107	93	91
C.D. (5%)																
		17.9	16.1	4.6	10.2	13.4	5.5	9.6	8.6	15.5	7.0	21.4	16.1	3.3	4.5	5.2
C.V. (%)																
		10.7	13.5	6.2	5.6	10.0	4.9	9.1	6.0	11.8	6.2	14.3	12.5	2.1	4.1	6.9
F (Prob.)																
		0.16	0.25	0.00	0.00	0.85	0.00	0.94	0.00	0.38	0.00	0.97	0.66	0.00	0.00	0.12

GRAIN SHELLING %

SI No	PEDIGREE	GRAIN SHELLING %											Zone			
		BAHR	JASH	VARA	RANC	AMBI	Zone Mean	ARBH	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean		
1	COMP.R-2006-1	76.4	78.4	77.5	84.9	83.0	80.0	80.1	70.5	84.4	76.4	78.0	77.9	79.0	79.0	
2	COMP.R-2007-1	79.5	78.3	78.0	85.7	85.4	81.4	84.7	75.0	83.3	83.0	78.9	81.0	81.2	81.2	
3	UMC-10	83.2	78.9	77.5	83.3	85.3	81.6	84.0	78.0	84.6	80.8	79.9	81.4	81.5	81.5	
4	UMC-11	83.3	80.4	75.8	85.4	83.3	81.6	83.4	81.3	87.6	80.6	84.0	83.4	82.5	82.5	
5	KML-9	78.7	77.7	74.8	86.6	85.9	80.7	83.8	73.3	85.2	78.6	81.6	80.5	80.6	80.6	
CHECKS																
6	PARKASH	78.4	80.1	79.0	84.5	84.5	81.3	84.1	77.5	88.0	84.7	81.1	83.1	82.2	82.2	
7	PRATAP MAKKA-4	79.1	78.7	77.8	85.4	84.3	81.0	81.1	76.5	86.0	83.2	85.2	82.4	81.7	81.7	
8	PRATAP MAKKA-5	80.2	78.9	78.3	85.7	85.5	81.7	82.6	78.3	86.8	82.3	83.1	82.6	82.1	82.1	
Loc. Mean																
		79.8	78.9	77.3	85.2	84.6	81.2	83.0	76.3	85.7	81.2	81.5	81.5	81.3	81.3	
C.D. (5%)																
		2.27	0.59	2.01	1.91	2.60	1.93	1.75	3.78	0.57	1.04	0.80	2.42	1.56	1.56	
C.V. (%)																
		1.94	0.51	1.77	1.53	2.09	1.83	1.44	3.37	0.46	0.87	0.67	2.29	2.15	2.15	
F (Prob.)																
		0.00	0.00	0.01	0.07	0.22	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

TABLE No. 14 (Cont..)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)													Zone Mean	OV'L Mean
		BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	ARBH	HYDE	KARI	KOLH	MAND	COIM		
1	COMP.R-2006-1	69	31	55	71	51	74	58	50	53	60	73	57	66	60	59
2	COMP.R-2007-1	73	47	53	71	58	71	62	55	54	59	78	56	67	62	62
3	UMC-10	72	44	53	77	53	82	63	55	56	60	76	57	67	62	63
4	UMC-11	72	50	54	70	53	75	62	54	54	61	75	58	66	61	62
5	KML-9	65	46	55	70	48	73	59	50	57	60	74	58	66	61	62
	CHECKS															
6	PARKASH	68	47	55	69	51	70	60	48	55	60	78	58	66	61	61
7	PRATAP MAKKA-4	67	48	56	72	44	66	59	49	59	61	76	56	66	61	60
8	PRATAP MAKKA-5	68	43	55	69	44	66	57	50	54	61	62	58	66	59	58
	Loc. Mean	59	45	54	71	50	72	60	51	55	60	74	57	66	61	61
	C.D. (5%)	2.6	7.5	3.1	3.9	6.6	9.5	4.5	7.4	3.7	1.7	9.3	4.4	0.7	3.0	2.6
	C.V. (%)	2.6	11.4	3.9	3.7	8.9	8.9	6.4	9.8	4.5	1.9	8.6	5.2	0.8	4.2	5.3
	F (Prob.)	0.00	0.00	0.58	0.01	0.00	0.04	0.10	0.40	0.06	0.34	0.04	0.83	0.37	0.46	0.01

TABLE No. 15
 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANGLI, AMBIKAPUR,
 UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN TRIAL No. TR68Z-3, 5 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3							
		BAHR	R	DHOL	R	JASH	R	VARA	R	RANC	R	AMBI	R	UDAI	R	BANS	R				
1	FH-3463	4614	3	2846	4	4533	2	3195	4	6266	4	6266	4	4070	4	4254	4	5025	2	3988	3
2	FQH-55	5555	1	3293	2	4858	1	5107	2	7305	1	7305	1	4284	3	5067	2	4519	4	4078	2
CHECKS																					
3	VIVEK QPM-9	4534	4	2961	3	4347	4	4613	3	7126	2	7126	2	4664	1	4708	3	5275	1	5496	1
4	PARKASH	5186	2	3592	1	4498	3	6235	1	6596	3	6596	3	4585	2	5115	1	4939	3	3211	4
Location Mean		4972		3173		4559		4788		6823		6823		4401		4786		4940		4193	
Mean Stand		101		75		54		74		62		62		95		77		96		62	
C.D. (5%)		267		364		103		426		812		812		720		448		1161		270	
C.V. (%)		4.34		9.26		1.82		7.18		9.61		9.61		13.22		-		11.2		5.21	
F (Prob)		0		0.011		0.026		0		0.04		0.04		0.056		-		0.709		0	
Plot Size		14.4		18		9.6		9.6		11.2		11.2		14.4		-		14.4		9.6	
AGRONOMY DATA																					
Sowing Date		3-07		9-07		25-07		5-07		5-07		5-07		7-07		-		24-09		8-07	
Harvest Date		13-10		-		9-11		6-10		9-10		9-10		-		-		14-09		23-10	
Irrigation Nos		-		-		-		1		-		-		-		-		2		2	
Fertilizer Applied N		120		120		120		100		-		-		80		-		90		90	
Fertilizer Applied P		60		60		60		60		-		-		50		-		60		40	
Fertilizer Applied K		60		40		60		40		-		-		30		-		-		-	

TABLE No. 15 (Cont..)

GRAIN YIELD % SUPERIORITY OVER THE VIVEK QPM-9																				
Sl No	PEDIGREE	CHHI	R	ZN 5	OV'L	R	MEAN	R	GODH	R	RAIN	BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3	MEAN	UDAI
1	FH-3463	4154	4	4389	2	4299	4	5207	2	1.8	-	4.3	-	-	-	-	-	-	-	-
2	FQH-55	4256	3	4284	3	4806	3	5635	1	22.5	11.2	11.7	10.7	2.5	-	-	-	-	7.6	-
CHECKS																				
3	VIVEK QPM-9	4762	1	5178	1	4864	1	4910	4	-	-	-	-	-	-	-	-	-	-	-
4	PARKASH	4486	2	4212	4	4814	2	5130	3	14.4	21.3	3.5	35.2	-	-	-	-	-	8.7	-
Location Mean																				
Mean Stand																				
C.D. (5%)																				
C.V. (%)																				
F' (Prob)																				
Plot Size																				
AGRONOMY DATA																				
Sowing Date																				
Harvest Date																				
Irrigation Nos																				
Fertilizer Applied N																				
Fertilizer Applied P																				
Fertilizer Applied K																				

GRAIN YIELD % SUPERIORITY OVER THE PARKASH																			
Sl No	PEDIGREE	BANS	CHHI	ZN 5	OV'L	ZN 5	MEAN	GODH	BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3	MEAN	UDAI	BANS	
1	FH-3463	-	-	-	-	6.1	-	-	-	-	0.8	-	-	-	-	-	1.7	24.2	
2	FQH-55	-	-	-	-	14.8	-	7.1	-	-	8	-	10.8	-	-	-	-	27	
CHECKS																			
3	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	8	1.7	-	-	6.8	71.2	
4	PARKASH	-	-	-	-	4.5	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE No. 15 (Cont..)

S1		GRAIN YIELD & SUPERIORITY OVER THE PARKASH										DAYS TO 50% POLLEN SHED														
		ZN 5		OV'L		ZN 5		MEAN		GODH		CHHI	BAHR	DHOL	JASH	VARA	RANC	AMBI	AMBI	Zone Mean	UDAI	BANS	UDAI	BANS	Zone Mean	
No	PEDIGREE	4.2	1.7	22.9	1	-	-	-	-	44.5	48.2	42.2	44.0	40.5	41.5	43.5	43.7	35.7	43.5	43.5	43.7	35.7	43.5	43.5	43.5	43.5
1	FH-3463	4.2	-	-	-	-	1.5	-	-	49.0	47.7	42.8	43.8	40.8	41.5	44.3	45.0	39.0	44.3	44.3	45.0	39.0	44.3	44.3	44.3	44.3
2	FQH-55	1.7	-	9.9	-	-	-	-	-	46.3	49.3	44.3	45.5	43.2	44.2	45.5	48.0	38.5	45.5	44.2	48.0	38.5	45.5	44.2	44.2	44.2
CHECKS																										
3	VIVEK QPM-9	6.2	22.9	1	-	-	-	-	-	44.5	48.2	42.2	44.0	40.5	41.5	43.5	43.7	35.7	43.5	43.5	43.7	35.7	43.5	43.5	43.5	43.5
4	PARKASH	-	-	-	-	-	-	-	-	48.3	50.5	43.7	47.5	43.8	44.8	46.4	47.3	38.5	46.4	44.8	47.3	38.5	46.4	44.8	44.8	44.8
Loc. Mean										47.0	48.9	43.3	45.2	42.1	43.0	44.9	46.0	37.9	44.9	43.0	46.0	37.9	44.9	43.0	43.0	43.0
C.D. (5%)										1.49	0.94	0.73	1.51	2.57	0.88	1.25	1.10	1.12	1.25	0.88	1.10	1.12	1.25	0.88	1.25	0.88
C.V. (%)										2.57	1.55	1.38	2.72	4.95	1.66	2.26	1.20	2.41	2.26	1.66	1.20	2.41	2.26	1.66	2.26	1.66
F (Prob.)										0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

S1		DAYS TO 50% POLLEN SHED										DAYS TO 50% SILKING															
		Zone Mean		OV'L		BAHR		DHOL		JASH		VARA		RANC		AMBI		AMBI		Zone Mean		UDAI		BANS		CHHI	
No	PEDIGREE	44.2	44.3	44.7	44.7	51.2	48.7	44.8	44.8	46.2	51.3	45.2	44.3	44.3	47.6	47.6	47.2	44.0	46.4	47.6	47.3	42.2	49.7	46.4	46.4	46.4	46.4
1	FH-3463	44.2	44.3	44.7	44.7	51.2	48.7	44.8	44.8	46.2	51.3	45.2	44.3	44.3	47.6	47.6	47.2	44.0	46.4	47.6	47.3	42.2	49.7	46.4	46.4	46.4	46.4
2	FQH-55	45.1	45.3	45.3	45.3	48.3	49.5	46.2	46.2	51.2	47.7	47.7	47.2	47.2	48.3	48.3	47.2	44.0	46.4	48.3	50.3	41.7	49.5	47.2	47.2	47.2	47.2
CHECKS																											
3	VIVEK QPM-9	42.4	43.1	44.0	44.0	46.3	49.2	44.2	44.2	49.8	45.2	45.2	44.0	46.4	46.4	45.2	44.0	46.4	46.4	46.4	46.0	39.5	48.7	44.7	44.7	44.7	44.7
4	PARKASH	45.3	46.1	46.0	46.0	50.3	49.7	45.5	45.5	52.7	47.8	47.8	47.3	47.3	48.9	48.9	47.3	44.0	46.4	48.9	49.3	41.5	50.7	47.2	47.2	47.2	47.2
Loc. Mean																											
C.D. (5%)																											
C.V. (%)																											
F (Prob.)																											

TABLE No. 15 (Cont..)

SI	No PEDIGREE	DAYS TO 50% DRY HUSK																											
		SILKING		BAHR		DHOL		JASH		VARA		RANC		AMBI		Zone		UDAI		BANS		CHHI		Zone		OV'L		GODH	
		Mean	OV'L	Mean	GODH	Mean	DHOL	Mean	JASH	Mean	VARA	Mean	RANC	Mean	AMBI	Mean	Zone	Mean	UDAI	Mean	BANS	Mean	CHHI	Mean	Zone	Mean	OV'L	Mean	GODH
1	FH-3463	47.2	45.3	80.8	87.8	81.3	86.5	85.4	85.0	84.0	76.7	83.1	76.7	81.7	82.2	77.8	81.3	72.7	74.7	80.5	77.6	79.5	73.5	77.8	81.3	77.6	79.5	73.5	
2	FQH-55	47.9	46.2	81.0	80.3	80.7	86.0	84.0	86.0	84.0	71.0	80.5	81.7	80.5	80.5	77.6	81.3	73.5	70.5	80.5	77.6	79.5	73.5	77.6	81.3	77.6	79.5	73.5	
	CHECKS																												
3	VIVEK QPM-9	45.9	45.5	75.3	86.5	78.2	85.0	84.0	85.0	84.0	70.5	79.9	75.3	80.5	80.5	76.1	80.5	71.8	72.5	80.5	76.1	78.6	71.8	76.1	80.5	76.1	78.6	71.8	
4	PARKASH	48.3	47.8	79.3	88.0	81.3	91.2	84.8	91.2	84.8	71.2	82.6	78.7	81.8	81.8	77.1	80.8	74.2	70.7	81.8	77.1	80.8	74.2	77.1	80.8	77.1	80.8	74.2	
	Loc. Mean	47.3	46.2	79.1	85.7	80.4	87.2	84.6	87.2	84.6	72.3	81.5	78.1	81.3	81.3	77.1	80.1	73.0	72.1	81.3	77.1	80.1	73.0	77.1	80.1	77.1	80.1	73.0	
	C.D. (5%)	0.95	0.83	2.59	1.61	1.44	1.56	0.51	1.56	0.51	0.89	2.70	6.13	0.65	0.65	4.56	2.11	1.57	1.53	0.65	4.56	2.11	1.57	4.56	2.11	1.57	4.56	2.11	
	C.V. (%)	2.07	1.46	2.66	1.53	1.45	1.45	0.49	1.45	0.49	1.00	2.69	3.93	0.65	0.65	2.96	2.70	1.74	1.73	0.65	2.96	2.70	1.74	2.96	2.70	1.74	2.96	2.70	
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.16	0.00	0.00	0.80	0.06	0.03	0.00	0.00	0.80	0.06	0.03	0.80	0.06	0.03	0.80	0.06	

SI	No PEDIGREE	MOISTURE % AT HARVEST														PLANT HEIGHT (cm)													
		BAHR		DHOL		JASH		VARA		RANC		Zone		UDAI		BANS		CHHI		Zone		OV'L		BAHR		DHOL		JASH	
		Mean	OV'L	Mean	DHOL	Mean	JASH	Mean	VARA	Mean	RANC	Mean	Zone	Mean	UDAI	Mean	BANS	Mean	CHHI	Mean	Zone	Mean	OV'L	Mean	BAHR	Mean	DHOL	Mean	JASH
1	FH-3463	21.2	19.0	15.8	28.9	21.2	21.2	23.9	21.2	21.2	15.2	12.7	17.3	23.9	15.2	16.0	16.2	11.2	16.0	16.0	19.6	157	19.6	207	157	162			
2	FQH-55	22.0	19.1	15.8	30.1	21.4	21.7	21.8	21.7	21.7	15.2	12.7	16.6	21.8	15.2	17.1	144	12.7	16.6	16.6	19.8	144	19.8	194	144	144			
	CHECKS																												
3	VIVEK QPM-9	25.9	19.0	15.2	26.6	21.7	21.7	20.9	21.7	21.7	16.0	11.2	16.0	20.9	16.0	16.0	162	11.2	16.0	16.0	19.6	157	19.6	207	157	162			
4	PARKASH	20.0	18.9	16.1	29.8	21.7	21.3	23.2	21.3	21.3	15.0	13.1	17.1	23.2	15.0	18.8	156	13.1	17.1	17.1	19.7	154	19.7	188	154	156			
	Loc. Mean	22.3	19.0	15.7	28.8	21.5	21.5	22.4	21.5	21.5	15.3	12.5	16.7	22.4	15.3	19.7	152	12.5	16.7	16.7	19.7	152	19.7	197	152	152			
	C.D. (5%)	2.13	-	0.17	0.37	0.20	2.06	2.03	2.06	0.23	0.59	1.86	1.86	2.03	0.23	3.89	5.9	0.59	1.86	1.86	1.35	8.2	3.89	9.0	8.2	5.9			
	C.V. (%)	7.78	-	0.85	1.06	0.75	6.95	4.54	6.95	1.23	3.87	5.57	5.57	4.54	1.23	9.68	3.2	3.87	5.57	5.57	6.61	4.4	9.68	3.7	4.4	3.2			
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.93	0.04	0.93	0.00	0.00	0.00	0.41	0.04	0.00	0.00	0.00	0.00	0.41	0.00	0.99	0.02	0.00	0.00	0.02	0.00			

TABLE No. 15 (Cont..)

SI	No PEDIGREE	PLANT HEIGHT (cm)										EAR HEIGHT (cm)									
		VARA	RANC	AMBI	Zone Mean		UDAI	BANS	CHHI	Zone Mean		OV'L Mean	GODH	BAHR	DHOL	JASH	VARA	RANC			
					Mean	Mean				Mean	Mean										
1	FH-3463	173	184	214	178	175	153	176	168	175	155	103.2	58.4	54.2	77.5	76.3					
2	FQH-55 CHECKS	193	183	216	179	177	159	179	171	176	149	78.8	49.5	52.7	85.0	74.6					
3	VIVEK QPM-9	185	187	226	187	193	172	187	184	186	163	103.5	62.6	67.5	97.5	78.5					
4	PARKASH	210	181	231	187	190	165	201	185	186	169	108.5	74.3	68.7	115.0	81.6					
	Loc. Mean	190	184	222	183	184	162	186	177	181	159	98.5	61.2	60.8	93.8	77.7					
	C.D. (5%)	3.4	9.0	10.1	10.2	11.0	4.2	11.4	9.8	7.1	8.8	9.3	6.9	3.4	3.6	5.7					
	C.V. (%)	1.4	4.0	3.7	4.5	3.0	2.1	5.0	2.8	4.0	4.5	7.6	9.1	4.6	3.1	5.9					
	F (Prob.)	0.00	0.62	0.01	0.16	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.09					

SI	No PEDIGREE	EAR HEIGHT (cm)										GRAIN SHELLING %									
		AMBI	UDAI	BANS	CHHI	Zone Mean		OV'L Mean	GODH	BAHR	JASH	VARA	RANC	AMBI	UDAI						
						Mean	Mean														
1	FH-3463	65.7	72.5	70.0	55.2	72.7	66.0	70.3	67	78.1	79.5	75.8	76.0	83.8	81.7						
2	FQH-55 CHECKS	67.2	63.0	73.3	46.7	73.5	64.5	66.8	66	79.3	81.1	76.3	84.4	82.7	82.0						
3	VIVEK QPM-9	78.0	81.3	85.0	76.1	76.8	79.3	80.6	73	77.7	79.9	76.5	83.1	86.1	82.1						
4	PARKASH	93.8	90.3	76.7	68.5	100.7	81.9	87.5	93	80.0	80.1	80.3	84.5	86.9	81.9						
	Loc. Mean	76.2	78.0	76.3	61.6	80.9	72.9	76.3	75	78.7	80.2	77.2	82.0	84.9	81.9						
	C.D. (5%)	6.2	8.1	7.5	2.4	9.1	17.3	6.7	7.5	0.60	0.32	0.78	2.23	3.63	0.44						
	C.V. (%)	6.6	8.4	4.9	3.1	9.1	11.9	9.1	8.2	0.62	0.32	0.83	2.21	3.47	0.27						
	F (Prob.)	0.00	0.00	0.01	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.06						

TABLE No. 15 (Cont...)

Sl No	PEDIGREE	GRAIN SHELLING %				STAND AT HARVEST ('000/ha)									
		BANS	CHHI	Zone		GODH	BAHR	DHOL	JASH	VARA	RANC	AMBI			
				Mean	OV'L										
1	FH-3463	69.5	80.8	77.3	78.1	75.9	67	40	56	79	54	62			
2	FQH-55	75.4	86.6	81.3	81.0	79.6	72	43	54	72	57	68			
	CHECKS														
3	VIVEK QPM-9	79.3	86.2	82.5	81.4	79.3	70	42	57	80	54	72			
4	PARKASH	69.7	91.4	81.0	81.8	81.7	70	40	59	77	56	63			
	Loc. Mean	73.5	86.2	80.5	80.6	79.1	70	41	56	77	55	66			
	C.D. (5%)	0.76	0.50	7.24	2.65	1.35	2.6	4.4	2.4	4.8	4.4	5.9			
	C.V. (%)	0.84	0.47	4.50	3.16	1.38	3.1	8.7	3.5	5.1	6.5	7.2			
	F (Prob.)	0.00	0.00	0.40	0.04	0.00	0.0	0.5	0.0	0.0	0.5	0.0			

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)				OV'L			
		UDAI	BANS	CHHI	Zone	Mean	Mean	GODH	
									Mean
1	FH-3463	66	65	60	64	61	66		
2	FQH-55	69	64	61	65	62	69		
	CHECKS								
3	VIVEK QPM-9	64	65	56	62	62	75		
4	PARKASH	67	64	55	62	61	70		
	Loc. Mean	67	65	58	63	62	70		
	C.D. (5%)	7.6	1.5	5.5	4.0	2.7	5.26		
	C.V. (%)	5.7	1.8	7.7	3.1	4.4	6.11		
	F (Prob.)	0.5	0.1	0.1	0.3	0.7	0.02		

TABLE No. 16
 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT ARBHAVI (1), ARBHAVI (2), ARBHAVI, HYDERABAD, KARIMNAGAR,
 KOLHAPUR, MANDYA, COIMBATORE IN TRIAL No. TR68Z-4 DURING KHARIF (2009).

Sl	No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4			
			ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	R	MAN	R	COIM	R	MAN	R	MEAN	R
1	FH-3463	6412	1	6830	1	7972	3	3923	5	7322	2	8452	1	10623	1	7362	2	
2	FH-3464	5848	3	5960	2	7709	4	4527	2	7027	5	8218	2	10478	3	7110	3	
3	FH-3473	4053	5	4785	5	7319	5	4165	3	7183	4	7396	4	10501	2	6486	5	
4	FQH-55	5898	2	5341	4	9246	1	6088	1	7320	3	7625	3	10425	4	7420	1	
CHECKS																		
5	VIVEK QPM-9	5397	4	5856	3	8523	2	3940	4	7514	1	7391	5	10180	5	6972	4	
	Location Mean	5522		5754		8154		4529		7273		7816		10441		7070		
	Mean Stand	91		99		76		111		99		93		95		95		
	C.D. (5%)	723		717		1124		270		922		871		662		756		
	C.V. (%)	8.42		8.01		8.86		3.83		8.14		7.16		4.07		-		
	F (Prob)	0		0.001		0.023		0		0.944		0.051		0.423		-		
	Plot Size	18		18		12		18		14.4		16.8		14.4		-		
AGRONOMY DATA																		
	Sowing Date	17-07		17-07		6-07		12-07		19-07		22-07		9-07		-		
	Harvest Date	3-11		3-11		5-11		9-10		4-12		30-11		5-11		-		
	Irrigation Nos	6		6		2		-		-		6		10		-		
	Fertilizer Applied N	150		150		180		200		100		150		150		-		
	Fertilizer Applied P	75		75		60		80		50		75		75		-		
	Fertilizer Applied K	37.5		37.5		50		60		30		40		75		-		
GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM-9																		
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	ZN 4	MEAN							
1	FH-3463	18.8	16.6	-	-	-	-	14.4	4.3	4.3	5.6	5.6						
2	FH-3464	8.3	1.8	-	14.9	-	-	11.2	2.9	2.9	2	2						
3	FH-3473	-	-	-	5.7	-	-	0.1	3.1	3.1	-	-						
4	FQH-55	9.3	-	8.5	54.5	-	-	3.2	2.4	2.4	6.4	6.4						
CHECKS																		
5	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-						

TABLE No. 16 (Cont..)

S1 No	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING								
		ARB1	ARB2	HYDE	KARI	KOLH	ARB1	ARB2	HYDE	KARI	MAND				
1	FH-3463	49.5	48.3	48.5	43.8	47.5	42.8	44.3	46.4	50.3	48.8	51.0	45.8	48.5	44.3
2	FH-3464	51.5	50.5	48.0	46.0	49.5	44.3	46.3	48.0	51.8	50.8	50.0	48.8	50.5	46.0
3	FH-3473	49.3	48.5	49.5	43.5	48.8	43.0	44.0	46.6	51.0	49.3	52.0	45.5	49.8	44.5
4	FQH-55	50.5	50.8	44.8	44.8	48.8	44.5	45.0	47.0	51.3	51.3	52.0	47.0	49.8	46.3
CHECKS															
5	VIVEK QPM-9	49.8	48.3	46.5	43.5	47.3	42.8	43.8	46.0	49.8	48.3	48.8	45.5	48.3	44.5
	Loc. Mean	50.1	49.3	47.5	44.3	48.4	43.5	44.7	46.8	50.8	49.7	50.8	46.5	49.4	45.1
	C.D. (5%)	1.12	0.86	3.23	1.69	1.30	0.67	0.64	1.06	1.27	0.93	1.45	2.15	1.30	0.90
	C.V. (%)	1.45	1.13	4.42	2.48	1.74	1.01	0.94	2.04	1.63	1.22	1.85	3.00	1.71	1.30
	F (Prob.)	0.01	0.00	0.06	0.03	0.01	0.00	0.00	0.01	0.03	0.00	0.00	0.03	0.01	0.00

S1 No	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST						
		COIM	Zone Mean	ARB1	ARB2	HYDE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	ARB1	ARB2	HYDE	KARI
1	FH-3463	46.0	47.8	91.5	86.0	82.5	68.8	80.5	87.8	86.0	83.3	86.0	83.3	28.4	24.9	25.6	13.3	
2	FH-3464	48.3	49.4	86.5	84.5	82.0	69.5	82.5	88.5	88.0	83.1	88.0	83.1	29.2	26.3	25.9	15.5	
3	FH-3473	45.8	48.3	85.0	83.8	84.0	69.3	81.8	87.0	86.0	82.4	86.0	82.4	20.6	24.4	26.2	12.3	
4	FQH-55	47.0	49.2	84.3	86.0	83.8	68.5	81.8	87.5	86.5	82.6	86.5	82.6	23.0	23.3	24.3	12.0	
CHECKS																		
5	VIVEK QPM-9	45.8	47.3	87.3	84.8	83.8	69.0	80.3	87.5	86.0	82.6	86.0	82.6	22.6	19.3	24.5	12.3	
	Loc. Mean	46.6	48.4	86.9	85.0	83.2	69.0	81.4	87.7	86.5	82.8	86.5	82.8	24.8	23.6	25.3	13.1	
	C.D. (5%)	0.70	0.80	2.66	2.60	0.98	1.04	1.60	1.82	0.69	1.49	1.89	1.68	1.42	1.42	0.78		
	C.V. (%)	0.98	1.50	1.98	1.98	0.77	0.98	1.27	1.35	0.52	1.63	4.96	4.62	3.64	3.89			
	F (Prob.)	0.00	0.00	0.00	0.30	0.00	0.30	0.05	0.52	0.00	0.72	0.00	0.00	0.00	0.04	0.00		

TABLE No. 16 (Cont..)

Sl No	MOISTURE % AT HARVEST										PLANT HEIGHT (cm)										EAR HEIGHT (cm)			
	PEDIGREE	KOLH	MAND	COIM	Zone		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone		ARB1	ARB2	HYDE						
					Mean	Mean								Mean	Mean									
1	FH-3463	14.4	16.4	17.1	20.0	170	164	208	178	196	163	195	182	182	81	90	78							
2	FH-3464	14.0	17.3	16.7	20.7	161	158	203	185	189	158	193	178	178	72	85	73							
3	FH-3473	12.6	16.5	16.9	18.5	137	127	231	157	178	164	160	165	165	65	86	74							
4	FQH-55	13.9	16.6	16.7	18.5	163	163	207	178	206	161	198	162	162	82	86	76							
CHECKS																								
5	VIVEK QPM-9	12.6	16.7	16.6	17.8	172	167	208	180	188	175	201	184	184	85	90	81							
	Loc. Mean	13.5	16.7	16.8	19.1	160	156	211	176	191	164	190	178	178	77	87	76							
	C.D. (5%)	0.43	0.76	0.28	1.75	14.0	5.6	30.4	6.8	18.8	10.5	6.9	12.0	8.4	5.9	8.6								
	C.V. (%)	2.05	2.95	1.07	8.32	5.7	2.3	9.3	2.5	6.4	4.2	2.4	6.1	7.1	4.4	7.3								
	F (Prob.)	0.00	0.17	0.01	0.01	0.00	0.00	0.32	0.00	0.06	0.05	0.00	0.02	0.00	0.22	0.31								

Sl No	GRAIN SHELLING %										EAR HEIGHT (cm)					
	PEDIGREE	KARI	KOLH	MAND	COIM	Zone		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone	
						Mean	Mean								Mean	Mean
1	FH-3463	81	90	83	95	85	82.2	83.1	76.4	77.8	84.6	84.0	79.8	81.1	81.1	
2	FH-3464	80	89	80	86	81	84.5	84.0	75.8	76.0	86.0	85.1	83.3	82.1	82.1	
3	FH-3473	76	90	81	81	79	81.3	82.3	77.9	77.8	86.5	82.3	81.1	81.3	81.3	
4	FQH-55	78	90	80	95	84	83.7	82.8	79.7	78.5	84.2	85.4	82.2	82.3	82.3	
CHECKS																
5	VIVEK QPM-9	86	95	88	105	90	84.6	82.5	80.6	76.3	86.7	85.2	83.9	82.8	82.8	
	Loc. Mean	80	91	82	92	84	83.2	82.9	78.1	77.3	85.6	84.4	82.1	81.9	81.9	
	C.D. (5%)	3.4	16.7	13.0	3.8	3.9	0.78	1.92	1.18	3.10	1.82	0.75	0.68	1.44	1.44	
	C.V. (%)	2.8	12.0	10.2	2.7	4.2	0.61	1.51	0.98	2.61	1.38	0.57	0.54	1.59	1.59	
	F (Prob.)	0.00	0.93	0.60	0.00	0.00	0.00	0.36	0.00	0.38	0.03	0.00	0.00	0.11	0.11	

TABLE No. 16 (Cont..)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)										Zone Mean
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM				
1	FH-3463	53	57	59	63	71	55	67				61
2	FH-3464	49	53	67	61	66	55	66				60
3	FH-3473	46	53	64	61	64	56	66				59
4	FQH-55	54	58	65	62	70	56	66				62
	CHECKS											
5	VIVEK QPM-9	52	55	63	61	70	55	63				60
	Loc. Mean	51	55	64	62	69	55	66				60
	C.D. (5%)	7.4	9.7	5.8	0.9	14.3	3.9	3.9				2.4
	C.V. (%)	9.5	11.4	5.9	0.9	13.5	4.5	3.8				3.6
	F (Prob.)	0.17	0.72	0.13	0.01	0.77	0.95	0.19				0.13

TABLE No. 17
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS AT ARHAVI(1), AREHAVI(2), HYDERABAD, KARIMNAGAR,
 KOLHAPUR, MANDYA, COIMBATORE IN AET 2nd YEAR, TRIAL No. TR6924 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE/										Zn 4					
		ARB1	R	ARB2	R	HYDE	R	KARI	R	KOLH	R	MAND	R	COIM	R	MEAN	R
1	MCH-36	6920	2	6662	1	6034	5	6821	3	7661	1	11887	2	14822	1	8687	2
CHECKS																	
2	BIO-9681	3937	5	5270	4	7536	1	4781	5	6346	4	8348	5	11671	3	6841	5
3	SEEDTEC-2324	6930	1	6351	2	6853	4	6934	2	7505	2	12452	1	14361	2	8769	1
4	HQPM-1	4942	4	5113	5	7315	2	7604	1	6173	5	9058	4	9422	5	7090	4
5	HQPM-7	5829	3	5441	3	7028	3	5587	4	6827	3	11003	3	10424	4	7448	3
Location Mean																	
	Mean Stand	90		91		105		114		118		77		95		99	
	C.D. (5%)	1595		1896		789		335		1324		1104		854		1128	
	C.V. (%)	17.94		21.13		7.29		3.39		12.33		6.73		4.52		--	
	F (Prob)	0		0.001		0.015		0		0.088		0		0		--	
	Plot Size	18		18		18		18		18		14		14.4		--	
AGRONOMY DATA																	
	Sowing Date	6-08		6-08		6-07		12-07		12-07		22-07		9-07		--	
	Harvest Date	15-12		15-12		22-11		18-10		7-12		30-11		4-11		--	
	Irrigation Nos	5		5		2		--		--		6		10		--	
	Fertilizer Applied N	150		150		180		200		120		150		150		--	
	Fertilizer Applied P	75		75		60		80		60		75		75		--	
	Fertilizer Applied K	37.5		37.5		50		60		40		40		75		--	

GRAIN YIELD & SUPERIORITY OVER THE BIO-9681

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE/										Zn 4		OV'L			
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	COIM	MEAN	MEAN	MEAN	MEAN				
1	MCH-36	75.8	26.4	-	42.6	20.7	42.4	27	27	27	27	27	27	27	27	27	
CHECKS																	
2	BIO-9681	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	SEEDTEC-2324	76	20.5	-	45	18.3	49.2	23	28.2	28.2	28.2	28.2	28.2	28.2	28.2	28.2	
4	HQPM-1	25.5	-	-	59	-	8.5	-	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	
5	HQPM-7	48	3.3	-	16.9	7.6	31.8	-	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	

TABLE No.17 (Cont..)

GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324										
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN
1	MCH-36	-	4.9	-	-	2.1	-	-	3.2	-
CHECKS										
2	BIO-9681	-	-	10	-	-	-	-	-	-
3	SEEDTEC-2324	-	-	-	-	-	-	-	-	-
4	HQPM-1	-	-	6.7	9.7	-	-	-	-	-
5	HQPM-7	-	-	2.6	-	-	-	-	-	-

GRAIN YIELD & SUPERIORITY OVER THE HQPM-1										
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN
1	MCH-36	40	30.3	-	-	24.1	31.2	57.3	22.5	-
CHECKS										
2	BIO-9681	-	3.1	3	-	2.8	-	23.9	-	-
3	SEEDTEC-2324	40.2	24.2	-	-	21.6	37.5	52.4	23.7	-
4	HQPM-1	-	-	-	-	-	-	-	-	-
5	HQPM-7	17.9	6.4	-	-	10.6	21.5	10.6	5.1	-

GRAIN YIELD & SUPERIORITY OVER THE HQPM-7										
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	ZN 4 MEAN
1	MCH-36	18.7	22.4	-	22.1	12.2	8	42.2	16.6	-
CHECKS										
2	BIO-9681	-	-	7.2	-	-	-	12	-	-
3	SEEDTEC-2324	18.9	16.7	-	24.1	9.9	13.2	37.8	17.7	-
4	HQPM-1	-	-	4.1	36.1	-	-	-	-	-
5	HQPM-7	-	-	-	-	-	-	-	-	-

TABLE No.17 (Cont..)

SI	No. PEDIGREE	DAYS TO 50% POLLEN SHED										DAYS TO 50% SILKING										Zone Mean
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean					
1	MCH-36	55.3	54.8	53.5	51.3	59.3	51.8	57.0	54.7	56.0	55.8	53.0	60.3	53.8	59.0	56.2						
	CHECKS																					
2	BIO-9681	55.5	54.8	50.0	49.5	58.0	48.3	54.0	52.9	56.5	55.8	51.8	59.0	50.5	54.6							
3	SEEDTEC-2324	54.8	53.3	53.8	51.5	59.5	51.5	56.8	54.7	55.8	56.3	53.8	60.5	53.5	56.3							
4	HQPM-1	54.8	55.0	53.5	50.8	59.8	51.8	56.8	54.6	55.8	56.0	52.8	60.8	53.5	56.3							
5	HQPM-7	55.3	55.3	53.0	50.3	60.8	52.0	56.8	54.8	56.3	56.5	55.8	61.8	53.5	56.4							
	Loc. Mean	55.1	55.0	52.8	50.7	59.5	51.1	56.3	54.3	56.1	56.1	55.2	60.5	53.0	56.0							
	C.D. (5%)	1.77	1.27	0.99	1.23	2.28	0.96	0.86	0.85	1.68	1.37	0.97	2.28	1.27	0.81							
	C.V. (%)	2.08	1.50	1.22	1.58	2.49	1.23	0.99	1.43	1.95	1.59	1.15	2.45	1.56	1.31							
	F (Prob.)	0.84	0.83	0.00	0.03	0.20	0.00	0.00	0.00	0.83	0.71	0.00	0.20	0.00	0.00							

SI	No. PEDIGREE	DAYS TO 75% DRY HUSK										MOISTURE % AT HARVEST										Zone Mean
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean					
1	MCH-36	95.0	95.0	100.5	77.5	102.8	98.0	110.0	97.0	26.6	25.9	31.8	12.0	15.0	18.0	20.9	21.4					
	CHECKS																					
2	BIO-9681	92.3	93.0	97.8	76.8	101.0	93.0	108.0	94.5	18.8	17.3	25.1	12.5	14.1	15.8	16.5	17.1					
3	SEEDTEC-2324	95.0	95.3	101.3	77.3	102.8	97.0	110.0	96.9	27.3	23.1	28.9	11.8	15.2	17.1	21.1	20.6					
4	HQPM-1	97.8	97.3	101.3	77.5	103.0	99.5	110.0	98.0	25.4	27.8	31.9	12.8	14.1	16.5	19.1	21.1					
5	HQPM-7	96.3	96.5	104.5	77.3	103.8	99.8	110.0	98.3	27.4	25.3	30.6	11.5	14.8	16.4	18.2	20.6					
	Loc. Mean	95.3	95.4	101.1	77.3	102.7	97.5	109.6	97.0	25.1	23.9	29.6	12.1	14.7	16.7	19.1	20.2					
	C.D. (5%)	2.11	2.13	1.13	0.98	2.77	3.39	-	1.15	1.18	1.30	1.51	0.98	0.84	0.82	0.34	2.08					
	C.V. (%)	1.44	1.45	0.73	0.83	1.75	2.26	-	1.07	3.05	3.55	3.31	5.28	3.73	3.18	1.16	9.34					
	F (Prob.)	0.00	0.01	0.00	0.48	0.34	0.01	-	0.00	0.00	0.00	0.00	0.09	0.04	0.00	0.00	0.00					

TABLE No.17 (Cont..)

SI	No. PEDIGREE	PLANT HEIGHT (cm)										Zone Mean					
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	ARB1	ARB2		HYDE	KARI	KOLH	MAND	COIM
1	MCH-36	201	189	226	207	201	185	211	203	108	98	81	84	104	91	126	99
	CHECKS																
2	BIO-9681	180	186	225	199	198	160	203	193	86	78	73	65	100	77	103	83
3	SEEDTEC-2324	196	188	233	213	208	180	203	203	114	92	93	85	110	86	123	100
4	HQPM-1	187	174	225	210	221	176	201	199	94	87	87	78	111	84	110	93
5	HQPM-7	190	182	243	230	221	193	202	209	98	95	96	85	114	95	122	101
	Loc. Mean	190	184	230	212	210	179	204	201	100	90	86	79	108	86	117	95
	C.D. (5%)	8.62	5.81	13.80	6.14	26.28	19.34	5.79	8.40	8.2	5.1	13.3	4.9	16.0	11.7	3.4	5.3
	C.V. (%)	2.94	2.05	3.89	1.88	8.13	7.03	1.84	3.78	5.3	3.7	10.0	4.0	9.6	8.8	1.9	5.0
	F (Prob.)	0.00	0.00	0.05	0.00	0.22	0.03	0.02	0.01	0.00	0.00	0.02	0.00	0.36	0.05	0.00	0.00

STAND AT HARVEST ('000/ha)

SI	No. PEDIGREE	GRAIN SHELLING %										Zone Mean					
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	ARB1	ARB2		HYDE	KARI	KOLH	MAND	COIM
1	MCH-36	83.6	83.9	76.3	69.8	82.8	81.2	79.5	79.6	58	55	58	65	67	55	66	60
	CHECKS																
2	BIO-9681	83.4	82.5	78.4	75.5	83.6	76.7	80.8	80.1	40	39	60	63	64	54	66	55
3	SEEDTEC-2324	85.0	82.2	76.1	68.0	84.8	81.7	78.2	79.4	58	57	58	62	66	54	66	60
4	HQPM-1	84.2	81.8	80.0	71.5	82.9	87.1	78.6	80.9	46	49	56	62	64	54	66	57
5	HQPM-7	84.5	84.2	78.1	70.8	83.0	82.9	78.3	80.2	49	51	59	64	66	57	66	59
	Loc. Mean	84.1	82.9	77.8	71.1	83.4	81.9	79.1	80.0	50	50	58	63	66	55	66	58
	C.D. (5%)	1.04	0.93	1.33	4.84	1.86	0.85	0.59	2.27	4.96	5.14	5.33	2.24	4.05	3.22	0.91	4.08
	C.V. (%)	0.81	0.73	1.11	4.42	1.45	0.68	0.49	2.57	6.44	6.62	5.94	2.30	4.01	3.81	0.89	6.33
	F (Prob.)	0.03	0.00	0.00	0.06	0.16	0.00	0.00	0.70	0.00	0.00	0.45	0.13	0.64	0.16	0.68	0.06

TABLE No. 18
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRID AT UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR,
 TRIAL No. TR69Z5 DURING KEARIF (2009)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER THE BIO-9681										
		UDAI	R	BANS	R	CHHI	R	ZN 5	MEAN	R	GODH	R	UDAI	BANS	CHHI	ZN 5	MEAN	RAIN
1	X6B 269	7441	3	7803	1	7312	2	7519	2	11659	3	7.6	39.3	87.6	37.4	32.4	-	-
2	MDMR-101	7614	2	7419	2	10064	1	8365	1	11760	2	10.1	32.4	158.2	52.9	33.6	-	-
CHECKS																		
3	BIO-9681	6914	5	5602	5	3897	6	5471	6	8805	6	-	-	-	-	-	-	-
4	SEEDTEC-2324	7181	4	7070	3	5850	3	6700	3	11822	1	3.9	26.2	50.1	22.5	34.3	-	-
5	HQPM-1	7662	1	5958	4	4926	4	6182	4	10754	4	10.8	6.4	26.4	13	22.1	-	-
6	HQPM-7	6833	6	5266	6	4802	5	5634	5	10048	5	-	-	23.2	3	14.1	-	-
Location Mean		7274		6519		6142		6645		10808								
Mean Stand		110		94		118		107		112								
C.D. (5%)		762		339		671		591		1754								
C.V. (%)		5.67		3.43		7.21		-		10.7								
F (Prob)		0.169		0		0		-		0.005								
Plot Size		14.4		14.4		18		-		9.6								
AGRONOMY DATA																		
Sowing Date		24-06		8-07		14-07		-		14-07								
Harvest Date		4-10		26-10		20-11		-		26-10								
Irrigation Nos		2		2		-		-		-								
Fertilizer Applied N		90		120		120		-		100								
Fertilizer Applied P		60		40		60		-		50								
Fertilizer Applied K		-		-		40		-		50								

TABLE No.18 (Cont..)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC-2324				GRAIN YIELD & SUPERIORITY OVER THE HQPM-1						
		UDAI	BANS	CHHI	ZN 5 MEAN	GODH	UDAI	BANS	CHHI	ZN 5 MEAN	GODH	
1	X6B 269	3.6	10.4	25	12.2	-	-	-	31	48.4	21.6	8.4
2	MDMH-101 CHECKS	6	4.9	72	24.9	-	-	-	24.5	104.3	35.3	9.4
3	BIO-9681	-	-	-	-	-	-	-	-	-	-	-
4	SEEDTEC-2324	-	-	-	-	-	-	-	18.7	18.7	8.4	9.9
5	HQPM-1	6.7	-	-	-	-	-	-	-	-	-	-
6	HQPM-7	-	-	-	-	-	-	-	-	-	-	-

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED				GRAIN YIELD & SUPERIORITY OVER THE HQPM-7					
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	ZN 5 MEAN	GODH
1	X6B 269	56.7	54.3	55.5	55.5	52.3	8.9	48.2	52.3	33.5	16
2	MDMH-101 CHECKS	53.7	52.5	55.0	53.7	50.0	11.4	40.9	109.6	48.5	17
3	BIO-9681	51.0	52.3	52.0	51.8	48.3	1.2	6.4	-	-	-
4	SEEDTEC-2324	53.7	53.8	54.8	54.1	52.0	5.1	34.3	21.8	18.9	17.7
5	HQPM-1	52.7	53.8	54.5	53.6	51.5	12.1	13.1	2.6	9.7	7
6	HQPM-7	51.7	52.8	54.0	52.8	50.3	-	-	-	-	-
	Loc. Mean	53.2	53.2	54.3	53.6	50.7	-	-	-	-	-
	C.D. (5%)	1.03	2.13	0.81	1.57	1.39	-	-	-	-	-
	C.V. (%)	1.07	2.66	0.99	1.61	1.82	-	-	-	-	-
	F (Prob.)	0.00	0.31	0.00	0.01	0.00	-	-	-	-	-

TABLE No. 18 (Cont..)

SI	No. PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	X6B 269	58.7	57.5	56.8	57.6	54.8	91.3	97.5	92.8	93.9	88.5
2	MDMH-101	56.0	56.0	55.5	55.8	52.3	89.0	92.5	95.5	92.3	84.8
	CHECKS										
3	BIO-9681	53.0	56.0	54.0	54.3	50.5	86.0	96.5	87.8	90.1	83.0
4	SEEDTEC-2324	56.3	57.0	56.0	56.4	54.8	89.3	95.3	92.3	92.3	86.3
5	HQPM-1	54.7	56.8	55.5	55.6	54.0	87.3	95.3	96.3	92.9	84.8
6	HQPM-7	53.7	56.0	55.8	55.1	52.0	85.7	94.0	93.0	90.9	83.0
	Loc. Mean	55.4	56.5	55.6	55.8	53.0	88.1	95.2	92.9	92.1	85.0
	C.D. (5%)	0.92	1.78	0.84	1.64	1.36	1.72	2.10	0.76	4.31	1.39
	C.V. (%)	0.91	2.09	1.00	1.61	1.70	1.07	1.47	0.54	2.57	1.09
	F (Prob.)	0.00	0.37	0.00	0.02	0.00	0.00	0.00	0.00	0.46	0.00

SI	No. PEDIGREE	MOISTURE % AT HARVEST					PLANT HEIGHT (cm)				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	X6B 269	22.9	16.6	17.0	18.8	20.5	248.3	214.1	218.8	227.1	197
2	MDMH-101	23.5	16.0	18.1	19.2	22.5	210.0	200.9	211.3	207.4	183
	CHECKS										
3	BIO-9681	21.1	15.9	12.9	16.6	12.9	193.3	202.8	174.0	190.1	192
4	SEEDTEC-2324	23.3	16.3	17.8	19.1	20.5	200.0	197.7	202.8	200.1	188
5	HQPM-1	22.4	16.0	17.4	18.6	18.4	205.0	176.2	192.3	191.2	190
6	HQPM-7	22.6	15.8	14.9	17.7	17.7	216.7	205.9	210.0	210.9	194
	Loc. Mean	22.6	16.1	16.3	18.3	18.7	212.2	199.6	201.5	204.4	191
	C.D. (5%)	1.47	0.29	0.64	1.82	2.10	15.6	5.7	13.6	19.2	15.52
	C.V. (%)	3.58	1.20	2.61	5.46	7.44	4.0	1.9	4.5	5.2	5.40
	F (Prob.)	0.05	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.01	0.52

TABLE No.18 (Cont..)

SI	No. PEDIGREE	EAR HEIGHT (cm)				GRAIN SHELLING %				Zone	
		UDAI	BANS	CHHI	Mean	GODH	UDAI	BANS	CHHI	Mean	GODH
1	X6B 269	116.7	98.2	102.8	105.9	99	82.42	77.64	83.10	81.05	76.0
2	MDMH-101 CHECKS	95.0	81.7	107.0	94.6	88	82.27	75.85	80.80	79.64	79.2
3	BIO-9681	81.7	96.1	79.5	85.8	95	81.90	70.70	85.55	79.38	75.5
4	SEEDTEC-2324	91.7	109.4	107.8	102.9	102	82.17	73.49	89.70	81.79	78.6
5	HQPM-1	95.0	82.9	95.0	91.0	103	83.25	73.74	85.15	80.71	79.9
6	HQPM-7	93.3	86.5	104.5	94.8	100	81.39	69.58	82.65	77.87	76.5
	Loc. Mean	95.6	92.4	99.4	95.8	98	82.23	73.50	84.49	80.07	77.6
	C.D. (5%)	8.4	2.8	6.3	18.0	13.80	1.65	0.97	1.04	4.67	2.96
	C.V. (%)	4.8	2.0	4.2	10.3	9.37	1.10	0.87	0.82	3.21	2.53
	F (Prob.)	0.00	0.00	0.00	0.22	0.25	0.31	0.00	0.00	0.52	0.03

STAND AT HARVEST ('000/ha)

SI	No. PEDIGREE	STAND AT HARVEST ('000/ha)				Zone	
		UDAI	BANS	CHHI	Mean	Mean	Mean
1	X6B 269	74.3	65.8	66.2	68.8		
2	MDMH-101 CHECKS	75.2	65.6	61.0	67.3		
3	BIO-9681	77.8	65.6	66.7	70.0		
4	SEEDTEC-2324	74.3	65.6	64.4	68.1		
5	HQPM-1	78.9	64.4	65.6	69.6		
6	HQPM-7	77.3	64.2	68.2	69.9		
	Loc. Mean	76.3	65.2	65.3	69.0		
	C.D. (5%)	4.48	1.55	3.43	3.36		
	C.V. (%)	3.23	1.58	3.48	2.68		
	F (Prob.)	0.18	0.16	0.01	0.43		

TABLE No. 19
 PERFORMANCE OF MEDIUM MATURING COMPOSITES AT BAJAURA, BARAPANI MEGHALAYA, UDHAMPUR(R), KANGRA
 IN AET 2nd YEAR, TRIAL No. TR7021 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE								GRAIN YIELD & SUPERIORITY OVER THE HM-8							
		BAJA	R	BARA	R	KANG	R	MEAN	R	RAIN UDHA	R	BAJA	BARA	KANG	ZN 1 MEAN	RAIN UDHA	
1	BH-4062 (RETEST)	6920	4	1200	4	4999	1	4373	4	2979	3	-	-	0.3	-	-	
CHECKS																	
2	HM-8	7477	3	1635	1	4984	2	4699	2	3002	2	-	-	-	-	-	
3	HM-9	7574	2	1572	2	4586	4	4578	3	3044	1	1.3	-	-	-	1.4	
4	HM-10	8052	1	1448	3	4731	3	4743	1	2786	4	7.7	-	-	-	-	
	Location Mean	7506		1464		4825		4598		2953							
	Mean Stand	86		77		52		72		81							
	C.D. (5%)	1258		301		504		688		670							
	C.V. (%)	13.54		14.76		6.41		-		18.34							
	F (Prob)	0.066		0.025		0.032		-		0.932							
	Plot Size	12.6		18		9.6		-		18							
AGRONOMY DATA																	
	Sowing Date	29-06		25-06		18-06		-		11-07							
	Harvest Date	11-11		-		8-10		-		27-10							
	Irrigation Nos	3		-		-		-		-							
	Fertilizer Applied N	120		-		120		-		80							
	Fertilizer Applied P	60		-		60		-		60							
	Fertilizer Applied K	40		-		40		-		40							

Table No. 19 (Continued)

SI	GRAIN YIELD & SUPERIORITY OVER THE HM-9				GRAIN YIELD & SUPERIORITY OVER THE HM-10				
	BAJA	BARA	KANG	MEAN	BAJA	BARA	KANG	MEAN	
1 BH-4062 (RETEST)	-	-	9	-	-	-	5.7	-	6.9
CHECKS									
2 HM-8	-	4	8.7	2.6	-	12.9	5.4	-	7.8
3 HM-9	-	-	-	-	-	8.6	-	-	9.3
4 HM-10	6.3	-	3.1	3.6	-	-	-	-	-

SI	DAYS TO 50% POLLEN SHED				DAYS TO 75% DRY HUSK				MOISTURE & AT HARVEST					
	BAJA	BARA	KANG	MEAN	UDHA	BAJA	BARA	KANG	MEAN	UDHA	BAJA	BARA	KANG	MEAN
1 BH-4062 (RETEST)	65.7	61.4	53.3	60.1	58.7	106.8	104.4	92.3	101.2	95.0	23.3	22.0	25.1	23.5
CHECKS														
2 HM-8	57.7	61.8	55.5	58.3	57.5	112.5	104.6	90.3	102.5	94.2	23.4	22.8	25.8	24.0
3 HM-9	56.5	62.8	52.0	57.1	54.8	114.0	105.4	93.3	104.2	93.2	20.9	22.6	25.2	22.9
4 HM-10	59.2	62.0	54.0	58.4	57.2	110.2	104.2	86.5	100.3	94.0	20.6	22.4	25.8	22.9
Loc. Mean	59.8	62.0	53.7	58.5	57.0	110.9	104.7	90.6	102.0	94.1	22.1	22.5	25.5	23.3
C.D. (5%)	1.23	3.93	1.14	5.41	0.91	2.19	5.00	1.31	4.51	1.47	1.48	1.57	1.29	1.88
C.V. (%)	1.67	4.60	1.33	4.63	1.30	1.60	3.47	0.91	2.21	1.27	5.45	5.06	3.17	4.03
F (Prob.)	0.00	0.89	0.00	0.62	0.00	0.00	0.96	0.00	0.26	0.11	0.00	0.72	0.46	0.48

Table No. 19 (Continued)

SI	No. PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				Zone	
		BAJA	BARA	KANG	UDHA	BAJA	BARA	KANG	UDHA	Mean	UDHA
1	BH-4062 (RETEST)	174	148	236	213	89	68	124	93	106	
	CHECKS										
2	HM-8	142	147	239	187	65	70	116	83	92	
3	HM-9	140	157	233	190	70	69	121	87	85	
4	HM-10	158	141	244	210	73	71	119	88	102	
	Loc. Mean	153	148	238	200	74	69	120	88	96	
	C.D. (5%)	8.92	28.01	13.56	23.17	8.02	10.34	6.29	11.81	15.32	
	C.V. (%)	4.73	13.71	3.57	9.43	8.79	10.83	3.28	6.73	12.95	
	F (Prob.)	0.00	0.66	0.35	0.07	0.00	0.90	0.09	0.30	0.04	
SI	No. PEDIGREE	GRAIN SHELLING %				STAND AT HARVEST ('000/ha)				Zone	
		BAJA	BARA	KANG	UDHA	BAJA	BARA	KANG	UDHA	Mean	UDHA
1	BH-4062 (RETEST)	84.3	77.4	84.5	79.2	70	42	54	55	46	
	CHECKS										
2	HM-8	83.5	80.4	79.0	80.6	61	42	57	53	43	
3	HM-9	86.7	80.0	84.0	81.1	71	45	54	57	46	
4	HM-10	85.5	80.8	81.0	80.2	71	43	53	56	47	
	Loc. Mean	85.0	79.7	82.1	80.3	68	43	55	55	45	
	C.D. (5%)	0.00	2.06	0.98	0.80	5.52	7.18	2.56	6.39	8.30	
	C.V. (%)	0.00	1.88	0.75	0.81	6.59	12.14	2.93	5.80	14.92	
	F (Prob.)	0.00	0.02	0.00	0.00	0.00	0.81	0.05	0.66	0.76	

TABLE No. 20
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT DMR DELHI, LU DHIANA, KARNAL, PANTNAGAR,
 KANPUR IN AET 2nd YEAR, TRIAL No. TR70Z2 DURING KHARIF (2009)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2	
		DELH	R	KARN	R	LU DH	R	PANT	R	KANP	R	MEAN	R		
1	JH-31153	6734	2	7941	6	8332	1	10024	2	6989	7	8004	3		
2	CP-828	5808	3	10473	1	7952	3	8780	4	7736	2	8150	2		
3	KDMH-1001	4161	7	9128	3	7274	5	8097	6	7705	3	7273	5		
4	BISCO-111	4763	5	7810	7	7973	2	9202	3	7752	1	7500	4		
5	BISCO-555	7132	1	9729	2	7466	4	10209	1	7042	5	8316	1		
CHECKS															
6	HM-8	5672	4	9064	4	6845	6	7453	8	6708	8	7149	6		
7	HM-9	4477	6	7774	8	6609	7	7567	7	7176	4	6721	7		
8	MALVIYA MAKKA	3559	8	8162	5	5459	8	8566	5	6997	6	6549	8		
	Location Mean	5288		8760		7239		8737		7263		7458			
	Mean Stand	96		121		99		99		113		106			
	C.D. (5%)	374		1101		848		2274		476		1015			
	C.V. (%)	4.8		8.52		7.95		17.65		3.71		-			
	F (Prob)	0		0.001		0		0.064		0		-			
	Plot Size	16.8		12		16.38		18		14.4		-			
AGRONOMY DATA															
	Sowing Date	7-06		29-06		13-07		1-08		14-07		-			
	Harvest Date	10-08		1-10		20-10		18-11		6-11		-			
	Irrigation Nos	4		5		6		-		2		-			
	Fertilizer Applie	150		150		125		120		80		-			
	Fertilizer Applie	75		60		60		60		40		-			
	Fertilizer Applie	75		60		-		40		40		-			

TABLE No. 20 (Cont...)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HM-8					GRAIN YIELD % SUPERIORITY OVER THE HM-9						
		DELH	KARN	LUDH	PANT	KANP	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN
1	JH-31153	18.7	-	21.7	34.5	4.2	12	50.4	2.1	26.1	32.5	-	19.1
2	CP-828	2.4	15.5	16.2	17.8	15.3	14	29.7	34.7	20.3	16	7.8	21.3
3	KDMH-1001	-	0.7	6.3	8.6	14.9	1.7	-	17.4	10.1	7	7.4	8.2
4	BISCO-111	-	-	16.5	23.5	15.6	4.9	6.4	0.5	20.6	21.6	8	11.6
5	BISCO-555	25.7	7.3	9.1	37	5	16.3	59.3	25.1	13	34.9	-	23.7
CHECKS													
6	HM-8	-	-	-	-	-	-	26.7	16.6	3.6	-	-	6.4
7	HM-9	-	-	-	1.5	7	-	-	-	-	-	-	-
8	MALVIYA MAKKA	-	-	-	14.9	4.3	-	-	5	-	13.2	-	-

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED					GRAIN YIELD % SUPERIORITY OVER THE MALVIYA MAKKA						
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT	KANP	MEAN
1	JH-31153	50.5	46.0	47.3	51.0	50.3	49.0	89.2	-	52.6	17	-	22.2
2	CP-828	55.8	52.3	51.0	54.5	52.7	53.2	63.2	28.3	45.7	2.5	10.6	24.4
3	KDMH-1001	54.8	51.0	48.3	53.5	48.7	51.2	16.9	11.8	33.2	-	10.1	11.1
4	BISCO-111	54.5	49.8	50.5	52.8	51.0	51.7	33.8	-	46	7.4	10.8	14.5
5	BISCO-555	53.5	51.3	49.8	51.8	49.7	51.2	100.4	19.2	36.8	19.2	0.6	27
CHECKS													
6	HM-8	52.3	50.8	49.3	53.0	49.7	51.0	59.4	11	25.4	-	-	9.2
7	HM-9	54.3	49.3	47.0	52.3	49.7	50.5	25.8	-	21.1	-	2.6	2.6
8	MALVIYA MAKKA	52.0	47.8	46.3	51.5	52.7	50.0	-	-	-	-	-	-
Loc. Mean													
C.D. (5%)													
C.V. (%)													
F (Prob.)													

TABLE No. 20 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					Zone Mean	
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT		KANP
1	JH-31153	54.8	48.0	48.0	53.8	55.3	52.0	91.3	80.5	79.8	100.5	87.0	87.8
2	CP-828	58.5	55.3	52.3	58.3	58.0	56.5	93.0	84.8	81.8	103.3	89.0	90.4
3	KDMH-1001	55.3	53.0	49.3	49.3	53.7	52.1	88.8	85.0	81.0	102.0	86.3	88.6
4	BISCO-111	58.0	52.5	51.5	56.8	56.3	55.0	94.0	82.3	81.8	101.8	89.0	89.8
5	BISCO-555	55.8	53.8	50.8	55.0	55.0	54.1	84.5	84.0	81.5	100.5	87.7	87.6
CHECKS													
6	HM-8	55.5	53.3	50.3	56.0	54.7	53.9	86.5	84.5	80.5	100.8	86.7	87.8
7	HM-9	57.5	51.5	48.0	55.8	55.7	53.7	90.3	83.3	80.0	102.5	88.0	88.8
8	MALVIYA MAKKA	54.0	50.5	47.3	54.0	55.0	52.2	86.8	83.0	79.3	100.0	89.0	87.6
	Loc. Mean	56.2	52.2	49.7	54.8	55.5	53.7	89.4	83.4	80.7	101.4	87.8	88.5
	C.D. (5%)	2.90	3.04	1.16	8.00	4.15	1.75	4.16	3.39	0.93	1.81	2.29	2.19
	C.V. (%)	3.51	3.96	1.59	9.91	4.28	2.52	3.17	2.77	0.78	1.22	1.49	1.91
	F (Prob.)	0.03	0.00	0.00	0.47	0.55	0.00	0.00	0.16	0.00	0.01	0.11	0.10

Sl No	PEDIGREE	MOISTURE % AT HARVEST					PLANT HEIGHT (cm)					Zone Mean	
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT		KANP
1	JH-31153	35.3	30.6	32.1	25.4	15.0	27.7	180	198	180	223	226	201
2	CP-828	38.8	27.0	27.6	29.0	15.0	27.5	189	206	194	250	242	216
3	KDMH-1001	39.9	30.2	25.4	28.0	15.0	27.7	195	206	191	239	205	207
4	BISCO-111	45.1	32.0	34.1	26.0	15.0	30.4	171	204	180	235	205	199
5	BISCO-555	39.8	30.4	28.0	26.2	15.0	27.9	223	219	194	259	210	221
CHECKS													
6	HM-8	38.7	30.8	30.3	30.9	15.0	29.1	180	178	176	192	195	184
7	HM-9	38.0	27.8	27.2	32.2	15.0	28.0	181	186	166	225	195	190
8	MALVIYA MAKKA	36.6	29.6	25.5	26.8	15.0	26.7	179	180	179	205	145	178
	Loc. Mean	39.0	29.8	28.7	28.0	15.0	28.1	187	197	183	228	203	199
	C.D. (5%)	2.32	0.81	1.50	4.02	2.92	2.92	15.15	10.41	12.51	28.13	28.94	17.33
	C.V. (%)	4.04	1.85	3.55	9.74	8.01	8.01	5.51	3.60	4.66	8.38	8.15	6.71
	F (Prob.)	0.00	0.00	0.00	0.02	0.29	0.29	0.00	0.00	0.00	0.00	0.00	0.00

TABLE No. 20 (Cont...)

Sl No	PEDIGREE	EAR HEIGHT (cm)					GRAIN SHELLING %					Zone Mean	
		DELH	KARN	LUDH	PANT	KANP	Zone Mean	DELH	KARN	LUDH	PANT		KANP
1	JH-31153	95	108	99	98	103	101	87.6	79.9	87.7	85.2	72.0	82.5
2	CP-828	91	126	100	101	102	104	79.1	78.8	84.4	85.9	74.5	80.5
3	KDMH-1001	97	112	80	88	97	95	83.1	83.8	86.1	84.3	75.0	82.5
4	BISCO-111	99	122	98	101	115	107	86.0	82.8	88.4	84.6	75.5	83.4
5	BISCO-555	133	128	105	102	105	115	81.6	76.0	85.3	84.0	73.0	80.0
CHECKS													
6	HM-8	95	99	85	90	91	92	84.3	82.8	85.7	85.7	72.0	82.1
7	HM-9	100	111	85	86	128	102	81.8	77.5	87.3	83.3	74.0	80.8
8	MALVIYA MAKKA	89	100	90	79	81	88	84.2	77.0	87.8	84.6	72.5	81.2
	Loc. Mean	100	113	93	93	103	100	83.5	79.8	86.6	84.7	73.6	81.6
	C.D. (5%)	9.32	16.76	18.04	8.06	36.48	11.15	1.85	0.96	0.98		0.80	2.39
	C.V. (%)	6.35	10.08	13.24	5.89	20.26	8.58	1.51	0.82	0.77		0.62	2.26
	F (Prob.)	0.00	0.01	0.09	0.00	0.28	0.00	0.00	0.00	0.00		0.00	0.08

STAND AT HARVEST ('000/ha)

Sl No	PEDIGREE	STAND AT HARVEST ('000/ha)					Zone Mean
		DELH	KARN	LUDH	PANT	KANP	
1	JH-31153	173	104	61	57	79	95
2	CP-828	144	100	63	49	80	87
3	KDMH-1001	166	94	58	48	79	89
4	BISCO-111	165	104	62	57	80	94
5	BISCO-555	146	102	60	57	78	89
CHECKS							
6	HM-8	163	100	60	55	77	91
7	HM-9	155	103	61	57	79	91
8	MALVIYA MAKKA	174	99	58	58	78	93
	Loc. Mean	161	101	61	55	79	91
	C.D. (5%)	39	12	6	6	2	7
	C.V. (%)	17	8	6	8	1	6
	F (Prob.)	0.65	0.63	0.57	0.01	0.03	0.37

TABLE No. 21
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT BAHARAICH, DHOLI, JASHIPUR, VARANASI, RANCHI,
 AMBIKAPUR IN AET 2nd YEAR, TRIAL No. TR7023 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		BAHR	R	DHOL	R	JASH	R	VARA	R	RANC	R	AMBI	R	MEAN	R
1	JH-31153	7442	1	5598	3	6246	3	6942	3	7820	3	6415	1	6744	2
2	BISCO-111	6290	2	5730	2	6662	2	6181	4	7830	2	6096	4	6465	4
3	CP-838	6086	3	5758	1	6721	1	10777	1	8617	1	6252	3	7368	1
CHECKS															
4	HM-8	5820	4	5070	4	5355	5	10357	2	7685	4	5695	5	6664	3
5	HM-9	4907	6	3968	5	5825	4	4886	6	6432	5	6263	2	5380	5
6	MALVIYA MAKKA-2	5567	5	3862	6	4814	6	5669	5	6361	6	5214	6	5248	6
Location Mean		6018		4998		5937		7469		7457		5989		6311	
Mean Stand		101		90		82		109		90		103		96	
C.D. (5%)		314		543		94		460		964		1070		574	
C.V. (%)		3.44		7.17		1.05		4.06		8.52		11.78		-	
F (Prob)		0		0		0		0		0.006		0.037		-	
Plot Size		14.4		18		14.4		9.6		16.8		18		-	
AGRONOMY DATA															
Sowing Date		4-07		7-07		27-07		1-07		8-07		18-07		-	
Harvest Date		15-10		-		7-11		16-10		19-10		-		-	
Irrigation Nos		-		-		-		2		-		-		-	
Fertilizer Applie		120		120		120		100		-		120		-	
Fertilizer Applie		60		60		60		60		-		60		-	
Fertilizer Applie		60		40		60		40		-		40		-	

TABLE No. 21....

SI	No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HM-8										GRAIN YIELD & SUPERIORITY OVER THE HM-9									
		BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3 MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3 MEAN						
1	JH-31153	27.9	10.4	16.6	-	1.8	12.6	1.2	51.7	41.1	7.2	42.1	21.6	2.4	25.4						
2	BISCO-111	8.1	13	24.4	-	1.9	7.1	-	28.2	44.4	14.4	26.5	21.7	-	20.2						
3	CP-838	4.6	13.6	25.5	4.1	12.1	9.8	10.6	24	45.1	15.4	120.6	34	-	37						
	CHECKS																				
4	HM-8	-	-	-	-	-	-	-	18.6	27.8	-	112	19.5	-	23.9						
5	HM-9	-	-	8.8	-	-	10	-	-	-	-	-	-	-	-						
6	MALVIYA MAKKA-2	-	-	-	-	-	-	-	13.4	-	16	-	-	-	-						

SI	No. PEDIGREE	DAYS TO 50% POLLEN SHED										GRAIN YIELD & SUPERIORITY OVER THE MALVIYA MAKKA-2									
		BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3 MEAN						
1	JH-31153	52.3	51.0	45.5	54.8	48.3	45.0	49.5	33.7	44.9	29.7	22.5	23	23	28.5						
2	BISCO-111	55.5	54.0	48.3	57.8	50.0	47.3	52.1	13	48.4	38.4	9	23.1	16.9	23.2						
3	CP-838	53.5	52.3	48.0	58.3	49.0	50.5	51.9	9.3	49.1	39.6	90.1	35.5	19.9	40.4						
	CHECKS																				
4	HM-8	54.5	54.8	48.3	53.0	50.8	52.8	52.3	4.5	31.3	11.3	82.7	20.8	9.2	27						
5	HM-9	52.5	52.3	47.3	57.3	50.8	49.0	51.5	-	2.7	21	-	1.1	20.1	2.5						
6	MALVIYA MAKKA-2	50.5	50.8	45.3	52.5	47.5	46.5	48.8	-	-	-	-	-	-	-						
	Loc. Mean	53.1	52.5	47.1	55.6	49.4	48.5	51.0													
	C.D. (5%)	1.00	1.08	1.38	1.64	1.66	1.30	1.71													
	C.V. (%)	1.25	1.36	1.94	1.96	2.24	1.78	2.81													
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00													

Table No. 21 (Continued)

SI No. PEDIGREE	DAYS TO 50% SILKING							DAYS TO 75% DRY HUSK							Zone Mean
	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	
1 JH-31153	54.3	52.0	48.3	58.3	52.3	47.8	52.1	281.0	88.8	89.5	95.3	98.3	87.5	90.1	
2 BISCO-111	57.5	55.0	51.3	62.0	54.3	50.0	55.0	285.3	88.3	91.0	96.5	99.0	92.8	92.1	
3 CP-838	55.5	53.5	50.8	62.8	53.0	53.0	54.8	286.8	88.3	92.0	95.8	99.5	90.3	92.1	
CHECKS															
4 HM-8	56.5	55.8	53.0	56.5	54.8	55.3	55.3	283.3	88.3	90.0	93.8	99.5	91.5	91.0	
5 HM-9	54.5	52.8	50.5	60.8	54.8	51.8	54.2	284.8	88.0	91.0	96.8	98.8	90.3	91.6	
6 MALVIYA MAKKA-2	52.5	51.8	47.8	56.5	51.5	50.0	51.7	282.8	86.3	88.5	94.5	97.0	86.8	89.3	
Loc. Mean	55.1	53.5	50.3	59.5	53.4	51.3	53.8	284.0	88.0	90.3	95.4	98.7	89.8	91.0	
C.D. (5%)	1.00	1.04	1.95	1.59	1.74	2.11	1.81	02.56	2.03	1.97	1.75	1.28	0.95	1.32	
C.V. (%)	1.21	1.29	2.58	1.78	2.16	2.73	2.83	02.02	1.53	1.45	1.22	0.86	0.70	1.22	
F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	00.00	0.20	0.02	0.02	0.01	0.00	0.00	

SI No. PEDIGREE	MOISTURE % AT HARVEST							PLANT HEIGHT (cm)							Zone Mean
	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	
1 JH-31153	4.0	20.5	17.1	26.1	19.8	21.5	21.5	207	166	152	225	180	217	191	
2 BISCO-111	6.0	18.9	17.2	28.2	19.1	21.9	21.9	212	164	140	215	192	224	191	
3 CP-838	6.6	21.6	17.3	31.2	20.2	23.4	23.4	223	178	149	238	186	225	200	
CHECKS															
4 HM-8	3.9	21.2	16.8	23.7	20.8	21.3	21.3	197	160	125	218	192	209	183	
5 HM-9	4.1	18.2	16.9	27.6	19.7	21.3	21.3	191	155	143	213	192	208	184	
6 MALVIYA MAKKA-2	4.0	18.9	16.7	30.2	20.3	22.0	22.0	205	158	127	215	196	182	181	
Loc. Mean	4.7	19.9	17.0	27.8	20.0	21.9	21.9	206	163	140	220	190	211	188	
C.D. (5%)	.21-		0.27	0.50	0.89	1.88	1.88	4.01	12.44	6.69	3.60	11.55	7.83	10.38	
C.V. (%)	.56-		1.04	1.18	2.95	6.52	6.52	4.52	5.05	3.18	1.08	4.04	2.47	4.64	
F (Prob.)	.00	0.00	0.00	0.00	0.02	0.23	0.23	0.00	0.02	0.00	0.00	0.11	0.00	0.01	

TABLE No. 21...

SI	No. PEDIGREE	EAR HEIGHT (cm)						GRAIN SHELLING %						Zone Mean
		BAHR	DHOL	JASH	VARA	RANC	AMBI	BAHR	JASH	VARA	RANC	AMBI		
1	JH-31153	118	89	64	118	81	72	80.4	79.9	78.8	88.2	85.0	82.4	
2	BISCO-111	117	84	52	125	99	72	77.0	79.8	74.8	87.9	84.3	80.7	
3	CP-838	111	77	49	128	89	75	77.9	77.9	76.0	88.8	83.7	80.8	
	CHECKS													
4	HM-8	112	79	43	125	94	65	79.4	78.8	75.3	88.6	85.0	81.4	
5	HM-9	111	77	51	103	92	69	72.7	78.0	74.5	85.7	83.5	78.9	
6	MAJVIYA MAKKA-2	110	81	51	110	93	66	80.0	79.7	76.8	86.6	84.3	81.5	
	Loc. Mean	113	81	52	118	91	70	77.9	79.0	76.0	87.6	84.3	80.9	
	C.D. (5%)	15.62	14.11	7.00	4.53	11.50	7.68	1.55	0.81	0.66	1.38	1.90	1.65	
	C.V. (%)	9.17	11.56	8.99	2.55	8.36	7.28	1.32	0.68	0.58	1.04	1.50	1.55	
	F (Prob.)	0.84	0.45	0.00	0.00	0.10	0.13	0.00	0.00	0.00	0.00	0.49	0.01	

STAND AT HARVEST ('000/ha)

SI	No. PEDIGREE	STAND AT HARVEST ('000/ha)						Zone Mean	
		BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	
1	JH-31153	72	50	57	114	60	63	69	
2	BISCO-111	70	49	57	110	52	60	66	
3	CP-838	68	48	57	112	49	47	63	
	CHECKS								
4	HM-8	71	50	58	112	51	57	66	
5	HM-9	68	52	57	114	57	66	69	
6	MAJVIYA MAKKA-2	70	51	57	117	54	52	67	
	Loc. Mean	70	50	57	113	54	57	67	
	C.D. (5%)	2.72	4.29	1.81	4.68	8.09	9.87	3.73	
	C.V. (%)	2.58	5.68	2.10	2.74	9.98	11.44	4.70	
	F (Prob.)	0.05	0.50	0.84	0.11	0.10	0.01	0.04	

TABLE No. 22
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT HYDERABAD, KARIMNAGAR, ARBHAVI (1), ARBHAVI (2),
 MANDYA, COIMBATORE, KOLHAPUR, KAVARI SEEDS HYDERABAD IN AET 2nd YEAR, TRIAL No. TR7024 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
		ARB1	R	ARB2	R	HYDE	R	KARI	R	KOLH	R	MAND	R	COIM	R	KAVE	R	ZN 4	
1	BH-4062 (RETEST)	6733	3	7249	3	7345	1	4748	1	8884	2	10096	2	11146	3	7845	3	8006	2
2	BISCO-111	7481	2	8097	1	6645	2	4205	4	9252	1	10180	1	11666	2	8384	2	8239	1
3	KAVARI-25K60	7774	1	7331	2	5990	3	4266	3	5586	6	9395	3	12951	1	10705	1	8000	3
CHECKS																			
4	HM-8	5897	4	6489	5	4525	6	4506	2	6500	4	7707	5	9849	5	7547	4	6627	5
5	HM-9	5848	5	7053	4	5456	4	3874	5	6182	5	8132	4	10624	4	6712	5	6735	4
6	MALVIYA MAKKA-2	4223	6	3690	6	5218	5	3701	6	7182	3	7572	6	8746	6	6269	6	5825	6
	Location Mean	6326		6652		5863		4217		7264		8847		10830		7910		7239	
	Mean Stand	99		100		93		110		100		81		96		84		95	
	C.D. (5%)	957		1534		1560		323		1624		855		717		979		1069	
	C.V. (%)	9.98		15.21		17.55		5.05		14.74		6.38		4.36		8.16		-	
	F (Prob)	0		0		0.003		0		0		0		0		0.002		-	
	Plot Size	18		18		18		18		18		14		14.4		14.4		-	
AGRONOMY DATA																			
	Sowing Date	17-07		17-07		6-07		12-07		7-11		22-07		9-07		23-06		-	
	Harvest Date	6-11		6-11		16-11		18-10		12-02		30-11		4-11		10-10		-	
	Irrigation Nos	6		6		2		-		-		6		10		8		-	
	Fertilizer Applie	150		150		180		200		120		-50		150		150		-	
	Fertilizer Applie	75		75		60		80		60		75		75		60		-	
	Fertilizer Applie	37.5		37.5		50		60		40		40		75		60		-	

TABLE No. 22 (Cont...)

GRAIN YIELD & SUPERIORITY OVER THE HM-8												
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	HYDE	KAVE	ZN 4
												MEAN
1	BH-4062	(RETEST)	14.2	11.7	62.3	5.4	36.7	31	13.2	4	20.8	
2	BISCO-111		26.9	24.8	46.9	-	42.3	32.1	18.5	11.1	24.3	
3	KAVERI-25K60		31.8	13	32.4	-	-	21.9	31.5	41.8	20.7	
CHECKS												
4	HM-8		-	-	-	-	-	-	-	-	-	-
5	HM-9		-	8.7	20.6	-	-	5.5	7.9	-	-	1.6
6	MALVIYA MAKKA-2		-	-	15.3	-	10.5	-	-	-	-	-
GRAIN YIELD & SUPERIORITY OVER THE HM-9												
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	HYDE	KAVE	ZN 4
												MEAN
1	BH-4062	(RETEST)	15.1	2.8	34.6	22.5	43.7	24.1	4.9	16.9	18.9	
2	BISCO-111		27.9	14.8	21.8	8.5	49.7	25.2	9.8	24.9	22.3	
3	KAVERI-25K60		32.9	3.9	9.8	10.1	-	15.5	21.9	59.5	18.8	
CHECKS												
4	HM-8		0.8	-	-	16.3	5.2	-	-	12.4	-	-
5	HM-9		-	-	-	-	-	-	-	-	-	-
6	MALVIYA MAKKA-2		-	-	-	-	16.2	-	-	-	-	-
GRAIN YIELD & SUPERIORITY OVER THE MALVIYA MAKKA-2												
Sl	No	PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	HYDE	KAVE	ZN 4
												MEAN
1	BH-4062	(RETEST)	59.4	96.5	40.8	28.3	23.7	33.3	27.4	25.1	37.4	
2	BISCO-111		77.2	119.4	27.4	13.6	28.8	34.4	33.4	33.7	41.4	
3	KAVERI-25K60		84.1	98.7	14.8	15.3	-	24.1	48.1	70.7	37.3	
CHECKS												
4	HM-8		39.6	75.8	-	21.8	-	1.8	12.6	20.4	13.8	
5	HM-9		38.5	91.1	4.6	4.7	-	7.4	21.5	7.1	15.6	
6	MALVIYA MAKKA-2		-	-	-	-	-	-	-	-	-	

Table No. 22 (Continued)

SI	No. PEDIGREE	DAYS TO 50% POLLEN SHED										HYDE		Zone	
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	KAVE	Mean					
1	BH-4062 (RETEST)	57.8	57.5	50.8	53.3	58.5	52.8	52.5	52.5	53.5	53.5	54.3	54.8		
2	BISCO-111	55.5	55.5	53.5	51.8	51.0	49.8	50.5	52.0	52.0	52.0	52.4	52.4		
3	KAVERI-25K60	57.0	57.3	53.3	51.3	56.5	52.5	52.8	54.0	54.0	54.3	54.3	54.3		
	CHECKS														
4	HM-8	56.5	57.5	53.5	51.3	57.0	52.5	52.3	53.5	53.5	54.3	54.3	54.3		
5	HM-9	55.5	56.8	51.8	49.3	53.8	48.8	49.5	51.3	51.3	52.1	52.1	52.1		
6	MALVIYA MAKKA-2	53.3	52.5	54.8	46.5	47.3	46.5	46.0	49.8	49.8	49.6	49.6	49.6		
	Loc. Mean	55.9	56.2	52.9	50.5	54.0	50.5	50.6	52.6	52.6	52.9	52.9	52.9		
	C.D. (5%)	1.78	1.48	2.31	1.97	5.00	1.09	0.50	1.58	1.58	1.63	1.63	1.63		
	C.V. (%)	2.12	1.75	2.89	2.59	6.14	1.43	0.66	1.99	1.99	3.04	3.04	3.04		
	F (Prob.)	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

SI	No. PEDIGREE	DAYS TO 50% SILKING										HYDE		Zone	
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	KAVE	Mean					
1	BH-4062 (RETEST)	58.8	59.0	53.3	55.3	59.5	55.0	54.8	58.3	58.3	56.7	56.7	56.7		
2	BISCO-111	56.5	57.0	56.0	54.0	52.0	51.8	52.5	54.5	54.5	54.3	54.3	54.3		
3	KAVERI-25K60	58.5	58.5	55.8	53.0	57.5	54.8	54.8	55.0	55.0	56.0	56.0	56.0		
	CHECKS														
4	HM-8	57.8	58.5	55.8	53.8	58.0	55.0	54.3	54.8	54.8	56.0	56.0	56.0		
5	HM-9	56.5	57.3	54.3	52.0	54.8	50.8	51.5	54.0	54.0	53.9	53.9	53.9		
6	MALVIYA MAKKA-2	55.0	54.0	55.3	48.5	48.3	48.5	48.0	53.5	53.5	51.4	51.4	51.4		
	Loc. Mean	57.2	57.4	55.0	52.8	55.0	52.6	52.6	55.0	55.0	54.7	54.7	54.7		
	C.D. (5%)	1.89	1.38	1.68	1.65	5.00	1.43	0.57	1.60	1.60	1.56	1.56	1.56		
	C.V. (%)	2.19	1.60	2.02	2.08	6.03	1.80	0.72	1.93	1.93	2.80	2.80	2.80		
	F (Prob.)	0.01	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

Table No. 22 (Continued)

SI No. PEDIGREE	DAYS TO 75% DRY HUSK										HYDE KAVE	Zone Mean
	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	COIM	COIM	COIM		
1 BH-4062 (RETEST)	92.5	92.0	95.5	79.8	97.5	94.5	105.0	105.0	105.0	105.0	94.5	93.9
2 BISCO-111	93.3	93.0	97.5	80.0	92.3	94.0	100.0	100.0	100.0	100.0	92.8	92.8
3 KAVERI-25K60 CHECKS	93.8	93.8	98.8	77.3	95.5	96.3	105.0	105.0	105.0	105.0	96.0	94.5
4 HM-8	93.3	91.3	98.5	78.3	96.0	92.0	105.0	105.0	105.0	105.0	94.8	93.6
5 HM-9	93.3	92.8	96.3	77.8	94.5	92.0	100.0	100.0	100.0	100.0	93.0	92.4
6 MALVIYA MAKKA-2 Loc. Mean	88.3	88.0	98.3	77.5	90.0	87.0	98.5	98.5	98.5	98.5	89.0	89.6
C.D. (5%)	92.4	91.8	97.5	78.4	94.3	92.6	102.3	102.3	102.3	102.3	93.3	92.8
C.V. (%)	1.05	2.75	2.36	0.99	3.97	5.51	0.62	0.62	0.62	0.62	2.62	1.70
F (Prob.)	0.75	1.98	1.61	0.84	2.79	3.95	0.40	0.40	0.40	0.40	1.87	1.81
F (Prob.)	0.00	0.01	0.05	0.00	0.01	0.04	0.00	0.00	0.00	0.00	0.00	0.00

MOISTURE % AT HARVEST

SI No. PEDIGREE	MOISTURE % AT HARVEST										HYDE KAVE	Zone Mean
	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	COIM	COIM	COIM		
1 BH-4062 (RETEST)	36.9	34.2	29.7	14.8	15.0	16.5	18.6	18.6	18.6	18.6	12.6	22.3
2 BISCO-111	34.3	31.3	34.3	14.0	14.4	17.0	19.2	19.2	19.2	19.2	11.7	22.0
3 KAVERI-25K60 CHECKS	33.1	35.8	34.9	14.3	14.0	16.3	18.7	18.7	18.7	18.7	12.1	22.4
4 HM-8	35.0	33.3	36.2	13.5	14.5	17.6	19.7	19.7	19.7	19.7	12.1	22.7
5 HM-9	28.7	25.6	27.2	13.8	14.9	16.8	17.6	17.6	17.6	17.6	12.2	19.6
6 MALVIYA MAKKA-2 Loc. Mean	26.4	25.0	30.8	13.3	13.9	16.5	18.1	18.1	18.1	18.1	12.2	19.5
C.D. (5%)	32.4	30.9	32.2	13.9	14.4	16.8	18.6	18.6	18.6	18.6	12.1	21.4
C.V. (%)	2.86	5.58	1.68	1.04	0.62	0.56	1.38	1.38	1.38	1.38	1.03	2.22
F (Prob.)	5.85	11.99	3.46	4.97	2.83	2.22	4.93	4.93	4.93	4.93	5.63	10.21
F (Prob.)	0.00	0.00	0.00	0.08	0.01	0.00	0.06	0.06	0.06	0.06	0.56	0.01

Table No. 22 (Continued)

SI	No. PEDIGREE	PLANT HEIGHT (cm)										HYDE KAVE	Zone Mean
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	COIM	COIM	Zone Mean		
1	BH-4062 (RETEST)	202	113	218	234	203	203	220	225	202	202	225	202
2	BISCO-111	173	100	229	213	175	182	201	215	186	186	215	186
3	KAVERI-25K60	196	95	223	231	181	201	225	237	199	199	237	199
	CHECKS												
4	HM-8	165	90	205	180	164	183	181	201	171	171	201	171
5	HM-9	162	85	220	201	168	177	197	203	177	177	203	177
6	MALVIYA MAKKA-2	171	65	201	187	180	168	193	194	170	170	194	170
	Loc. Mean	178	91	216	208	178	185	203	212	184	184	212	184
	C.D. (5%)	4.88	7.39	24.42	5.10	27.98	15.83	6.83	13.78	8.82	8.82	13.78	8.82
	C.V. (%)	1.82	5.37	7.51	1.63	10.41	5.67	2.23	4.31	4.72	4.72	4.31	4.72
	F (Prob.)	0.00	0.00	0.18	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00

SI	No. PEDIGREE	EAR HEIGHT (cm)										HYDE KAVE	Zone Mean
		ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	COIM	COIM	Zone Mean		
1	BH-4062 (RETEST)	109	117	95	95	115	101	131	89	106	106	89	106
2	BISCO-111	95	101	96	84	98	97	141	83	99	99	83	99
3	KAVERI-25K60	89	92	88	80	104	100	123	83	95	95	83	95
	CHECKS												
4	HM-8	88	86	91	69	78	95	112	79	87	87	79	87
5	HM-9	82	87	85	68	89	93	114	70	86	86	70	86
6	MALVIYA MAKKA-2	89	76	80	64	100	84	107	74	84	84	74	84
	Loc. Mean	92	93	89	77	97	95	121	80	93	93	80	93
	C.D. (5%)	4.33	3.62	13.52	5.09	19.46	1.67	23.51	9.91	6.26	6.26	9.91	6.26
	C.V. (%)	3.13	2.58	10.08	4.39	13.30	8.17	12.87	8.26	6.64	6.64	8.26	6.64
	F (Prob.)	0.00	0.00	0.17	0.00	0.02	0.07	0.06	0.01	0.00	0.00	0.01	0.00

Table No. 22 (Continued)

GRAIN SHELLING %										
SI	No. PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	Zone Mean
1	BH-4062 (RETEST)	81.8	82.1	82.8	63.0	86.3	80.7	75.1	78.8	78.8
2	BISCO-111	84.7	84.3	74.2	67.0	84.3	81.0	81.3	79.5	79.5
3	KAVERI-25K60	82.6	82.8	73.7	71.3	83.2	79.7	79.1	78.9	78.9
CHECKS										
4	HM-8	83.4	82.0	73.4	72.0	84.7	80.2	77.3	79.0	79.0
5	HM-9	82.0	84.7	72.9	73.0	84.2	78.9	78.0	79.1	79.1
6	MALVIYA MAKKA-2	84.1	82.2	78.5	75.3	84.8	83.0	82.6	81.5	81.5
Loc. Mean										
	C.D. (5%)	1.85	1.28	1.27	5.70	3.35	1.23	0.44	2.86	2.86
	C.V. (%)	1.48	1.02	1.11	5.39	2.63	1.02	0.37	3.30	3.30
	F (Prob.)	0.02	0.00	0.00	0.00	0.57	0.00	0.00	0.40	0.40
STAND AT HARVEST ('000/ha)										
SI	No. PEDIGREE	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	HYDE KAVE	Zone Mean
1	BH-4062 (RETEST)	59	58	59	62	61	58	67	62	61
2	BISCO-111	59	64	55	61	66	57	66	60	61
3	KAVERI-25K60	57	49	48	61	39	57	66	52	54
CHECKS										
4	HM-8	50	50	49	61	47	60	66	55	55
5	HM-9	57	56	51	59	57	56	67	61	58
6	MALVIYA MAKKA-2	50	54	49	62	65	58	66	59	58
Loc. Mean										
	C.D. (5%)	5	5	6	3	14	4	1	6	4
	C.V. (%)	6	7	7	3	17	5	1	7	7
	F (Prob.)	0.00	0.00	0.01	0.31	0.00	0.52	0.45	0.01	0.00

TABLE No. 23
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID AT UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR,
 TRIAL No. TR7025 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD & SUPERIORITY OVER THE HM-8					
		UDAI	R	BANS	R	CHHI	R	MEAN	R	GODH	R	RAIN	UDAI	BANS	CHHI	MEAN	RAIN
1	BISCO-555	6341	4	4344	4	4332	2	5006	3	5580	2	5580	2	-	9	-	5.1
2	BISCO-855	9767	1	5296	2	4661	1	6575	1	7454	1	7454	1	47.2	19.6	17.3	40.4
CHECKS																	
3	HM-8	6634	3	4428	3	3973	4	5012	2	5309	3	5309	3	-	-	-	-
4	HM-9	6800	2	3595	5	2958	5	4451	5	4632	5	4632	5	2.5	-	-	-
5	MALVIYA MAKKA-2	5316	5	5516	1	4071	3	4968	4	4834	4	4834	4	-	24.6	2.5	-
	Location Mean	6972		4636		3999		5202		5562		5562					
	Mean Stand	79		94		118		97		107		107					
	C.D. (5%)	837		212		807		618		1543		1543					
	C.V. (%)	6.22		2.94		12.96		-		17.82		17.82					
	F (Prob)	0		0		0.004		-		0.004		0.004					
	Plot Size	14.4		14.4		18		-		14.4		14.4					
AGRONOMY DATA																	
	Sowing Date	24-06		8-07		14-07		-		14-07		14-07					
	Harvest Date	30-09		25-10		20-11		-		10-08		10-08					
	Irrigation Nos	2		2		-		-		-		-					
	Fertilizer Applie	90		120		120		-		100		100					
	Fertilizer Applie	60		40		60		-		50		50					
	Fertilizer Applie	-		-		40		-		50		50					

TABLE NO. 23 (Cont..)

SI	No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HM-9					GRAIN YIELD & SUPERIORITY OVER THE MALVIYA MAKKA-2					ZN 5	
		UDAI	BANS	CHHI	MEAN	GODH	UDAI	BANS	CHHI	MEAN	GODH	MEAN	GODH
1	BISCO-555	-	20.8	46.5	12.5	20.5	19.3	-	6.4	0.8	15.4		
2	BISCO-855	43.6	47.3	57.6	47.7	60.9	83.7	-	14.5	32.4	54.2		
	CHECKS												
3	HM-8	-	23.2	34.3	12.6	14.6	24.8	-	-	0.9	9.8		
4	HM-9	-	-	-	-	-	27.9	-	-	-	-		
5	MALVIYA MAKKA-2	-	53.4	37.6	11.6	4.4	-	-	-	-	-		

SI	No. PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					Zone	
		UDAI	BANS	CHHI	MEAN	GODH	UDAI	BANS	CHHI	MEAN	GODH	Mean	GODH
1	BISCO-555	53.3	49.0	54.3	52.2	50.0	55.3	52.0	55.0	54.1	51.5		
2	BISCO-855	53.0	49.0	52.8	51.6	49.3	54.7	52.3	52.8	53.2	51.3		
	CHECKS												
3	HM-8	53.7	48.0	54.5	52.1	49.3	56.3	51.3	55.0	54.2	51.5		
4	HM-9	52.7	49.3	53.3	51.7	49.5	54.7	52.3	53.5	53.5	52.0		
5	MALVIYA MAKKA-2	50.3	46.0	51.5	49.3	49.3	53.7	49.0	51.5	51.4	51.3		
	Loc. Mean	52.6	48.3	53.3	51.4	49.5	54.9	51.4	53.6	53.3	51.5		
	C.D. (5%)	1.44	2.26	0.58	1.16	2.40	1.19	2.50	0.53	1.50	2.41		
	C.V. (%)	1.45	3.04	0.71	1.19	3.15	1.15	3.17	0.64	1.49	3.03		
	F (Prob.)	0.00	0.05	0.00	0.00	0.95	0.01	0.07	0.00	0.01	0.96		

TABLE NO. 23 (Cont..)

SI	No. PEDIGREE	DAYS TO 75% DRY HUSK					MOISTURE % AT HARVEST				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	BISCO-555	85.3	86.3	88.5	86.7	81.0	21.3	16.6	13.8	17.2	33.4
2	BISCO-855	89.7	83.8	87.8	87.1	79.3	21.7	16.8	16.4	18.3	37.0
	CHECKS										
3	HM-8	89.3	85.3	88.3	87.6	80.0	23.2	16.0	12.6	17.3	36.7
4	HM-9	89.7	86.5	87.3	87.8	80.8	22.0	16.0	12.6	16.8	37.1
5	MALVIYA MAKKA-2	86.7	84.0	86.5	85.7	80.3	23.0	16.4	15.9	18.4	35.5
	Loc. Mean	88.1	85.2	87.7	87.0	80.3	22.2	16.3	14.3	17.6	35.9
	C.D. (5%)	1.58	1.82	1.27	2.73	1.57	1.77	0.29	0.91	2.15	3.06
	C.V. (%)	0.95	1.39	0.94	1.67	1.27	4.24	1.15	4.12	6.50	5.54
	F (Prob.)	0.00	0.02	0.03	0.47	0.19	0.13	0.00	0.00	0.40	0.10

SI	No. PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)				
		UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1	BISCO-555	209	194	204	202	183	93.3	95.7	107.8	98.9	93
2	BISCO-855	220	183	207	203	178	103.3	91.5	101.0	98.6	90
	CHECKS										
3	HM-8	192	167	196	185	178	88.3	91.7	101.5	93.8	93
4	HM-9	170	163	201	178	162	85.0	64.1	94.0	81.0	84
5	MALVIYA MAKKA-2	193	173	193	187	169	85.0	87.6	95.0	89.2	89
	Loc. Mean	197	176	200	191	174	91.0	86.1	99.9	92.3	90
	C.D. (5%)	25.12	5.98	5.93	17.12	23.47	20.19	5.53	10.46	12.14	14.14
	C.V. (%)	6.78	2.20	1.92	4.78	8.77	11.78	4.17	6.80	6.98	10.22
	F (Prob.)	0.02	0.00	0.00	0.03	0.35	0.28	0.00	0.08	0.04	0.58

TABLE NO. 23 (Cont...)

SI No. PEDIGREE	GRAIN SHELLING %					STAND AT HARVEST ('000/ha)				
	UDAI	BANS	CHHI	Zone Mean	GODH	UDAI	BANS	CHHI	Zone Mean	GODH
1 BISCO-555	81.1	67.2	79.6	76.0	77.6	53	66	67	62	69
2 BISCO-855	83.4	69.2	82.6	78.4	79.1	61	66	66	64	77
CHECKS										
3 HM-8	77.7	76.4	82.2	78.8	76.1	56	65	63	61	74
4 HM-9	83.1	69.0	85.8	79.3	77.5	59	65	69	64	75
5 MALVIYA MAKKA-2	84.7	77.4	80.0	80.7	78.4	44	65	65	58	78
Loc. Mean	82.0	71.8	82.0	78.6	77.7	55	65	66	62	74
C.D. (5%)	5.08	1.64	0.67	6.88	0.98	6.60	1.55	2.97	7.65	6.72
C.V. (%)	3.29	1.48	0.53	4.65	0.82	6.39	1.54	2.93	6.56	5.86
F (Prob.)	0.08	0.00	0.00	0.64	0.00	0.00	0.45	0.01	0.36	0.11

TABLE NO. 24
 PERFORMANCE OF EARLY EXPERIMENTAL HYBRIDS AT UDAIPUR, GODHRA BANSWARA, CHHINDIWARA IN AET 2nd YEAR,
 TRIAL NO. TR7125 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE PARKASH								
		UDAI	R	BANS	R	CHHI	R	UDAI	BANS	CHHI	ZN 5 MEAN			
1	JH-31110	5579	2	4814	1	4647	1	5013	1	-	22.8	14.7	7.3	
CHECKS														
2	PARKASH	6051	1	3919	4	4050	4	4673	2	-	-	-	-	
3	PRATAP MAKKA-4	5295	3	4041	2	4384	2	4573	3	-	3.1	8.2	-	
4	PRATAP MAKKA-5	4898	4	3975	3	4105	3	4326	4	-	1.4	1.4	-	
Location Mean		5456		4187		4297		4647						
Mean Stand		103		93		114		103						
C.D. (5%)		861		118		255		411						
C.V. (%)		7.52		2.28		4.79		-						
F (Prob)		0.01		0		0.005		-						
Plot Size		14.4		14.4		18		-						
AGRONOMY DATA														
Sowing Date		24-06		8-07		14-07		-						
Harvest Date		14-09		23-10		20-11		-						
Irrigation Nos		2		2		-		-						
Fertilizer Applied N		90		90		120		-						
Fertilizer Applied P		60		40		60		-						
Fertilizer Applied K		-		-		40		-						
GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-4														
UDAI		5.4		19.1		6		9.6		13.9		21.1	13.2	15.9
BANS		-		-		-		-		23.5		-	-	8
CHHI		-		-		-		-		8.1		1.6	6.8	5.7
ZN 5 MEAN		-		-		-		-		-		-	-	-
GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA-5														
UDAI		13.9		21.1		13.2		15.9		-		-	-	-
BANS		-		-		-		-		-		-	-	-
CHHI		-		-		-		-		-		-	-	-
ZN 5 MEAN		-		-		-		-		-		-	-	-

Table No. 24 (Continued)

No. PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			Zone Mean	
	UDAI	BANS	CHHI	UDAI	BANS	CHHI		
1 JH-31110	50.7	44.2	50.5	48.4	52.7	47.5	51.0	50.4
CHECKS								
2 PARKASH	48.0	44.2	50.7	47.6	50.7	47.2	50.7	49.5
3 PRATAP MAKKA-4	48.7	45.7	50.3	48.2	50.7	48.7	50.7	50.0
4 PRATAP MAKKA-5	47.0	44.7	50.8	47.5	49.3	47.7	51.2	49.4
Loc. Mean	48.6	44.7	50.6	47.9	50.8	47.8	50.9	49.8
C.D. (5%)	2.03	1.27	0.65	2.15	1.91	1.54	0.56	1.85
C.V. (%)	2.09	2.31	1.04	2.24	1.88	2.62	0.90	1.86
F (Prob.)	0.02	0.08	0.42	0.67	0.03	0.23	0.19	0.56

SI	No. PEDIGREE	DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST			PLANT HEIGHT (cm)					
		UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean
1	JH-31110	84.0	81.0	82.5	82.5	20.6	16.1	13.0	16.6	202	159	190	184
	CHECKS												
2	PARKASH	82.0	80.3	81.3	81.2	20.7	15.6	11.9	16.0	198	169	191	186
3	PRATAP MAKKA-4	82.3	81.0	81.3	81.6	23.2	16.3	12.9	17.5	187	172	187	182
4	PRATAP MAKKA-5	81.7	80.2	82.3	81.4	23.2	16.0	11.9	17.0	217	182	192	197
	Loc. Mean	82.5	80.6	81.9	81.7	21.9	16.0	12.4	16.8	201	170	190	187
	C.D. (5%)	2.68	1.41	0.65	1.17	3.90	0.07	0.42	1.71	23.25	5.16	12.95	15.01
	C.V. (%)	1.63	1.42	0.64	0.71	8.92	0.34	2.73	5.11	5.79	2.46	5.54	4.02
	F (Prob.)	0.25	0.48	0.00	0.12	0.28	0.00	0.00	0.31	0.10	0.00	0.89	0.17

SI	No. PEDIGREE	EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)					
		UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean	UDAI	BANS	CHHI	Zone Mean
1	JH-31110	103	68	95	89	83.2	74.5	86.3	81.3	75	65	64	68
	CHECKS												
2	PARKASH	103	74	90	89	83.7	69.1	87.7	80.2	75	64	66	69
3	PRATAP MAKKA-4	90	75	95	87	81.8	74.4	88.2	81.5	66	64	63	64
4	PRATAP MAKKA-5	98	85	94	92	82.6	71.9	91.5	82.0	69	65	61	65
	Loc. Mean	99	75	93	89	82.8	72.5	88.4	81.2	71	65	63	66
	C.D. (5%)	11.17	3.53	13.14	12.23	2.57	1.38	0.67	4.53	7.93	1.44	3.86	5.12
	C.V. (%)	5.66	3.80	11.44	6.86	1.55	1.55	0.62	2.79	5.56	1.81	4.96	3.86
	F (Prob.)	3.08	0.00	0.84	0.75	0.37	0.00	0.00	0.80	0.06	0.50	0.05	0.17

TABLE No. 25
 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT ALMORA, BAJAURA, BARAPANI
 MEGHALAYA, UDHAMPUR(R), KANGRA IN AET 2nd YEAR, TRIAL No. TR7221 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-21				
		ALMO	R	BAJA	R	KANG	R	ZN 1 MEAN	R	UDHA	R	ALMO	BAJA	KANG	ZN 1 MEAN	RAIN UDHA
1	FH-3356 (RETEST)	9561	2	6928	1	7026	2	7839	1	3106	1	1.5	25.6	24.8	14.3	47.6
2	FOR-38	10080	1	6367	4	6096	5	7514	2	2116	4	7	15.5	8.3	9.6	0.5
CHECKS																
3	VIVEK HYBRID-21	9423	3	5515	5	5628	6	6855	5	2105	5	-	-	-	-	-
4	VIVEK HYBRID-17	7812	6	4864	6	5220	4	6298	6	2064	6	-	-	10.5	-	-
5	VIVEK QPM-9	8398	5	6588	2	7489	1	7492	3	2329	3	-	19.5	33.1	9.3	10.6
6	VIVEK HYBRID-9	8588	4	6444	3	6981	3	7338	4	2516	2	-	16.8	24	7	19.5
Location Mean																
	Mean Stand	89		89		83		87		80						
	C.D. (5%)	528		933		422		628		601						
	C.V. (%)	3.88		10.06		4.23		-		-16.71						
	F (Prob)	0		0.006		0		-		0.017						
	Plot Size	14.4		12.6		12		-		18						
AGRONOMY DATA																
	Sowing Date	1-07		29-06		18-06		-		11-07						
	Harvest Date	24-10		28-10		6-10		-		23-10						
	Irrigation Nos	-		3		-		-		-						
	Fertilizer Applied N	80		120		120		-		80						
	Fertilizer Applied P	60		60		60		-		60						
	Fertilizer Applied K	40		40		40		-		40						

LOCATIONS REJECTED DUE TO LOW YIELD (i.e. <1000kg/ha) : BARA 803 kg/ha

Table No. 25 (Continued)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-17					GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM-9					OV'L	
		ALMO	BAJA	KANG	ZN 1 MEAN	ZN 1 UDHA	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 1 UDHA	MEAN	UDHA
1	FH-3356 (RETEST)	22.4	42.5	13	24.5	50.5	13.9	5.2	-	4.6	4.6	33.4	
2	FOH-38 CHECKS	29	30.9	-	19.3	2.5	20	-	-	0.3	0.3	-	
3	VIVEK HYBRID-21	20.6	13.4	-	8.8	2	12.2	-	-	-	-	-	
4	VIVEK HYBRID-17	-	-	-	-	-	-	-	-	-	-	-	
5	VIVEK QPM-9	7.5	35.5	20.4	18.9	12.8	-	-	-	-	-	-	
6	VIVEK HYBRID-9	9.9	32.5	12.2	16.5	21.9	2.3	-	-	-	-	8.1	

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED					GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-9					ZN 1	
		ALMO	BAJA	BABA	KANG	Zone Mean	UDHA	ALMO	BAJA	KANG	ZN 1 MEAN	ZN 1 UDHA	
1	FH-3356 (RETEST)	53.8	54.5	51.3	51.8	52.8	48.3	11.3	7.5	0.7	6.8	23.4	
2	FOH-38 CHECKS	53.0	52.3	50.0	51.3	51.6	48.0	17.4	-	-	2.4	-	
3	VIVEK HYBRID-21	53.3	53.3	51.8	55.0	53.3	47.0	9.7	-	-	-	-	
4	VIVEK HYBRID-17	50.8	51.0	50.3	54.8	51.7	47.3	-	-	-	-	-	
5	VIVEK QPM-9	51.3	51.3	51.3	56.8	52.6	47.0	-	2.2	7.3	2.1	-	
6	VIVEK HYBRID-9	51.3	50.5	51.3	54.3	51.8	48.0	-	-	-	-	-	
	Loc. Mean	52.2	52.1	51.0	54.0	52.3	47.6						
	C.D. (5%)	0.67	2.06	2.00	1.27	2.27	1.93						
	C.V. (%)	0.85	2.63	2.60	1.56	2.87	2.69						
	F (Prob.)	0.00	0.01	0.42	0.00	0.52	0.59						

Table No. 25 (Continued)

SI	No. PEDIGREE	DAYS TO 50% SILKING					DAYS TO 75% DRY HUSK					Zone	
		ALMO	BAJA	BARA	KANG	UDHA	ALMO	BAJA	BARA	KANG	UDHA	Mean	UDHA
1	FH-3356 (RETEST)	54.8	56.8	53.5	55.0	51.8	97.8	97.3	90.3	93.8	94.8	94.8	87.8
2	FQH-38	54.3	55.0	52.3	54.8	51.0	97.0	94.3	88.5	96.3	94.0	94.0	87.8
	CHECKS												
3	VIVEK HYBRID-21	54.0	55.5	54.0	58.8	50.3	96.0	95.3	90.5	96.3	94.5	94.5	87.3
4	VIVEK HYBRID-17	50.5	53.5	52.8	59.3	50.3	92.8	93.3	89.8	97.5	93.3	93.3	87.0
5	VIVEK QPM-9	52.5	53.8	53.8	60.0	50.8	95.0	94.3	89.8	98.3	94.3	94.3	86.8
6	VIVEK HYBRID-9	52.5	53.3	53.8	58.0	50.8	96.0	94.5	90.3	97.5	94.6	94.6	88.0
	Loc. Mean	53.1	54.6	53.3	57.6	50.8	95.8	94.8	89.8	96.6	94.2	94.2	87.4
	C.D. (5%)	0.81	2.35	2.10	1.39	1.38	1.15	1.52	2.88	1.43	2.28	1.30	1.30
	C.V. (%)	1.01	2.85	2.61	1.60	1.81	0.79	1.07	2.13	0.98	1.61	0.99	0.99
	F (Prob.)	0.00	0.04	0.47	0.00	0.26	0.00	0.00	0.72	0.00	0.79	0.32	0.32

SI	No. PEDIGREE	MOISTURE % AT HARVEST					PLANT HEIGHT (cm)					Zone	
		ALMO	BAJA	BARA	KANG	UDHA	ALMO	BAJA	KANG	UDHA	Mean	UDHA	
1	FH-3356 (RETEST)	36.9	21.8	22.3	26.7	27.6	226	130	209	188	165	165	165
2	FQH-38	35.8	21.0	23.8	28.0	27.2	251	143	217	204	161	161	161
	CHECKS												
3	VIVEK HYBRID-21	37.0	20.2	22.0	26.5	29.0	245	146	212	201	163	163	163
4	VIVEK HYBRID-17	33.3	20.5	23.8	27.0	28.4	227	125	205	186	150	150	150
5	VIVEK QPM-9	35.7	20.9	23.8	27.5	28.5	239	152	204	198	150	150	150
6	VIVEK HYBRID-9	34.8	22.8	22.5	25.5	27.0	236	151	201	196	148	148	148
	Loc. Mean	35.6	21.2	23.0	26.9	27.9	237	141	208	196	156	156	156
	C.D. (5%)	1.62	0.83	2.02	1.04	1.15	7.31	9.01	15.01	13.42	19.89	19.89	19.89
	C.V. (%)	3.03	2.62	5.83	2.57	2.73	2.04	4.24	4.79	3.77	8.47	8.47	8.47
	F (Prob.)	0.00	0.00	0.23	0.00	0.01	0.00	0.00	0.26	0.08	0.30	0.30	0.30

Table No. 25 (Continued)

SI	No. PEDIGREE	EAR HEIGHT (cm)					GRAIN SHELLING %					Zone	
		ALMO	BAJA	BARA	KANG	UDHA	ALMO	BAJA	BARA	KANG	UDHA	Mean	UDHA
	1 FH-3356 (RETEST)	109	51	51	94	54	86.0	81.2	77.8	78.5	80.9	83.9	
	2 FQH-38	116	56	50	94	70	87.1	85.0	77.5	83.0	83.1	84.0	
	CHECKS												
	3 VIVEK HYBRID-21	114	55	60	89	70	86.0	81.4	81.5	83.5	83.1	84.0	
	4 VIVEK HYBRID-17	111	54	52	84	58	86.9	81.8	81.3	83.0	83.2	84.6	
	5 VIVEK QPM-9	115	66	54	98	69	86.6	87.6	80.3	79.5	83.5	83.5	
	6 VIVEK HYBRID-9	114	54	49	87	61	85.9	84.6	82.5	80.5	83.4	83.3	
	Loc. Mean	113	56	53	91	64	86.4	83.6	80.1	81.3	82.9	83.9	
	C.D. (5%)	6.77	6.20	13.29	5.86	5.53	0.85-		5.18	1.44	2.95	0.70	
	C.V. (%)	3.97	7.34	16.73	4.28	4.70	0.66-		4.29	1.17	2.36	0.55	
	F (Prob.)	0.24	0.00	0.62	0.00	0.07	0.03-		0.26	0.00	0.43	0.02	
	STAND AT HARVEST ('000/ha)												
SI	No. PEDIGREE	ALMO	BAJA	BARA	KANG	UDHA	Zone						
	1 FH-3356 (RETEST)	64	68	35	71	60	60	60	60	60	60	44	
	2 FQH-38	63	71	37	68	60	60	60	60	60	60	41	
	CHECKS												
	3 VIVEK HYBRID-21	64	71	36	67	59	59	59	59	59	59	43	
	4 VIVEK HYBRID-17	64	73	35	70	60	60	60	60	60	60	46	
	5 VIVEK QPM-9	58	71	36	70	59	59	59	59	59	59	44	
	6 VIVEK HYBRID-9	58	69	41	68	59	59	59	59	59	59	49	
	Loc. Mean	62	70	37	69	59	59	59	59	59	59	44	
	C.D. (5%)	2.72	4.44	6.90	2.94	3.60	7.72						
	C.V. (%)	2.92	4.18	12.46	2.82	4.02	11.58						
	F (Prob.)	0.00	0.32	0.48	0.05	0.92	0.35						

TABLE No. 26
 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT DMR DELHI, LUDHIANA, KARNAL, PANTNAGAR,
 KANPUR, HYDERABAD, KARIMNAGAR, ARBHAVI(1), ARBHAVI(2), MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR,
 TRIAL No. TR72Z-2,4 DURING KHARIF (2009).

SI	No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																	
			DELH	KARN	PANT	KANP	MEAN	ARB1	ARB2	HYDE	KARI									
1	FQH-38		3061	4	6020	1	8747	1	6413	4	6060	2	4377	2	4203	2	3122	4	4232	1
	CHECKS																			
2	VIVEK QPM-9		3398	3	5216	4	8046	3	6973	2	5908	4	3638	5	3940	5	2323	5	2774	4
3	VIVEK HYBRID-9		4103	1	5515	2	7648	5	6904	3	6043	3	4380	1	4159	3	4283	1	2718	5
4	VIVEK HYBRID-21		3792	2	5393	3	8467	2	7277	1	6232	1	4362	3	4618	1	4216	2	3469	2
5	VIVEK HYBRID-17		3033	5	4601	5	8005	4	6343	5	5495	5	4073	4	4147	4	3677	3	2919	3
	Location Mean		3477		5349		8182		6782		5948		4166		4213		3524		3222	
	Mean Stand		88		92		104		109		98		100		103		100		113	
	C.D. (5%)		622		514		1061		1969		1042		420		567		676		212	
	C.V. (%)		9.27		6.18		8.33		15.04		-		6.47		8.64		12.32		4.23	
	F (Prob)		0.03		0.001		0.211		0.079		-		0.003		0.081		0		0	
	Plot Size		16.8		18		18		14.4		-		18		18		18		18	
	AGRONOMY DATA																			
	Sowing Date		7-06		29-06		1-08		14-07		-		6-08		6-08		6-07		12-07	
	Harvest Date		10-08		1-10		18-11		6-11		-		16-12		16-12		5-11		9-10	
	Irrigation Nos		4		5		-		2		-		5		5		2		-	
	Fertilizer Applied N		150		150		120		80		-		150		150		180		200	
	Fertilizer Applied P		75		60		60		40		-		75		75		60		80	
	Fertilizer Applied K		75		60		40		40		-		37.5		37.5		50		60	

TABLE No. 26 (Cont.)

Sl No	PEDIGREE	KOLH		MAND		COIM		ZN 4		OV'L		ZN 2	
		R	R	R	R	R	R	MEAN	R	MEAN	R	LU DH	R
1	FOH-38	7325	4	8943	2	10780	2	6140	2	6111	2	5710	4
CHECKS													
2	VIVEK QPM-9	7995	1	6607	5	9979	4	5322	5	5535	5	6669	2
3	VIVEK HYBRID-9	7676	3	7435	4	10574	3	5889	3	5945	3	7941	1
4	VIVEK HYBRID-21	7803	2	7558	3	11373	1	6200	1	6212	1	6386	3
5	VIVEK HYBRID-17	7023	5	9034	1	9489	5	5766	4	5668	4	5681	5
	Location Mean	7564		7915		10439		5864		5894		6477	
	Mean Stand	113		94		96		103		101		101	
	C.D. (5%)	865		782		541		580		748		943	
	C.V. (%)	7.34		6.35		3.33		-		-		9.36	
	F (Prob)	0.129		0		0		-		-		0.001	
	Plot Size	14.4		16.8		14.4		-		-		16.38	
AGRONOMY DATA													
	Sowing Date	19-07		24-10		9-07		-		-		24-07	
	Harvest Date	4-12		12-08		4-11		-		-		27-10	
	Irrigation Nos	-		6		10		-		-		-	
	Fertilizer Applied N	100		150		150		-		-		80	
	Fertilizer Applied P	50		75		75		-		-		40	
	Fertilizer Applied K	30		40		75		-		-		-	

TABLE No. 26 (Cont.)

GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM-9																	
Zn 2																	
Sl	No	Pedigree	Delh	Karn	Pant	Kanp	Mean	Arb1	Arb2	Hyde	Kari	Kolh	Mand	Coim	Zn 4 Mean	Ov'l Mean	Zn 2 Ludh
	1	FQH-38	-	15.4	8.7	-	2.6	20.3	6.7	34.4	52.6	-	35.4	8	15.4	10.4	-
	2	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	VIVEK HYBRID-9	20.8	5.7	-	-	2.3	20.4	5.6	84.3	-	-	12.5	6	10.7	7.4	19.1
	4	VIVEK HYBRID-21	11.6	3.4	5.2	4.3	5.5	19.9	17.2	81.4	25.1	-	14.4	14	16.5	12.2	-
	5	VIVEK HYBRID-17	-	-	-	-	-	11.9	5.3	58.3	5.2	-	36.7	-	8.3	2.4	-
GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-9																	
Zn 2																	
Sl	No	Pedigree	Delh	Karn	Pant	Kanp	Mean	Arb1	Arb2	Hyde	Kari	Kolh	Mand	Coim	Zn 4 Mean	Ov'l Mean	Zn 2 Ludh
	1	FQH-38	-	9.1	14.4	-	0.3	-	1.1	-	55.7	-	20.3	1.9	4.3	2.8	-
	2	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	VIVEK HYBRID-9	-	-	5.2	1	-	-	-	-	2.1	4.2	-	-	-	-	-
	4	VIVEK HYBRID-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	5	VIVEK HYBRID-17	-	-	10.7	5.4	3.1	-	11	-	27.7	1.7	1.7	7.6	5.3	4.5	-
GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-21																	
Zn 2																	
Sl	No	Pedigree	Delh	Karn	Pant	Kanp	Mean	Arb1	Arb2	Hyde	Kari	Kolh	Mand	Coim	Zn 4 Mean	Ov'l Mean	Zn 2 Ludh
	1	FQH-38	-	11.6	3.3	-	-	0.4	-	-	22	-	18.3	-	-	-	-
	2	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	3	VIVEK HYBRID-9	8.2	2.3	-	-	-	0.4	-	1.6	-	2.5	-	-	-	-	4.4
	4	VIVEK HYBRID-21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24.4
	5	VIVEK HYBRID-17	-	-	-	-	-	-	-	-	-	-	19.5	-	-	-	-

TABLE No. 26 (Cont.)

GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-17

SI	No PEDIGREE	ZN 2										ZN 4		OV'L		ZN 2	
		DELH	KARN	PANT	KANP	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN	MEAN	MEAN	LUDH
1	FOH-38	0.9	30.9	9.3	1.1	10.3	7.5	1.3	-	4.3	-	13.6	6.5	7.8	0.5		
	CHECKS																
2	VIVEK QPM-9	12	13.4	0.5	9.9	7.5	-	-	-	13.8	-	5.2	-	-	17.4		
3	VIVEK HYBRID-9	35.3	19.9	-	8.8	10	7.5	0.3	16.5	9.3	-	11.4	2.1	4.9	39.8		
4	VIVEK HYBRID-21	25	17.2	5.8	14.7	13.4	7.1	11.4	14.6	11.1	-	19.9	7.5	9.6	12.4		
5	VIVEK HYBRID-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

SI	No PEDIGREE	Zone Mean										Zone Mean		OV'L			
		DELH	KARN	PANT	KANP	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	MEAN	MEAN	MEAN	MEAN	LUDH
1	FOH-38	42.7	40.5	47.5	63.7	48.6	49.0	44.3	43.5	48.0	46.5	44.0	46.3	47.1	44.3		
	CHECKS																
2	VIVEK QPM-9	45.3	39.3	48.3	51.0	46.0	48.5	45.0	43.0	47.8	46.0	44.0	46.0	46.0	45.5		
3	VIVEK HYBRID-9	44.0	39.8	46.0	53.3	45.8	48.3	45.0	44.8	47.3	46.5	43.8	46.2	46.0	46.5		
4	VIVEK HYBRID-21	43.3	39.8	46.0	48.3	44.4	48.5	46.8	43.8	48.3	46.8	44.0	46.6	45.8	44.5		
5	VIVEK HYBRID-17	44.0	38.5	46.0	65.7	48.5	48.5	44.3	43.0	47.3	45.5	43.3	45.7	46.7	44.5		
	Loc. Mean	43.9	39.6	46.8	56.4	46.6	48.1	45.1	43.6	47.7	46.3	43.8	46.1	46.3	45.1		
	C.D. (5%)	2.85	2.31	1.69	27.45	6.25	1.43	2.15	1.06	1.19	1.26	0.67	0.55	2.15	0.87		
	C.V. (%)	3.44	3.79	2.34	25.85	8.70	1.93	3.09	1.58	1.62	1.77	1.00	1.08	5.38	1.25		
	F (Prob.)	0.35	0.46	0.03	0.53	0.53	0.74	0.14	0.02	0.31	0.26	0.13	0.03	0.70	0.00		

TABLE No. 26 (Cont.)

SI No	PEDIGREE	DAYS TO 50% SILKING											Zone Mean	Zone Mean	OV'L Mean	LUDH
		DELH	KARN	PANT	KANP	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM				
1	FQH-38 CHECKS	47.3	42.8	49.5	55.7	48.8	49.8	50.0	45.8	45.5	49.0	48.5	46.0	47.8	48.2	45.3
2	VIVEK QPM-9	49.0	41.8	50.3	56.0	49.3	49.0	49.3	46.5	45.0	48.8	48.0	45.8	47.5	48.1	46.5
3	VIVEK HYBRID-9	47.0	42.0	48.0	56.3	48.3	48.5	49.3	47.3	46.3	48.3	48.5	45.5	47.6	47.9	47.5
4	VIVEK HYBRID-21	46.3	41.8	48.8	54.0	47.7	49.5	49.8	49.0	45.3	49.3	49.0	45.8	48.2	48.0	45.5
5	VIVEK HYBRID-17	47.7	40.5	48.0	38.8	43.7	49.0	49.3	46.5	45.0	48.3	47.8	45.3	47.3	46.0	45.5
	Loc. Mean	47.5	41.8	48.9	52.2	47.6	49.2	49.5	47.0	45.4	48.7	48.4	45.7	47.7	47.6	46.1
	C.D. (5%)	2.51	2.26	1.84	23.85	5.59	1.27	0.97	2.45	1.27	1.19	1.21	0.67	0.61	1.97	0.87
	C.V. (%)	2.81	3.52	2.44	24.28	7.63	1.68	1.28	3.38	1.81	1.59	1.62	0.96	1.15	4.81	1.22
	F (Prob.)	0.25	0.35	0.08	0.44	0.27	0.30	0.34	0.11	0.24	0.31	0.25	0.22	0.04	0.15	0.00

DAYS TO 75% DRY HUSK

SI No	PEDIGREE	DAYS TO 75% DRY HUSK											Zone Mean	Zone Mean	OV'L Mean	LUDH
		DELH	KARN	PANT	KANP	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM				
1	FQH-38 CHECKS	71.7	72.5	99.0	77.7	80.2	79.3	82.3	82.0	69.5	81.0	91.8	85.8	81.6	81.1	75.8
2	VIVEK QPM-9	71.0	71.0	98.3	77.7	79.5	82.0	83.3	82.8	68.8	80.8	92.0	85.8	82.2	81.2	76.8
3	VIVEK HYBRID-9	79.3	72.5	98.3	79.0	82.3	84.3	85.5	81.5	69.0	80.5	93.3	85.5	82.8	82.6	77.8
4	VIVEK HYBRID-21	71.0	72.5	98.8	75.3	79.4	81.8	81.8	83.8	69.3	81.5	93.5	85.8	82.5	81.3	76.3
5	VIVEK HYBRID-17	74.3	72.8	97.8	77.0	80.5	81.0	82.5	81.5	69.3	80.3	93.3	85.3	81.9	81.3	76.0
	Loc. Mean	73.5	72.3	98.4	77.3	80.4	81.7	83.1	82.3	69.2	80.8	92.8	85.6	82.2	81.5	76.5
	C.D. (5%)	4.66	3.17	2.34	1.31	2.78	2.54	1.83	1.57	1.15	1.45	1.88	0.84	1.09	1.17	1.16
	C.V. (%)	3.37	2.85	1.55	0.90	2.25	2.02	1.43	1.24	1.08	1.17	1.32	0.64	1.21	1.67	0.98
	F (Prob.)	0.01	0.76	0.80	0.00	0.22	0.01	0.01	0.04	0.68	0.43	0.20	0.63	0.24	0.08	0.02

TABLE No. 26 (Cont.)

MOISTURE % AT HARVEST

SI	No PEDIGREE	MOISTURE % AT HARVEST										Zone				
		DELH	KARN	PANT	KANP	Zone Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	LUDH
1	FOH-38	26.4	25.3	33.3	15.0	25.0	14.9	22.0	28.3	15.5	13.3	14.2	15.4	17.6	20.3	26.3
	CHECKS															
2	VIVEK QPM-9	29.1	25.2	33.6	15.0	25.7	15.1	15.3	28.5	14.0	13.1	14.9	14.7	16.5	19.9	27.8
3	VIVEK HYBRID-9	34.5	22.0	33.8	15.0	26.3	15.3	16.2	27.1	12.8	13.3	15.6	15.5	16.5	20.1	28.0
4	VIVEK HYBRID-21	23.8	25.0	31.7	15.0	23.9	14.9	16.8	24.5	12.3	13.1	15.7	15.9	16.2	19.0	29.6
5	VIVEK HYBRID-17	27.0	25.0	28.5	15.0	23.9	15.5	16.3	23.7	13.3	13.4	16.7	15.2	16.3	19.0	26.8
	Loc. Mean	28.2	24.5	32.2	15.0	24.9	15.2	17.3	26.4	13.6	13.2	15.4	15.3	16.6	19.6	27.7
	C.D. (5%)	6.93	0.63	4.59-		3.81	0.49	3.18	2.49	1.15	0.47	1.53	0.36	1.58	1.58	0.32
	C.V. (%)	13.06	1.68	9.26-		9.90	2.10	11.90	6.12	5.51	2.33	6.45	1.51	8.64	9.36	0.75
	F (Prob.)	0.06	0.00	0.12-		0.55	0.05	0.00	0.00	0.00	0.66	0.04	0.00	0.34	0.31	0.00

PLANT HEIGHT (cm)

SI	No PEDIGREE	PLANT HEIGHT (cm)										ZN 2		ZN 4		
		DELH	KARN	PANT	KANP	Zone Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Zone Mean	OV'L Mean	LUDH
1	FOH-38	143	169	223	181	179	183	173	210	182	210	179	193	190	186	161
	CHECKS															
2	VIVEK QPM-9	148	171	218	181	179	184	173	221	187	198	178	214	193	188	175
3	VIVEK HYBRID-9	147	161	215	190	178	185	177	209	184	189	175	194	187	184	165
4	VIVEK HYBRID-21	133	165	213	172	171	186	176	210	174	186	174	200	186	181	159
5	VIVEK HYBRID-17	134	165	203	176	169	182	175	194	174	173	170	192	180	176	161
	Loc. Mean	141	166	214	180	175	184	175	209	180	191	175	199	187	183	164
	C.D. (5%)	26.10	10.73	15.66	1.68	7.42	2.58	5.49	15.86	6.40	14.60	14.60	4.95	7.03	4.97	15.68
	C.V. (%)	9.84	4.19	4.75	0.50	2.75	0.91	2.04	4.93	2.31	4.96	5.41	1.62	3.40	3.15	6.20
	F (Prob.)	0.57	0.38	0.14	0.00	0.03	0.04	0.53	0.05	0.00	0.00	0.71	0.00	0.01	0.00	0.24

TABLE No. 26 (Cont.)

SI	EAR HEIGHT (cm)										ZN 2		ZN 4		OV'L	
	DELH	KARN	PANT	KANP	Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	Mean	LUDH
No PEDIGREE																
1 FQH-38	56	68	64	60	62	83	78	54	68	88	94	79	73	61		
CHECKS																
2 VIVEK QPM-9	68	72	79	72	73	88	81	60	85	93	105	85	81	83		
3 VIVEK HYBRID-9	57	65	78	76	69	87	81	69	82	88	120	89	82	66		
4 VIVEK HYBRID-21	57	65	66	79	67	84	82	62	82	88	93	82	76	65		
5 VIVEK HYBRID-17	60	70	76	60	66	86	81	70	79	75	96	82	76	71		
Loc. Mean	60	68	73	69	67	86	81	63	79	88	102	83	78	69		
C.D. (5%)	5.73	12.55	8.50	1.42	8.91	4.53	5.03	7.82	5.33	17.90	35.55	6.20	4.79	12.6		
C.V. (%)	2.83	12.03	7.61	1.08	8.58	3.44	4.06	8.07	4.38	13.20	22.69	6.73	7.16	11.8		
F (Prob.)	0.81	0.70	0.01	0.00	0.19	0.21	0.39	0.00	0.00	0.15	0.45	0.02	0.00	0.03		
SI	GRAIN SHELLING %															
No PEDIGREE	DELH	KARN	PANT	KANP	Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	Mean	LUDH
1 FQH-38	83.6	86.8	83.3	73.5	81.8	81.4	81.4	72.8	80.5	87.2	87.0	86.5	82.4	82.2	87.9	
CHECKS																
2 VIVEK QPM-9	82.6	83.1	86.1	75.0	81.7	80.6	81.3	71.8	77.8	86.6	77.5	83.0	79.8	80.5	87.7	
3 VIVEK HYBRID-9	81.9	83.9	86.1	72.5	81.1	81.2	80.8	75.9	80.0	85.4	84.3	83.9	81.6	81.5	85.4	
4 VIVEK HYBRID-21	84.0	88.7	86.7	72.0	82.8	81.7	81.6	77.7	81.8	86.3	83.1	86.6	82.7	82.7	88.1	
5 VIVEK HYBRID-17	83.7	83.4	85.9	72.0	81.2	80.6	80.6	73.7	69.3	86.2	86.2	83.6	80.0	80.5	87.6	
Loc. Mean	83.1	85.2	85.6	73.0	81.7	81.1	81.2	74.4	77.9	86.3	83.6	84.7	81.3	81.5	87.3	
C.D. (5%)	2.02	0.52	-	1.15	2.55	1.26	1.22	2.15	3.00	1.53	0.95	0.88	2.71	1.88	0.48	
C.V. (%)	1.29	0.39	-	0.84	2.03	1.01	0.98	1.88	2.50	1.15	0.73	0.68	3.02	2.68	0.36	
F (Prob.)	0.19	0.00	0.00	0.00	0.63	0.30	0.42	0.00	0.00	0.21	0.00	0.00	0.11	0.07	0.00	
SI	STAND AT HARVEST ('000/ha)															
No PEDIGREE	DELH	KARN	PANT	KANP	Mean	ARB1	ARB2	HYDE	KARI	KOLH	MAND	COIM	Mean	Mean	Mean	LUDH
1 FQH-38	59	53	59	76	62	60	56	52	62	80	55	66	62	62	63	
CHECKS																
2 VIVEK QPM-9	50	50	58	77	59	52	54	56	62	83	56	66	61	60	63	
3 VIVEK HYBRID-9	49	50	57	75	58	55	57	60	63	77	56	67	62	60	60	
4 VIVEK HYBRID-21	52	49	58	75	59	56	61	55	62	72	56	66	61	60	60	
5 VIVEK HYBRID-17	50	52	55	75	58	56	59	54	63	79	56	66	62	61	64	
Loc. Mean	52	51	58	76	59	56	57	55	63	78	56	66	62	61	62	
C.D. (5%)	11.99	2.51	5.23	0.98	3.09	6.93	7.07	4.96	1.34	13.54	2.42	0.59	2.95	2.1	5.9	
C.V. (%)	12.19	3.20	5.90	0.69	3.40	8.03	8.00	5.32	1.39	11.22	2.82	0.57	4.34	4.1	6.2	
F (Prob.)	0.36	0.09	0.69	0.00	0.11	0.16	0.28	0.36	0.34	0.49	0.85	0.63	0.99	0.6	0.5	

TABLE No. 27
 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BAHARAICH, DHOLI,
 JASHIPUR, VARANASI, RANCHI, AMBIKAPUR, UDAIPUR, GODHRA(R), BANSWARA, CHHINDIWARA IN AET 2nd YEAR,
 TRIAL No. TR722-3, 5 DURING KHARIF (2009).

S1 No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															ZN 3	
	BAHR	R	DHOL	R	JASH	R	VARA	R	RANC	R	AMBI	R	MEAN	R			
1 FH-3358 (RETEST)	5635	1	7360	1	4440	1	5918	1	6873	3	5896	1	6020	1			
CHECKS																	
2 VIVEK HYBRID-17	4791	2	6024	4	3285	4	5020	3	6269	5	4446	5	4973	5			
3 VIVEK OPM-9	4522	3	7041	2	3441	3	474	4	6763	4	5365	3	5312	2			
4 VIVEK HYBRID-9	3669	5	6740	3	3234	5	4089	5	6879	2	5506	2	5020	4			
5 VIVEK HYBRID-21	3940	4	5855	5	3504	2	5197	2	7811	1	5192	4	5250	3			
Location Mean	4511		6604		3581		4993		6919		5281		5315				
Mean Stand	97		89		82		108		99		102		96				
C.D. (5%)	491		603		159		355		990		1104		617				
C.V. (%)	7		5.87		2.86		4.56		9.2		13.43		-				
F (Prob)	0		0.012		0		0		0.09		0.017		-				
Plot Size	14.4		12		14.4		14.4		16.8		14.4		-				
AGRONOMY DATA																	
Sowing Date	4-07		8-07		27-07		2-07		5-07		17-07		-				
Harvest Date	12-10		-		11-11		5-10		10-10		-		-				
Irrigation Nos	-		-		-		1		-		-		-				
Fertilizer Applied N	120		120		120		100		-		80		-				
Fertilizer Applied P	60		60		60		60		-		50		-				
Fertilizer Applied K	60		40		60		40		-		30		-				

Table No. 27 (Continued)

Sl No	PEDIGREE	UDAI R	BANS R	CHHI R	ZN 5 MEAN	OV'L MEAN	RAIN GODH R
1	FH-3358 (RETEST)	6889 2	4453 2	5861 1	5734 1	5925 1	6236 1
	CHECKS						
2	VIVEK HYBRID-17	5611 4	2951 5	3652 5	4072 5	4672 5	5256 3
3	VIVEK QPM-9	5545 5	3777 4	4614 3	4645 4	5090 4	5208 4
4	VIVEK HYBRID-9	6791 3	4496 1	4626 2	5304 2	5114 3	5442 2
5	VIVEK HYBRID-21	7161 1	3977 3	4244 4	5128 3	5209 2	5121 5
	Location Mean	6400	3931	4599	4977	5202	5453
	Mean Stand	99	93	121	104	99	109
	C.D. (5%)	524	330	475	443	559	1774
	C.V. (%)	4.24	5.4	6.64	-	-	20.91
	F (Prob)	0.007	0	0	-	-	0.624
	Plot Size	14.4	14.4	18	-	-	14.4
	AGRONOMY DATA						
	Sowing Date	24-06	8-07	14-07	-	-	24-07
	Harvest Date	15-09	23-10	20-11	-	-	26-10
	Irrigation Mos	2	2	-	-	-	-
	Fertilizer Applied N	90	90	120	-	-	100
	Fertilizer Applied P	60	40	60	-	-	50
	Fertilizer Applied K	-	-	40	-	-	50

Table No. 27 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-17																	
SI	No	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	RANC	AMBI	ZN 3			BANS	CHHI	ZN 5	OV'L	ZN 5
										MEAN	UDAI	GODH					
1	FH-3358 (RETEST)	17.6	22.2	35.2	17.9	9.6	32.6	21.1	22.8	50.9	60.5	40.8	26.8	18.7			
CHECKS																	
2	VIVEK HYBRID-17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	VIVEK QPM-9	-	16.9	4.7	-	7.9	20.7	6.8	-	28	26.3	14.1	8.9	-	-	-	-
4	VIVEK HYBRID-9	-	11.9	-	-	9.7	23.8	0.9	21	52.3	26.7	30.3	9.5	3.5	-	-	-
5	VIVEK HYBRID-21	-	-	6.7	3.5	24.6	16.8	5.6	27.6	34.7	16.2	25.9	11.5	-	-	-	-
GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM-9																	
SI	No	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	RANC	AMBI	ZN 3			BANS	CHHI	ZN 5	OV'L	ZN 5
										MEAN	UDAI	GODH					
1	FH-3358 (RETEST)	24.6	4.5	29	24.8	1.6	9.9	13.3	24.2	17.9	27	23.4	16.4	19.7			
CHECKS																	
2	VIVEK HYBRID-17	5.9	-	-	5.9	-	-	-	1.2	-	-	-	-	0.9	-	-	-
3	VIVEK QPM-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	VIVEK HYBRID-9	-	-	-	-	1.7	2.6	-	22.5	19	0.3	14.2	0.5	4.5	-	-	-
5	VIVEK HYBRID-21	-	-	1.8	9.6	15.5	-	-	29.1	5.3	-	10.4	2.3	-	-	-	-
GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-9																	
SI	No	PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	RANC	AMBI	ZN 3			BANS	CHHI	ZN 5	OV'L	ZN 5
										MEAN	UDAI	GODH					
1	FH-3358 (RETEST)	53.6	9.2	37.3	44.7	-	7.1	19.9	1.4	-	26.7	8.1	15.8	14.6			
CHECKS																	
2	VIVEK HYBRID-17	30.6	-	1.6	22.8	-	-	-	-	-	-	-	-	-	-	-	-
3	VIVEK QPM-9	23.2	4.5	6.4	15.9	-	-	5.8	-	-	-	-	-	-	-	-	-
4	VIVEK HYBRID-9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	VIVEK HYBRID-21	7.4	-	8.3	27.1	13.5	-	4.6	5.4	-	-	-	-	1.8	-	-	-

Table No. 27 (Continued)

SI No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE VIVEK HYBRID-21										OV'L MEAN	ZN 5 MEAN	ZN 5 GODH
		BAHR	DHOL	JASH	VARA	RANC	AMBI	ZN 3 MEAN	UDAI	BANS	CHHI			
1	FH-3358 (RETEST) CHECKS	43	25.7	26.7	13.9	-	13.6	14.7	-	12	38.1	11.8	13.7	21.8
2	VIVEK HYBRID-17	21.6	2.9	-	-	-	-	-	-	-	-	-	-	2.6
3	VIVEK QPM-9	14.8	20.3	-	-	-	3.3	1.2	-	-	8.7	-	-	1.7
4	VIVEK HYBRID-9	-	15.1	-	-	-	6	-	-	13.1	9	3.4	-	6.3
5	VIVEK HYBRID-21	-	-	-	-	-	-	-	-	-	-	-	-	-

DAYS TO 50% POLLEN SHED

SI No.	PEDIGREE	DAYS TO 50% POLLEN SHED										Zone Mean	OV'L Mean	Zone Mean	GODH
		BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	UDAI	BANS	CHHI				
1	FH-3358 (RETEST) CHECKS	49.3	47.5	42.8	44.5	42.5	44.5	45.2	47.3	42.5	47.0	45.6	45.3	43.8	
2	VIVEK HYBRID-17	43.3	46.5	40.0	40.8	40.3	43.0	42.3	42.7	41.3	46.3	43.4	42.7	42.0	
3	VIVEK QPM-9	47.5	46.5	41.0	42.0	40.0	42.3	43.2	43.3	39.8	46.3	43.1	43.2	42.8	
4	VIVEK HYBRID-9	50.0	48.0	40.8	42.5	41.3	43.5	44.3	44.3	40.0	47.0	43.8	44.1	42.8	
5	VIVEK HYBRID-21	45.8	47.5	41.5	43.0	41.3	46.3	44.2	44.3	38.8	47.3	43.4	44.0	41.8	
	Loc. Mean	47.2	47.2	41.2	42.6	41.1	43.9	43.8	44.4	40.5	46.8	43.9	43.9	42.6	
	C.D. (5%)	0.78	1.93	1.02	0.91	1.50	1.10	1.40	1.94	1.53	0.58	2.10	1.10	0.99	
	C.V. (%)	1.08	2.65	1.61	1.39	2.36	1.62	2.66	2.33	2.46	0.81	2.54	2.61	1.52	
	F (Prob.)	0.00	0.38	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.01	0.13	0.00	0.01	

Table No. 27 (Continued)

SI No. PEDIGREE	DAYS TO 50% SILKING										Zone		OV'L	
	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	UDAI	BANS	CHHI	Zone Mean	Mean	GODH	
1 FH-3358 (RETEST) CHECKS	51.3	49.5	44.8	49.0	47.0	47.0	48.1	49.7	45.8	48.0	47.8	48.0	46.3	
2 VIVEK HYBRID-17	45.3	47.0	42.0	45.3	44.5	45.5	44.9	45.3	44.8	46.3	45.4	45.1	43.8	
3 VIVEK QPM-9	49.5	48.0	43.0	47.3	44.3	46.0	46.3	45.0	42.8	46.8	44.8	45.8	44.3	
4 VIVEK HYBRID-9	52.0	49.5	43.3	50.8	45.5	46.0	47.8	46.7	43.3	47.0	45.6	47.1	45.0	
5 VIVEK HYBRID-21	47.8	48.3	43.5	47.3	46.0	48.8	46.9	46.3	42.0	47.3	45.2	46.3	43.8	
Loc. Mean	49.2	48.5	43.3	47.9	45.5	46.7	46.8	46.6	43.7	47.1	45.8	46.5	44.6	
C.D. (5%)	0.92	1.86	1.15	1.38	1.55	1.99	1.43	1.31	1.64	0.58	1.91	1.16	1.27	
C.V. (%)	1.22	2.49	1.73	1.87	2.22	2.77	2.54	1.49	2.44	0.80	2.21	2.60	1.85	
F (Prob.)	0.00	0.06	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.05	0.00	0.01	
DAYS TO 75% DRY HUSK														
SI No. PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	AMBI	Zone Mean	UDAI	BANS	CHHI	Zone Mean	OV'L Mean	GODH	
1 FH-3358 (RETEST) CHECKS	80.3	83.8	81.3	83.8	86.0	80.8	82.6	81.7	74.3	81.8	79.2	81.5	71.8	
2 VIVEK HYBRID-17	76.3	81.8	80.3	81.3	84.3	83.0	81.1	75.0	75.0	78.5	76.2	79.5	72.5	
3 VIVEK QPM-9	75.5	84.0	80.0	82.0	85.0	79.3	81.0	74.7	71.0	79.8	75.1	79.0	70.8	
4 VIVEK HYBRID-9	76.3	86.0	80.0	84.0	85.0	85.3	82.8	74.7	72.8	80.5	76.0	80.5	71.3	
5 VIVEK HYBRID-21	77.8	83.5	78.5	82.5	85.7	81.8	81.6	75.7	71.8	78.3	75.2	79.5	72.0	
Loc. Mean	77.2	83.8	80.0	82.7	85.2	82.0	81.8	76.3	73.0	79.8	76.3	80.0	71.7	
C.D. (5%)	1.32	1.06	2.72	1.48	1.53	0.72	1.67	1.99	1.99	0.86	3.14	1.47	1.15	
C.V. (%)	1.11	0.82	2.20	1.16	1.16	0.57	1.70	1.38	1.77	0.70	2.19	1.92	1.04	
F (Prob.)	0.00	0.00	0.34	0.01	0.18	0.00	0.11	0.00	0.00	0.00	0.09	0.01	0.05	

Table No. 27 (Continued)

SI No. PEDIGREE	MOISTURE % AT HARVEST										Zone		OV'L	
	BAHR	DHOL	JASH	VARA	RANC	Zone Mean	UDAI	BANS	CHHI	BANS	CHHI	Zone Mean	OV'L Mean	GODH
1 FH-3358 (RETEST) CHECKS	22.2	16.2	16.2	24.0	21.5	20.0	21.6	15.9	12.3	16.6	18.7	20.7		
2 VIVEK HYBRID-17	19.6	16.0	15.9	22.1	21.8	19.1	23.6	15.4	12.0	17.0	18.3	25.2		
3 VIVEK QPM-9	21.0	15.7	15.9	23.8	21.7	19.6	20.9	15.5	11.3	15.9	18.2	24.5		
4 VIVEK HYBRID-9	23.9	17.4	15.9	23.9	22.6	20.7	22.4	16.0	11.6	16.6	19.2	24.5		
5 VIVEK HYBRID-21	22.6	17.8	15.9	24.6	22.3	20.6	23.6	15.4	12.1	17.0	19.3	28.6		
Loc. Mean	21.8	16.6	15.9	23.7	22.0	20.0	22.4	15.6	11.8	16.6	18.7	24.7		
C.D. (5%)	0.61	0.00	0.26	0.88	0.56	0.99	1.83	0.42	0.34	1.34	0.80	1.60		
C.V. (%)	1.81	0.00	1.06	2.41	1.66	3.71	4.34	1.73	1.84	4.29	4.19	4.21		
F (Prob.)	0.00	0.00	0.04	0.00	0.01	0.01	0.04	0.02	0.00	0.41	0.03	0.00		

PLANT HEIGHT (cm)

SI No. PEDIGREE	PLANT HEIGHT (cm)										ZN 3		ZN 5		OV'L	
	BAHR	DHOL	JASH	VARA	RANC	AMBI	UDAI	BANS	CHHI	BANS	CHHI	ZN 3 Mean	ZN 5 Mean	OV'L Mean	GODH	
1 FH-3358 (RETEST) CHECKS	156	127	107	175	169	232	161	170	136	154	153	158	137			
2 VIVEK HYBRID-17	160	154	133	188	173	214	170	208	150	177	178	173	154			
3 VIVEK QPM-9	196	171	135	210	183	233	188	210	178	182	190	189	161			
4 VIVEK HYBRID-9	169	158	456	213	189	224	235	212	149	178	179	216	164			
5 VIVEK HYBRID-21	182	149	120	198	190	208	174	192	136	179	169	172	158			
Loc. Mean	172	152	190	197	181	222	186	198	150	174	174	182	155			
C.D. (5%)	10.99	10.50	448.55	7.24	14.09	2.11	72.49	14.84	6.64	6.97	17.11	47.48	12.13			
C.V. (%)	4.14	4.49	152.94	2.39	5.06	0.62	32.42	3.97	2.88	2.60	5.22	27.20	5.09			
F (Prob.)	0.00	0.00	0.42	0.00	0.02	0.00	0.27	0.00	0.00	0.00	0.01	0.15	0.00			

Table No. 27 (Continued)

SI No. PEDIGREE	EAR HEIGHT (cm)										ZN 3			ZN 5			OV'L		
	BAHR	DHOL	JASH	VARA	RANC	AMBI	UDAI	BANS	CHHI	GODH	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	GODH
1 FH-3358 (RETEST)	72	54	33	83	73	76	65	65	57	67	63	64	66						
CHECKS																			
2 VIVEK HYBRID-17	67	69	47	75	70	80	68	102	51	75	76	71	65						
3 VIVEK QPM-9	91	78	48	95	76	74	77	98	69	78	82	79	68						
4 VIVEK HYBRID-9	69	67	44	87	82	82	72	88	53	72	71	71	77						
5 VIVEK HYBRID-21	77	54	34	98	76	82	70	87	52	71	70	70	66						
Loc. Mean	75	64	41	87	75	79	70	88	56	73	72	71	68						
C.D. (5%)	8.64	9.75	4.82	2.38	10.05	3.86	8.43	10.02	6.09	7.71	15.04	6.86	12.3						
C.V. (%)	7.47	9.84	7.58	1.77	8.66	3.18	9.94	6.05	7.03	6.90	11.05	10.07	11.7						
F (Prob.)	0.00	0.00	0.00	0.00	0.22	0.00	0.09	0.00	0.00	0.06	0.14	0.01	0.26						
	GRAIN SHELLING %										Zone			Zone			OV'L		
SI No. PEDIGREE	BAHR	JASH	VARA	RANC	AMBI	AMBI	UDAI	BANS	CHHI	GODH	Mean	Mean	Mean	Mean	Mean	Mean	Mean	Mean	GODH
1 FH-3358 (RETEST)	80.5	79.3	75.5	80.6	84.1	80.0	83.0	74.6	86.8	81.5	80.5	80.6							
CHECKS																			
2 VIVEK HYBRID-17	80.5	80.4	75.3	82.1	86.4	80.9	83.6	73.0	79.5	78.7	80.1	80.0							
3 VIVEK QPM-9	75.4	79.0	76.8	86.6	82.3	80.0	83.1	71.2	76.2	76.8	78.8	77.7							
4 VIVEK HYBRID-9	74.2	78.9	75.8	78.6	83.9	78.3	82.7	77.8	86.0	82.2	79.7	77.6							
5 VIVEK HYBRID-21	73.4	79.1	75.5	86.1	84.0	79.6	83.7	74.7	80.5	79.6	79.6	80.5							
Loc. Mean	76.8	79.3	75.8	82.8	84.1	79.7	83.2	74.3	81.8	79.7	79.7	79.3							
C.D. (5%)	1.75	0.34	2.47	3.30	2.46	3.16	1.20	0.57	0.65	4.69	2.73	1.13							
C.V. (%)	1.48	0.28	2.12	2.58	1.90	2.95	0.76	0.50	0.52	3.12	3.35	0.93							
F (Prob.)	0.00	0.00	0.71	0.00	0.04	0.52	0.37	0.00	0.00	0.15	0.77	0.00							
	STAND AT HARVEST ('000/ha)										ZN 3			ZN 5			OV'L		
SI No. PEDIGREE	BAHR	DHOL	JASH	VARA	RANC	AMBI	AMBI	UDAI	BANS	CHHI	GODH	Mean	Mean	Mean	Mean	Mean	Mean	Mean	GODH
1 FH-3358 (RETEST)	70	75	57	74	57	55	65	70	65	66	67	65	78						
CHECKS																			
2 VIVEK HYBRID-17	66	75	57	74	60	72	67	65	64	68	66	67	73						
3 VIVEK QPM-9	69	74	58	76	60	76	69	70	64	69	68	68	74						
4 VIVEK HYBRID-9	66	72	57	74	58	78	67	74	65	68	69	68	79						
5 VIVEK HYBRID-21	66	75	57	78	60	74	69	65	65	66	65	67	76						
Loc. Mean	68	74	57	75	59	71	67	69	65	67	67	67	76						
C.D. (5%)	3.6	10.0	1.8	3.3	7.2	6.7	4.9	7.9	2.2	4.1	4.3	3.5	4.5						
C.V. (%)	3.5	8.7	2.1	2.8	7.9	6.1	6.0	6.1	2.2	3.9	3.4	5.4	3.9						
F (Prob.)	0.06	0.94	0.74	0.07	0.73	0.00	0.45	0.10	0.82	0.42	0.27	0.42	0.08						

TABLE No. 28
 PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJARA, DMR DELHI, LUDHIANA, PANTNAGAR, KANPUR, KARNAL, BAHARAICE, VARANASI, DHOLI, JASHIPUR, RANCHI, AMBIKAPUR, ARBHAVI, HYDERABAD, MANDYA, KOLHAPUR, UDAIPUR, GODHRA, BANSWARA, CHHINDIWARA IN IET & AET 1st YEAR, TRIAL No. TROPMI DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 1		ZN 2	
		ALMO	BAJA	DELH	KARN	LUDH	PANT	KANP	R	MEAN	R	MEAN	R	MEAN	R	MEAN	R
1	HQPM-20	4645	12	6997	5	3056	2	4652	9	4727	10	7020	7	8020	7	5495	7
2	HQPM-21	6550	3	6768	7	1682	8	4744	7	5005	9	7497	6	7685	8	5323	8
3	BADQH-8-9-201	5575	9	6295	8	2385	5	4637	10	5886	5	6082	11	7258	10	5250	9
4	BAUSYN-8-9-501	5522	10	5819	12	1583	11	4518	11	4534	12	6519	9	8784	5	5188	10
5	BAUSYN-8-9-502	5759	7	5955	11	1954	7	5038	3	4719	11	6407	10	6049	12	4833	11
6	ECQ-3152	5347	11	6218	9	2768	3	4830	5	6811	2	7800	5	8964	3	6215	2
7	VEHO-3019	6920	2	7937	3	1666	9	5183	2	5285	7	7922	3	9311	1	5873	5
8	BQPMH-282	6161	5	6081	10	1658	10	3966	12	5186	8	5674	12	7360	9	4769	12
9	JHQPM-304	5706	8	7494	4	2329	6	5334	1	5774	6	7852	4	6655	11	5589	6
CHECKS																	
10	HQPM-1	7533	1	8588	2	1468	12	4963	4	6114	4	8783	2	8429	6	5951	4
11	HQPM-5	5947	6	6852	6	2481	4	4813	6	7135	1	6944	8	8791	4	6033	3
12	HQPM-7	6344	4	8620	1	3221	1	4714	8	6384	3	9614	1	8897	2	6566	1
	Location Mean	6001		6969		2188		4783		5630		7343		8009		5590	
	Mean Stand	21		33		31		39		34		36		37		35	
	C.D. (5%)	1047		729		377		741		1339		1493		652		920	
	C.V. (%)	10.28		7.26		11.96		10.75		16.51		14.12		4.79		-	
	F (Prob)	0		0		0		0.02		0.003		0.001		0		-	
	Plot Size	3.6		4.2		5.6		6		4.8		6		4.8		-	
AGRONOMY DATA																	
	Sowing Date	9-07		1-07		7-06		29-06		10-07		1-08		14-07		-	
	Harvest Date	14-11		3-11		14-10		2-10		23-10		18-11		6-11		-	
	Irrigation Nos	-		3		4		4		6		-		2		-	
	Fertilizer Applied N	100		120		150		150		-		120		80		-	
	Fertilizer Applied P	60		60		75		60		-		60		40		-	
	Fertilizer Applied K	40		40		75		60		-		40		40		-	

TABLE No. 28 (Continued)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

No	PEDIGREE	BAHR R	DHOL R	JASH R	VARA R	RANC R	AMBL R	MEAN R	ARBH R	HYDE R
1	HQPM-20	5006 9	3352 7	6422 1	6325 7	5229 11	3974 4	5051 6	5652 9	5593 6
2	HQPM-21	4829 11	3016 10	4750 9	6179 8	6264 6	4069 3	4851 8	6043 4	5560 7
3	BAUQH-8-9-201	6049 5	2905 11	4700 10	6173 9	5613 10	3755 6	4866 7	5225 11	4986 10
4	BAUSYN-8-9-501	4852 10	3612 5	4842 8	5549 10	5799 9	3739 7	4732 10	5542 10	5328 9
5	BAUSYN-8-9-502	4782 12	2797 12	4924 7	5289 11	4876 12	3650 9	4386 12	5892 7	5817 5
6	ECQ-3152	5063 8	3255 8	3773 12	6663 5	6030 7	3774 5	4760 9	5931 6	6472 1
7	VEHQ-3019	6116 3	4031 3	5503 4	6935 2	6898 3	3606 10	5515 5	6616 2	5557 8
8	BQPMH-282	5819 6	3216 9	4325 11	4569 12	5904 8	3389 12	4537 11	5046 12	6004 2
9	JHQPM-304	6971 2	4052 2	6266 2	6759 4	6412 5	4089 2	5758 1	6029 5	4899 11
	CHECKS									
10	HQPM-1	5515 7	4018 4	5128 6	8085 1	6823 4	3656 8	5538 4	6415 3	5937 4
11	HQPM-5	7107 1	3563 6	5242 5	6658 6	7196 2	3604 11	5561 3	5830 8	4535 12
12	HQPM-7	6078 4	4277 1	5641 3	6830 3	7230 1	4275 1	5722 2	8937 1	5978 3
	Location Mean	5682	3508	5126	6335	6189	3798	5106	6096	5556
	Mean Stand	32	29	25	36	29	34	31	39	32
	C.D. (5%)	529	637	745	775	1184	1001	812	1184	970
	C.V. (%)	6.47	2.61	10.09	8.49	13.29	18.29	-	13.49	12.13
	F (Prob)	0	0	0	0	0.09	0.298	-	0	0.007
	Plot Size	4.8	6	4.8	4.8	5.6	6	-	6	6
	AGRONOMY DATA									
	Sowing Date	7-04	7-07	27-07	1-07	9-07	17-07	-	17-07	6-07
	Harvest Date	14-10	-	8-11	11-10	20-10	-	-	5-11	12-11
	Irrigation Nos	-	-	-	2	-	-	-	6	2
	Fertilizer Applied N	120	120	120	100	-	120	-	150	180
	Fertilizer Applied P	60	60	60	60	-	60	-	75	60
	Fertilizer Applied K	60	40	60	40	-	40	-	37.5	50

TABLE No. 28 (Continued)

GRAIN YIELD (kg/ha) AT 15% MOISTURE

SI	No	PEDIGREE	KOLH	R	MAND	R	MEAN	R	UDAI	R	BANS	R	GODH	R	CHHI	R	ZN 5	R	OV'L	R
																	MEAN		MEAN	
1	HQPM-20	5696	12	6927	10	5967	12	6156	5	3637	10	4314	10	3787	5	4474	6	5295	8	
2	HQPM-21	7197	4	6810	11	6402	6	6797	2	4091	6	4735	6	3450	8	4768	3	5415	7	
3	BAUQH-8-9-201	6151	10	7621	8	5996	11	4494	9	3858	9	4299	11	2561	12	3803	12	5072	10	
4	BAUSYN-8-9-501	6378	9	8220	5	6367	7	4433	11	4110	5	4623	7	3255	10	4105	10	5122	9	
5	BAUSYN-8-9-502	6080	11	6401	12	6047	10	4493	10	4820	1	4331	9	3585	7	4307	8	4934	12	
6	ECQ-3152	7810	1	9323	4	7384	2	3990	12	4762	2	5039	3	3835	3	4406	7	5636	5	
7	VEHO-3019	7365	3	9569	3	7277	3	7307	1	4371	3	4607	8	4248	1	5134	1	6046	2	
8	BQPMH-282	6749	7	7885	6	6421	5	4680	8	4016	7	3225	12	3807	4	3932	11	4987	11	
9	JHQPM-304	6482	8	7461	9	6218	9	5077	7	3325	12	4858	5	3609	6	4217	9	5592	6	
CHECKS																				
10	HQPM-1	6811	6	9709	2	7218	4	6081	6	3534	11	5044	2	3440	9	4525	5	6003	3	
11	HQPM-5	7073	5	7753	7	6298	8	6319	4	4204	4	5555	1	2977	11	4764	4	5742	4	
12	HQPM-7	7550	2	10627	1	8273	1	6679	3	3938	8	4919	4	4096	2	4908	2	6421	1	
	Location Mean	6779		8192		6656		5542		4055		4629		3554		4445		5522		
	Mean Stand	39		33		36		33		29		36		41		35		33		
	C.D. (5%)	1327		917		1100		613		437		688		431		542		848		
	C.V. (%)	13.59		7.77		-		6.51		7.48		10.32		7.13		-		-		
	F (Prob)	0.06		0		-		0		0		0.001		0		-		-		
	Plot Size	6		5.6		-		4.8		4.8		4.8		6		-		-		
AGRONOMY DATA																				
	Sowing Date	7-11		22-07		-		28-06		8-07		13-07		14-07		-		-		
	Harvest Date	3-12		1-12		-		9-10		25-10		8-10		11-11		-		-		
	Irrigation Nos	-		6		-		2		2		-		-		-		-		
	Fertilizer Applied N	120		150		-		90		120		100		120		-		-		
	Fertilizer Applied P	60		75		-		60		40		50		60		-		-		
	Fertilizer Applied K	40		40		-		-		-		50		40		-		-		

TABLE No. 28 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE HQPM-1

Sl No	PEDIGREE	ZN 1										ZN 2		ZN 3		ZN 4		ZN 5		OV'L					
		ALMO	BAJA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DEHL	JASH	VARA	RANC	AMBI	MEAN	CHHI	GODH	BANS	UDAI	MEAN	MEAN	MEAN	
1	HQPM-20	-	-	108.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.7
2	HQPM-21	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.3
3	BAUGH-8-9-201	-	-	62.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.7
4	BAUSYN-8-9-501	-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2.3
5	BAUSYN-8-9-502	-	-	33.2	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	ECO-3152	-	-	88.6	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.2
7	VEHO-3019	-	-	13.5	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	BQPMH-282	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	JHQPM-304 CHECKS	-	-	58.7	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11.8
10	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	HQPM-5	-	-	69	-	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	HQPM-7	-	0.4	119.5	-	4.4	9.5	4.3	10.3	28.9	6.4	10	-	-	-	-	-	-	-	-	-	-	-	-	5.5

Sl No	PEDIGREE	ZN 1										ZN 2		ZN 3		ZN 4		ZN 5		OV'L					
		ALMO	BAJA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DEHL	JASH	VARA	RANC	AMBI	MEAN	CHHI	GODH	BANS	UDAI	MEAN	MEAN	MEAN	
1	HQPM-20	-	-	108.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	HQPM-21	-	-	14.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3	BAUGH-8-9-201	-	-	62.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	BAUSYN-8-9-501	-	-	7.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	BAUSYN-8-9-502	-	-	33.2	1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	ECO-3152	-	-	88.6	-	11.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
7	VEHO-3019	-	-	13.5	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
8	BQPMH-282	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
9	JHQPM-304 CHECKS	-	-	58.7	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
10	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11	HQPM-5	-	-	69	-	16.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
12	HQPM-7	-	0.4	119.5	-	4.4	9.5	4.3	10.3	28.9	6.4	10	-	-	-	-	-	-	-	-	-	-	-	-	5.5

TABLE No. 28 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE HQPM-5

S1 No	PEDIGREE	ZN 1										ZN 2			JASH	VARA	RANC	AMBI
		ALMO	BAJA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	OV'L MEAN					
1	HQPM-20	-	2.1	-	23.2	-	-	1.1	-	-	-	-	-	22.5	-	-	10.3	
2	HQPM-21	10.1	-	4.1	-	-	-	8	-	-	-	-	-	-	-	-	12.9	
3	BAUQH-8-9-201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4.2	
4	BAUSYN-8-9-501	-	-	-	-	-	-	-	-	-	-	-	1.4	-	-	-	3.8	
5	BAUSYN-8-9-502	-	-	-	-	4.7	-	-	-	-	-	-	-	-	-	-	1.3	
6	ECQ-3152	-	-	-	11.6	0.3	-	12.3	0.8	3	-	-	-	-	0.1	-	4.7	
7	VEHQ-3019	16.4	15.8	16.1	-	7.7	-	14.1	5.9	-	-	-	13.1	5	4.2	-	0.1	
8	BQPMH-282	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
9	JHQPM-304 CHECKS	-	9.4	3.1	-	10.8	-	13.1	-	-	-	-	13.7	19.5	1.5	-	13.5	
10	HQPM-1	26.7	25.3	26	-	3.1	-	26.5	-	-	-	-	12.8	-	21.4	-	1.5	
11	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	HQPM-7	6.7	25.8	16.9	29.9	-	-	38.4	1.2	8.8	-	-	20	7.6	2.6	0.5	18.6	

S1 No	PEDIGREE	ZN 3										ZN 4			ZN 5			OV'L MEAN
		MEAN	ARBH	HYDE	KOLH	MAND	MEAN	UDAI	BANS	GODH	CHHI	MEAN	MEAN	MEAN	MEAN			
1	HQPM-20	-	-	23.3	-	-	-	7.6	-	-	-	-	27.2	-	-	-	-	
2	HQPM-21	-	3.7	22.6	1.7	-	-	1.7	-	-	-	-	15.9	0.1	-	-	-	
3	BAUQH-8-9-201	-	-	9.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	BAUSYN-8-9-501	-	-	17.5	-	6	-	1.1	-	-	-	-	9.3	-	-	-	-	
5	BAUSYN-8-9-502	-	1.1	28.3	-	-	-	-	14.7	-	-	-	20.4	-	-	-	-	
6	ECQ-3152	-	1.7	42.7	10.4	20.2	17.2	-	13.3	-	-	-	28.8	-	-	-	-	
7	VEHQ-3019	-	13.5	22.5	4.1	23.4	15.5	15.6	4	-	-	-	42.7	7.8	5.3	-	-	
8	BQPMH-282	-	-	32.4	-	1.7	2	-	-	-	-	-	27.9	-	-	-	-	
9	JHQPM-304 CHECKS	3.5	3.4	8	-	-	-	-	-	-	-	-	21.2	-	-	-	-	
10	HQPM-1	-	10	30.9	-	25.2	14.6	-	-	-	-	-	15.5	-	-	-	4.6	
11	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
12	HQPM-7	2.9	53.3	31.8	6.7	37.1	31.4	5.7	-	-	-	-	37.6	3	11.8	-	-	

TABLE No. 28 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE HQPM-7

S1 NO	PEDIGREE	ZN 1										ZN 2					ZN 5		OV'L	
		ALMO	BAJA	MEAN	DELH	KARN	LUDH	PANT	KANP	MEAN	BAHR	DHOL	JASH	VARA	RANC	AMBI	MEAN	MEAN		
1	HQPM-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
2	HQPM-21	3.3	-	-	-	0.6	-	-	-	-	-	-	-	-	-	-	-	13.9		
3	BAUH-8-9-201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
4	BAUSYN-8-9-501	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
5	BAUSYN-8-9-502	-	-	-	-	6.9	-	-	-	-	-	-	-	-	-	-	-	-		
6	ECO-3152	-	-	-	-	2.5	6.7	-	-	-	-	-	-	-	-	-	-	-		
7	VEHO-3019	9.1	-	-	-	9.9	-	-	4.7	-	-	-	0.6	-	-	-	-	1.5		
8	BQPMH-282	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
9	JHQPM-304 CHECKS	-	-	-	-	13.1	-	-	-	-	-	-	14.7	-	-	-	-	11.1		
10	HQPM-1	18.7	-	7.7	-	5.3	-	-	-	-	-	-	-	-	-	-	-	18.4		
11	HQPM-5	-	-	-	-	2.1	11.8	-	-	-	-	-	16.9	-	-	-	-	-		
12	HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

S1 NO	PEDIGREE	ZN 3				ZN 4				ZN 5				OV'L	
		MEAN	ARBH	HYDE	KOLH	MAND	MEAN	UDAI	BANS	GODH	CHHI	MEAN	MEAN	MEAN	MEAN
1	HQPM-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	HQPM-21	-	-	-	-	-	1.8	3.9	-	-	-	-	-	-	
3	BAUH-8-9-201	-	-	-	-	-	-	-	-	-	-	-	-	-	
4	BAUSYN-8-9-501	-	-	-	-	-	-	4.4	-	-	-	-	-	-	
5	BAUSYN-8-9-502	-	-	-	-	-	-	22.4	-	-	-	-	-	-	
6	ECO-3152	-	-	8.3	3.4	-	-	23.9	2.4	-	-	-	-	-	
7	VEHO-3019	-	-	-	-	-	9.4	11	-	3.7	4.6	-	-		
8	BQPMH-282	-	-	0.4	-	-	-	2	-	-	-	-	-		
9	JHQPM-304 CHECKS	0.6	-	-	-	-	-	-	-	-	-	-	-		
10	HQPM-1	-	-	-	-	-	-	-	2.5	-	-	-	-		
11	HQPM-5	-	-	-	-	-	-	6.7	12.9	-	-	-	-		
12	HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE No. 28 (Continued) DAYS TO 50% POLLEN SHED

SI	No. PEDIGREE	Zone										Zone Mean	Zone Mean		
		ALMO	BAJA	DELH	KARN	LU DH	PANT	KANP	BAHR	DHOL	JASH			VARA	
1	HQPM-20	54.0	59.0	55.8	45.8	51.8	54.8	40.7	49.7	53.8	50.8	49.3	52.8	50.8	49.3
2	HQPM-21	53.3	59.3	55.8	46.5	53.3	53.0	52.3	52.2	51.3	49.0	50.0	52.8	49.0	50.0
3	BAQH-8-9-201	53.7	59.5	56.6	47.0	51.8	52.8	54.3	52.4	50.3	46.5	50.8	51.5	46.5	50.8
4	BAUSYN-8-9-501	53.7	55.0	56.0	45.8	51.5	53.0	52.3	51.7	50.5	45.8	51.8	51.3	45.8	51.8
5	BAUSYN-8-9-502	52.7	57.8	55.2	45.8	50.3	53.0	48.3	50.4	50.5	46.3	50.5	50.3	46.3	50.5
6	ECQ-3152	58.3	61.3	59.8	48.3	53.8	55.0	55.3	53.5	53.5	53.0	52.3	55.8	53.0	52.3
7	VEHQ-3019	56.3	62.8	59.5	48.3	54.5	56.8	53.7	54.0	54.0	51.5	52.3	54.8	51.5	52.3
8	BQPMH-282	56.3	59.8	58.0	48.5	53.5	55.8	52.3	53.5	54.8	53.3	54.5	54.5	53.3	54.5
9	JHQPM-304	57.0	66.8	61.9	48.5	56.3	56.8	52.7	54.2	55.5	53.8	56.8	55.5	53.8	56.8
CHECKS															
10	HQPM-1	55.7	55.5	55.6	48.8	53.5	54.0	49.7	52.8	54.5	51.5	53.5	53.3	51.5	53.5
11	HQPM-5	57.7	61.8	59.7	48.3	54.8	56.0	52.3	53.5	53.5	51.5	52.8	54.8	51.5	52.8
12	HQPM-7	56.3	57.3	56.8	49.3	52.8	54.0	53.3	52.8	54.3	51.8	51.5	54.5	51.8	51.5
	Loc. Mean	55.4	59.7	57.6	47.5	53.1	54.6	51.4	52.6	53.0	50.4	52.1	53.5	50.4	52.1
	C.D. (5%)	1.42	2.28	4.15	2.33	2.72	1.62	12.1	2.33	1.29	1.45	1.36	1.14	1.29	1.36
	C.V. (%)	1.51	2.66	3.28	3.41	3.56	2.07	13.9	3.48	1.69	2.00	1.81	1.48	2.00	1.81
	F (Prob.)	0.00	0.00	0.05	0.02	0.01	0.00	0.58	0.01	0.00	0.00	0.00	0.00	0.00	0.00
SI	No. PEDIGREE	Zone										Zone Mean	Zone Mean		
		RANC	AMBI	ARBH	HYDE	KOLH	MAND	UDAI	BANS	GODH	CHRI			OVIL	
1	HQPM-20	49.0	50.0	50.9	54.3	55.3	51.0	54.6	52.3	50.0	52.3	50.5	50.0	52.3	51.3
2	HQPM-21	49.0	53.0	50.8	54.8	53.8	49.3	53.6	50.3	49.5	51.3	48.8	49.5	51.3	50.0
3	BAQH-8-9-201	49.3	50.3	49.8	53.3	51.0	49.0	52.3	51.0	48.0	52.0	49.3	48.0	52.0	50.1
4	BAUSYN-8-9-501	50.0	51.3	50.1	53.8	51.5	48.5	52.3	50.7	48.3	51.7	50.5	48.3	51.7	50.3
5	BAUSYN-8-9-502	48.8	51.0	49.5	52.8	50.3	47.3	51.1	48.7	47.3	51.0	50.0	47.3	51.0	49.2
6	ECQ-3152	51.5	53.5	53.3	55.8	56.0	51.3	55.3	54.3	51.5	55.3	54.0	51.5	55.3	53.8
7	VEHQ-3019	52.5	52.3	52.9	55.8	58.0	52.5	56.3	54.7	53.8	54.3	53.8	51.5	54.3	54.6
8	BQPMH-282	52.8	55.3	54.2	54.8	56.0	51.0	54.5	55.0	52.5	55.3	50.8	52.5	55.3	53.4
9	JHQPM-304	54.0	54.0	54.9	55.3	58.3	53.8	56.4	56.0	54.3	58.0	52.3	54.3	58.0	55.1
CHECKS															
10	HQPM-1	52.0	54.8	53.3	55.0	57.3	52.5	55.8	54.3	51.8	54.0	51.8	51.8	54.0	53.8
11	HQPM-5	54.0	54.3	53.4	56.8	59.3	53.3	57.1	55.3	52.0	57.3	51.3	52.0	57.3	54.8
12	HQPM-7	52.0	53.8	53.0	56.0	58.3	52.0	56.0	54.0	39.8	54.0	53.8	39.8	54.0	50.4
	Loc. Mean	51.2	52.8	52.2	54.8	57.3	50.9	54.6	53.1	49.7	53.9	51.4	49.7	53.9	52.0
	C.D. (5%)	1.81	1.39	1.23	1.48	2.91	1.47	1.37	1.41	1.22	1.32	1.22	1.22	1.32	2.90
	C.V. (%)	2.45	1.84	2.04	1.88	2.80	2.00	1.74	1.57	1.65	1.44	1.65	1.38	1.44	3.88
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00

TABLE No. 28 (Continued) DAYS TO 50% SILKING

SI	No. PEDIGREE	Zone										Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean	Zone Mean
		ALMO	BAJA	DELH	KARN	LUJH	PANT	KANP	UDAI	BANS	GODH												
1	HQPM-20	56.3	61.0	58.7	57.8	47.8	54.8	57.5	57.7	55.1	54.8	54.8	54.8	53.5	56.5								
2	HQPM-21	55.3	62.0	58.7	58.3	48.8	55.8	56.0	57.3	55.2	52.3	52.3	39.8	54.5									
3	BAUQH-8-9-201	56.0	62.0	59.0	60.5	49.0	54.8	55.8	59.3	55.9	51.3	51.3	49.3	54.5									
4	BAUSYN-8-9-501	55.7	58.3	57.0	59.0	48.0	54.5	56.0	57.3	55.0	51.5	51.5	48.5	56.5									
5	BAUSYN-8-9-502	54.0	60.3	57.1	57.8	48.3	52.8	55.5	54.0	53.7	51.5	51.5	47.8	56.0									
6	ECQ-3152	59.3	64.0	61.7	57.0	50.3	57.0	57.8	60.7	56.5	54.5	54.5	56.0	56.0									
7	VEHQ-3019	57.7	64.8	61.2	59.3	50.8	57.8	59.3	59.0	57.2	55.0	55.0	54.3	56.8									
8	BQPMH-282	58.0	61.8	59.9	60.3	50.8	56.3	58.5	57.3	56.6	56.0	56.0	56.5	58.8									
9	JHQPM-304	58.0	69.3	63.6	60.3	50.5	59.8	59.8	58.0	57.7	56.8	56.8	56.5	60.3									
CHECKS																							
10	HQPM-1	57.3	57.8	57.5	61.5	51.0	56.5	57.5	55.3	56.4	55.5	55.5	54.3	59.3									
11	HQPM-5	59.0	64.0	61.5	59.5	50.3	58.0	59.0	57.3	56.8	54.5	54.5	54.5	56.8									
12	HQPM-7	57.7	59.8	58.7	58.0	51.5	55.3	57.0	58.3	56.0	55.5	55.5	54.5	55.5									
	Loc. Mean	57.0	62.1	59.5	59.1	49.7	56.1	57.5	57.6	56.0	54.1	54.1	52.1	56.8									
	C.D. (5%)	1.28	2.25	4.35	2.51	2.34	2.70	1.67	1.40	1.56	1.35	1.35	9.98	1.35									
	C.V. (%)	1.33	2.52	3.32	2.96	3.27	3.35	2.02	1.43	2.19	1.71	1.73	13.31	1.65									
	F (Prob.)	0.00	0.00	0.11	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00									
CHECKS																							
1	HQPM-20	53.0	53.0	54.3	55.3	61.0	56.3	53.0	56.4	54.3	52.3	52.3	54.3	53.7	55.2								
2	HQPM-21	53.0	55.3	51.6	55.8	59.0	54.8	51.0	55.1	52.3	51.8	51.8	52.0	52.0	53.9								
3	BAUQH-8-9-201	53.3	53.3	52.5	54.5	58.0	52.0	51.0	53.9	52.7	52.8	51.5	53.3	52.6	54.2								
4	BAUSYN-8-9-501	53.8	54.0	52.9	54.8	58.5	52.5	50.5	54.1	53.7	53.8	51.8	52.7	53.0	54.0								
5	BAUSYN-8-9-502	53.0	53.8	52.4	53.8	57.5	51.3	49.3	52.9	52.0	53.5	51.5	52.0	52.3	53.2								
6	ECQ-3152	56.3	56.5	56.3	56.8	61.0	57.0	53.5	57.1	56.3	57.0	52.3	55.7	55.3	56.8								
7	VEHQ-3019	56.5	55.0	55.8	56.8	61.8	59.0	54.5	58.0	57.0	57.0	52.8	56.0	55.7	57.0								
8	BQPMH-282	56.8	58.3	57.2	55.8	60.5	57.0	53.0	56.6	56.7	54.3	53.5	56.7	55.3	56.8								
9	JHQPM-304	58.3	57.0	57.7	56.3	61.0	59.5	55.8	58.1	58.3	55.5	54.8	58.7	56.6	58.2								
CHECKS																							
10	HQPM-1	56.3	57.5	56.3	56.0	60.8	58.3	54.3	57.3	55.3	54.8	53.3	55.7	54.8	56.3								
11	HQPM-5	58.0	56.8	56.3	57.8	62.5	60.3	55.3	58.9	57.0	54.8	52.5	58.3	55.6	57.3								
12	HQPM-7	56.0	56.8	55.9	57.3	60.3	58.8	54.0	57.6	56.0	56.8	52.5	54.7	55.0	56.3								
	Loc. Mean	55.3	55.6	54.9	55.9	60.1	56.4	52.9	56.3	55.1	54.6	52.5	55.0	54.3	55.8								
	C.D. (5%)	1.98	1.42	2.08	1.45	1.83	2.94	1.54	1.42	1.37	1.34	1.46	1.22	1.49	0.89								
	C.V. (%)	2.49	1.78	3.27	1.81	2.12	3.62	2.02	1.75	1.47	1.70	1.93	1.30	1.90	2.64								
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00								

TABLE No. 28 (Continued)

DAYS TO 50% DRY HUSK

SI	No. PEDIGREE	Zone										Zone Mean	VARA	
		ALMO	BAJA	BAJA	DELH	KARN	LUDH	PANT	KANP	UDAI	UDAI			BAHR
1	HQPM-20	105.0	99.8	102.4	90.8	80.5	87.5	102.0	90.7	90.3	84.5	89.0	96.3	94.3
2	HQPM-21	102.7	102.3	102.5	87.0	80.5	88.3	101.8	91.3	89.8	84.5	86.5	94.8	90.5
3	BAUQH-8-9-201	102.7	100.5	101.6	88.3	82.0	86.0	102.8	93.0	90.4	83.3	85.8	93.8	90.5
4	BAUSYN-8-9-501	101.7	95.8	98.7	90.5	81.8	87.3	104.0	92.0	91.1	84.5	86.0	91.8	91.8
5	BAUSYN-8-9-502	102.3	102.3	102.3	89.3	81.3	86.3	100.8	87.7	89.0	83.8	86.5	94.8	94.3
6	ECQ-3152	102.7	99.3	101.0	91.0	80.5	88.3	101.5	92.0	90.7	84.0	84.8	93.0	90.5
7	VEHQ-3019	106.0	108.3	107.1	92.8	81.3	90.3	103.5	92.0	92.0	87.3	89.0	97.3	91.5
8	BQPMH-282	103.0	100.8	101.9	90.3	82.0	87.5	103.0	90.3	90.6	86.0	89.3	95.5	96.3
9	JHQPM-304	106.7	107.0	106.8	92.5	81.5	89.3	103.0	92.7	91.8	87.3	88.8	97.3	94.0
CHECKS														
10	HQPM-1	106.7	103.0	104.8	87.5	80.8	88.0	102.3	39.7	89.6	86.0	89.3	97.5	98.5
11	HQPM-5	104.3	99.3	101.8	91.5	83.3	89.8	103.8	90.0	91.7	84.5	88.8	94.5	90.8
12	HQPM-7	107.0	98.5	102.8	89.3	82.8	87.3	103.5	90.7	90.7	86.3	90.0	96.0	91.5
	Loc. Mean	104.2	101.4	102.8	90.0	81.5	88.0	102.6	91.0	90.6	85.1	87.8	95.2	92.9
	C.D. (5%)	2.29	1.88	4.78	4.54	2.66	3.34	2.21	3.55	1.44	1.34	1.71	1.98	1.62
	C.V. (%)	1.30	1.29	2.11	3.51	2.27	2.64	1.49	2.30	1.25	1.10	1.36	1.45	1.22
	F (Prob.)	0.00	0.00	0.08	0.24	0.51	0.30	0.12	0.19	0.00	0.00	0.00	0.00	0.00

SI	No. PEDIGREE	Zone										Zone Mean	OV'L Mean		
		RANC	AMBI	AMBI	ARBH	HYDE	KOLH	MAND	MAND	UDAI	UDAI			BANS	GODH
1	HQPM-20	95.7	92.5	92.0	88.8	99.5	96.3	103.0	96.9	84.7	82.5	81.0	87.7	84.0	92.0
2	HQPM-21	96.3	93.3	91.0	88.5	96.8	94.5	98.3	94.5	84.3	80.0	79.3	85.0	82.1	90.8
3	BAUQH-8-9-201	96.3	91.5	90.2	87.8	97.8	92.8	97.8	94.0	32.7	82.0	76.8	86.3	81.9	90.5
4	BAUSYN-8-9-501	96.5	92.3	90.5	87.5	97.3	92.3	97.0	93.5	81.3	83.0	79.8	85.7	82.4	90.4
5	BAUSYN-8-9-502	95.8	92.0	91.2	88.0	95.8	92.0	96.0	92.9	82.0	81.5	79.5	86.3	82.3	90.4
6	ECQ-3152	97.3	94.0	90.6	88.0	99.0	97.0	99.5	95.9	81.7	85.0	76.8	89.0	83.1	91.2
7	VEHQ-3019	98.0	92.5	92.6	88.3	100.8	96.5	109.8	98.8	85.0	86.5	79.5	91.0	86.3	93.8
8	BQPMH-282	98.3	95.0	93.4	87.5	100.3	97.0	102.0	96.7	83.7	82.5	79.3	89.3	83.7	92.3
9	JHQPM-304	98.0	93.8	93.2	87.8	100.3	97.0	103.8	97.2	84.0	83.5	79.8	90.7	84.5	93.3
CHECKS															
10	HQPM-1	97.5	94.3	93.8	88.0	99.8	98.3	104.3	97.6	84.7	84.5	81.5	90.3	85.3	93.0
11	HQPM-5	97.3	94.0	91.6	88.5	103.0	100.3	106.3	99.5	86.0	85.0	81.8	90.0	85.7	93.0
12	HQPM-7	98.0	94.3	92.7	87.3	96.5	98.8	103.8	96.6	85.7	84.5	79.5	90.3	85.0	92.4
	Loc. Mean	97.1	93.3	91.9	88.0	98.9	96.0	101.8	96.2	83.8	83.4	79.8	88.5	83.9	91.9
	C.D. (5%)	1.08	1.37	1.44	1.48	1.53	3.64	3.80	2.84	2.26	1.53	4.77	1.63	1.80	0.99
	C.V. (%)	0.78	1.02	1.35	1.17	1.07	2.63	2.60	2.06	1.59	1.28	4.16	1.09	1.49	1.78
	F (Prob.)	0.00	0.00	0.00	0.65	0.00	0.00	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00

TABLE No. 28 (Continued) MOISTURE

SI	No. PEDIGREE	Zone										Zone Mean				
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR		DROL	JASH	VARA	RANC
1	HQPM-20	26.2	21.0	23.6	31.5	25.4	22.5	26.0	15.0	24.1	20.9	19.5	16.9	27.8	21.2	21.2
2	HQPM-21	26.1	22.4	24.2	31.2	25.7	23.1	26.2	15.0	24.2	21.8	17.5	16.6	25.9	19.5	20.3
3	BAUGH-8-9-201	27.3	22.6	25.0	35.5	26.5	22.9	28.9	15.0	25.7	22.3	17.3	16.6	26.2	19.2	20.3
4	BAUSYN-8-9-501	27.9	22.8	25.4	36.7	28.4	23.4	24.1	15.0	25.5	21.9	17.2	17.0	24.8	19.4	20.0
5	BAUSYN-8-9-502	26.1	20.5	23.3	29.8	26.1	21.0	27.7	15.0	23.9	20.5	19.4	17.0	24.8	21.3	20.6
6	EQ-3152	28.2	23.9	26.0	38.4	30.8	25.4	26.9	15.0	27.3	23.6	16.8	16.5	27.4	20.7	21.0
7	VERQ-3019	29.8	23.6	26.7	38.1	27.3	28.7	32.8	15.0	28.4	22.6	18.7	16.6	29.6	20.1	21.5
8	BQPMH-282	27.4	24.0	25.7	37.6	27.0	26.3	33.5	15.0	27.9	22.8	17.4	16.8	28.8	19.1	21.0
9	JHOPM-304	30.3	22.4	26.3	36.7	27.0	27.9	30.0	15.0	27.3	22.7	23.2	17.0	29.5	20.7	22.6
CHECKS																
10	HOPM-1	27.1	24.5	25.8	42.8	27.8	27.0	30.3	15.0	28.6	22.9	21.8	17.5	30.7	19.2	22.4
11	HOPM-5	29.4	25.8	27.6	41.9	31.3	28.7	31.0	15.0	29.6	22.8	24.8	17.1	26.1	19.3	22.0
12	HOPM-7	29.9	23.0	26.4	33.4	28.9	26.8	30.4	15.0	26.9	21.5	19.9	17.4	29.0	19.6	21.5
	Loc. Mean	28.0	23.0	25.5	36.1	27.7	25.3	29.0	15.0	26.6	22.2	19.5	16.9	27.5	19.9	21.2
	C.D. (5%)	1.59	1.59	2.41	2.14	-	1.65	2.08	-	2.65	0.79	-	0.17	0.79	0.52	1.88
	C.V. (%)	3.35	4.79	4.30	4.12	-	4.55	4.99	-	7.80	2.49	-	0.70	1.99	1.81	6.97
	F (Prob.)	0.00	0.00	0.05	0.00	0.00	0.00	0.00	-	0.00	0.00	0.00	0.00	0.00	0.00	0.13

SI	No. PEDIGREE	Zone										Zone Mean				
		ARBH	HYDE	KOLH	MAND	Zone Mean	UDAI	BANS	GODH	CHHI	Zone Mean		OVI L	Zone Mean		
1	HOPM-20	29.2	31.5	13.8	16.4	22.7	18.6	16.6	27.3	17.2	19.9	22.2	22.0	19.7	22.0	
2	HQPM-21	31.0	29.7	13.1	16.6	22.6	21.7	16.6	24.2	16.4	19.7	22.0	22.0	19.7	22.0	
3	BAUGH-8-9-201	33.5	32.1	15.4	16.4	24.3	21.1	16.2	31.9	18.9	22.0	23.3	22.4	22.0	23.3	
4	BAUSYN-8-9-501	31.0	29.6	12.6	16.6	22.4	18.8	16.5	25.2	19.1	19.9	22.4	22.4	19.9	22.4	
5	BAUSYN-8-9-502	32.5	29.2	14.6	16.2	23.1	22.1	16.5	23.7	16.1	19.6	22.0	22.0	19.6	22.0	
6	EQ-3152	34.6	26.9	14.8	16.8	23.3	20.8	16.1	24.7	19.5	20.3	23.4	23.4	20.3	23.4	
7	VERQ-3019	33.9	29.1	14.0	16.8	23.4	24.0	16.2	32.8	17.9	22.7	24.4	24.4	22.7	24.4	
8	BQPMH-282	29.1	30.5	14.5	16.4	22.6	21.7	15.9	35.2	15.3	22.0	23.7	23.7	22.0	23.7	
9	JHOPM-304	38.1	26.1	15.4	16.6	24.0	21.5	15.8	31.3	19.4	22.0	24.3	24.3	22.0	24.3	
CHECKS																
10	HQPM-1	40.4	28.2	13.5	16.4	24.6	21.0	16.1	33.8	17.9	22.2	24.7	24.7	22.2	24.7	
11	HQPM-5	45.7	32.7	15.0	16.9	27.6	23.6	15.7	28.0	18.3	21.4	25.4	25.4	21.4	25.4	
12	HQPM-7	37.2	29.3	13.9	16.2	24.1	21.0	15.9	26.4	19.3	20.6	23.7	23.7	20.6	23.7	
	Loc. Mean	34.7	29.6	14.2	16.5	23.7	21.3	16.1	28.7	17.9	21.0	23.4	23.4	21.0	23.4	
	C.D. (5%)	3.07	2.14	0.69	0.31	3.81	0.45	0.31	3.63	1.82	3.34	1.25	1.25	3.34	1.25	
	C.V. (%)	6.15	5.04	3.40	1.32	11.1	1.24	1.34	8.80	6.01	11.0	8.58	8.58	11.0	8.58	
	F (Prob.)	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.50	0.00	

TABLE No. 28 (Continued)

PLANT HEIGHT CM

SI	No. PEDIGREE	Zone												
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA
1	HQPM-20	233	180	206	149	193	170	232	182	185	158	157	188	
2	HQPM-21	245	177	211	140	196	160	225	195	183	154	137	190	
3	BAUQH-8-9-201	239	189	214	139	208	169	230	185	186	161	128	210	
4	BAUSYN-8-9-501	247	184	216	140	180	169	205	192	177	159	138	188	
5	BAUSYN-8-9-502	243	170	206	143	193	171	240	184	186	155	149	190	
6	ECO-3152	257	177	217	157	193	165	234	190	188	160	136	205	
7	VEHQ-3019	259	177	218	144	200	169	235	195	188	154	146	195	
8	BQPMH-282	255	183	219	133	200	171	225	180	182	164	127	208	
9	JHQPM-304	258	200	229	151	199	175	250	192	193	179	152	193	
CHECKS														
10	HQPM-1	240	182	211	138	189	170	233	185	183	152	138	190	
11	HQPM-5	254	184	219	156	208	180	235	192	194	167	143	213	
12	HQPM-7	248	179	214	163	204	185	243	191	197	169	138	210	
	Loc. Mean	248	182	215	146	197	171	232	189	187	161	141	198	
	C.D. (5%)	7.9	12.6	15.8	12.9	17.1	14.9	19.2	1.5	8.4	9.6	6.3	6.2	
	C.V. (%)	1.9	4.8	3.3	6.1	6.1	6.0	5.8	0.5	3.5	4.2	3.1	2.2	
	F (Prob.)	0.00	0.01	0.24	0.00	0.09	0.15	0.01	0.00	0.00	0.00	0.00	0.00	

SI	No. PEDIGREE	Zone													
		RANC	AMBI	Zone Mean	ARBH	HYDE	KOLH	MAND	Zone Mean	UDAI	BANS	GODH	CHHI	Zone Mean	OV'L Mean
1	HQPM-20	196	212	183	190	218	188	193	197	213	173	169	191	187	189
2	HQPM-21	187	210	175	183	216	201	188	197	203	176	164	198	185	186
3	BAUQH-8-9-201	191	208	179	184	221	215	190	203	202	167	168	190	182	189
4	BAUSYN-8-9-501	185	204	178	186	225	219	191	205	183	164	162	199	177	186
5	BAUSYN-8-9-502	191	213	181	183	208	194	186	193	198	172	167	184	180	187
6	ECO-3152	187	182	175	186	220	214	184	201	225	178	166	192	190	190
7	VEHQ-3019	190	186	175	188	197	193	194	193	205	184	163	192	186	188
8	BQPMH-282	186	206	176	185	203	199	172	189	190	175	159	207	183	185
9	JHQPM-304	212	231	193	181	234	205	202	205	230	181	175	203	197	200
CHECKS															
10	HQPM-1	188	222	179	180	226	196	187	197	212	169	163	177	180	187
11	HQPM-5	200	215	189	189	233	205	194	205	208	184	176	188	189	196
12	HQPM-7	210	250	194	184	229	205	197	204	208	179	180	208	194	198
	Loc. Mean	194	212	181	185	219	203	190	199	207	175	168	194	186	190
	C.D. (5%)	13.3	4.3	11.1	1.6	23.8	30.9	18.0	10.9	9.9	4.6	10.5	21.7	11.6	4.9
	C.V. (%)	4.8	1.4	5.3	0.6	7.6	10.6	6.6	3.8	2.8	1.8	4.3	6.6	4.3	4.3
	F (Prob.)	0.00	0.00	0.00	0.00	0.07	0.63	0.18	0.04	0.00	0.00	0.01	0.17	0.04	0.00

TABLE No. 28 (Continued)

EAR HEIGHT CM

SI	No. PEDIGREE	Zone													
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	DHOL	JASH	VARA	
1	HOPM-20	106	79	93	52	98	69	91	66	75	61	48	80		
2	HOPM-21	125	83	104	55	105	79	102	81	84	69	47	100		
3	BAUQH-8-9-201	129	95	112	61	115	83	100	75	87	72	43	110		
4	BAUSYN-8-9-501	128	82	105	63	103	79	97	81	84	74	54	88		
5	BAUSYN-8-9-502	126	80	103	61	105	76	110	65	84	71	50	100		
6	ECO-3152	134	82	108	75	106	83	98	85	89	72	43	113		
7	VEHQ-3019	135	81	108	54	119	88	99	77	87	67	49	95		
8	BOPMH-282	133	86	109	73	123	90	107	71	93	79	50	113		
9	JHOPM-304	154	96	125	84	119	101	130	75	102	92	61	100		
CHECKS															
10	HOPM-1	126	84	105	63	105	78	101	71	83	65	45	93		
11	HOPM-5	131	89	110	72	111	86	111	79	92	78	52	118		
12	HOPM-7	128	73	101	66	108	84	133	85	95	79	49	105		
	Loc. Mean	130	84	107	65	110	83	107	76	88	73	49	101		
	C.D. (5%)	11.3	9.0	14.2	12.4	15.5	15.3	25.9	3.2	8.8	10.3	5.6	3.4		
	C.V. (%)	5.2	7.4	6.0	13.2	9.8	12.8	16.9	2.5	7.9	9.8	8.0	2.4		
	F (Prob.)	0.00	0.00	0.05	0.00	0.06	0.03	0.05	0.00	0.00	0.00	0.00	0.00		

SI	No. PEDIGREE	Zone													
		RANC	AMBI	Zone Mean	ARBH	HYDE	KOLH	MAND	Zone Mean	UDAI	BANS	GODH	CHRI	Zone Mean	OV'L Mean
1	HOPM-20	73	56	66	98	93	85	91	92	88	58	83	71	75	77
2	HOPM-21	92	77	78	91	95	113	92	98	108	78	74	103	91	88
3	BAUQH-8-9-201	93	72	81	92	92	113	89	96	90	66	83	105	86	89
4	BAUSYN-8-9-501	88	75	80	96	106	115	91	102	93	85	84	91	88	89
5	BAUSYN-8-9-502	89	72	79	92	83	98	85	89	83	83	75	90	83	85
6	ECO-3152	91	60	75	93	89	106	88	94	113	71	76	102	91	88
7	VEHQ-3019	90	54	74	97	82	98	89	91	92	75	84	94	86	86
8	BOPMH-282	90	79	84	93	82	104	88	91	97	85	82	113	94	92
9	JHOPM-304	110	94	95	88	113	133	98	108	135	92	81	121	107	104
CHECKS															
10	HOPM-1	92	73	76	89	85	100	96	92	87	69	81	90	82	85
11	HOPM-5	96	82	89	96	97	100	95	97	112	96	77	106	98	95
12	HOPM-7	101	85	83	90	98	106	94	97	102	93	86	107	97	93
	Loc. Mean	92	73	80	93	93	106	91	96	100	79	80	99	90	89
	C.D. (5%)	12.4	2.2	8.3	2.4	14.1	16.0	8.8	10.2	6.1	4.9	12.4	13.9	13.3	4.5
	C.V. (%)	9.3	2.1	9.0	1.8	10.5	10.5	6.7	7.4	3.6	4.3	10.7	8.3	10.3	8.3
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.00	0.14	0.04	0.00	0.00	0.65	0.00	0.00	0.00

TABLE No. 28 (Continued)

SHELLING %

SI	No. PEDIGREE	Zone										Zone Mean				
		ALMO	BAJA	DELH	KARN	LUDH	PANT	KANP	Zone Mean	BAHR	JASH		VARA	RANC	AMBI	Zone Mean
1	HQPM-20	85.2	89.1	87.2	89.8	82.6	87.0	87.5	74.0	84.2	80.1	79.0	77.0	83.3	82.3	80.3
2	HQPM-21	85.9	83.8	84.8	82.4	80.4	84.5	85.2	74.0	81.3	79.4	79.2	77.0	86.2	81.0	80.5
3	BAUGH-8-9-201	85.9	79.9	82.9	81.4	80.0	86.1	83.1	73.0	80.7	77.5	78.7	77.3	86.2	81.5	80.2
4	BAUSYN-8-9-501	84.7	80.1	82.4	82.5	85.2	86.6	82.4	74.0	82.1	79.5	80.1	78.3	83.3	82.7	80.8
5	BAUSYN-8-9-502	85.0	81.2	83.1	80.6	86.4	86.1	87.2	72.5	82.5	79.1	78.5	77.0	86.2	83.8	80.9
6	ECO-3152	82.2	89.9	86.0	81.0	80.4	89.6	85.0	75.5	82.3	77.5	78.7	75.0	86.6	80.2	79.6
7	VEHQ-3019	83.5	78.0	80.8	81.8	76.3	88.2	85.2	74.5	81.2	76.9	76.6	75.8	86.6	81.4	79.4
8	BQPMH-282	85.4	80.3	82.8	82.1	80.6	77.2	85.2	73.5	79.7	79.3	77.1	75.8	85.0	81.2	79.7
9	JHOPM-304	82.8	79.1	81.0	76.0	86.7	91.2	83.3	72.5	81.9	77.3	77.7	75.3	82.9	82.4	79.1
CHECKS																
10	HQPM-1	84.6	81.0	82.8	82.2	80.6	80.7	85.2	74.0	80.5	79.1	78.5	78.8	82.1	83.2	80.3
11	HQPM-5	83.5	79.0	81.2	81.8	76.1	90.5	84.2	75.0	81.5	79.4	77.1	78.0	85.7	80.1	80.0
12	HQPM-7	83.2	88.2	85.7	82.6	78.0	88.3	83.3	74.5	81.4	77.1	77.3	77.0	84.4	80.4	79.2
	Loc. Mean	84.3	82.5	83.4	82.0	81.1	86.3	84.7	73.9	81.6	78.5	78.2	76.8	84.9	81.7	80.0
	C.D. (5%)	1.44		7.25	2.61	-	2.81		1.19	3.76	1.39	0.68	0.93	2.04	3.51	1.57
	C.V. (%)	1.01		3.95	2.21	-	2.26		0.95	3.62	1.23	0.60	0.84	1.67	2.99	1.54
	F (Prob.)	0.00	0.00	0.64	0.00	0.00	0.00		0.00	0.70	0.00	0.00	0.00	0.00	0.49	0.32

SI	No. PEDIGREE	Zone										Zone Mean	
		ARBH	HYDE	KOLH	MAND	Zone Mean	UDAI	BANS	GODH	CHHI	Zone Mean		OV'L
1	HQPM-20	82.0	77.1	83.3	83.2	81.4	82.3	67.5	77.8	80.0	76.9	81.5	81.5
2	HQPM-21	81.7	78.3	83.1	81.9	81.3	85.9	71.2	80.5	84.9	80.6	81.3	80.6
3	BAUGH-8-9-201	82.2	77.1	85.5	84.0	82.2	81.6	69.3	78.2	80.0	77.3	80.4	80.4
4	BAUSYN-8-9-501	81.2	78.6	83.7	82.3	81.4	80.8	69.3	77.0	80.8	77.0	80.6	80.6
5	BAUSYN-8-9-502	82.8	77.3	84.4	81.8	81.6	77.6	75.0	77.0	82.9	78.1	81.1	81.1
6	ECO-3152	80.1	74.1	82.7	82.8	79.9	77.1	75.3	70.6	86.7	77.4	80.5	80.5
7	VEHQ-3019	81.6	74.1	84.5	78.8	79.7	80.9	71.8	75.6	82.6	77.7	79.7	79.7
8	BQPMH-282	84.2	77.7	83.5	89.3	83.6	81.5	69.4	75.2	82.2	77.1	80.3	80.3
9	JHOPM-304	79.1	72.3	83.8	78.4	78.4	79.5	68.3	79.1	81.2	77.0	79.4	79.4
CHECKS													
10	HQPM-1	83.2	73.6	84.0	83.9	81.2	84.0	70.2	75.8	84.9	78.7	80.5	80.5
11	HQPM-5	80.0	75.2	83.3	82.5	80.2	81.0	71.8	75.7	80.6	77.3	80.0	80.0
12	HQPM-7	83.6	75.3	82.4	82.9	81.0	69.4	69.3	69.3	78.1	74.5	79.8	79.8
	Loc. Mean	81.8	75.9	83.7	82.6	81.0	81.1	70.7	76.0	82.1	77.5	80.4	80.4
	C.D. (5%)	1.42	1.32	1.66	1.53	2.30	0.69	1.26	2.32	1.85	3.74	1.45	1.45
	C.V. (%)	1.21	1.21	1.38	1.29	1.97	0.50	1.24	2.12	1.33	3.35	2.90	2.90
	F (Prob.)	0.00	0.00	0.04	0.00	0.01	0.00	0.00	0.00	0.00	0.33	0.13	0.13

TABLE NO. 29
 PERFORMANCE OF QPM EXPERIMENTAL HYBRIDS AT ALMORA, BAJAURA, DMR DELHI, KARNAL, VARANASI, DHOLI, JASHIPUR,
 AMBIKAPUR, ARHAVI, HYDERABAD, KOLHAPUR, UDAIPUR, CHHINDIWARA IN JET & AET 1st YEAR, TRIAL NO. TROPM 2, 3
 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																																			
		ZN 1					ZN 2																														
		ALMO	R	BAJA	R	MEAN	DELH	R	DEH	R	MEAN	LUDH	R	LUDH	R	MEAN	DHOL	R	DHOL	R	MEAN	JASH	R	JASH	R	MEAN	VARA	R	VARA	R	MEAN						
1	VEHQPM-3018	3445	5	5418	5	4432	5	455	5	2833	5	2222	5	4012	5	2817	5	7762	1	8829	1	8296	1	4112	3	6006	4	5182	2	5100	2	3963	2	5088	2	7867	2
3	HQPM-1	7234	2	8754	2	7994	2	5108	2	5047	3	3626	3	5216	1	6809	4	7152	3	7953	3	7553	3	3282	4	6267	3	4306	4	4618	4	3149	4	4934	4	7683	3
4	HQPM-5	7080	4	7931	4	7505	4	5906	1	6104	1	4359	1	4972	3	7956	1	7080	4	7931	4	7505	4	5906	1	6511	1	5894	1	6104	1	4359	1	4972	3	7956	1
5	HQPM-7	6535		7777		7156		3773		4740		3464		4844		6627		6535		7777		7156		3773		6151		4297		4740		3464		4844		6627	
	Location Mean	42		65		53		54		60		50		47		74		42		65		53		54		65		61		60		50		47		74	
	C.D. (5%)	783		1530		1157		316		1211		1273		1410		206		783		1530		1157		316		1112		2204		1211		1273		1410		206	
	C.V. (%)	9.92		16.28		-		6.93		-		30.41		24.09		2.57		9.92		16.28		-		6.93		14.95		32.96		-		30.41		24.09		2.57	
	F (Prob)	0		0		-		0		-		0		0		0		0		0		-		0		0.558		0		0		0		0		0	
	Plot Size	7.2		8.4		-		11.6		-		12		9.6		9.6		7.2		8.4		-		11.6		12		9.6		-		12		9.6		9.6	
	AGRONOMY DATA																																				
	Sowing Date	9-07		1-07		-		7-06		-		9-07		25-07		2-07																					
	Harvest Date	14-11		3-11		-		16-10		-		-		12-11		13-10																					
	Irrigation Nos	-		3		-		4		-		-		-		2																					
	Fertilizer Applied N	100		120		-		150		-		120		120		100																					
	Fertilizer Applied P	60		60		-		75		-		60		60		60																					
	Fertilizer Applied K	40		40		-		75		-		40		60		40																					

Table No. 29 (Continued)

SI	NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															OV'L									
			ZN 3			HYDE			ARBH			KOLH			ZN 4			UDAI			CHHI			ZN 5			MEAN
			AMBI	R	MEAN	R	ARBH	R	HYDE	R	ARBH	R	KOLH	R	MEAN	R	UDAI	R	CHHI	R	MEAN	R	MEAN	R			
1	VEHQP-3018		1845	5	2724	5	4358	5	4039	5	4938	5	4445	5	3803	5	1652	5	2728	5	3361	5					
2	VEHQP-302		4855	2	5443	2	6998	1	5299	3	7203	1	6500	2	6753	3	5094	1	5923	2	6072	2					
CHECKS																											
3	HQPM-1		4711	3	5090	3	5565	3	5446	2	7077	3	6029	3	7598	1	5090	2	6344	1	5876	3					
4	HQPM-5		4066	4	4958	4	5524	4	4638	4	6494	4	5552	4	7258	2	3775	4	5516	3	5463	4					
5	HQPM-7		4929	1	5554	1	6809	2	7045	1	7132	2	6996	1	5894	4	5019	3	5456	4	6246	1					
	Location Mean		4081		4754		5851		5294		6569		5904		6261		4126		5194		5404						
	Mean Stand		65		59		50		64		78		64		59		76		67		61						
	C.D. (5%)		1449		1085		1315		1003		769		1029		667		1265		966		1093						
	C.V. (%)		29.39		-		18.6		15.68		9.69		-		6.84		25.38		-		-						
	F (Prob)		0		-		0		0		0		-		0		0		-		-						
	Pilot Size		12		-		12		12		12		-		9.6		12		-		-						
AGRONOMY DATA																											
	Sowing Date		7-07		-		17-07		7-07		12-07		-		29-06		14-07		-		-						
	Harvest Date		-		-		6-11		12-11		7-12		-		6-10		20-11		-		-						
	Irrigation Nos		-		-		6		2		-		-		2		-		-		-						
	Fertilizer Applied N		120		-		150		180		120		-		90		120		-		-						
	Fertilizer Applied P		60		-		75		60		60		-		60		60		-		-						
	Fertilizer Applied K		40		-		37.5		50		40		-		-		40		-		-						

Table No. 29 (Continued)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1											ZN 3 MEAN				
		ALMO	BAJA	ZN 1 MEAN	DELH	KARN	LUDH	ZN 2 MEAN	DHOL	JASH	VARA	AMBI					
1	VEHQPM-3018	-	-	-	-	16.8	-	-	-	-	-	-	-	-	-	-	-
2	VEHQPM-302 CHECKS	7.3	0.9	3.8	-	8.8	14.9	1.1	9.3	-	15.5	3.1	6.9	-	-	-	-
3	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	HQPM-5	-	-	-	-	13.5	-	-	-	-	-	-	-	-	12.8	-	-
5	HQPM-7	-	-	-	15.6	17.9	30.7	21	20.2	-	16.8	4.6	9.1	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM-1										ZN 5 MEAN	OV'L MEAN				
		ARBH	HYDE	KOLH	ZN 4 MEAN	CDAI	CHHI	ZN 5 MEAN	OV'L MEAN								
1	VEHQPM-3018	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2	VEHQPM-302 CHECKS	25.7	-	1.8	7.8	-	0.1	-	3.3	-	-	-	-	-	-	-	-
3	HQPM-1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	HQPM-7	22.4	29.4	0.8	16	-	-	-	6.3	-	-	-	-	-	-	-	-

Table No. 29 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE HQPM-5														
Sl NO	PEDIGREE	ZN 1					ZN 2					ZN 3		
		ALMO	BAJA	MEAN	DELH	KARN	LUDH	MEAN	DHOL	JASH	VARA	AMBI	MEAN	
1	VEHQPM-3018	-	-	-	-	2.9	-	-	-	-	-	-	-	-
2	VEHQPM-302 CHECKS	8.5	11	9.8	25.3	-	20.4	10.4	25.9	3.1	2.4	19.4	9.8	
3	HQPM-1	1.1	10.1	5.8	55.6	-	4.8	9.3	15.2	5.7	-	15.9	2.7	
4	HQPM-5	-	-	-	-	-	-	-	-	-	-	-	-	
5	HQPM-7	-	-	-	79.9	3.9	36.9	32.2	38.4	0.8	3.6	21.2	12	

Sl NO	PEDIGREE	ZN 4				ZN 5		OV'L	
		ARBH	HYDE	KOLH	MEAN	UDAI	CHHI	MEAN	MEAN
1	VEHQPM-3018	-	-	-	-	-	-	-	-
2	VEHQPM-302 CHECKS	26.7	14.2	10.9	17.1	-	34.9	7.4	11.2
3	HQPM-1	0.8	17.4	9	8.6	4.7	34.8	15	7.6
4	HQPM-5	-	-	-	-	-	-	-	-
5	HQPM-7	23.3	51.9	9.8	26	-	33	-	14.3

Table No. 29 (Continued)

GRAIN YIELD & SUPERIORITY OVER THE HQPM-7														
SI	No	PEDIGREE	ZN 1					ZN 2			ZN 3			
			ALMO	BAJA	MEAN	DELH	KARN	LUDH	MEAN	DHOL	JASH	VARA	AMBI	MEAN
	1	VEHQPM-3018	-	-	-	-	-	-	-	-	-	-	-	-
	2	VEHQPM-302	9.6	11.3	10.5	-	-	-	-	-	-	-	-	-
		CHECKS												
	3	HQPM-1	2.2	10.4	6.5	-	-	-	-	2.3	-	-	-	-
	4	HQPM-5	1	0.3	0.6	-	-	-	-	4.9	-	-	-	-
	5	HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-
SI														
GRAIN YIELD & SUPERIORITY OVER THE HQPM-7														
SI	No	PEDIGREE	ZN 4					ZN 5			OV'L			
			ARBH	HYDE	KOLH	MEAN	UDAI	CHHI	MEAN	MEAN	MEAN	MEAN	MEAN	
	1	VEHQPM-3018	-	-	-	-	-	-	-	-	-	-	-	-
	2	VEHQPM-302	2.8	-	1	-	14.6	1.5	8.6	-	-	-	-	-
		CHECKS												
	3	HQPM-1	-	-	-	-	28.9	1.4	16.3	-	-	-	-	-
	4	HQPM-5	-	-	-	-	23.1	-	1.1	-	-	-	-	-
	5	HQPM-7	-	-	-	-	-	-	-	-	-	-	-	-

Table No. 29 (Continued)

DAYS TO 50% POLLEN SHED													
SI	No. PEDIGREE	Zone											Zone Mean
		ALMO	BAJA	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA	AMBI	Zone Mean	
1	VEHOPM-3018	65.3	65.5	65.4	65.0	52.8	62.3	60.0	62.7	56.7	57.8	51.8	57.3
2	VEHOPM-302	55.8	55.3	55.6	56.3	49.7	56.3	54.1	57.8	50.2	51.2	49.3	52.1
CHECKS													
3	HOPM-1	55.8	58.7	57.3	54.5	51.2	57.0	54.2	56.2	49.8	50.7	49.2	51.5
4	HOPM-5	58.0	60.5	59.3	53.8	51.0	56.0	53.6	55.3	50.5	51.8	52.8	52.6
5	HOPM-7	56.5	57.7	57.1	51.5	47.8	55.5	51.6	57.3	51.7	48.8	50.2	52.0
Loc. Mean													
C.D. (5%)													
C.V. (%)													
F (Prob.)													
0.97		1.54	2.83	1.36	5.73	5.09	3.85	3.53	1.71	0.56	0.45	2.52	
1.38		2.15	1.73	2.00	9.42	5.75	3.73	5.07	2.75	0.90	0.74	3.09	
0.00		0.00	0.00	0.00	0.47	0.07	0.01	0.00	0.00	0.00	0.00	0.00	0.00

SI	No. PEDIGREE	Zone											Zone Mean
		ARBH	HYDE	KOLH	UDAI	CHHI	Zone Mean	OV'L	Mean				
1	VEHOPM-3018	57.3	53.8	63.0	59.3	63.5	61.4	59.8					
2	VEHOPM-302	58.0	57.0	59.5	54.8	57.7	56.2	54.9					
CHECKS													
3	HOPM-1	57.2	57.2	59.7	53.5	54.3	53.9	54.6					
4	HOPM-5	57.8	57.2	61.3	54.5	58.3	56.4	55.6					
5	HOPM-7	58.0	56.7	59.7	55.5	57.2	56.3	54.6					
Loc. Mean													
C.D. (5%)													
C.V. (%)													
F (Prob.)													
1.37		0.97	1.34	2.73	0.92	0.72	2.83	1.52					
1.97		1.42	1.84	2.49	1.08	1.03	1.79	3.57					
0.60		0.00	0.00	0.96	0.00	0.00	0.01	0.00					

Table No. 29 (Continued)

SI No.	PEDIGREE	DAYS TO 50% SILKING										Zone	
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA	AMBI	Zone Mean
1	VEHQPM-3018	65.8	69.5	67.7	68.2	59.8	65.5	64.5	65.2	60.5	63.8	53.8	60.8
2	VEHQPM-302	57.3	57.7	57.5	59.0	50.0	60.3	56.4	59.8	52.5	55.7	52.3	55.1
	CHECKS												
3	HQPM-1	56.8	61.0	58.9	57.5	51.5	61.0	56.7	57.7	51.8	55.3	52.2	54.3
4	HQPM-5	59.3	62.8	61.1	57.0	51.7	59.8	56.1	56.7	52.7	55.7	54.8	55.0
5	HQPM-7	57.8	59.8	58.8	53.8	49.7	59.0	54.2	59.2	52.2	52.7	52.5	54.1
	Loc. Mean	59.4	62.2	60.8	59.1	52.5	61.1	57.6	59.7	53.9	56.6	53.1	55.9
	C.D. (5%)	1.07	0.78	3.07	1.02	3.19	5.58	3.09	3.69	0.67	0.74	0.67	3.06
	C.V. (%)	1.50	1.04	1.82	1.44	5.05	5.93	2.85	5.13	1.03	1.09	1.05	3.56
	F (Prob.)	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.00
SI No.	PEDIGREE	DAYS TO 50% SILKING										Zone	
		ARBH	HYDE	KOLH	Zone Mean	UDAI	CRHI	Zone Mean	OV'L Mean				
1	VEHQPM-3018	59.3	56.5	64.0	59.9	62.5	65.3	63.9	62.8				
2	VEHQPM-302	59.2	59.3	60.5	59.7	57.0	58.3	57.7	57.1				
	CHECKS												
3	HQPM-1	58.5	57.8	60.7	59.0	54.8	55.5	55.1	56.6				
4	HQPM-5	59.2	59.2	62.3	60.2	56.0	58.8	57.4	57.6				
5	HQPM-7	59.2	58.8	60.7	59.6	58.0	58.2	58.1	56.5				
	Loc. Mean	59.1	58.3	61.6	59.7	57.7	59.2	58.4	58.1				
	C.D. (5%)	1.86	0.74	1.34	2.37	1.35	0.59	2.38	1.58				
	C.V. (%)	2.61	1.05	1.81	2.11	1.52	0.83	1.47	3.59				
	F (Prob.)	0.90	0.00	0.00	0.81	0.00	0.00	0.00	0.00				

Table No. 29 (Continued)

SI	No. PEDIGREE	DAYS TO 50% DRY HUSK													Zone Mean
		ALMO	BAJA	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA	AMBI	Zone Mean			
1	VEHQPM-3018	119.2	115.0	117.1	95.7	82.0	91.9	100.0	100.2	97.7	94.5	98.1			
2	VEHQPM-302	113.8	107.3	110.6	93.8	83.0	91.9	100.5	106.5	95.2	93.8	99.0			
CHECKS															
3	HQPM-1	113.8	114.0	113.9	91.5	81.0	90.6	100.5	95.3	95.5	91.3	95.7			
4	HQPM-5	111.3	107.8	109.6	94.0	81.7	90.4	97.8	92.8	90.7	91.5	93.2			
5	HQPM-7	112.0	109.8	110.9	92.7	93.2	90.3	98.3	94.3	89.0	91.8	93.4			
	Loc. Mean	114.0	110.8	112.4	93.5	82.2	91.0	99.4	97.8	93.6	92.6	95.9			
	C.D. (5%)	1.75	1.38	4.84	2.31	1.19	3.02	2.04	13.93	1.29	0.95	3.96			
	C.V. (%)	1.27	1.03	1.55	2.05	1.20	1.76	1.70	11.82	1.15	0.85	2.68			
	F (Prob.)	0.00	0.00	0.05	0.02	0.01	0.19	0.03	0.27	0.00	0.00	0.02			

SI	No. PEDIGREE	Zone										Zone Mean
		ARBH	HYDE	KOLH	Zone Mean	UDAI	CHHI	Zone Mean	OV'L	Mean		
1	VEHQPM-3018	88.7	96.8	103.0	96.2	88.8	94.7	91.7	98.1			
2	VEHQPM-302	88.0	99.3	98.8	95.4	85.5	92.3	88.9	96.9			
CHECKS												
3	HQPM-1	88.8	95.8	99.7	94.8	87.3	92.7	90.0	96.2			
4	HQPM-5	89.5	96.3	101.3	95.7	87.0	91.2	89.1	94.9			
5	HQPM-7	90.0	98.0	99.7	95.9	84.8	92.2	88.5	95.1			
	Loc. Mean	89.0	97.3	100.5	95.6	86.7	92.6	89.6	96.2			
	C.D. (5%)	1.80	1.08	1.51	2.82	1.04	0.98	2.48	1.64			
	C.V. (%)	1.68	0.92	1.25	1.57	0.78	0.88	1.00	2.24			
	F (Prob.)	0.21	0.00	0.00	0.82	0.00	0.00	0.10	0.00			

Table No. 29 (Continued)

SI	No. PEDIGREE	MOISTURE										Zone Mean
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA	
1	VEHQPM-3018	38.8	26.0	32.4	40.3	32.1	28.2	33.5	25.6	17.3	32.2	25.0
2	VEHQPM-302	29.9	24.4	27.1	36.0	32.5	25.0	31.2	21.6	17.9	26.6	22.0
	CHECKS											
3	HQPM-1	29.9	24.8	27.4	35.1	31.6	28.8	31.8	23.8	17.6	26.3	22.6
4	HQPM-5	30.3	24.7	27.5	35.6	30.1	28.4	31.4	29.2	17.8	25.2	24.1
5	HQPM-7	29.2	23.9	26.5	32.8	31.0	28.5	30.8	21.5	17.3	25.2	21.3
	Loc. Mean	31.6	24.8	28.2	36.0	31.5	27.8	31.7	24.3	17.6	27.1	23.0
	C.D. (5%)	1.34	1.04	6.52	1.69	0.00	1.91	3.59	-	0.15	0.35	4.61
	C.V. (%)	3.51	3.50	8.33	3.90	0.00	4.46	6.01	-	0.73	1.09	10.65
	F (Prob.)	0.00	0.01	0.25	0.00	0.00	0.01	0.48	-	0.00	0.00	0.40
SI	No. PEDIGREE	OV'L										Zone Mean
		ARBH	HYDE	KOLH	Zone Mean	UDAI	CHHI	Zone Mean	OV'L	Mean	Mean	
1	VEHQPM-3018	41.0	32.3	14.9	29.4	22.2	19.5	20.8	28.5			
2	VEHQPM-302	33.7	32.1	14.2	26.7	19.3	16.0	17.6	25.3			
	CHECKS											
3	HQPM-1	34.6	33.9	13.7	27.4	19.0	15.3	17.1	25.7			
4	HQPM-5	39.2	23.9	14.3	25.8	20.9	17.2	19.0	25.9			
5	HQPM-7	34.3	29.4	14.6	26.1	21.6	14.5	18.0	24.9			
	Loc. Mean	36.6	30.3	14.3	27.1	20.6	16.5	18.5	26.1			
	C.D. (5%)	1.46	1.23	0.30	6.02	3.03	1.13	3.44	1.66			
	C.V. (%)	3.31	3.37	1.72	11.8	9.56	5.67	6.68	8.07			
	F (Prob.)	0.00	0.00	0.00	0.67	0.15	0.00	0.17	0.00			

Table No. 29 (Continued)

SI	No. PEDIGREE	PLANT HEIGHT CM										Zone Mean	
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA		AMBI
1	VEHQPM-3018	210	178	194	125	156	144	142	132	140	128	212	153
2	VEHQPM-302	249	186	217	168	180	170	173	154	169	198	245	192
	CHECKS												
3	HQPM-1	238	180	209	175	171	170	172	153	169	198	250	192
4	HQPM-5	252	208	230	190	182	186	186	165	187	208	266	206
5	HQPM-7	260	190	225	184	185	184	184	168	173	223	272	209
	Loc. Mean	242	188	215	168	175	171	171	154	167	191	249	190
	C.D. (5%)	9.7	14.0	28.8	11.2	12.3	14.8	15.0	19.2	6.5	2.7	10.0	17.4
	C.V. (%)	3.3	6.2	4.8	5.5	5.8	5.6	4.6	10.3	3.2	1.2	3.3	5.9
	F (Prob.)	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
SI	No. PEDIGREE	Zone										Zone Mean	
		ARBH	HYDE	KOLH	UDAI	CHHI	OV'L	Zone Mean	Zone Mean	Zone Mean	Zone Mean		Zone Mean
1	VEHQPM-3018	163	188	190	180	178	140	159	163				
2	VEHQPM-302	162	220	205	196	204	189	196	193				
	CHECKS												
3	HQPM-1	162	216	201	193	206	178	192	190				
4	HQPM-5	167	231	217	205	213	194	203	204				
5	HQPM-7	164	237	211	204	211	203	207	205				
	Loc. Mean	164	218	205	196	202	181	191	191				
	C.D. (5%)	2.6	20.6	16.0	17.4	7.9	11.8	22.4	7.3				
	C.V. (%)	1.3	7.8	6.5	4.7	2.5	5.4	4.2	5.1				
	F (Prob.)	0.01	0.00	0.03	0.06	0.00	0.00	0.02	0.00				

Table No. 29 (Continued)

SI	No. PEDIGREE	EAR HEIGHT CM										Zone Mean	Zone Mean
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA		
1	VEHQPM-3018	120	81	100	73	83	71	76	53	61	78	83	69
2	VEHQPM-302	129	88	109	77	88	83	82	68	66	103	80	79
	CHECKS												
3	HQPM-1	117	82	99	80	88	79	82	66	68	100	84	80
4	HQPM-5	147	111	129	99	102	101	101	84	83	123	109	100
5	HQPM-7	128	94	111	87	101	93	94	78	71	113	99	90
	Loc. Mean	128	91	110	83	92	85	87	70	70	103	91	83
	C.D. (5%)	8.5	15.8	5.7	13.1	6.3	14.0	5.4	8.4	5.3	3.2	7.6	8.5
	C.V. (%)	5.5	14.4	1.9	13.1	5.6	10.7	3.3	10.0	6.3	2.6	6.9	6.6
	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
SI	No. PEDIGREE	EAR HEIGHT CM										Zone Mean	Zone Mean
		ARBH	HYDE	KOLH	UDAI	CHHI	OV'L	Zone Mean	Zone Mean				
1	VEHQPM-3018	70	79	93	81	93	69	81	79				
2	VEHQPM-302	73	89	94	85	94	89	91	87				
	CHECKS												
3	HQPM-1	70	85	101	85	98	87	92	86				
4	HQPM-5	74	104	110	96	118	108	113	105				
5	HQPM-7	73	103	108	95	91	98	95	96				
	Loc. Mean	72	92	101	88	99	90	94	91				
	C.D. (5%)	2.0	10.1	9.8	9.8	7.0	5.5	21.6	4.0				
	C.V. (%)	2.3	9.1	8.1	5.9	4.6	5.1	8.2	5.8				
	F (Prob.)	0.00	0.00	0.00	0.03	0.00	0.00	0.09	0.00				

Table No. 29 (Continued)

SI No.	PEDIGREE	SHELLING %										Zone Mean
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	JASH	VARA	AMBI	
1	VEHQPM-3018	81.6	79.5	80.5	75.1	80.0	71.9	75.7	77.6	74.5	84.1	78.7
2	VEHQPM-302	84.1	77.1	80.6	84.9	83.3	81.2	83.1	78.8	77.8	84.4	80.3
	CHECKS											
3	HQPM-1	84.8	78.5	81.6	84.6	77.6	81.7	81.3	80.1	79.5	84.0	81.2
4	HQPM-5	82.7	80.2	81.4	83.5	81.9	77.5	81.0	77.3	77.8	83.1	79.4
5	HQPM-7	83.0	80.6	81.8	81.6	81.5	77.0	80.0	77.2	76.5	84.1	79.3
	Loc. Mean	83.2	79.2	81.2	82.0	80.9	77.9	80.2	78.2	77.2	83.9	79.8
	C.D. (5%)	0.84	-	4.62	3.34	-	0.68	4.84	0.27	0.35	2.80	2.04
	C.V. (%)	0.83	-	2.05	3.38	-	0.56	3.20	0.28	0.37	2.77	1.36
	F (Prob.)	0.00	0.00	0.89	0.00	0.00	0.00	3.05	0.00	0.00	0.90	0.13
SI No.	PEDIGREE	SHELLING %										Zone Mean
		ARBH	HYDE	KOLH	Zone Mean	UDAI	CHHI	Zone Mean	OV'L Mean			
1	VEHQPM-3018	81.5	75.2	84.0	80.2	80.6	78.1	79.4	78.7			
2	VEHQPM-302	84.1	77.6	87.1	82.9	82.2	83.9	83.0	82.0			
	CHECKS											
3	HQPM-1	82.5	76.6	86.8	82.0	83.0	85.7	84.4	82.0			
4	HQPM-5	81.2	76.4	88.2	81.9	82.0	82.7	82.4	81.1			
5	HQPM-7	82.8	74.3	85.1	80.7	81.2	84.5	82.6	80.7			
	Loc. Mean	82.4	76.0	86.2	81.5	81.8	83.0	82.4	80.9			
	C.D. (5%)	1.70	2.84	0.25	2.02	1.44	2.91	4.53	1.39			
	C.V. (%)	1.71	3.10	0.24	1.31	1.14	2.91	1.98	2.18			
	F (Prob.)	0.02	0.19	0.00	0.09	0.03	0.00	0.19	0.00			

Table No. 29 (Continued)

SI	No. PEDIGREE	STAND ('000/ha)										Zone	
		ALMO	BAJA	Zone Mean	DELH	KARN	LUDH	Zone Mean	DHOL	JASH	VARA	AMBI	Zone Mean
1	VEHQPM-3018	51	69	60	22	48	40	37	18	17	73	24	33
2	VEHQPM-302	62	83	72	55	57	72	61	51	56	80	65	63
	CHECKS												
3	HQPM-1	60	82	71	57	56	70	61	49	57	78	69	64
4	HQPM-5	56	75	66	38	56	61	52	38	56	77	48	55
5	HQPM-7	61	79	70	60	53	76	63	50	58	78	66	63
	Loc. Mean	58	77	68	46	54	64	55	41	49	77	54	55
	C.D. (5%)	4.0	2.6	4.3	7.6	8.3	8.1	14.4	5.1	3.0	4.3	5.8	12.4
	C.V. (%)	5.7	2.8	2.3	13.6	12.8	8.2	14.0	10.3	5.1	4.7	8.8	14.5
	F (Prob.)	0.00	0.00	0.01	0.00	0.19	0.00	0.01	0.00	0.00	0.03	0.00	0.00
SI	No. PEDIGREE	ARBH	HYDE	KOLH	Zone Mean	UDAI	CHHI	Zone Mean	OV'L	Zone Mean			
1	VEHQPM-3018	31	57	61	50	57	57	57	45	57	57	57	45
2	VEHQPM-302	42	51	66	53	62	65	63	62	65	63	63	62
	CHECKS												
3	HQPM-1	46	51	66	54	62	66	64	62	66	64	64	62
4	HQPM-5	45	51	66	54	64	64	64	57	64	64	64	57
5	HQPM-7	45	55	65	55	61	66	63	62	61	66	63	62
	Loc. Mean	42	53	65	53	61	63	62	58	61	63	62	58
	C.D. (5%)	7.7	4.8	4.8	8.3	4.7	4.0	5.0	5.5	4.7	4.0	5.0	5.5
	C.V. (%)	15.4	7.5	6.2	8.3	4.9	5.3	2.9	12.6	4.9	5.3	2.9	12.6
	F (Prob.)	0.00	0.03	0.18	0.68	0.09	0.00	0.06	0.00	0.09	0.00	0.06	0.00

Table No. 30
 PERFORMANCE OF SWEET CORN EXPERIMENTAL HYBRID & COMPOSITE AT ALMORA, BAJAURA, DMR DELHI, KARNAL, DHOLI, JASHIPUR, ARBHAVI, HYDERABAD, UDAIPUR, CHHINDIWARA IN TRIAL No. SWEET CORN DURING KHARIF (2009).

SI No. PEDIGREE	Green Ear yield (kg/ha)												OV'L							
	ALMO			BAJA			DELH			KARN			ZN 2		ZN 4		OV'L			
	R	Mean	R	R	Mean	R	R	Mean	R	Mean	R	R	Mean	R	Mean	R	Mean			
1 SWEET CORN HYBRID	11778	3	17547	7	14663	6	5685	2	9333	6	7509	5	2611	4	10583	8	6597	8	9590	7
2 ORISSA SWEET - 1	11963	2	18217	6	15090	4	4673	7	8667	8	6670	9	2889	2	13639	3	8264	3	10008	6
3 ORISSA SWEET - 2	9556	7	18957	5	14256	7	3274	9	12519	2	7896	3	2722	3	15361	2	9042	2	10398	5
4 DULCINO AMINO x HKI SCST	13370	1	24565	2	18968	1	5119	5	10148	4	7634	4	2722	3	11861	6	7292	6	11298	2
5 HKI SCST x INSEC 2	9259	8	20868	4	15064	5	5833	1	11037	3	8435	2	3278	1	15500	1	9389	1	10963	3
6 HKI SCST x CUBA 379	10899	5	25678	1	18283	2	5286	4	17778	1	11532	1	2556	5	12444	5	7500	4	12438	1
7 DMSC 16 x CUBA 379	11519	4	23149	3	17334	3	4286	8	9926	5	7106	6	2444	6	11083	7	6764	7	10401	4
CHECKS																				
8 WIN ORANGE SWEET CORN	9222	9	17350	8	13286	9	5357	3	8074	9	6716	8	1944	8	8444	9	5194	9	8399	9
9 MADHURI SWEET CORN	9963	6	16728	9	13345	8	4970	6	8741	7	6855	7	2111	7	12500	4	7306	5	9169	8
Loc. Mean	10835		20340		15588		4942		10691		7817		2585		12380		7483		10296	
C.D. (5%)	2061		2939		4948		2425		1986		5128		467		2732		3220		2308	
C.V. (%)	11.0		6.3		13.8		28.4		10.7		28.5		10.4		12.8		18.7		19.2	
F (Prob.)	0.01		0.00		0.19		0.51		0.00		0.54		0.00		0.00		0.23		0.05	

SI No. PEDIGREE	GREEN EAR YIELD & SUPERIORITY OVER THE WIN ORANGE SWEET CORN												OV'L					
	ALMO			BAJA			DELH			KARN			ZN 2		ZN 4		OV'L	
	R	Mean	R	R	Mean	R	R	Mean	R	Mean	R	R	Mean	R	Mean	R	Mean	
1 SWEET CORN HYBRID	27.7	1.1	10.4	6.1	15.6	11.8	34.3	25.3	27.0	14.2								
2 ORISSA SWEET - 1	29.7	5.0	13.6	-12.8	7.3	-0.7	48.6	61.5	59.1	19.2								
3 ORISSA SWEET - 2	3.6	9.3	7.3	-38.9	55.1	17.6	40.0	81.9	74.1	23.8								
4 DULCINO AMINO x HKI SCST	45.0	41.6	42.8	-4.4	25.7	13.7	40.0	40.5	40.4	34.5								
5 HKI SCST x INSEC 2	0.4	20.3	13.4	8.9	36.7	25.6	68.6	83.6	80.8	30.5								
6 HKI SCST x CUBA 379	18.1	48.0	37.6	-1.3	120.2	71.7	31.5	47.4	44.4	48.1								
7 DMSC 16 x CUBA 379	24.9	33.4	30.5	-20.0	22.9	5.8	25.7	31.3	30.2	23.8								
CHECKS																		
8 WIN ORANGE SWEET CORN	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0								
9 MADHURI SWEET CORN	8.0	-3.6	0.4	-7.2	8.3	2.1	8.6	48.0	40.7	9.2								
Loc. Mean	17.5	17.2	17.3	-7.7	32.4	16.4	33.0	46.6	44.1	22.6								

Table No. 30 (Continued)

GREEN EAR YIELD & SUPERIORITY OVER THE MADHURI SWEET CORN															
SI No. PEDIGREE	ALMO			BAJA			ZN 1			ZN 2			OV'L		
	DELH	R	HYDE	R	HYDE	R	Mean	DELH	KARN	ARBH	HYDE	Mean	Mean	Mean	
1 SWEET CORN HYBRID	18.2		4.9	4.9	14.4		9.9	14.4	6.8	23.7		9.5		4.6	
2 ORISSA SWEET - 1	20.1		8.9	13.1	-6.0		13.1	-6.0	-0.8	36.9		-2.7		9.2	
3 ORISSA SWEET - 2	-4.1		13.3	6.8	-34.1		6.8	-34.1	43.2	28.9		15.2		13.4	
4 DULCINO AMINO x HKI SCST	34.2		46.8	42.1	3.0		42.1	3.0	16.1	28.9		11.4		23.2	
5 HKI SCST x INSEC 2	-7.1		24.7	12.9	17.4		12.9	17.4	26.3	55.3		23.0		19.6	
6 HKI SCST x CUBA 379	9.3		53.5	37.0	6.4		37.0	6.4	103.4	21.1		68.2		35.7	
7 DMSC 16 x CUBA 379	15.6		38.4	29.9	-13.8		29.9	-13.8	13.6	15.8		3.7		13.4	
CHECKS															
8 WIN ORANGE SWEET CORN	-7.4		3.7	-0.4	7.8		-0.4	7.8	-7.6	-7.9		-2.0		-8.4	
9 MADHURI SWEET CORN	0.0		0.0	0.0	0.0		0.0	0.0	0.0	0.0		0.0		0.0	
Loc. Mean	8.8		21.6	16.8	-0.6		16.8	-0.6	22.3	22.5		14.0		12.3	
Fodder yield (kg/ha)															
SI No. PEDIGREE	DELH			OV'L			ZN 1			ZN 2			FODDER YIELD & SUPERIORITY OVER THE MADHURI SWEET CORN		
	DELH	R	HYDE	R	HYDE	R	Mean	DELH	HYDE	Mean	DELH	HYDE	Mean	DELH	HYDE
1 SWEET CORN HYBRID	16220	5	15139	5	15680		15680	18.2	18.2	18.2		18.2		3.8	3.8
2 ORISSA SWEET - 1	12857	9	12000	9	12429		12429								
3 ORISSA SWEET - 2	13899	7	12972	7	13436		13436	1.3	1.3	1.3		1.3			
4 DULCINO AMINO x HKI SCST	21042	2	19639	2	20340		20340	53.4	53.4	53.4		53.4		34.7	34.7
5 HKI SCST x INSEC 2	19851	4	18528	4	19189		19189	44.7	44.7	44.7		44.7		27.0	27.0
6 HKI SCST x CUBA 379	23214	1	21667	1	22440		22440	69.2	69.2	69.2		69.2		48.6	48.6
7 DMSC 16 x CUBA 379	20268	3	18917	3	19592		19592	47.7	47.7	47.7		47.7		29.7	29.7
CHECKS															
8 WIN ORANGE SWEET CORN	13720	8	12806	8	13263		13263								
9 MADHURI SWEET CORN	15625	6	14583	6	15104		15104	13.9	13.9	13.9		13.9			
Loc. Mean	17411		16250		16830		16830	11.4	11.4	11.4		11.4		11.4	11.4
C.D. (5%)	2963		2765		407		407								
C.V. (%)	9.83		9.83		1.05		1.05								
F (Prob.)	0.00		0.00		0.00		0.00								

Table No. 30(Continued)

SI No. PEDIGREE	cob yield (kg/ha)											
	DELH	R	KARN	R	ZN 2 Mean	R	DHDL	R	JASH	R	ZN 3 Mean	R
1 SWEET CORN HYBRID	4077	1	6667	4	5372	2	1306	4	8715	5	5010	5
2 ORISSA SWEET - 1	2738	6	5852	6	4295	8	389	8	10625	3	5507	4
3 ORISSA SWEET - 2	2083	9	7630	2	4856	5	583	6	5625	9	3104	9
4 DULCINO AMINO x HKI SCST	3720	3	6741	3	5230	3	1750	2	6701	6	4226	6
5 HKI SCST x INSEC 2	3750	2	6667	4	5208	4	833	5	11042	1	5938	3
6 HKI SCST x CUBA 379	3214	5	10148	1	6681	1	1472	3	10868	2	6170	2
7 DMSC 16 x CUBA 379 CHECKS	2619	7	6296	5	4458	7	3500	1	10486	4	6993	1
8 WIN ORANGE SWEET CORN	3274	4	5852	6	4563	6	583	6	6007	8	3295	8
9 MADHURI SWEET CORN	2589	8	5852	6	4221	9	444	7	6319	7	3382	7
Loc. Mean	3118		6856		4987		1207		8488		4847	
C.D. (5%)	1633		2482		2443		523		550		3542	
C.V. (%)	30.3		20.9		21.2		25.1		3.8		31.7	
F (Prob.)	0.25		0.04		0.48		0.00		0.00		0.24	

SI No. PEDIGREE	OV'L											
	ARBH	R	HYDE	R	ZN 4 Mean	R	UDAI	R	CHHI	R	ZN 5 Mean	R
1 SWEET CORN HYBRID	1778	2	7306	8	4542	7	5486	8	3056	3	4271	5
2 ORISSA SWEET - 1	1778	2	10500	2	6139	2	6196	5	1583	8	3891	7
3 ORISSA SWEET - 2	1778	2	9389	4	5583	3	6892	2	1778	7	4335	4
4 DULCINO AMINO x HKI SCST	1833	1	9250	5	5542	4	8003	1	3444	2	5724	1
5 HKI SCST x INSEC 2	1778	2	11083	1	6431	1	5503	7	3722	1	4613	3
6 HKI SCST x CUBA 379	1611	3	7583	6	4597	6	3958	9	2306	5	3132	9
7 DMSC 16 x CUBA 379 CHECKS	1500	4	7361	7	4431	8	6667	3	2917	4	4792	2
8 WIN ORANGE SWEET CORN	1278	6	5833	9	3556	9	5625	6	1778	7	3701	8
9 MADHURI SWEET CORN	1444	5	9528	3	5486	5	6406	4	2000	6	4203	6
Loc. Mean	1642		8648		5145		6082		2509		4296	
C.D. (5%)	349		1515		2610		998		511		2113	
C.V. (%)	12.3		10.1		22.0		9.5		11.8		21.3	
F (Prob.)	0.04		0.00		0.35		0.00		0.00		0.37	

Table No. 30(Continued)

DAYS TO 50% POLLEN SHED													
SI	No. PEDIGREE	ALMO	BAJA	Zone		DELH	KARN	Zone		DHOL	JASH	Zone	
				Mean	Mean			Mean	Mean			Mean	Mean
1	SWEET CORN HYBRID	53.3	55.0	54.2	52.7	56.7	54.7	53.7	53.7	47.0	47.0	50.3	50.3
2	ORISSA SWEET - 1	57.7	59.0	58.3	56.0	58.3	57.2	57.7	57.7	49.7	49.7	53.7	53.7
3	ORISSA SWEET - 2	57.7	57.0	57.3	55.7	61.0	58.3	58.3	58.3	50.0	50.0	54.2	54.2
4	DULCINO AMINO x HKI SCST	51.0	52.0	51.5	51.0	58.3	54.7	52.3	52.3	44.0	44.0	48.2	48.2
5	HKI SCST x INSEC 2	54.7	55.0	54.8	51.3	59.0	55.2	54.7	54.7	47.0	47.0	50.8	50.8
6	HKI SCST x CUBA 379	55.0	51.5	53.3	52.7	60.3	56.5	54.7	54.7	46.7	46.7	50.7	50.7
7	DMSC 16 x CUBA 379	55.3	53.0	54.2	54.0	58.0	56.0	223.7	223.7	48.0	48.0	135.8	135.8
CHECKS													
8	WIN ORANGE SWEET CORN	53.0	54.0	53.5	52.7	59.3	56.0	55.0	55.0	45.0	45.0	50.0	50.0
9	MADHURI SWEET CORN	53.3	51.0	52.2	52.0	60.0	56.0	56.0	56.0	47.3	47.3	51.7	51.7
	Loc. Mean	54.6	54.2	54.4	53.1	59.0	56.1	74.0	74.0	47.2	47.2	60.6	60.6
	C.D. (5%)	1.04	3.82	3.10	3.58	4.51	3.34	169.72	169.72	1.49	1.49	91.03	91.03
	C.V. (%)	1.10	3.06	2.47	3.89	4.41	2.58	132.50	132.50	1.83	1.83	65.15	65.15
	F (Prob.)	0.00	0.02	0.01	0.09	0.62	0.34	0.48	0.48	0.00	0.00	0.49	0.49

SI	No. PEDIGREE	ARBH	HYDE	Zone		UDAI	CHHI	Zone		OV'L	Mean
				Mean	Mean			Mean	Mean		
1	SWEET CORN HYBRID	53.3	54.7	54.0	49.3	53.3	51.3	52.9	52.9	52.9	52.9
2	ORISSA SWEET - 1	55.3	54.3	54.8	51.3	56.0	53.7	55.5	55.5	55.5	55.5
3	ORISSA SWEET - 2	55.3	56.0	55.7	54.0	56.0	55.0	56.1	56.1	56.1	56.1
4	DULCINO AMINO x HKI SCST	53.0	52.0	52.5	47.3	51.3	49.3	51.2	51.2	51.2	51.2
5	HKI SCST x INSEC 2	53.0	54.0	53.5	51.0	53.3	52.2	53.3	53.3	53.3	53.3
6	HKI SCST x CUBA 379	54.3	53.0	53.7	51.7	54.7	53.2	53.5	53.5	53.5	53.5
7	DMSC 16 x CUBA 379	55.3	53.0	54.2	51.0	54.3	52.7	70.6	70.6	70.6	70.6
CHECKS											
8	WIN ORANGE SWEET CORN	53.3	55.0	54.2	47.3	52.0	49.7	52.7	52.7	52.7	52.7
9	MADHURI SWEET CORN	53.7	53.7	53.7	47.3	52.0	49.7	52.6	52.6	52.6	52.6
	Loc. Mean	54.1	54.0	54.0	50.0	53.7	51.9	55.4	55.4	55.4	55.4
	C.D. (5%)	1.13	1.80	2.24	2.88	1.21	1.66	15.83	15.83	15.83	15.83
	C.V. (%)	1.21	1.92	1.80	3.32	1.30	1.39	32.07	32.07	32.07	32.07
	F (Prob.)	0.00	0.01	0.25	0.00	0.00	0.00	0.37	0.37	0.37	0.37

Table No. 30 (Continued)

DAYS TO 50% SILKING														
SI	No. PEDIGREE	Zone			Zone			Zone			Zone			Zone
		ALMO	BAJA	DELH	KARN	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	
1	SWEET CORN HYBRID	55.3	57.5	56.4	57.0	60.0	58.5	57.0	49.0	53.0	54.7	59.0	56.8	
2	ORISSA SWEET - 1	59.0	61.5	60.3	57.7	60.7	59.2	60.0	52.0	56.0	56.0	56.7	56.3	
3	ORISSA SWEET - 2	59.0	59.0	59.0	57.7	63.7	60.7	60.7	52.3	56.5	56.3	59.0	57.7	
4	DULCINO AMINO x HK- SCST	53.3	54.0	53.7	53.3	60.3	56.8	55.7	46.0	50.8	53.3	54.0	53.7	
5	HKI SCST x INSEC 2	56.7	58.0	57.3	56.7	61.3	59.0	58.0	50.3	54.2	55.3	56.7	56.0	
6	HKI SCST x CUBA 379	56.7	53.5	55.1	56.7	62.3	59.5	58.0	49.0	53.5	56.0	55.3	55.7	
7	DMSC 16 x CUBA 379	57.3	55.0	56.2	55.7	60.7	58.2	56.0	50.7	53.3	56.3	56.3	56.3	
CHECKS														
8	WIN ORANGE SWEET CORN	54.7	56.5	55.6	56.7	62.0	59.3	57.7	47.0	52.3	54.0	57.0	55.5	
9	MADHURI SWEET CORN	54.7	53.0	53.8	53.3	62.7	58.0	58.0	49.3	53.7	54.0	55.3	54.7	
	Loc. Mean	56.3	56.4	56.4	56.1	61.5	58.8	57.9	49.5	53.7	55.1	56.6	55.9	
	C.D. (5%)	1.60	3.98	3.39	3.00	5.04	3.19	2.84	1.84	2.41	1.21	1.59	2.58	
	C.V. (%)	1.64	3.05	2.61	3.09	4.73	2.35	2.84	2.15	1.94	1.27	1.62	2.00	
	F (Prob.)	0.00	0.01	0.02	0.04	0.82	0.39	0.03	0.00	0.01	0.00	0.00	0.14	
Days to 50% dry husk														
SI	No. PEDIGREE	Zone			Zone			Zone			Zone			Zone
		UDAI	CHHI	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	Zone	Mean	
1	SWEET CORN HYBRID	55.0	54.7	54.8	55.9	79.7	84.3	85.0	85.0	85.0	85.0	85.0	85.0	
2	ORISSA SWEET - 1	55.0	57.0	56.0	57.6	82.7	89.7	85.0	82.7	82.7	83.8	83.8	83.8	
3	ORISSA SWEET - 2	56.7	56.7	56.7	58.1	83.3	87.7	86.7	86.7	84.7	85.7	85.7	85.7	
4	DULCINO AMINO x HKI SCST	50.3	52.3	51.3	53.3	82.0	85.7	80.7	80.7	80.7	80.7	80.7	80.7	
5	HKI SCST x INSEC 2	53.3	55.3	54.3	56.2	84.0	87.7	83.7	83.7	85.3	84.5	84.5	84.5	
6	HKI SCST x CUBA 379	54.7	56.3	55.5	55.9	91.0	87.3	85.0	85.0	86.0	85.5	85.5	85.5	
7	DMSC 16 x CUBA 379	53.0	56.0	54.5	55.7	88.0	89.3	83.7	83.7	85.0	84.3	84.3	84.3	
CHECKS														
8	WIN ORANGE SWEET CORN	50.7	54.0	52.3	55.0	82.7	84.3	81.3	81.3	81.3	81.3	81.3	81.3	
9	MADHURI SWEET CORN	50.3	54.0	52.2	54.5	81.3	85.0	80.3	80.3	81.3	80.8	80.8	80.8	
	Loc. Mean	53.2	55.1	54.2	55.8	83.9	86.8	83.5	83.5	83.6	83.5	83.5	83.5	
	C.D. (5%)	3.90	0.99	2.24	1.09	7.37	3.73	3.73	3.73	1.64	2.30	2.30	2.30	
	C.V. (%)	4.24	1.04	1.79	2.19	5.08	2.49	2.58	2.58	1.14	1.20	1.20	1.20	
	F (Prob.)	0.02	0.00	0.01	0.00	0.11	0.05	0.02	0.02	0.00	0.00	0.00	0.00	

Table No. 30 (Continued)

SI No. PEDIGREE	Plant Height (cm)									
	ALMO	BAJA	ZN 1 Mean	DELH	KARN	ZN 2 Mean	DHOL	JASH	ZN 3 Mean	
1 SWEET CORN HYBRID	226	180	203	149	137	143	114	127	120	
2 ORISSA SWEET - 1	203	187	195	147	143	145	124	117	120	
3 ORISSA SWEET - 2	201	180	190	150	172	161	125	123	124	
4 DULCINO AMINO x HKI SCST	205	180	193	144	145	145	120	118	119	
5 HKI SCST x INSEC 2	238	193	215	158	148	153	141	144	142	
6 HKI SCST x CUBA 379	228	212	220	163	147	155	128	143	136	
7 DMSC 16 x CUBA 379	234	203	218	151	143	147	144	122	133	
CHECKS										
8 WIN ORANGE SWEET CORN	227	188	207	142	144	143	122	122	122	
9 MADHURI SWEET CORN	206	180	193	143	147	145	121	118	119	
Loc. Mean	219	189	204	150	147	148	127	126	126	
C.D. (5%)	8.4	23.6	19.2	23.1	14.9	18.5	17.1	5.8	17.7	
C.V. (%)	2.2	5.4	4.1	8.9	5.8	5.4	7.8	2.7	6.1	
F (Prob.)	0.00	0.11	0.03	0.60	0.01	0.39	0.03	0.00	0.11	
SI No. PEDIGREE	Plant Height (cm)									
	ARBH	HYDE	ZN 4 Mean	UDAI	CHHI	ZN 5 Mean	OV'L	Mean		
1 SWEET CORN HYBRID	162	207	185	172	173	172	165	165		
2 ORISSA SWEET - 1	154	184	169	177	168	172	160	160		
3 ORISSA SWEET - 2	142	205	174	188	175	182	166	166		
4 DULCINO AMINO x HKI SCST	165	207	186	165	181	173	163	163		
5 HKI SCST x INSEC 2	182	198	190	180	192	186	177	177		
6 HKI SCST x CUBA 379	188	251	220	185	185	185	183	183		
7 DMSC 16 x CUBA 379	174	207	190	177	185	181	174	174		
CHECKS										
8 WIN ORANGE SWEET CORN	161	193	177	165	181	173	165	165		
9 MADHURI SWEET CORN	153	192	173	180	165	173	160	160		
Loc. Mean	165	205	185	176	178	177	168	168		
C.D. (5%)	11.4	20.4	25.0	15.1	29.4	19.8	8.3	8.3		
C.V. (%)	4.0	5.7	5.9	5.0	9.5	4.8	5.5	5.5		
F (Prob.)	0.00	0.00	0.03	0.05	0.62	0.55	0.00	0.00		

Table No. 30 (Continued)

SI No. PEDIGREE	EAR HEIGHT CM										OV'L Mean												
	ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH		UDAI	CHHI	Zone Mean									
1 SWEET CORN HYBRID	113	98	105	81	53	67	56	47	51	86	92	91	91	79									
2 ORISSA SWEET - 1	121	103	112	68	59	64	52	38	45	74	62	80	71	73									
3 ORISSA SWEET - 2	105	95	100	68	60	64	51	42	47	70	83	83	83	73									
4 DULCINO AMINO x HKI SCST	97	93	95	62	53	57	46	29	38	69	78	67	73	66									
5 HKI SCST x INSEC 2	94	88	91	53	65	59	42	33	38	59	88	90	89	68									
6 HKI SCST x CUBA 379	101	88	94	65	59	62	57	35	46	73	78	87	83	71									
7 DMSC 16 x CUBA 379 CHECKS	112	98	105	71	57	64	60	51	56	84	72	96	84	78									
8 WIN ORANGE SWEET CORN	119	115	117	84	59	72	63	49	56	96	92	105	98	87									
9 MADHURI SWEET CORN	118	105	112	66	54	60	75	45	60	88	93	104	99	83									
Loc. Mean	109	98	103	69	58	63	56	41	48	78	82	89	86	75									
C.D. (5%)	6.7	16.0	8.6	23.0	11.9	18.8	11.1	4.0	11.9	13.0	13.1	18.3	18.1	6.6									
C.V. (%)	3.6	7.1	3.6	19.3	11.9	12.9	11.5	5.6	10.7	9.7	9.2	11.9	9.2	9.3									
F (Prob.)	0.00	0.06	0.00	0.23	0.48	0.78	0.00	0.00	0.02	0.00	0.00	0.01	0.06	0.00									
Plant Stand ('000/ha)																							
SI No. PEDIGREE	ZN 1										ZN 2			ZN 3			ZN 4			ZN 5			OV'L Mean
	ALMO	BAJA	Mean	DELH	KARN	Mean	DHOL	JASH	Mean	ARBH	HYDE	Mean	UDAI	CHHI	Mean	UDAI	CHHI	Mean	UDAI	CHHI	Mean		
1 SWEET CORN HYBRID	60	76	68	44	67	55	40	54	47	58	53	56	42	65	54	42	65	54	42	65	54	56	
2 ORISSA SWEET - 1	59	68	63	24	66	45	19	53	36	40	58	49	31	58	45	31	58	45	31	58	45	48	
3 ORISSA SWEET - 2	54	78	66	18	68	43	19	51	35	41	52	46	29	49	39	29	49	39	29	49	39	46	
4 DULCINO AMINO x HKI SCST	59	79	69	39	62	50	37	52	45	54	56	55	40	61	50	40	61	50	40	61	50	54	
5 HKI SCST x INSEC 2	26	71	48	18	67	43	20	56	38	44	55	49	29	67	48	29	67	48	29	67	48	45	
6 HKI SCST x CUBA 379	57	79	68	49	67	58	35	52	43	49	52	51	30	62	46	30	62	46	30	62	46	53	
7 DMSC 16 x CUBA 379 CHECKS	56	75	66	33	68	50	44	53	48	59	53	56	38	62	50	38	62	50	38	62	50	54	
8 WIN ORANGE SWEET CORN	58	71	64	36	67	51	32	53	43	44	49	47	41	62	51	41	62	51	41	62	51	51	
9 MADHURI SWEET CORN	57	75	66	34	66	50	33	55	44	50	51	50	43	62	52	43	62	52	43	62	52	52	
Loc. Mean	54	75	64	33	67	50	31	53	42	49	53	51	36	61	48	36	61	48	36	61	48	51	
C.D. (5%)	4.6	7.5	16.5	17.5	7.5	18.7	8.1	3.0	15.8	10.7	5.4	13.1	8.2	10.6	10.3	8.2	10.6	10.3	8.2	10.6	10.3	5.3	
C.V. (%)	4.9	4.4	11.1	30.8	6.6	16.4	15.2	3.3	16.3	12.7	5.9	11.1	13.2	10.1	9.2	13.2	10.1	9.2	13.2	10.1	9.2	11.6	
F (Prob.)	0.00	0.07	0.27	0.02	0.83	0.59	0.00	0.11	0.55	0.01	0.08	0.56	0.00	0.10	0.16	0.00	0.10	0.16	0.00	0.10	0.16	0.00	

TABLE No. 31
 PERFORMANCE OF POP CORN EXPERIMENTAL HYBRID & COMPOSITE AT ALMORA, BAJAURA, DMR DELHI, KARNAL, DHOLI,
 JASHIPUR, AREHAVI, HYDERABAD, UDAIPUR, CHHINDIWARA IN POP CORN, TRIAL No. TRPOP DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE																
		ALMO			BAJA			DELH			KARN			ZN 2		ZN 3		
		R	R	R	R	R	R	R	R	R	R	R	MEAN	R	MEAN	R	JASH	R
1	BPC - 6	4	4853	2	4296	2	1584	2	1239	8	1412	5	2201	5				
2	HKIPC 7 x HKIPC 4B	5	3801	8	3560	6	1374	6	1876	1	1625	1	2840	1				
3	HKIPC 5 x WPII	3	5051	1	4437	1	1374	5	1340	6	1340	7	2074	7				
4	HKIPC 7 x WPII	2	4366	7	4095	4	1592	1	1559	3	1576	2	1767	8				
5	HKIPC 5 x HKIPC 7	6	4729	3	3624	5	1287	7	1600	2	1443	3	2491	2				
6	HKIPC 8 x HKIPC 4B	8	4545	5	3481	8	1221	8	1383	4	1302	8	2247	3				
7	WPII x HKIPC 5	1	4562	4	4237	3	1560	3	1269	7	1415	4	2138	6				
CHECKS																		
8	VL POP CORN 1	7	4524	6	3496	7	1416	4	1321	5	1368	6	2243	4				
	Location Mean		3253		3903		1426		1444		1435		2250					
	Mean Stand		28		29		27		26		27		26					
	C.D. (5%)		648		680		434		421		428		256					
	C.V. (%)		11.29		-		17.25		16.54		-		6.45					
	F (Prob)		0.032		-		0.331		0.19		-		0.001					
	Plot Size		4.8		-		5.6		4.5		-		4.8					
AGRONOMY DATA																		
	Sowing Date		11-07		-		7-06		10-07		-		26-07					
	Harvest Date		3-11		-		10-12		10-10		-		8-11					
	Irrigation Nos		-		-		4		4		-		-					
	Fertilizer Applied N		100		-		150		150		-		120					
	Fertilizer Applied P		60		-		75		60		-		60					
	Fertilizer Applied K		40		-		75		60		-		60					

Table No. 31 (Continued)

Sl No	PEDIGREE	ARSH		HYDE		ZN 4		UDAI		CHHI		ZN 5		OV'L	
		R	R	R	R	MEAN	R	R	R	R	MEAN	R	MEAN	R	R
1	BPCB - 6	3987	4	2833	1	3410	1	3507	7	2810	7	3159	7	2973	4
2	HKIPC 7 x HKIPC 4B	3991	3	2405	5	3198	4	3036	8	3503	4	3270	6	2905	5
3	HKIPC 5 x WPII	4348	1	2213	6	3280	2	3771	5	4357	1	4064	1	3147	1
4	HKIPC 7 x WPII	4000	2	2514	3	3257	3	4210	2	3745	3	3977	3	3064	3
5	HKIPC 5 x HKIPC 7	3468	6	2725	2	3097	6	4217	1	3074	5	3646	4	2901	6
6	HKIPC 8 x HKIPC 4B	3278	7	1853	8	2565	7	3695	6	2336	8	3015	8	2553	8
7	WPII x HKIPC 5	3816	5	2492	4	3154	5	4103	3	3869	2	3986	2	3080	2
CHECKS															
8	VL POP CORN 1	2820	8	1877	7	2348	8	3845	4	2877	6	3361	5	2599	7
	Location Mean	3714		2364		3039		3798		3322		3560		2903	
	Mean Stand	33		30		32		33		39		36		30	
	C.D. (5%)	805		472		639		502		931		717		576	
	C.V. (%)	12.3		11.31		-		7.49		15.89		-		-	
	F (Prob)	0.014		0.011		-		0.997		0.021		-		-	
	Plot Size	6		6		-		4.8		6		-		-	
AGRONOMY DATA															
	Sowing Date	17-07		8-07		-		10-07		14-07		-		-	
	Harvest Date	5-11		16-11		-		8-10		22-11		-		-	
	Irrigation Nos	6		2		-		2		-		-		-	
	Fertilizer Applied N	150		180		-		90		120		-		-	
	Fertilizer Applied P	75		60		-		60		60		-		-	
	Fertilizer Applied K	37.5		50		-		-		40		-		-	

TABLE No. 31 (Continued)

SI	No. PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE VL POP CORN 1												OV'L		
		ZN 1			ZN 2			ZN 3			ZN 4				ZN 5	
		ALMO	BAJA	MEAN	DELH	KARN	MEAN	JASH	MEAN	HYDE	ARBH	MEAN	UDAI	CHHI	MEAN	OV'L
1	BRCH - 6	51.5	7.3	22.9	11.9	-	3.2	-	41.4	51	41.4	45.2	-	-	-	14.4
2	HKIPC 7 x HKIPC 4	34.5	-	1.8	-	42	18.7	26.6	41.5	28.1	41.5	36.2	-	21.8	-	11.8
3	HKIPC 5 x WPII	55	11.6	26.9	-	-	-	-	54.2	17.9	41.9	39.7	-	51.4	20.9	21.1
4	HKIPC 7 x WPII	55	-	17.1	12.5	18	15.2	-	23	34	23	38.7	9.5	30.2	18.3	17.9
5	HKIPC 5 x HKIPC 7	2.1	4.5	3.7	-	21.1	5.5	11	16.2	45.2	16.2	9.2	-	6.9	8.5	11.6
6	HKIPC 8 x HKIPC 4	-	0.4	-	-	4.7	-	0.2	-	-	-	-	-	-	-	-
7	WPII x HKIPC 5	58.5	0.8	21.2	10.2	-	3.4	-	35.3	32.8	35.3	34.3	6.7	34.5	18.6	18.5
CHECKS																
8	VL POP CORN 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DAYS TO 50% POLLEN SHED

SI	No. PEDIGREE	DAYS TO 50% POLLEN SHED												OV'L		
		Zone			Zone			Zone			Zone					
		ALMO	BAJA	MEAN	DELH	KARN	MEAN	DHOL	JASH	MEAN	ARBH	HYDE	MEAN	UDAI	CHHI	MEAN
1	BRCH - 6	54.7	53.3	54.0	53.3	53.3	53.3	56.7	46.0	51.3	55.7	52.0	53.8	49.3	52.7	51.0
2	HKIPC 7 x HKIPC 4	53.0	53.3	53.2	50.0	55.3	52.7	55.3	44.7	50.0	54.0	50.7	52.3	47.3	52.0	49.7
3	HKIPC 5 x WPII	51.0	56.0	53.5	47.7	53.0	50.3	52.0	44.3	48.2	51.7	51.3	51.5	44.7	49.7	47.2
4	HKIPC 7 x WPII	50.7	52.0	51.3	48.3	54.3	51.3	53.3	44.3	48.8	52.3	54.0	53.2	45.7	49.3	47.5
5	HKIPC 5 x HKIPC 7	52.0	49.7	50.8	50.0	54.3	52.2	55.3	44.0	49.7	52.0	48.3	50.2	47.7	51.0	49.3
6	HKIPC 8 x HKIPC 4	53.7	51.3	52.5	52.0	55.7	53.8	56.3	46.3	51.3	55.0	48.7	51.8	48.0	53.3	50.7
7	WPII x HKIPC 5	50.3	54.3	52.3	48.0	52.7	50.3	51.3	43.7	47.5	52.3	50.0	51.2	46.3	50.0	48.2
CHECKS																
8	VL POP CORN 1	52.3	54.3	53.3	49.0	55.0	52.0	58.0	45.7	51.8	53.3	52.7	53.0	47.7	51.0	49.3
	Loc. Mean	52.2	53.0	52.6	49.8	54.2	52.0	54.8	44.9	49.8	53.3	51.0	52.1	47.1	51.1	49.1
	C.D. (5%)	0.94	1.60	4.64	2.11	2.22	3.27	1.55	1.93	2.82	1.42	1.55	4.16	1.11	1.44	1.38
	C.V. (%)	1.02	1.72	3.73	2.43	2.33	2.66	1.61	2.46	2.40	1.53	1.74	3.38	1.34	1.60	1.19
	F (Prob.)	0.00	0.00	0.73	0.00	0.09	0.24	0.00	0.07	3.06	0.00	0.00	0.54	0.00	0.00	0.00

TABLE No. 31 (Continued)

SI No. PEDIGREE	DAYS TO 50% SILKING										Zone Mean	Zone Mean	CHHI	UDAI	Zone Mean	OV'L Mean
	ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH						
1 BPCH - 6	57.3	55.3	56.3	56.7	55.7	56.2	61.0	48.7	54.8	56.3	54.3	55.3	53.7	54.3	54.0	55.3
2 HKIPC 7 x HKIPC 4	55.3	55.3	55.3	52.3	57.7	55.0	58.7	46.7	52.7	55.0	52.7	53.8	51.0	53.0	52.0	53.8
3 HKIPC 5 x WPII	52.0	58.3	55.2	49.3	55.0	52.2	55.0	46.3	50.7	52.0	53.0	52.5	47.3	50.3	48.8	51.9
4 HKIPC 7 x WPII	51.3	54.0	52.7	50.0	57.0	53.5	56.7	46.7	51.7	52.0	56.0	54.0	48.7	49.3	49.0	52.2
5 HKIPC 5 x HKIPC 7	53.3	51.7	52.5	52.0	56.3	54.2	58.0	46.0	52.0	54.0	50.7	52.3	50.3	53.0	51.7	52.5
6 HKIPC 8 x HKIPC 4	57.0	53.3	55.2	55.3	57.7	56.5	61.3	49.0	55.2	56.3	50.3	53.3	52.3	56.0	54.2	54.9
7 WPII x HKIPC 5	51.0	56.3	53.7	50.0	55.3	52.7	54.3	45.7	50.0	54.0	51.3	52.7	49.7	51.0	50.3	51.9
CHECKS																
8 VL POP CORN 1	54.3	57.3	55.8	51.3	57.7	54.5	61.7	47.7	54.7	54.3	54.0	54.2	51.3	52.7	52.0	54.2
Loc. Mean	54.0	55.2	54.6	52.1	56.5	54.3	58.3	47.1	52.7	54.3	52.8	53.5	50.5	52.5	51.5	53.3
C.D. (5%)	1.24	1.59	6.07	1.88	1.97	4.35	1.81	2.14	3.22	1.05	1.07	5.05	0.97	1.20	1.85	1.48
C.V. (%)	1.31	1.65	4.71	2.06	1.99	3.38	1.77	2.60	2.58	1.10	1.16	3.99	1.10	1.31	1.52	3.10
F (Prob.)	0.00	0.00	0.72	0.00	0.04	0.33	0.00	0.04	0.04	0.00	0.00	0.64	0.00	0.00	0.00	0.00

SI No. PEDIGREE	DAYS TO 50% DRY HUSK										Zone Mean	Zone Mean	CHHI	UDAI	Zone Mean	OV'L Mean
	ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH						
1 BPCH - 6	96.7	107.3	102.0	91.3	86.0	88.7	86.7	89.0	87.8	87.7	86.0	86.8	85.3	85.0	85.2	90.1
2 HKIPC 7 x HKIPC 4	95.7	106.0	100.8	91.3	86.7	89.0	85.0	88.0	86.5	87.0	86.0	86.5	83.3	85.3	84.3	89.4
3 HKIPC 5 x WPII	91.0	109.3	100.2	87.7	87.0	87.3	85.3	84.0	84.7	87.7	84.3	86.0	81.3	84.0	82.7	88.2
4 HKIPC 7 x WPII	90.7	106.7	98.7	86.7	86.0	86.3	84.7	81.7	83.2	87.0	86.7	86.8	82.3	82.0	82.2	87.4
5 HKIPC 5 x HKIPC 7	91.7	105.7	98.7	90.3	86.7	88.5	85.3	85.3	85.3	87.3	84.7	86.0	84.3	85.3	84.8	88.7
6 HKIPC 8 x HKIPC 4	94.7	107.7	101.2	89.7	87.0	88.3	85.7	86.0	85.8	86.7	84.7	85.7	86.0	85.0	85.5	89.3
7 WPII x HKIPC 5	91.7	109.3	100.5	87.0	89.0	88.0	85.0	83.0	84.0	86.0	85.7	85.8	83.0	84.7	83.8	88.4
CHECKS																
8 VL POP CORN 1	91.3	109.3	100.3	88.7	86.7	87.7	86.7	86.0	86.3	86.3	86.7	86.5	85.3	84.0	84.7	89.1
Loc. Mean	92.9	107.7	100.3	89.1	86.9	88.0	85.5	85.4	85.5	87.0	85.6	86.3	83.9	84.4	84.1	88.8
C.D. (5%)	1.20	1.69	5.41	2.75	2.28	4.03	2.14	1.63	3.44	1.92	2.09	2.12	1.55	1.32	2.49	1.23
C.V. (%)	0.74	0.90	2.28	1.76	1.50	1.94	1.43	1.09	1.70	1.26	1.39	1.04	1.06	0.89	1.25	1.55
F (Prob.)	0.00	0.00	0.80	0.01	0.22	0.81	0.39	0.00	0.17	0.53	0.17	0.80	0.00	0.00	0.12	0.00

TABLE No. 31 (Continued)

SI	No. PEDIGREE	PLANT HEIGHT CM										Zone Mean	OV'L Mean				
		ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH			HYDE	Zone Mean	UDAI	CHHI
1	BPCH - 6	192	105	148	133	115	124	73	108	91	111	140	126	172	173	172	132
2	HKIPC 7 x HKIPC 4	199	128	164	135	123	129	83	122	102	111	138	125	167	158	162	136
3	HKIPC 5 x WPII	188	122	155	151	120	136	84	113	99	112	157	135	160	158	159	137
4	HKIPC 7 x WPII	191	133	162	123	127	125	87	110	98	111	145	128	160	150	155	134
5	HKIPC 5 x HKIPC 7	183	132	157	143	137	140	97	116	107	111	145	128	160	168	164	139
6	HKIPC 8 x HKIPC 4	185	123	154	127	110	119	89	102	95	110	134	122	158	157	158	130
7	WPII x HKIPC 5	170	144	157	118	110	114	70	103	87	112	128	120	158	148	153	126
CHECKS																	
8	VL POP CORN 1	199	131	165	125	137	131	92	107	99	114	159	136	170	154	162	139
	Loc. Mean	188	127	158	132	122	127	84	110	97	111	143	127	163	158	161	134
	C.D. (5%)	10.7	36.4	29.6	25.0	11.1	22.1	17.6	6.0	16.0	3.8	25.7	16.8	9.6	14.5	12.9	7.2
	C.V. (%)	3.2	16.3	7.9	10.8	5.2	7.3	11.9	3.1	7.0	1.9	10.3	5.6	3.3	5.2	3.4	6.0
	F (Prob.)	0.00	0.54	0.88	0.16	0.00	0.25	0.08	0.00	0.24	0.67	0.22	0.38	0.04	0.04	0.14	0.01

SI	No. PEDIGREE	EAR HEIGHT CM										Zone Mean	OV'L Mean				
		ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH			HYDE	Zone Mean	UDAI	CHHI
1	BPCH - 6	199	128	164	135	123	129	83	122	102	111	138	125	167	158	162	136
2	HKIPC 7 x HKIPC 4	188	122	155	151	120	136	84	113	99	112	157	135	160	158	159	137
3	HKIPC 5 x WPII	191	133	162	123	127	125	87	110	98	111	145	128	160	150	155	134
4	HKIPC 7 x WPII	183	132	157	143	137	140	97	116	107	111	145	128	160	168	164	139
5	HKIPC 5 x HKIPC 7	185	123	154	127	110	119	89	102	95	110	134	122	158	157	158	130
6	HKIPC 8 x HKIPC 4	170	144	157	118	110	114	70	103	87	112	128	120	158	148	153	126
7	WPII x HKIPC 5	199	131	165	125	137	131	92	107	99	114	159	136	170	154	162	139
CHECKS																	
8	VL POP CORN 1	192	105	148	133	115	124	73	108	91	111	140	126	172	173	172	132
	Loc. Mean	188	127	158	132	122	127	84	110	97	111	143	127	163	158	161	134
	C.D. (5%)	10.7	36.4	29.6	25.0	11.1	22.1	17.6	6.0	16.0	3.8	25.7	16.8	9.6	14.5	12.9	7.2
	C.V. (%)	3.2	16.3	7.9	10.8	5.2	7.3	11.9	3.1	7.0	1.9	10.3	5.6	3.3	5.2	3.4	6.0
	F (Prob.)	0.00	0.54	0.88	0.16	0.00	0.25	0.08	0.00	0.24	0.67	0.22	0.38	0.04	0.04	0.14	0.01

TABLE No. 31 (Continued)

SI No. PEDIGREE	SHELLING %										Zone Mean	OV'L Mean	
	ALMO	BAJA	Zone Mean	DELH	KARN	Zone Mean	JASH	HYDE	Zone Mean	UDAI			CHHI
1 BPCB - 6	84.3	84.0	84.1	80.8	72.0	76.4	78.5	73.5	73.5	80.2	85.0	82.6	79.8
2 HKIPC 7 x HKIPC 4	86.1	78.9	82.5	83.3	84.0	83.6	80.7	77.1	77.1	82.8	89.1	85.9	82.7
3 HKIPC 5 x WPII	85.6	86.1	85.8	84.7	74.0	79.4	78.7	80.8	80.8	83.8	89.7	86.7	82.9
4 HKIPC 7 x WPII	88.6	86.6	87.6	87.0	74.0	80.5	78.7	80.2	80.2	84.2	87.1	85.6	83.3
5 HKIPC 5 x HKIPC 7	85.0	80.0	82.5	82.4	80.0	81.2	79.4	77.7	77.7	82.4	89.1	85.8	82.0
6 HKIPC 8 x HKIPC 4	84.9	81.4	83.1	81.2	85.0	83.1	79.7	76.5	76.5	80.5	88.8	84.6	82.2
7 WPII x HKIPC 5	86.3	81.6	83.9	84.5	72.0	78.2	79.2	79.2	79.2	84.5	89.7	87.1	82.1
CHECKS													
8 VL POP CORN 1	84.1	80.6	82.4	79.3	75.0	77.2	79.0	79.0	79.0	82.5	85.1	83.8	80.6
Loc. Mean	85.6	82.4	84.0	82.9	77.0	79.9	79.2	78.0	78.0	82.6	87.9	85.3	82.0
C.D. (5%)	0.75	-	4.27	1.55	-	10.51	0.00	2.27	2.27	3.64	0.79	3.24	2.55
C.V. (%)	0.50	-	2.15	1.07	-	5.56	0.00	1.66	1.66	2.52	0.51	1.61	3.09
F (Prob.)	0.00	0.00	0.18	0.00	-	0.67	0.00	0.00	0.00	0.18	0.00	0.13	0.11

SI No. PEDIGREE	STAND ('000/ha)										ZN 5 Mean	OV'L Mean				
	ALMO	BAJA	ZN 1 Mean	DELH	KARN	ZN 2 Mean	DHOL	JASH	ZN 3 Mean	ARBH			HYDE	ZN 4 Mean	UDAI	CHHI
1 BPCB - 6	54	79	66	58	59	58	38	55	46	56	46	51	71	64	68	58
2 HKIPC 7 x HKIPC 4	53	91	72	42	55	49	37	53	45	54	49	52	75	66	71	58
3 HKIPC 5 x WPII	55	82	69	43	59	51	28	52	40	51	52	51	72	63	67	56
4 HKIPC 7 x WPII	56	95	75	49	61	55	39	53	46	58	52	55	66	70	68	60
5 HKIPC 5 x HKIPC 7	58	93	75	52	57	54	25	55	40	54	56	55	65	67	66	58
6 HKIPC 8 x HKIPC 4	62	83	73	49	61	55	32	49	40	53	51	52	71	64	68	57
7 WPII x HKIPC 5	60	82	71	52	56	54	35	56	46	58	49	54	68	62	65	58
CHECKS																
8 VL POP CORN 1	62	83	73	42	62	52	26	54	40	56	48	52	70	66	68	57
Loc. Mean	57	86	72	48	59	54	32	53	43	55	50	53	70	65	68	58
C.D. (5%)	6.9	10.0	12.7	18.8	7.7	10.5	16.2	6.0	9.9	8.2	10.4	7.0	9.3	9.1	8.0	3.5
C.V. (%)	6.9	6.6	7.5	22.1	7.5	8.3	28.6	6.4	9.8	8.5	11.8	5.6	7.6	7.9	5.0	6.8
F (Prob.)	0.1	0.0	0.7	0.6	0.4	0.6	0.4	0.3	0.5	0.6	0.6	0.7	0.4	0.7	0.9	0.5

TABLE No. 32
 PERFORMANCE OF IISCH EXPERIMENTAL HYBRID & COMPOSITE AT BAJAURA, DMK DELHI, KARNAL, DHOLI, JASHIPUR,
 ARBHAVI, UDAPUR IN IISCH, TRIAL No. TR-IISCH DURING KHARIF (2009).

Sl	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
	ZN 1		DELH		KARN		R		DHOL		JASH		ZN 3		ZN 4	
	BAJA	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
No PEDIGREE																
1 HKI 1105 x LM 14	12483	4	5042	5	8960	1	7001	1	4625	1	4944	5	4785	2	5080	8
2 HKI 323 x LM 9	10240	11	5935	3	6471	6	6203	4	2867	14	4237	9	3552	14	4396	12
3 CM-132 x HKI 1040-11	11865	6	3583	9	8951	2	6267	3	3659	6	5073	3	4366	3	4832	10
4 HKI 1105 x LM 9	9678	14	2771	13	5286	10	4028	13	2894	13	5062	4	3978	6	3884	15
5 CM 134 x HKI 1128	11124	8	2898	11	7980	4	5439	6	4618	2	5692	1	5155	1	6330	1
6 DK 5644-1 x HKI 323-1	12007	5	6785	1	3886	14	5336	7	4068	5	3585	15	3826	11	5411	4
7 HKI 323 x NAI 105	10628	10	3921	7	6112	7	5017	8	3468	8	4047	10	3757	13	5339	5
8 HKI 161 x DMQPM-58	9030	15	4480	6	4589	12	4534	11	2822	15	3678	13	3250	15	5228	6
9 CIQ-47 x HKI 164-7-6	12813	2	3442	10	8714	3	6078	5	3436	9	4370	8	3903	10	4170	14
10 HKI 161 x C-Q-30	11054	9	3783	8	5542	9	4663	10	4174	4	3947	11	4060	5	5137	7
11 DMQPM-58 x HKI 161	10024	13	2744	14	3211	15	2978	15	4198	3	3666	14	3932	8	5037	9
CHECKS																
12 BIO - 9681	12678	3	1608	15	4958	11	3283	14	3400	11	4415	7	3908	9	4250	13
13 SEEDTEC - 2324	12962	1	2839	12	5556	8	4198	12	3411	10	4486	6	3948	7	5475	3
14 HQPM - 1	10212	12	6134	2	7456	5	6795	2	3199	12	5327	2	4263	4	4689	11
15 HQPM - 7	11669	7	5284	4	4061	13	4672	3	3616	7	3926	12	3771	12	5651	2
Location Mean	11231		4083		6116		5099		3630		4430		4030		4994	
Mean Stand	19		43		31		37		25		26		25		30	
C.D. (5%)	1361		504		856		680		1508		211		860		981	
C.V. (%)	5.61		7.37		8.35		-		24.8		2.84		-		11.73	
F (Prob)	0		0		0		-		0.132		0		-		0	
Plot Size	2.4		8.4		4.5		-		6		4.8		-		6	
AGRONOMY DATA																
Sowing Date	8-07		7-06		10-07		-		16-07		26-07		-		6-08	
Harvest Date	13-11		14-10		20-09		-		-		11-11		-		18-12	
Irrigation Nos	3		4		4		-		-		-		-		5	
Fertilizer Applied N	120		150		150		-		120		120		-		150	
Fertilizer Applied P	60		75		60		-		60		60		-		75	
Fertilizer Applied K	40		75		60		-		40		60		-		37.5	

Table No. 32 (Continued)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681																		
		ZN 5		OV'L		BAJA		DELH		KARN		ZN 2		JASH		ZN 3		ZN 4		ZN 5
		UDAI	R	MEAN	R	BAJA	DELH	DELH	DELH	KARN	MEAN	DHOL	JASH	MEAN	ARBH	UDAI	OV'L	MEAN	ARBH	UDAI
1	HKI 1105 x LM 14	5072	6	6601	1	-	213.5	80.7	113.2	36	12	22.4	19.5	-	-	-	24.2	-	-	-
2	HKI 323 x LM 9	4240	14	5484	9	-	269	30.5	88.9	-	-	-	3.4	-	-	-	3.2	-	-	-
3	CM-132 x HKI 1J40-11	4691	11	6093	3	-	122.8	80.5	90.9	7.6	14.9	11.7	13.7	-	-	-	14.6	-	-	-
4	HKI 1105 x LM 3	5111	5	4955	14	-	72.3	6.6	22.7	-	14.7	1.8	-	-	-	-	-	-	-	-
5	CM 134 x HKI 1128	6193	1	6405	2	-	80.2	61	65.7	35.8	28.9	31.9	48.9	-	-	-	20.5	-	-	-
6	DK 5644-1 x HKI 323-1	4815	9	5794	6	-	321.9	-	62.5	19.6	-	-	27.3	-	-	-	9	-	-	-
7	HKI 323 x NAI 105	4160	15	5382	11	-	143.8	23.3	52.8	2	-	-	25.6	-	-	-	1.3	-	-	-
8	HKI 161 x DMRQPM-58	5891	3	5102	13	-	178.6	-	38.1	-	-	-	23	-	-	-	-	-	-	-
9	CLQ-47 x HKI 154-7-6	4402	13	5907	5	1.1	114	75.8	85.1	1.1	-	-	-	-	-	-	11.1	-	-	-
10	HKI 161 x CLQ-30	4615	12	5465	10	-	135.2	11.8	42	22.7	-	-	3.9	20.9	-	-	2.8	-	-	-
11	DMRQPM-58 x HKI 161	5768	4	4950	15	-	70.6	-	-	23.5	-	-	0.6	18.5	-	-	-	-	-	-
CHECKS																				
12	BIO - 9681	5899	2	5316	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	SEEDTEC - 2324	4723	10	5636	7	2.2	76.6	12.1	27.9	0.3	1.6	1	28.8	-	-	-	6	-	-	-
14	HQPM - 1	4974	7	5999	4	-	281.4	50.4	107	-	20.6	9.1	10.3	-	-	-	12.8	-	-	-
15	HQPM - 7	4974	8	5597	8	-	228.6	-	42.3	6.3	-	-	33	-	-	-	5.3	-	-	-
Location Mean																				
	Mean Stand	32		29																
	C.D. (5%)	786		887																
	C.V. (%)	9.32		-																
	F (Prob)	0.01		-																
	Plot Size	4.8		-																
AGRONOMY DATA																				
	Sowing Date	10-07		-																
	Harvest Date	8-10		-																
	Irrigation Nos	2		-																
	Fertilizer Applied N	90		-																
	Fertilizer Applied P	60		-																
	Fertilizer Applied K	-		-																

Table No. 32 (Continued)

S1 No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC - 2324										ZN 5 UDAI	OV'L MEAN
	ZN 1 BAJA	DELH	KARN	ZN 2 MEAN	DHOL	JASH	ZN 3 MEAN	ZN 4 ARBH	ZN 5 UDAI	OV'L MEAN		
1 HKI 1105 x LM 14	-	77.6	61.2	66.8	35.6	10.2	21.2	-	7.4	17.1		
2 HKI 323 x LM 9	-	109	16.5	47.8	-	-	-	-	-	-		
3 CM-132 x HKI 1040-11	-	26.2	61.1	49.3	7.3	13.1	10.6	-	-	8.1		
4 HKI 1105 x LM 9	-	-	-	-	-	12.9	0.8	-	-	-		
5 CM 134 x HKI 1128	-	2.1	43.6	29.6	35.4	26.9	30.6	15.6	8.2	13.6		
6 DK 5644-1 x HKI 323-1	-	139	-	27.1	19.3	-	-	-	31.1	2.8		
7 HKI 323 x NAI 105	-	38.1	10	19.5	1.7	-	-	-	1.9	-		
8 HKI 161 x DMRQPM-58	-	57.8	-	8	-	-	-	-	24.7	-		
9 CLQ-47 x HKI 164-7-6	-	21.2	56.8	44.8	0.7	-	-	-	-	4.8		
10 HKI 161 x CLQ-30	-	33.2	-	11.1	22.4	-	2.8	-	-	-		
11 DMRQPM-58 x HKI 161 CHECKS	-	-	-	-	23.1	-	-	-	22.1	-		
12 BIO - 9681	-	-	-	-	-	-	-	-	24.9	-		
13 SEEDTEC - 2324	-	-	-	-	-	-	-	-	-	-		
14 HQPM - 1	-	116	34.2	61.9	-	18.7	8	-	5.3	6.4		
15 HQPM - 7	-	86.1	-	11.3	6	-	-	3.2	5.3	-		

S1 No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HQPM - 1										ZN 5 UDAI	OV'L MEAN
	ZN 1 BAJA	DELH	KARN	ZN 2 MEAN	DHOL	JASH	ZN 3 MEAN	ZN 4 ARBH	ZN 5 UDAI	OV'L MEAN		
1 HKI 1105 x LM 14	22.2	-	20.2	3	44.6	-	12.2	8.3	2	10		
2 HKI 323 x LM 9	0.3	-	-	-	-	-	-	-	-	-		
3 CM-132 x HKI 1040-11	16.2	-	20.1	-	14.4	-	2.4	3	-	1.6		
4 HKI 1105 x LM 9	-	-	-	-	-	-	-	-	2.7	-		
5 CM 134 x HKI 1128	8.9	-	7	-	44.4	6.9	20.9	35	24.5	6.8		
6 DK 5644-1 x HKI 323-1	17.6	10.6	-	-	27.2	-	-	15.4	-	-		
7 HKI 323 x NAI 105	4.1	-	-	-	8.4	-	-	13.9	-	-		
8 HKI 161 x DMRQPM-58	-	-	-	-	-	-	-	11.5	18.4	-		
9 CLQ-47 x HKI 164-7-6	25.5	-	16.9	-	7.4	-	-	9.6	-	-		
10 HKI 161 x CLQ-30	8.2	-	-	-	30.5	-	-	7.4	16	-		
11 DMRQPM-58 x HKI 161 CHECKS	-	-	-	-	31.2	-	-	-	-	-		
12 BIO - 9681	24.1	-	-	-	6.3	-	-	-	18.6	-		
13 SEEDTEC - 2324	26.9	-	-	-	6.6	-	-	16.8	-	-		
14 HQPM - 1	-	-	-	-	-	-	-	-	-	-		
15 HQPM - 7	14.3	-	-	-	13.1	-	-	20.5	-	-		

Table No. 32 (Continued)

S. No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HQPM - 7											OV'L MEAN
		ZN 1		ZN 2		ZN 3		ZN 4		ZN 5		OV'L MEAN	
		BAJA	DELH	KARN	MEAN	DHOL	JASH	MEAN	ARBH	UDAI			
1	HKI 1105 x LM 14	7	-	120.6	49.8	27.9	26	26.9	-	2	17.9		
2	HKI 323 x LM 9	-	12.3	59.3	32.8	-	7.9	-	-	-	-		
3	CM-132 x HKI 1040-11	1.7	-	120.4	34.1	1.2	29.2	15.8	-	-	8.9		
4	HKI 1105 x LM 9	-	-	30.2	-	-	29	5.5	-	2.8	-		
5	CM 134 x HKI 1128	-	-	96.5	16.4	27.7	45	36.7	12	24.5	14.4		
6	DK 5644-1 x HKI 323-1	2.9	28.4	-	14.2	12.5	-	1.5	-	-	3.5		
7	HKI 323 x NAI 105	-	-	50.5	7.4	-	3.1	-	-	-	-		
8	HKI 161 x DMRQPM-58	-	-	13	-	-	-	-	-	18.4	-		
9	CLQ-47 x HKI 164-7-6	9.8	-	114.6	30.1	-	11.3	3.5	-	-	5.5		
10	HKI 161 x CLQ-30	-	-	36.5	-	15.4	0.5	7.7	-	-	-		
11	DMRQPM-58 x HKI 161 CHECKS	-	-	-	-	16.1	-	4.3	-	16	-		
12	BIO - 9681	8.6	-	22.1	-	-	12.5	3.6	-	18.6	-		
13	SEEDTEC - 2324	11.1	-	36.8	-	-	14.3	4.7	-	-	0.7		
14	HQPM - 1	-	16.1	83.6	45.4	-	35.7	13	-	0	7.2		
15	HQPM - 7	-	-	-	-	-	-	-	-	-	-		

Table No. 32 (Continued)

SI No. PEDIGREE	DAYS TO 50% POLLEN SHED										Zone		Zone	
	BAJA	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH	UDAI	Zone Mean	OV'L Mean			
1 HKI 1105 x LM 14	55.0	53.7	50.7	52.2	53.7	52.3	53.0	50.0	52.0	52.0	52.5			
2 HKI 323 x LM 9	54.0	54.0	53.7	53.8	53.0	54.7	53.8	49.7	50.3	50.3	52.8			
3 CM-132 x HKI 1040-11	52.5	55.3	55.0	55.2	53.3	51.0	52.2	49.3	50.7	50.7	52.5			
4 HKI 1105 x LM 9	55.5	54.3	55.3	54.8	54.0	51.7	52.8	48.3	53.0	53.0	53.2			
5 CM 134 x HKI 1128	56.0	53.7	52.7	53.2	54.3	52.0	53.2	50.0	54.0	54.0	53.2			
6 DK 5644-1 x HKI 323-	53.5	52.0	52.3	52.2	52.3	50.3	51.3	49.7	50.3	50.3	51.5			
7 HKI 323 x NAI 105	51.5	52.7	52.7	52.7	53.7	51.3	52.5	50.0	47.7	47.7	51.4			
8 HKI 161 x DMRQPM-58	55.0	52.0	50.7	51.3	52.7	49.3	51.0	49.7	49.3	49.3	51.2			
9 CIQ-47 x HKI 164-7-6	57.0	55.7	54.7	55.2	55.7	53.7	54.7	49.3	54.3	54.3	54.3			
10 HKI 161 x CIQ-30	53.5	52.7	53.0	52.8	52.3	50.7	51.5	49.0	51.3	51.3	51.8			
11 DMRQPM-58 x HKI 161	56.0	53.0	55.3	54.2	54.3	52.0	53.2	49.7	52.0	52.0	53.2			
CHECKS														
12 BIO - 9681	52.0	55.0	54.3	54.7	53.0	50.3	51.7	49.0	49.3	49.3	51.9			
13 SEEDTEC - 2324	58.0	56.7	55.0	55.8	55.7	53.7	54.7	50.0	54.7	54.7	54.8			
14 HQPM - 1	55.5	55.3	51.3	53.3	53.0	53.7	53.3	50.0	53.7	53.7	53.2			
15 HQPM - 7	54.0	52.0	53.0	52.5	53.3	52.7	53.0	49.7	52.3	52.3	52.4			
Loc. Mean	54.6	53.9	53.3	53.6	53.6	52.0	52.8	49.6	51.7	51.7	52.7			
C.D. (5%)	3.43	3.18	1.56	2.41	2.14	2.21	1.99	1.80	1.91	1.91	1.26			
C.V. (%)	2.93	3.53	1.75	2.09	2.39	2.55	1.75	2.17	2.21	2.21	2.25			
F (Prob.)	0.04	0.08	0.00	0.03	0.06	0.00	0.03	0.84	0.00	0.00	0.00			

Table No. 32 (Continued)

SI No. PEDIGREE	DAYS TO 50% SILKING										Zone		OV'L	
	BAJA	DELH	KARN	Zone Mean	DHOL	JASH	Zone Mean	ARBH	UDAI	Zone Mean	OV'L Mean			
1 HKI 1105 x LM 14	57.5	56.3	54.0	55.2	55.7	54.3	55.0	51.7	54.0	54.0	54.8			
2 HKI 323 x LM 9	56.0	57.0	56.0	56.5	55.0	55.3	55.2	50.3	52.7	52.7	54.6			
3 CM-132 x HKI 1040-11	54.0	54.7	57.7	56.2	55.0	53.3	54.2	50.3	52.7	52.7	54.0			
4 HKI 1105 x LM 9	57.5	54.3	57.7	56.0	56.3	54.0	55.2	49.3	55.0	55.0	54.9			
5 CM 134 x HKI 1128	58.5	57.0	55.0	56.0	56.3	54.3	55.3	50.3	56.0	56.0	55.4			
6 DK 5644-1 x HKI 323-	55.5	54.0	54.7	54.3	54.0	52.7	53.3	50.7	53.3	53.3	53.5			
7 HKI 323 x NAI 105	53.5	54.7	55.0	54.8	55.0	54.0	54.5	49.7	50.0	50.0	53.1			
8 HKI 161 x DMRQPM-58	57.5	53.7	54.0	53.8	55.3	51.3	53.3	50.7	52.0	52.0	53.5			
9 CLO-47 x HKI 164-7-6	59.5	60.7	57.0	58.8	57.7	56.3	57.0	50.3	57.3	57.3	57.0			
10 HKI 161 x CLO-30	55.5	54.3	55.3	54.8	54.3	53.7	54.0	49.7	53.7	53.7	53.8			
11 DMRQPM-58 x HKI 161	58.0	55.7	57.3	56.5	56.7	55.3	56.0	50.7	55.3	55.3	55.6			
CHECKS														
12 BIO - 9681	54.0	57.0	56.7	56.8	55.0	53.0	54.0	50.0	51.7	51.7	53.9			
13 SEEDTEC - 2324	60.0	59.7	57.0	58.3	58.0	56.7	57.3	51.0	56.7	56.7	57.0			
14 HOPM - 1	58.0	58.3	54.0	56.2	56.0	54.7	55.3	51.0	56.3	56.3	55.5			
15 HOPM - 7	56.5	53.3	55.7	54.5	55.7	55.3	55.5	50.7	54.7	54.7	54.5			
Loc. Mean	56.8	56.0	55.8	55.9	55.7	54.3	55.0	50.4	54.1	54.1	54.7			
C.D. (5%)	3.43	2.93	2.19	3.60	2.58	1.84	1.48	1.81	1.84	1.84	1.29			
C.V. (%)	2.82	3.13	2.35	3.00	2.77	2.02	1.25	2.14	2.04	2.04	2.22			
F (Prob.)	0.02	0.00	0.00	0.27	0.14	0.00	0.00	0.55	0.00	0.00	0.00			

Table No. 32 (Continued)

SI No. PEDIGREE	DAYS TO 50% DRY HUSK										OV'L Mean
	BAJA	DELH	Zone Mean	DHOL	JASH	Zone Mean	ARBH	UDAI	Zone Mean		
1 HKI 1105 x LM 14	117.0	88.3	88.3	88.7	94.0	91.3	95.0	85.7	85.7	94.8	
2 HKI 323 x LM 9	111.0	86.0	86.0	87.3	95.0	91.2	95.0	83.7	83.7	93.0	
3 CM-132 x HKI 1040-11	105.0	84.7	84.7	87.7	93.0	90.3	90.3	84.3	84.3	90.8	
4 HKI 1105 x LM 9	109.5	80.0	80.0	89.0	94.3	91.7	95.0	87.0	87.0	92.5	
5 CM 134 x HKI 1128	107.5	90.7	90.7	90.0	95.3	92.7	95.0	87.7	87.7	94.4	
6 DK 5644-1 x HKI 323-	111.0	86.7	86.7	88.3	93.3	90.8	95.0	85.3	85.3	93.3	
7 HKI 323 x NAI 105	107.5	85.3	85.3	86.3	94.3	90.3	95.0	83.0	83.0	91.9	
8 HKI 161 x DMRQPM-58	119.5	89.3	89.3	88.7	93.0	90.8	94.0	83.0	83.0	94.6	
9 CLQ-47 x HKI 164-7-6	114.0	90.3	90.3	92.3	97.0	94.7	95.0	88.3	88.3	96.2	
10 HKI 161 x CLQ-30	107.5	84.7	84.7	90.7	93.0	91.8	93.3	84.0	84.0	92.2	
11 DMRQPM-58 x HKI 161	114.5	90.0	90.0	90.3	95.3	92.8	95.0	87.3	87.3	95.4	
CHECKS											
12 BIO - 9681	113.0	87.0	87.0	89.0	95.0	92.0	95.0	82.3	82.3	93.6	
13 SEEDTEC - 2324	114.0	90.7	90.7	90.7	96.7	93.7	95.0	88.0	88.0	95.8	
14 HQPM - 1	121.5	90.7	90.7	93.7	97.0	95.3	95.0	87.7	87.7	97.6	
15 HQPM - 7	152.0	90.3	90.3	93.7	96.3	95.0	95.0	85.0	85.0	102.1	
Loc. Mean	115.0	87.6	87.6	89.8	94.8	92.3	94.5	85.5	85.5	94.5	
C.D. (5%)	32.24	4.90	4.90	2.05	1.64	2.37	2.19	1.87	1.87	5.24	
C.V. (%)	13.08	3.34	3.34	1.36	1.04	1.20	1.38	1.31	1.31	4.81	
F (Prob.)	0.42	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	

Table No. 31 (Continued)

SI No.	PEDIGREE	MOISTURE										Zone Mean	OV'L Mean
		BAJA	DELH	Zone Mean	DHOL	JASH	Zone Mean	ARBH	UDAI	Zone Mean			
1	HKI 1105 x LM 14	31.3	38.3	38.3	21.9	17.6	19.8	21.9	17.6	19.8	21.9	22.0	25.5
2	HKI 323 x LM 9	31.3	37.6	37.6	25.3	16.9	21.1	25.3	16.9	21.1	18.8	22.9	25.5
3	CM-132 x HKI 1040-11	29.6	36.3	36.3	18.9	17.7	18.3	18.9	17.7	18.3	17.8	22.0	23.7
4	HKI 1105 x LM 9	29.6	32.7	32.7	19.9	16.8	18.4	19.9	16.8	18.4	20.5	22.8	23.7
5	CM 134 x HKI 1128	32.0	36.6	36.6	19.9	18.1	19.0	19.9	18.1	19.0	22.0	23.2	25.3
6	DK 5644-1 x HKI 323-	30.2	36.8	36.8	18.9	17.3	18.1	18.9	17.3	18.1	19.8	22.6	24.3
7	HKI 323 x NAI 105	31.2	35.7	35.7	19.9	17.3	18.6	19.9	17.3	18.6	17.2	23.0	24.0
8	HKI 161 x DMRQPM-58	38.2	36.9	36.9	19.5	16.9	18.2	19.5	16.9	18.2	18.9	23.1	25.6
9	CIQ-47 x HKI 164-7-6	30.2	37.5	37.5	19.3	16.8	18.1	19.3	16.8	18.1	24.4	23.2	25.2
10	HKI 161 x CIQ-30	31.2	36.7	36.7	17.9	16.4	17.2	17.9	16.4	17.2	22.2	23.1	24.6
11	DMRQPM-58 x HKI 161	30.8	35.9	35.9	21.9	17.2	19.6	21.9	17.2	19.6	23.8	23.5	25.5
CHECKS													
12	BIO - 9681	31.3	38.6	38.6	17.3	16.6	17.0	17.3	16.6	17.0	17.6	22.0	23.9
13	SEEDTEC - 2324	30.9	40.6	40.6	23.4	16.8	20.1	23.4	16.8	20.1	26.0	23.0	26.8
14	HOPM - 1	32.0	38.0	38.0	23.8	16.8	20.3	23.8	16.8	20.3	20.9	23.2	25.8
15	HOPM - 7	30.2	36.9	36.9	20.1	17.7	18.9	20.1	17.7	18.9	24.3	23.4	25.4
	Loc. Mean	31.3	37.0	37.0	20.5	17.1	18.8	20.5	17.1	18.8	21.1	22.9	25.0
	C.D. (5%)	0.00	3.64	3.64	0.00	0.00	3.52	0.00	0.00	3.52	2.52	1.20	2.02
	C.V. (%)	0.00	5.88	5.88	0.00	0.00	8.72	0.00	0.00	8.72	7.14	3.14	7.04
	F (Prob.)	0.00	0.07	0.07	0.00	0.00	0.50	0.00	0.00	0.50	0.00	0.20	0.11

TABLE No. 32 (Continued)

SI No. PEDIGREE	PLANT HEIGHT CM										ZN 5 Mean	OV'L Mean
	BAJA	DELH	KARN	ZN 2 Mean	DHOL	JASH	ZN 3 Mean	ARBH	UDAI			
1 HKI 1105 x LM 14	198	173	179	176	148	139	144	193	205	205	176	
2 HKI 323 x LM 9	207	172	168	170	140	140	140	188	215	215	176	
3 CM-132 x HKI 1040-11	195	154	153	154	145	132	139	185	197	197	166	
4 HKI 1105 x LM 9	208	172	156	164	125	139	132	174	190	190	166	
5 CM 134 x HKI 1128	210	185	195	190	165	165	165	184	212	212	188	
6 DK 5644-1 x HKI 323-	188	168	152	160	149	135	142	171	195	195	165	
7 HKI 323 x NAI 105	193	156	175	166	156	132	144	184	188	188	169	
8 HKI 161 x DMRQPM-58	208	174	175	175	133	147	140	187	223	223	178	
9 CLQ-47 x HKI 164-7-6	235	181	185	193	149	148	149	197	227	227	189	
10 HKI 161 x CLQ-30	210	157	168	153	155	131	143	194	213	213	175	
11 DMRQPM-58 x HKI 161	209	162	165	154	160	127	143	182	213	213	174	
CHECKS												
12 BIO - 9681	198	157	138	148	132	142	137	164	193	193	160	
13 SEEDTEC - 2324	198	167	169	158	134	131	133	173	193	193	166	
14 HQPM - 1	199	154	170	162	133	139	136	172	192	192	165	
15 HQPM - 7	210	157	178	168	154	144	149	192	222	222	180	
Loc. Mean	204	166	168	167	145	139	142	183	205	205	173	
C.D. (5%)	24.6	18.9	21.6	18.9	23.4	7.5	21.8	12.7	13.8	13.8	9.1	
C.V. (%)	5.6	6.8	7.7	5.3	9.7	3.2	7.1	4.2	4.0	4.0	5.0	
F (Prob.)	0.12	0.02	0.00	0.03	0.03	0.00	0.32	0.00	0.00	0.00	0.00	

TABLE No. 32 (Continued)

SI No. PEDIGREE	EAR HEIGHT CM										OV'L Mean	
	BAJA	DELH	KARN	ZN 2 Mean	DHOL	JASH	ZN 3 Mean	ARBH	UDAI	ZN 5 Mean		
1 HKI 1105 x LM 14	110	92	84	88	72	60	66	105	105	105	105	90
2 HKI 323 x LM 9	98	87	76	82	76	51	63	101	120	120	120	87
3 CM-132 x HKI 1040-11	90	82	66	74	72	44	58	92	95	95	95	77
4 HKI 1105 x LM 9	98	94	66	80	66	59	62	86	92	92	92	80
5 CM 134 x HKI 1128	103	95	94	95	81	60	71	105	107	107	107	92
6 DK 5644-1 x HKI 323-	93	90	61	75	70	54	62	91	98	98	98	80
7 HKI 323 x NAI 105	98	90	82	86	81	52	66	100	102	102	102	86
8 HKI 161 x DMRQPM-58	105	85	74	79	64	58	61	108	125	125	125	88
9 CLQ-47 x HKI 164-7-6	115	84	85	85	72	47	59	108	130	130	130	91
10 HKI 161 x CLQ-30	93	82	72	77	73	47	60	107	120	120	120	85
11 DMRQPM-58 x HKI 161	103	86	69	77	86	47	66	99	123	123	123	87
CHECKS												
12 BIO - 9681	88	74	55	64	59	46	52	89	87	87	87	71
13 SEEDTEC - 2324	108	96	84	90	73	52	63	94	92	92	92	85
14 HOPM - 1	100	75	65	70	57	51	54	93	102	102	102	77
15 HQPM - 7	95	76	62	69	75	56	66	105	110	110	110	83
Loc. Mean	100	86	73	79	72	52	62	99	107	107	107	84
C.D. (5%)	17.2	18.7	17.4	12.7	18.4	5.3	14.3	7.5	12.3	12.3	12.3	7.8
C.V. (%)	8.1	13.1	14.3	7.5	15.4	6.1	10.8	4.5	6.8	6.8	6.8	8.7
F (Prob.)	0.14	0.31	0.00	0.01	0.16	0.00	0.45	0.00	0.00	0.00	0.00	0.00

TABLE No. 32 (Continued)

SI No. PEDIGREE	SHELLING %								OV'L Mean
	BAJA	DELH	Zone Mean	JASH	ARBH	Zone Mean	UDAI		
1 HKI 1105 x LM 14	82.4	81.6	81.6	78.2	82.6	82.6	80.3	81.0	
2 HKI 323 x LM 9	80.4	82.9	82.9	77.6	85.0	85.0	76.0	80.4	
3 CM-132 x HKI 1040-11	81.6	82.6	82.6	77.1	82.9	82.9	79.5	80.7	
4 HKI 1105 x LM 9	80.0	84.4	84.4	78.2	83.3	83.3	80.5	81.3	
5 CM 134 x HKI 1128	79.9	79.8	79.8	77.1	79.6	79.6	78.1	78.9	
6 DK 5644-1 x HKI 323-	87.5	84.2	84.2	80.1	82.9	82.9	79.9	82.9	
7 HKI 323 x NAI 105	79.9	83.9	83.9	76.8	80.0	80.0	80.6	80.2	
8 HKI 161 x DMRQPM-58	81.7	85.8	85.8	79.1	83.0	83.0	80.8	82.1	
9 CLQ-47 x HKI 164-7-6	79.9	80.4	80.4	76.1	79.6	79.6	77.1	78.6	
10 HKI 161 x CLQ-30	78.9	86.2	86.2	76.2	78.2	78.2	80.5	80.0	
11 DMRQPM-58 x HKI 161	79.1	85.3	85.3	80.4	84.0	84.0	79.8	81.7	
CHECKS									
12 BIO - 9681	80.9	81.6	81.6	78.0	79.2	79.2	79.5	79.8	
13 SEEDTEC - 2324	81.5	83.9	83.9	77.4	78.9	78.9	79.3	80.2	
14 HQPM - 1	80.4	84.8	84.8	78.3	83.6	83.6	80.0	81.4	
15 HQPM - 7	82.5	84.7	84.7	76.1	81.6	81.6	80.7	81.1	
Loc. Mean	81.1	83.5	83.5	77.8	81.6	81.6	79.5	80.7	
C.D. (5%)	-	2.73	2.73	-	3.01	3.01	3.28	1.99	
C.V. (%)	-	1.96	1.96	-	2.20	2.20	2.46	1.95	
F (Prob.)	-	0.00	0.00	0.00	0.00	0.00	0.16	0.00	

TABLE No. 32 (Continued)

SI No. PEDIGREE	STAND ('000/ha)										OV'L Mean
	BAJA	DELH	KARN	ZN 2 Mean	DHOL	JASH	ZN 3 Mean	ARBH	UDAI	ZN 5 Mean	
1 HKI 1105 x LM 14	79	55	67	61	44	54	49	47	67	67	59
2 HKI 323 x LM 9	77	53	67	60	32	52	42	47	63	63	56
3 CM-132 x HKI 1040-11	79	49	69	59	44	51	47	62	72	72	61
4 HKI 1105 x LM 9	77	44	67	55	35	53	44	44	67	67	55
5 CM 134 x HKI 1128	83	62	70	66	44	56	50	52	71	71	63
6 DK 5644-1 x HKI 323-	79	61	66	64	45	58	51	56	69	69	62
7 HKI 323 x NAI 105	81	50	73	61	42	58	50	53	63	63	60
8 HKI 161 x DMRQPM-58	81	46	68	57	48	56	52	54	65	65	60
9 CLQ-47 x HKI 164-7-6	81	52	69	60	34	52	43	50	69	69	58
10 HKI 161 x CLQ-30	77	48	72	60	34	51	43	47	73	73	58
11 DMRQPM-58 x HKI 161 CHECKS	79	54	67	60	54	57	56	53	67	67	61
12 BIO - 9681	81	34	70	52	43	53	48	36	67	67	55
13 SEEDTEC - 2324	79	56	73	65	41	53	47	62	63	63	61
14 HQPM - 1	73	51	67	59	38	53	46	41	61	61	55
15 HQPM - 7	79	50	72	61	46	55	50	48	72	72	60
Loc. Mean	79	51	69	60	42	54	48	50	67	67	59
C.D. (5%)	6.5	10.9	3.5	11.4	11.3	5.5	7.3	9.8	9.8	9.8	4.7
C.V. (%)	3.8	12.8	3.1	8.9	16.2	6.1	7.1	11.7	8.7	8.7	7.5
F (Prob.)	0.30	0.00	0.00	0.60	0.02	0.15	0.04	0.00	0.29	0.29	0.00

TABLE No.33
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT
 SRINAGAR IN TRIAL No. TR6108 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		GRAIN YIELD & SUPERIORITY OVER THE BIG - 9681		GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC - 2324		GRAIN YIELD & SUPERIORITY OVER THE PARBHAT	
		ZN 1 SRIN	R	ZN 1 SRIN	R	ZN 1 SRIN	R	ZN 1 SRIN	R
1	J H - 11662	2073	49	-	-	-	-	-	-
2	J H - 11652	2081	48	-	-	-	-	-	-
3	J R - 11858	2235	41	-	-	-	-	-	-
4	J H - 11925	2791	10	-	-	-	-	-	-
5	J H - 12046	2780	12	-	-	-	-	-	-
6	G H - 0704	2797	9	-	-	-	-	-	-
7	G H - 0727	2645	20	-	-	-	-	-	-
8	KMH - 40876	2263	37	-	-	-	-	-	-
9	E H K - 40008	2484	26	-	-	-	-	-	-
10	E H K - 40108	2363	30	-	-	-	-	-	-
11	B H - 407135	2260	38	-	-	-	-	-	-
12	B H - 407138	2680	16	-	-	-	-	-	-
13	B H - 407139	2666	17	-	-	-	-	-	-
14	B H - 408001	2817	8	-	-	-	-	-	-
15	B H - 408002	2247	40	-	-	-	-	-	-
16	B H - 408004	2120	47	-	-	-	-	-	-
17	X 7B 401	2154	44	-	-	-	-	-	-
18	X 7B 403	2407	29	-	-	-	-	-	-
19	LAXMI - 9495	2559	23	-	-	-	-	-	-
20	G K - 3057	2848	6	-	-	-	-	-	-
21	G K - 3059	3293	2	7.8	-	-	-	-	0.3
22	G K - 3636	2748	13	-	-	6.6	-	-	15.9
23	PAC - 745	2310	34	-	-	-	-	-	-
24	PAC - 746	2358	31	-	-	-	-	-	-
25	I M H - 111	2528	24	-	-	-	-	-	-
26	M O5 008	2593	22	-	-	-	-	-	-
27	PHS - 520247	2512	25	-	-	-	-	-	-
28	PHS - 620214	2460	28	-	-	-	-	-	-
29	PFMH - 9733	3473	1	13.7	12.4	-	-	-	22.3
30	PFMH - 9737	3169	3	3.7	2.5	-	-	-	11.6
31	SMH - 4500	2226	43	-	-	-	-	-	-

TABLE No.33 (Continued)

Sl	NO PEDIGREE	GRAIN YIELD (kg/ha)		GRAIN YIELD & SUPERIORITY		GRAIN YIELD & SUPERIORITY		GRAIN YIELD & SUPERIORITY	
		AT 15% MOISTURE		OVER THE BIO - 9681		OVER THE SEEDTEC - 2324		OVER THE PARBHAT	
		ZN 1	R	ZN 1	SRIN	ZN 1	SRIN	ZN 1	SRIN
32	SMH - 4502	2061	50	-	-	-	-	-	-
33	KMH - 104	2138	45	-	-	-	-	-	-
34	JKMH - 8001	2468	27	-	-	-	-	-	-
35	JKMH - 8003	2021	51	-	-	-	-	-	-
36	PRO - 374	2341	32	-	-	-	-	-	-
37	PRO - 375	2609	21	-	-	-	-	-	-
38	BISCO - 777	2248	39	-	-	-	-	-	-
39	BISCO - 4564	2322	33	-	-	-	-	-	-
40	KMH - 3669	2661	19	-	-	-	-	-	-
41	KMH SUPER - 244	2722	14	-	-	-	-	-	-
42	B L - 2801	2235	42	-	-	-	-	-	-
43	HTCH - 5102	2138	46	-	-	-	-	-	-
44	HTCH - 5401	2301	35	-	-	-	-	-	-
45	POLO	2285	36	-	-	-	-	-	-
46	115 - 08 - 01	2666	18	-	-	-	-	-	-
47	2000 M	2700	15	-	-	-	-	-	-
48	M C H - 38	2788	11	-	-	-	-	-	-
	CHECKS								
49	BIO - 9681	3055	5	-	-	-	-	-	7.6
50	SEEDTEC - 2324	3090	4	1.1	-	-	-	-	8.8
51	PARBHAT	2840	7	-	-	-	-	-	-
	Location Mean	2522							
	Mean Stand	40							
	C.D. (5%)	313							
	C.V. (%)	7.66							
	F (Prob)	0							
	Plot Size	4.8							
	AGRONOMY DATA								
	Sowing Date	28-04							
	Harvest Date	28-10							
	Irrigation Nos	3							
	Fertilizer Applied N	90							
	Fertilizer Applied P	60							
	Fertilizer Applied K	40							

TABLE No.33 (Continued)

S1 NO PEDIGREE	DAYS TC 50% POLLEN SHED		DAYS TO 50% SILKING		DAYS TO 75% DRY HUSK		MOISTURE & AT HARVEST		PLANT HEIGHT (cm)		EAR HEIGHT (cm)		GRAIN SHELLING &		STAND	
	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
1 J H - 11662	90.7	93.3	149.7	35.0	152	97	76.5	83								
2 J H - 11652	86.3	89.0	151.0	31.5	141	85	77.5	83								
3 J H - 11858	86.3	89.0	145.0	32.5	168	103	76.5	83								
4 J H - 11925	73.3	76.3	142.7	27.5	170	88	78.5	83								
5 J H - 12046	74.7	77.7	146.3	25.0	148	80	79.5	83								
6 G H - 0704	65.7	68.7	144.7	22.5	148	68	79.5	82								
7 G H - 0727	68.0	71.3	139.0	22.0	158	88	79.8	83								
8 KMH - 40876	74.7	77.3	143.7	24.5	148	85	78.0	82								
9 E H K - 40008	75.7	78.0	144.0	24.0	168	83	78.5	83								
10 E H K - 40108	74.0	76.7	144.0	22.0	143	82	78.0	83								
11 B H - 407135	78.3	81.0	143.0	23.5	153	83	77.0	83								
12 B H - 407138	68.7	72.0	138.3	21.0	175	85	78.5	83								
13 B H - 407139	69.7	73.0	142.3	20.5	155	73	79.0	83								
14 B H - 408001	70.0	73.0	139.0	20.0	155	78	79.8	83								
15 B H - 408002	70.0	72.7	139.0	20.0	152	70	78.0	82								
16 B H - 408004	74.0	76.7	145.3	21.0	145	77	78.0	81								
17 X 7B 401	73.7	76.3	123.7	21.0	165	88	77.5	83								
18 X 7B 403	67.0	69.7	135.0	21.5	147	55	78.3	82								
19 LAXMI - 9495	68.0	71.3	134.7	22.0	155	83	78.0	83								
20 G K - 3057	69.3	72.7	134.3	20.5	165	90	79.5	82								
21 G K - 3059	63.7	66.3	133.7	18.5	165	88	79.8	83								
22 G K - 3636	62.3	65.0	141.3	21.5	157	80	78.8	83								
23 PAC - 745	76.7	79.0	144.0	24.5	170	82	78.0	83								
24 PAC - 746	77.0	79.7	139.3	22.0	175	93	78.5	83								
25 I M H - 111	67.0	70.0	141.0	21.5	155	77	78.3	83								
26 M O5 008	67.0	69.7	149.7	23.0	165	88	77.0	83								
27 PHS - 520247	73.0	75.3	149.3	23.0	145	78	76.0	82								
28 PHS - 620214	75.7	78.3	148.0	20.0	175	100	77.5	83								

TABLE No.33 (Continued)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED		DAYS TO 50% SILKING		DAYS TO 75% DRY HUSK		MOISTURE % AT HARVEST		PLANT HEIGHT (cm)		EAR HEIGHT (cm)		GRAIN SHELLING %		STAND ('000/ha)	
		SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN	SRIN
29	PFMH - 9733	62.0	64.7	136.7	16.5	155	90	79.5	83								
30	PFMH - 9737	62.7	65.3	137.0	18.0	150	72	79.5	83								
31	SMH - 4500	70.7	73.3	145.7	25.0	155	85	79.8	83								
32	SMH - 4502	85.3	87.7	150.3	25.0	140	65	78.5	82								
33	KDMH - 104	81.3	84.0	149.3	30.0	143	65	79.0	82								
34	JRMH - 8001	71.3	74.0	137.3	20.5	118	55	79.8	81								
35	JRMH - 8003	85.7	87.7	146.3	26.0	117	57	79.5	108								
36	PRO - 374	85.3	88.0	140.0	25.5	123	67	80.0	83								
37	PRO - 375	75.3	81.7	139.7	21.5	127	68	80.5	83								
38	BISCO - 777	70.3	73.0	138.3	20.0	115	59	80.0	83								
39	BISCO - 4564	66.3	69.3	135.3	20.0	127	63	79.8	83								
40	KMH - 3669	68.7	71.7	135.3	20.0	130	53	79.8	83								
41	KMH SUPER - 244	72.3	75.0	144.3	20.5	137	65	79.8	83								
42	B L - 2801	89.7	91.0	144.7	26.5	128	73	80.8	83								
43	HTCH - 5102	86.7	89.7	144.7	25.5	110	68	77.0	83								
44	HTCH - 5401	90.3	93.0	144.3	27.0	100	50	78.5	83								
45	POLO	90.0	92.7	144.3	28.0	97	45	76.0	83								
46	115 - 08 - 01	80.7	80.0	145.0	22.5	120	68	77.3	83								
47	2000 M	86.7	89.7	144.3	25.0	125	68	78.0	83								
48	M C H - 38	113.3	82.7	144.0	21.5	160	80	78.3	83								
CHECKS																	
49	BIO - 9681	84.7	87.3	138.0	19.0	135	65	79.0	83								
50	SEEDTEC - 2324	71.0	74.0	144.0	19.5	168	78	79.0	83								
51	PARBHAT	73.0	76.0	144.3	18.0	175	103	79.3	82								
LocMean																	
		75.6	77.8	142.0	23.0	147	76	78.6	83								
C.D. (5%)		15.23	7.00	8.61	1.77	8.9	7.6	0.58	10.9								
C.V. (%)		12.41	5.55	3.74	4.76	3.7	6.1	0.46	8.1								
F (Prob)		0.00	0.00	0.00	0.00	0.0	0.0	0.00	0.69								

TABLE NO. 34
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR,
 JORHAT IN TRIAL NO. TR6208 DURING KHARIF (2009).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD & SUPERIORITY OVER THE MALVIYA HYBRID - 2			GRAIN YIELD & SUPERIORITY OVER THE H M - 9		
		SRIN	JORH	R	SRIN	JORH	MEAN	SRIN	JORH	MEAN
1	J H - 12048	2621	38	6554	1	4587	6	-	-	-
2	J H - 31150	2817	35	5539	5	4178	15	51.6	11.3	48.2
3	J H - 31196	3477	19	4793	19	4135	19	28.1	1.4	25.2
4	J H - 31240	2721	36	5138	12	3929	27	10.9	0.3	8.4
5	J H - 31242	3127	30	4475	25	3801	31	18.9	-	16.2
6	L - 235	3400	22	3817	35	3609	34	3.5	-	1.2
7	PRATAP - 3 (FILLER)	3188	28	4129	31	3659	33	-	-	14.3
8	MMH - 07 - 5	3130	29	4943	15	4036	24	-	-	7.2
9	MMH - 07 - 6	3071	32	3547	37	3309	37	14.4	-	5.2
10	PMH- 1 (FILLER)	3397	23	4885	16	4141	18	-	-	3.2
11	WBHM - 4	2662	37	5472	6	4067	23	13	0.5	14.2
12	COMP. R - 2006-2	3818	9	5367	9	4593	5	26.6	-	-
13	E H - 1858	3454	20	4373	27	3913	28	24.2	11.4	10.5
14	E H - 1877	3274	25	4982	13	4128	20	1.2	-	23.7
15	E C - 3157	3396	24	3663	36	3530	36	15.3	0.2	21.4
16	E C - 3158	3055	33	3267	38	3161	38	-	-	16.1
17	E C - 3159	3208	26	3939	34	3573	35	-	-	10.1
18	E C - 3160	3206	27	4947	14	4076	22	-	-	14.2
19	A H - 7023	3492	18	4333	28	3912	29	-	-	2.7
20	V E H - 07 - 2	3411	21	5378	8	4394	8	14.4	-	7.8
21	B H - 40707	3675	15	4247	30	3961	25	0.2	-	17.4
22	B H - 40775	3881	6	5204	11	4542	7	24.4	6.6	14.7
23	B H - 406126	3806	11	4733	20	4269	11	-	-	23.5
24	B H - 407140	3936	3	4648	21	4292	10	20.4	10.2	30.5
								9.5	3.6	27.9
										17.7
										7.1
										22.8
										15.4

TABLE No. 34 (Cont..)

SI NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD & SUPERIORITY OVER THE MALVIYA HYBRID - 2			GRAIN YIELD & SUPERIORITY OVER THE H M - 9					
	SRIN	JORH	R	ZN 1 MEAN	ZN 1	ZN 1	ZN 1	ZN 1	ZN 1			
25 B H - 407144	3869	7	5593	4	4731	2	0.4	7.5	4.1	32.3	5.1	16
26 B H - 408003	3824	8	4056	32	3940	26	-	29.4	14.8	30.1	26.5	27.9
27 B H - 408005	3804	12	4575	23	4190	14	-	-	-	28.5	-	6.5
28 K H - 717	3774	13	4527	24	4150	17	-	5.8	1.7	27.9	3.5	13.3
29 K H - 9452	3508	17	4840	18	4174	16	-	4.7	0.7	26.9	2.4	12.2
30 SMH - 3702	3719	14	4035	33	3877	30	-	12	1.3	17.9	9.4	12.8
31 HYBRID VMH - 4060	3598	16	5685	3	4641	4	-	-	-	25	-	4.8
32 PRO - 376	3912	5	4842	17	4377	9	-	31.5	12.6	20.9	28.5	25.5
33 KMH - 3712	3115	31	5412	7	4264	12	-	12	6.2	31.5	9.5	18.3
34 B L - 2802	4098	1	5835	2	4967	1	-	25.2	3.4	4.7	22.4	15.3
35 HTCH - 5201	3808	10	4576	22	4192	13	4.5	35	20.5	37.8	31.9	34.3
36 M C H - 37	4084	2	5249	10	4667	3	-	5.9	1.7	28	3.5	13.3
CHECKS							4.2	21.4	13.2	37.3	18.7	26.2
37 MALVIYA HYBRID - 2	3920	4	4323	29	4121	21	-	-	-	31.8	-	11.4
38 H M - 9	2975	34	4423	26	3699	32	-	2.3	-	-	-	-
Location Mean	3453		4746		4100							
Mean Stand	39		33		36							
C.D. (5%)	595		1341		968							
C.V. (%)	10.59		17.36		-							
F (Prob)	0		0		-							
Plot Size	4.8		4.8		-							
AGRONOMY DATA												
Sowing Date	24-04		18-03		-							
Harvest Date	12-10		6-07		-							
Irrigation Nos	3		-		-							
Fertilizer Applied N	90		80		-							
Fertilizer Applied P	60		40		-							
Fertilizer Applied K	40		40		-							

TABLE No. 34 (Cont..)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	J H - 12048	85.0	69.7	77.3	88.0	72.7	80.3	141.0	107.3	124.2	24.5	16.8	20.6
2	J H - 31150	69.7	64.3	67.0	72.3	68.0	70.2	140.0	107.7	123.8	23.0	16.5	19.8
3	J H - 31196	79.0	64.7	71.8	81.7	68.7	75.2	139.3	106.3	122.8	19.5	18.1	18.8
4	J H - 31240	83.0	64.3	73.7	85.7	67.7	76.7	139.7	107.0	123.3	22.5	19.5	21.0
5	J H - 31242	73.0	66.7	69.8	75.7	70.0	72.8	140.3	106.0	123.2	21.0	17.9	19.5
6	L - 235	73.0	66.3	69.7	75.3	69.3	72.3	140.0	107.7	123.8	18.0	18.9	18.4
7	PRATAP - 3(FILLER)	72.7	64.0	68.3	75.3	67.3	71.3	139.0	105.7	122.3	17.0	17.7	17.3
8	MMH - 07 - 5	84.7	67.7	76.2	87.0	71.0	79.0	138.7	108.0	123.3	19.5	15.9	17.7
9	MMH - 07 - 6	76.7	65.0	70.8	79.3	68.3	73.8	137.7	107.0	122.3	17.5	19.0	18.3
10	PMH- 1 (FILLER)	89.0	69.3	79.2	91.7	73.0	82.3	141.0	107.3	124.2	21.5	19.1	20.3
11	WBHM - 4	89.0	64.7	76.8	91.7	68.0	79.8	147.7	107.3	127.5	20.0	17.8	18.9
12	COMP. R - 2006-2	78.3	69.3	73.8	80.7	72.7	76.7	144.0	106.0	125.0	15.5	17.8	16.7
13	E H - 1858	77.0	67.0	72.0	79.0	70.3	74.7	144.0	107.7	125.8	17.5	15.7	16.6
14	E H - 1877	86.7	67.7	77.2	89.3	71.0	80.2	144.3	107.3	125.8	21.0	19.8	20.4
15	E C - 3157	91.7	64.3	78.0	94.0	68.3	81.2	140.0	106.3	123.2	20.5	18.5	19.5
16	E C - 3158	90.7	65.3	78.0	92.7	68.3	80.5	140.0	107.3	123.7	21.5	19.0	20.2
17	E C - 3159	81.0	64.3	72.7	83.7	67.3	75.5	140.3	106.0	123.2	19.5	18.7	19.1
18	E C - 3160	80.7	65.3	73.0	83.3	68.7	76.0	141.3	107.0	124.2	22.0	17.4	19.7
19	A H - 7023	66.0	62.7	64.3	72.0	66.3	69.2	137.7	106.7	122.2	16.5	16.5	16.5
20	V E H - 07 - 2	74.3	66.3	70.3	77.0	70.0	73.5	136.0	106.3	121.2	15.0	17.6	16.3
21	B H - 40707	74.3	70.0	72.2	77.3	73.0	75.2	136.0	106.7	121.3	15.0	19.1	17.1

TABLE No. 34 (Cont..)

S1 No PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST		
	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
22 B H - 40775	80.0	70.0	75.0	82.7	73.0	77.8	139.0	107.0	123.0	15.5	16.7	16.1
23 B H - 406126	68.0	66.0	67.0	70.3	69.0	69.7	138.7	106.7	122.7	15.0	17.0	16.0
24 B H - 407140	81.0	72.3	76.7	83.0	76.0	79.5	140.0	107.3	123.7	16.5	16.5	16.5
25 B H - 407144	75.7	67.7	71.7	78.3	71.3	74.8	137.7	108.0	122.8	14.5	18.3	16.4
26 B H - 408003	77.7	69.3	73.5	80.3	72.3	76.3	137.0	106.7	121.8	14.5	15.8	15.1
27 B H - 408005	70.0	66.3	68.2	72.7	69.7	71.2	134.7	108.0	121.3	16.5	17.6	17.0
28 K H - 717	74.7	69.7	72.2	77.0	73.0	75.0	136.7	107.0	121.8	17.5	16.5	17.0
29 K H - 9452	79.0	69.3	74.2	81.0	72.3	76.7	140.3	107.7	124.0	20.5	17.2	18.8
30 SMH - 3702	79.0	70.7	74.8	85.0	73.7	79.3	140.7	107.3	124.0	19.5	15.7	17.6
31 HYBRID VMH - 4060	69.7	67.7	68.7	55.7	71.7	63.7	138.7	107.7	123.2	19.0	17.3	18.1
32 PRO - 376	77.3	64.7	71.0	80.0	67.7	73.8	139.3	108.0	123.7	18.0	17.8	17.9
33 KMH - 3712	91.0	68.3	79.7	93.3	71.7	82.5	139.0	106.3	122.7	24.5	18.5	21.5
34 B L - 2802	69.0	67.7	68.3	71.7	71.0	71.3	136.7	108.7	122.7	16.0	16.7	16.3
35 HTCH - 5201	72.7	69.0	70.8	75.3	72.0	73.7	138.3	107.3	122.8	16.5	17.4	16.9
36 M C H - 37	68.7	68.3	68.5	71.0	71.3	71.2	136.7	107.3	122.0	15.5	18.1	16.8
CHECKS												
37 MALVIYA HYBRID - 2	66.7	64.3	65.5	65.7	67.7	66.7	134.0	107.3	120.7	15.0	18.0	16.5
38 H M - 9	82.0	70.0	76.0	84.7	73.7	79.2	141.7	107.7	124.7	20.5	17.2	18.8
Loc. Mean	77.8	67.1	72.5	80.0	70.4	75.2	139.4	107.1	123.3	18.5	17.6	18.0
C.D. (5%)	5.28	3.26	10.31	8.89	3.46	11.77	3.59	1.50	4.05	1.42	0.42	4.09
C.V. (%)	4.17	2.99	7.02	6.83	3.02	7.72	1.58	0.86	1.62	4.72	1.48	11.20
F (Prob.)	0.00	0.00	0.30	0.00	0.00	0.36	0.00	0.04	0.57	0.00	0.00	0.20

TABLE No. 34 (Cont..)

S1 No PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND ('000/ha)		
	SRIN	JORH	Zone Mea	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1 J H - 12048	120	183	152	77	73	75	78.5	72.6	75.6	80	76	78
2 J H - 31150	120	160	140	63	52	58	79.0	79.8	79.4	81	79	80
3 J H - 31196	128	165	147	65	56	61	81.3	80.6	80.9	82	69	76
4 J H - 31240	120	177	149	67	57	62	80.5	80.5	80.5	81	81	81
5 J H - 31242	82	158	120	55	46	50	79.8	67.0	73.4	81	76	79
6 L - 235	100	179	139	48	73	61	79.0	71.7	75.4	81	76	79
7 PRATAP - 3 (FILLER)	125	163	144	65	62	63	78.3	80.3	79.3	82	74	78
8 MMH - 07 - 5	102	165	134	53	55	54	77.5	78.8	78.1	83	78	80
9 MMH - 07 - 6	105	145	125	57	39	48	79.0	67.5	73.3	83	61	72
10 PMH- 1 (FILLER)	125	197	161	68	81	75	76.5	75.0	75.7	83	76	80
11 WBHM - 4	115	153	134	62	48	55	77.5	76.6	77.1	82	83	83
12 COMP. R - 2006-2	132	158	145	70	58	64	78.8	84.1	81.4	81	56	68
13 E H - 1858	132	171	151	76	59	67	79.0	74.2	76.6	83	72	77
14 E H - 1877	103	177	140	53	66	60	79.8	80.6	80.2	82	74	78
15 E C - 3157	112	169	141	52	63	57	79.5	71.3	75.4	81	54	68
16 E C - 3158	117	153	135	62	52	57	79.5	77.3	78.4	83	82	82
17 E C - 3159	133	179	156	67	63	65	77.5	74.0	75.7	81	75	78
18 E C - 3160	142	174	158	73	62	68	78.3	73.1	75.7	81	75	78
19 A H - 7023	153	146	150	88	56	72	80.5	80.3	80.4	82	81	81
20 V E H - 07 - 2	152	163	157	82	50	66	79.0	74.8	76.9	81	64	73
21 B H - 40707	122	169	145	60	65	63	78.8	76.1	77.4	83	56	69

TABLE No. 34 (Cont..)

S1 No PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND ('000/ha)		
	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
22 B H - 40775	128	175	152	67	67	67	79.0	77.2	78.1	82	56	69
23 B H - 406126	115	151	133	53	47	50	80.0	77.7	78.9	82	83	83
24 B H - 407140	120	141	130	58	43	51	80.8	77.1	78.9	83	68	75
25 B H - 407144	115	158	137	55	49	52	81.0	75.8	78.4	83	57	70
26 B H - 408003	112	149	130	58	45	52	80.5	71.1	75.8	82	51	67
27 B H - 408005	133	166	150	67	59	63	79.3	70.9	75.1	81	83	82
28 K H - 717	138	169	154	72	61	66	79.0	75.1	77.1	83	43	63
29 K H - 9452	143	167	155	72	56	64	79.0	77.7	78.4	83	50	66
30 SMH - 3702	122	189	155	58	74	66	79.8	72.4	76.1	83	67	75
31 HYBRID VMH - 4060	137	179	158	75	66	71	80.5	72.8	76.7	82	65	74
32 PRO - 376	145	161	153	77	56	66	79.6	82.3	81.0	81	51	66
33 KMH - 3712	95	174	135	53	67	60	79.0	75.1	77.1	83	78	80
34 B L - 2802	147	170	158	73	60	67	78.0	77.3	77.6	82	75	78
35 HTCH - 5201	150	159	155	78	51	65	78.8	80.6	79.7	83	78	80
36 M C H - 37	152	189	170	80	77	79	81.0	76.7	78.8	82	68	75
CHECKS												
37 MALVIYA HYBRID - 2	162	139	150	87	39	63	82.0	75.4	78.7	83	46	64
38 H M - 9	155	143	149	87	45	66	79.5	75.9	77.7	83	61	72
Loc. Mean	126	165	146	67	58	62	79.3	76.0	77.6	82	68	75
C.D. (5%)	17.4	18.1	34.7	8.0	17.6	21.7	0.59	0.91	5.75	2.2	15.8	17.1
C.V. (%)	8.5	6.7	11.7	7.3	18.7	17.2	0.46	0.73	3.65	1.7	14.2	11.2
F (Prob.)	0.00	0.00	0.70	0.0	0.0	0.6	0.00	0.00	0.44	0.3	0.0	0.6

TABLE No. 35

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR, JORHAT IN TRIAL No. TR6308 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE KIRAN				GRAIN YIELD & SUPERIORITY OVER THE PARKASH			
		SRIN	JORH	R	MEAN	SRIN	JORH	MEAN	ZN 1	SRIN	JORH	MEAN	ZN 1
1	J H - 31192	3480	15	5843	4	4662	4	-	9.3	3.7	-	12.3	3.9
2	J H - 31197	2932	31	4739	12	3836	17	-	-	-	-	-	-
3	J H - 31121	3603	9	3300	24	3451	24	-	-	-	-	-	-
4	J H - 31184	3925	2	5572	6	4748	3	7.7	4.3	5.7	4.3	7.1	5.9
5	TRM -5-OV-1	3477	16	3712	21	3594	21	-	-	-	-	-	-
6	TRM -6-1	3205	26	4525	15	3865	15	-	-	-	-	-	-
7	KLM - 9	3194	27	5372	7	4283	9	-	0.5	-	-	3.2	-
8	KLM - 11	3165	29	2867	32	3016	32	-	-	-	-	-	-
9	KLM - 15	3320	18	4945	11	4132	11	-	-	-	-	-	-
10	MEH - 07 - 1	2713	32	4991	10	3852	16	-	-	-	-	-	-
11	MEH - 07 - 3	3560	11	4005	19	3783	18	-	-	-	-	-	-
12	E H - 1871	3143	30	4657	14	3900	13	-	-	-	-	-	-
13	E H - 1916	3758	6	2972	31	3365	26	3.2	-	-	-	-	-
14	A H - 7007	3312	20	3780	20	3546	23	-	-	-	-	-	-
15	PMC - 2	3536	14	3111	26	3324	27	-	-	-	-	-	-
16	COMP. R-2006-1	3336	17	5867	3	4601	5	-	9.8	2.4	-	12.7	2.6
17	COMP. R-2007-1	3262	23	3633	23	3447	25	-	-	-	-	-	-
18	E H K - 30508	3247	24	5594	5	4421	8	-	4.7	-	-	7.5	-
19	V E H - 07 - 6	3754	7	6168	2	4961	2	3.1	15.4	10.4	-	18.5	10.6

TABLE No. 35 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE KIRAN				GRAIN YIELD & SUPERIORITY OVER THE PARKASH				
		SRIN	R	JORH	R	ZN 1 MEAN	R	SRIN	JORH	MEAN	ZN 1 MEAN	R	SRIN	JORH
20	U M C - 10	3538	13	3086	28	3312	28	-	-	-	-	-	-	-
21	U M C - 11	3295	22	3092	27	3194	29	-	-	-	-	-	-	-
22	U M C - 12	3945	1	3289	25	3617	20	8.3	-	-	-	4.8	-	-
23	K H - 121	3809	4	7756	1	5782	1	4.6	45.1	28.7	-	1.2	49	28.9
24	H5 - 08 - 11	3596	10	4270	17	3933	12	-	-	-	-	-	-	-
25	LAXMI - 207	3544	12	3637	22	3590	22	-	-	-	-	-	-	-
26	M 06 - 108	3899	3	4666	13	4282	10	7	-	-	-	3.6	-	-
27	BISCO - 2225	3316	19	4221	18	3769	19	-	-	-	-	-	-	-
CHECKS														
28	KIRAN	3643	8	5344	8	4493	6	-	-	-	-	-	2.7	0.2
29	PARKASH	3764	5	5204	9	4484	7	3.3	-	-	-	-	-	-
30	NARMADA MOTI	3230	25	3041	30	3136	30	-	-	-	-	-	-	-
31	PRATAP MAKKA 5	3184	28	3080	29	3132	31	-	-	-	-	-	-	-
32	J K M H - 1701	3308	21	4468	16	3888	14	-	-	-	-	-	-	-
Location Mean														
Mean Stand														
C.D. (5%)														
C.V. (%)														
F (Prob)														
Plot Size														
AGRONOMY DATA														
Sowing Date														
Harvest Date														
Irrigation Nos														
Fertilizer Applied N														
Fertilizer Applied P														
Fertilizer Applied K														

TABLE No. 35 (Cont..)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NARMADA MOTI			GRAIN YIELD & SUPERIORITY OVER THE PRATAP MAKKA 5			GRAIN YIELD & SUPERIORITY OVER THE J K M H - 1701		
		SRIN	JORH	ZN 1 MEAN	SRIN	JORH	ZN 1 MEAN	SRIN	JORH	ZN 1 MEAN
1	J H - 31192	7.7	92.1	48.7	9.3	89.7	48.8	5.2	30.8	19.9
2	J H - 31197	-	55.8	22.3	-	53.9	22.5	-	6.1	-
3	J H - 31121	11.5	8.5	10.1	13.2	7.1	10.2	8.9	-	-
4	J H - 31184	21.5	83.2	51.4	23.3	80.9	51.6	18.7	24.7	22.1
5	TRM -5-OY-1	7.6	22	14.6	9.2	20.5	14.7	5.1	-	-
6	TRM -6-1	-	48.8	23.3	0.6	46.9	23.4	-	1.3	-
7	KLM - 9	-	76.7	36.6	0.3	74.4	36.7	-	20.2	10.2
8	KLM - 11	-	-	-	-	-	-	-	-	-
9	KLM - 15	2.8	62.6	31.8	4.3	60.5	31.9	0.4	10.7	6.3
10	MEH - 07 - 1	-	64.1	22.9	-	62	23	-	11.7	-
11	MEH - 07 - 3	10.2	31.7	20.6	11.8	30	20.8	7.6	-	-
12	E H - 1871	-	53.1	24.4	-	51.2	24.5	-	4.2	0.3
13	E H - 1916	16.3	-	7.3	18	-	7.4	13.6	-	-
14	A H - 7007	2.5	24.3	13.1	4	22.7	13.2	0.1	-	-
15	PMC - 2	9.5	2.3	6	11.1	1	6.1	6.9	-	-
16	COMP. R-2006-1	3.3	92.9	46.7	4.8	90.5	46.9	0.8	31.3	18.4
17	COMP. R-2007-1	1	19.5	9.9	2.4	17.9	10.1	-	-	-
18	E H K - 30508	0.5	84	41	2	81.6	41.1	-	25.2	13.7
19	V E H - 07 - 6	16.2	102.8	58.2	17.9	100.3	58.4	13.5	38.1	27.6
20	U M C - 10	9.5	1.5	5.6	11.1	0.2	5.7	7	-	-
21	U M C - 11	2	1.7	1.9	3.5	0.4	2	-	-	-
22	U M C - 12	22.1	8.1	15.4	23.9	6.8	15.5	19.3	-	-
23	K H - 121	17.9	155	84.4	19.6	151.8	84.6	15.1	73.6	48.7
24	85 - 08 - 1-	11.3	40.4	25.4	12.9	38.6	25.6	8.7	-	1.2
25	LAXMI - 207	9.7	19.6	14.5	11.3	18.1	14.6	7.1	-	-
26	M 06 - 108	20.7	53.4	36.6	22.4	51.5	36.7	17.9	4.4	10.2
27	BISCO - 2225	2.7	38.8	20.2	4.1	37	20.3	0.3	-	-
CHECKS										
28	KIRAN	12.8	75.7	43.3	14.4	73.5	43.5	10.1	19.6	15.6
29	PARKASH	16.5	71.1	43	18.2	69	43.2	13.8	16.5	15.3
30	NARMADA MOTI	-	-	-	1.4	-	0.1	-	-	-
31	PRATAP MAKKA 5	-	-	-	-	-	-	-	-	-
32	J K M H - 1701	2.4	46.9	24	3.9	45	24.1	-	-	-

TABLE No. 35 (Cont...)

SI No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE & AT HARVEST		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	J H - 31192	74.0	66.0	70.0	77.0	69.3	73.2	132.3	107.7	120.0	13.5	17.3	15.4
2	J H - 31197	75.3	68.7	72.0	78.0	72.3	75.2	131.3	108.3	119.8	19.0	18.3	18.7
3	J H - 31121	84.0	70.3	77.2	86.3	73.3	79.8	131.0	109.3	120.2	13.5	18.1	15.8
4	J H - 31184	85.3	67.7	76.5	88.0	70.7	79.3	133.3	108.0	120.7	21.0	18.8	19.9
5	TRM -5-OY-1	86.3	68.3	77.3	88.3	71.3	79.8	133.0	106.0	119.5	19.5	16.6	18.0
6	TRM -6-1	88.3	68.7	78.5	90.7	71.7	81.2	134.3	107.7	121.0	15.5	18.7	17.1
7	KLM - 9	72.7	65.0	68.8	75.7	68.0	71.8	129.3	107.7	118.5	14.5	19.1	16.6
8	KLM - 11	74.7	70.0	72.3	77.3	73.3	75.3	97.0	106.0	101.5	12.0	16.0	14.0
9	KLM - 15	71.3	66.7	69.0	74.3	70.0	72.2	129.0	108.0	118.5	14.0	18.4	16.2
10	MEH - 07 - 1	77.0	68.0	72.5	79.7	71.0	75.3	127.7	106.3	117.0	15.0	17.9	16.4
11	MEH - 07 - 3	77.7	67.7	72.7	80.7	70.7	75.7	126.7	106.0	116.3	14.0	18.4	16.2
12	E H - 1871	75.0	64.3	69.7	77.7	67.3	72.5	127.7	107.7	117.7	16.0	16.7	16.4
13	E H - 1916	76.3	70.0	73.2	79.0	73.3	76.2	131.3	108.7	120.0	16.0	17.1	16.6
14	A H - 7007	77.3	67.0	72.2	80.0	70.0	75.0	130.7	107.0	118.8	21.5	18.1	19.8
15	PMC - 2	84.7	70.0	77.3	87.3	73.0	80.2	133.0	107.0	120.0	15.5	19.2	17.3
16	COMP. R-2006-1	76.7	73.0	74.8	79.7	76.7	78.2	131.0	109.3	120.2	19.0	19.6	19.3
17	COMP. R-2007-1	76.7	65.0	70.8	79.7	68.0	73.8	131.0	107.7	119.3	19.0	16.6	17.8
18	E H K - 30508	76.7	70.3	73.5	79.3	73.3	76.3	130.3	109.0	119.7	13.0	18.1	15.6
19	V E H - 07 - 6	75.7	68.0	71.8	78.3	71.0	74.7	131.0	107.3	119.2	16.5	18.1	17.3
20	U M C - 10	73.7	68.0	70.8	76.7	71.3	74.0	131.3	105.3	118.3	14.5	18.5	16.5
21	U M C - 11	72.7	66.3	69.5	75.3	69.3	72.3	131.0	108.3	119.7	14.5	18.2	16.3
22	U M C - 12	74.3	66.0	70.2	76.7	69.3	73.0	130.0	105.7	117.8	13.0	17.3	15.2
23	K H - 121	76.0	64.7	70.3	78.3	67.7	73.0	130.7	107.7	119.2	13.5	18.2	15.9
24	85 - 08 - 11	75.7	69.0	72.3	78.7	72.0	75.3	130.7	109.0	119.8	13.5	18.3	15.9
25	LAXMI - 207	77.0	72.3	74.7	80.3	75.3	77.8	130.3	108.0	119.2	12.5	23.1	17.8
26	M 06 - 108	73.7	68.3	71.0	76.3	71.3	73.8	130.3	107.3	118.8	14.0	17.7	15.8
27	BISCO - 2225	73.7	64.0	68.8	76.3	67.0	71.7	130.3	106.7	118.5	14.0	17.2	15.6
CHECKS													
28	KIRAN	74.3	68.0	71.2	77.0	71.3	74.2	129.3	104.7	117.0	13.5	17.2	15.4
29	PARKASH	75.7	51.0	63.3	78.7	67.3	73.0	129.7	106.0	117.8	12.5	16.9	14.7
30	NARMADA MOTI	73.3	66.0	69.7	75.7	69.0	72.3	132.7	105.7	119.2	19.5	17.4	18.4
31	PRATAP MAUKA 5	76.0	68.7	72.3	78.7	71.7	75.2	129.3	108.3	118.8	19.0	17.0	18.0
32	J K M 3 - 1701	76.0	69.3	72.7	79.0	72.7	75.8	131.0	108.0	119.5	17.0	18.4	17.7
Loc. Mean													
C.D. (5%)													
C.V. (%)													
F (Prob.)													
		0.87	8.23	7.08	1.15	4.79	5.81	16.74	2.82	8.67	0.80	0.51	4.42
		0.69	7.49	4.81	0.69	4.14	3.78	7.91	1.61	3.59	3.15	1.74	12.91
		0.00	0.05	0.09	0.00	0.02	0.06	0.38	0.09	0.31	0.00	0.00	0.63

TABLE No. 35 (Cont..)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)			Zone Mean
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	
1	J H - 31192	120	162	141	55	61	58	80.5	84.3	82.4	83	64	74	
2	J H - 31197	150	160	155	75	58	67	79.8	80.6	80.2	83	63	73	
3	J H - 31121	113	155	134	63	53	58	80.5	75.7	78.1	81	51	66	
4	J H - 31184	128	163	146	65	67	66	85.8	75.5	80.6	81	62	72	
5	TRM -5-OY-1	117	152	134	57	54	56	86.5	80.0	83.3	82	55	68	
6	TRM -6-1	75	180	128	53	74	64	79.5	76.7	78.1	81	56	68	
7	KLM - 9	115	160	138	50	65	58	79.8	83.5	81.6	81	63	72	
8	KLM - 11	120	150	135	60	51	56	80.5	76.7	78.6	83	43	63	
9	KLM - 15	122	163	142	57	55	56	79.0	79.7	79.4	83	63	73	
10	MEH - 07 - 1	112	161	136	57	63	60	78.3	81.1	79.7	80	63	72	
11	MEH - 07 - 3	117	167	142	53	63	58	79.8	78.1	78.9	83	63	73	
12	E H - 1871	122	155	139	67	68	67	79.0	80.4	79.7	83	63	73	
13	E H - 1916	123	163	143	77	65	71	79.0	81.5	80.2	82	42	62	
14	A H - 7007	137	155	146	80	60	70	78.0	75.7	76.8	83	49	66	
15	PMC - 2	147	173	160	85	71	78	79.5	73.5	76.5	83	43	63	
16	COMP. R-2006-1	140	178	159	78	80	79	80.5	78.4	79.4	83	63	73	
17	COMP. R-2007-1	145	169	157	77	65	71	81.0	78.9	79.9	83	52	67	
18	E H K - 30508	142	180	161	75	75	75	80.0	73.9	76.9	82	65	74	
19	V E H - 07 - 6	138	172	155	88	74	81	80.0	77.7	78.9	81	69	75	
20	U M C - 13	160	151	155	90	56	73	82.5	72.9	77.7	83	58	70	
21	U M C - 11	127	163	145	60	63	62	80.8	79.0	79.9	83	43	63	
22	U M C - 12	130	159	144	305	68	187	81.8	80.4	81.1	83	52	67	
23	K H - 121	138	181	160	72	73	72	78.5	81.6	80.1	82	72	77	
24	85 - 08 - 11	128	160	144	77	65	71	78.8	74.4	76.6	83	57	70	
25	LAXMI - 237	137	158	147	73	65	69	78.5	75.6	77.1	82	49	66	
26	M 06 - 103	150	173	162	90	74	82	77.8	76.9	77.3	81	64	73	
27	BISCO - 2225	132	156	144	63	57	60	78.5	81.9	80.2	82	63	72	
CHECKS														
28	KIRAN	133	171	152	72	74	73	79.5	77.1	78.3	81	71	76	
29	PARKASH	145	163	154	74	65	70	80.8	83.9	82.3	83	63	73	
30	NARMADA MOTI	132	172	152	70	69	69	79.8	71.7	75.7	83	44	64	
31	PRATAP MAKKA 5	135	157	146	68	65	67	80.3	84.8	82.5	81	42	61	
32	J K M H - 1701	127	161	144	57	54	55	79.5	79.5	79.5	83	58	70	
	Loc. Mean	130	164	147	76	65	71	80.1	78.5	79.3	82	57	70	
	C.D. (5%)	17.8	22.5	25.5	117	19	61	0.46	1.10	5.78	2.3	9.0	13.2	
	C.V. (%)	8.40	8.40	8.52	94.1	18.2	42.6	0.35	0.86	3.58	1.7	9.7	9.3	
	F (Prob.)	0.00	0.26	0.45	0.4	0.3	0.4	0.00	0.00	0.59	0.2	0.0	0.6	

TABLE No. 36
 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT
 SRINAGAR, JORHAT IN TRIAL No. TR6408 DURING KHARIF (2009).

Sl NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD & SUPERIORITY OVER THE VIVEK QPM9			GRAIN YIELD & SUPERIORITY OVER THE HIM - 129				
	SRIN R	JORH R	ZN 1 MEAN R	SRIN R	JORH R	ZN 1 MEAN R	SRIN R	JORH R	ZN 1 MEAN R		
1 F H - 3463	3274	10	7367	5	5320	4	-	-	9.1	37.9	27.5
2 F H - 3464	3392	8	7855	1	5624	2	-	-	13	47.1	34.8
3 F H - 3473	3022	12	7371	4	5197	7	-	-	0.7	38	24.6
4 FQH - 55	2915	14	7086	8	5001	9	-	-	-	32.7	19.9
5 E H - 1928	3366	9	5692	13	4529	13	-	-	12.2	6.5	8.6
6 A H - 7003	3141	11	7372	3	5257	6	-	-	4.7	38	26
7 A H - 7025	3426	7	7150	7	5288	5	-	-	14.2	33.8	26.8
8 A H - 7026	3520	4	5796	11	4658	11	-	-	17.3	8.5	11.7
9 A H - 7027	3719	2	6556	9	5138	8	-	-	23.9	22.7	23.2
10 A H - 7028	3489	5	5729	12	4609	12	-	-	16.3	7.2	10.5
CHECKS											
11 VIVEK QPM9	4909	1	7505	2	6207	1	-	-	63.6	40.5	48.8
12 HIM - 129	3001	13	5342	14	4171	14	-	-	-	-	-
13 VIVEK - 17	3662	3	7187	6	5425	3	-	-	22	34.5	30
14 SURYA	3448	6	6290	10	4869	10	-	-	14.9	17.8	16.7
Location Mean	3449		6736		5092						
Mean Stand	40		34		37						
C.D. (5%)	519		2317		1418						
C.V. (%)	8.96		20.45		-						
F (Prob)	0		0.005		-						
Plot Size	4.8		4.8		-						
AGRONOMY DATA											
Sowing Date	24-04		2-03		-						
Harvest Date	8-10		17-06		-						
Irrigation Nos	3		-		-						
Fertilizer Applied N	90		80		-						
Fertilizer Applied P	60		40		-						
Fertilizer Applied K	40		40		-						

TABLE No. 36(Cont..) GRAIN YIELD & SUPERIORITY OVER THE HIM - 129 GRAIN YIELD & SUPERIORITY OVER THE SURYA

No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HIM - 129			GRAIN YIELD & SUPERIORITY OVER THE SURYA		
		SRIN	JORH	MEAN	SRIN	JORH	MEAN
1	F H - 3463	9.1	37.9	27.5	-	17.1	9.3
2	F H - 3464	13	47.1	34.8	-	24.9	15.5
3	F H - 3473	0.7	38	24.6	-	17.2	6.7
4	FQH - 55	-	32.7	19.9	-	12.7	2.7
5	E H - 1928	12.2	6.5	8.6	-	-	-
6	A H - 7003	4.7	38	26	-	17.2	8
7	A H - 7025	14.2	33.8	26.8	-	13.7	8.6
8	A H - 7026	17.3	8.5	11.7	-	-	-
9	A H - 7027	23.9	22.7	23.2	2.1	-	-
10	A H - 7028	16.3	7.2	10.5	7.9	4.2	5.5
	CHECKS				1.2	-	-
11	VIVEK QPM9	63.6	40.5	48.8	42.4	19.3	27.5
12	HIM - 129	-	-	-	-	-	-
13	VIVEK - 17	22	34.5	30	6.2	14.3	11.4
14	SURYA	14.9	17.8	16.7	-	-	-

No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE & AT HARVEST		
		SRIN	JORH	MEAN	SRIN	JORH	MEAN	SRIN	JORH	MEAN	SRIN	JORH	MEAN
1	F H - 3463	74.0	58.7	66.3	76.7	61.7	69.2	140.0	101.0	120.5	13.0	17.1	15.1
2	F H - 3464	78.0	56.7	67.3	79.7	59.7	69.7	141.3	98.7	120.0	12.0	17.5	14.8
3	F H - 3473	75.3	58.0	66.7	77.3	61.0	69.2	140.0	101.3	120.7	14.5	16.9	15.7
4	FQH - 55	77.7	57.7	67.7	79.3	60.7	70.0	139.7	100.3	120.0	12.5	17.7	15.1
5	E H - 1928	78.7	58.3	68.5	80.0	61.3	70.7	143.0	100.7	121.8	13.5	17.5	15.5
6	A H - 7003	80.7	60.0	70.3	82.3	63.0	72.7	144.7	102.0	123.3	16.5	17.9	17.2
7	A H - 7025	82.3	61.7	72.0	84.3	64.7	74.5	143.7	102.0	122.8	13.0	16.9	14.9
8	A H - 7026	80.7	58.0	69.3	82.3	61.0	71.7	141.3	100.7	121.0	12.5	16.5	14.5
9	A H - 7027	81.7	60.3	71.0	83.7	63.3	73.5	141.3	103.0	122.2	14.5	17.5	16.0
10	A H - 7028	80.3	62.3	71.3	82.3	65.3	73.8	142.3	104.3	123.3	18.5	18.4	18.4
	CHECKS												
11	VIVEK QPM9	76.0	57.0	66.5	78.0	60.0	69.0	141.0	99.3	120.2	12.5	16.4	14.5
12	HIM - 129	75.7	58.7	67.2	77.7	61.7	69.7	140.3	100.7	120.5	15.0	17.9	16.4
13	VIVEK - 17	74.7	56.7	65.7	76.3	59.7	68.0	138.3	100.0	119.2	12.5	16.5	14.5
14	SURYA	78.7	56.7	67.7	80.7	59.7	70.2	138.7	98.7	118.7	12.5	17.1	14.8
	Loc. Mean	78.2	58.6	68.4	80.0	61.6	70.8	141.1	100.9	121.0	13.8	17.3	15.5
	C.D. (5%)	1.29	3.85	3.27	0.97	3.85	3.03	1.42	2.96	2.61	0.74	0.49	2.28
	C.V. (%)	0.99	3.91	2.22	0.72	3.72	1.98	0.60	1.75	1.00	3.18	1.69	6.81
	F (Prob.)	0.00	0.08	0.01	0.00	0.08	0.01	0.00	0.03	0.03	0.00	0.00	0.06

TABLE No. 36 (Cont...)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	F H - 3463	113	179	146	50	75	63	81.0	77.6	79.3	83	64	74
2	F H - 3464	135	183	159	60	67	64	78.5	80.3	79.4	83	83	83
3	F H - 3473	137	160	148	53	56	55	79.5	83.7	81.6	83	83	83
4	FQH - 55	153	173	163	68	67	68	79.5	79.8	79.6	83	78	81
5	E H - 1928	132	176	154	65	70	68	81.0	71.7	76.3	82	81	82
6	A H - 7003	130	198	164	60	90	75	78.5	83.6	81.1	83	82	82
7	A H - 7025	132	169	151	75	66	71	80.3	83.2	81.7	83	63	73
8	A H - 7026	147	175	161	80	82	81	79.5	75.5	77.5	83	42	63
9	A H - 7027	142	191	167	77	88	82	80.5	80.0	80.3	83	71	77
10	A H - 7028	142	185	164	72	81	76	79.0	82.1	80.6	83	42	63
CHECKS													
11	VIVEK QPM9	135	190	163	60	81	71	80.0	82.9	81.5	83	83	83
12	HIM - 129	128	171	150	54	65	60	78.5	81.1	79.8	83	63	73
13	VIVEK - 17	132	159	145	53	54	54	80.0	82.5	81.3	83	69	76
14	SURYA	143	173	158	63	76	70	81.0	86.0	83.5	83	76	80
	Loc. Mean	136	177	157	64	73	68	79.8	80.7	80.2	83	70	77
	C.D. (5%)	7.8	17.4	22.8	11	18	16	0.66	1.30	6.22	1.3	14.1	21.9
	C.V. (%)	3.4	5.8	6.8	10	15	11	0.49	0.96	3.59	0.9	12.0	13.3
	F (Prob.)	0.0	0.0	0.5	0	0	0	0.00	0.00	0.66	0.5	0.0	0.5

Table No. 37
 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT
 SRINAGAR, JORHAT IN TRIAL No. TR6508 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681			GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC - 2324		
		SRIN	R	JORH	R	MEAN	R	SRIN	JORH	MEAN	SRIN	JORH	MEAN
1	X 6B 269	1991	4	10388	1	6190	1	-	91.9	61.1	7.2	21.5	19
2	K M H - 50	2142	2	7378	3	4760	3	-	36.3	23.9	15.3	-	-
	CHECKS												
3	BIO - 9681	2269	1	5413	5	3841	5	-	-	-	22.2	-	-
4	SEEDTEC - 2324	1857	5	8549	2	5203	2	-	57.9	35.5	-	-	-
5	PARBHAT	2041	3	6474	4	4257	4	-	19.6	10.8	9.9	-	-
	Location Mean	2060		7640		4850							
	Mean Stand	80		48		64							
	C.D. (5%)	288		2274		1281							
	C.V. (%)	8.97		19.12		-							
	F (Prob)	0.116		0		-							
	Plot Size	9.6		7.2		-							
	AGRONOMY DATA												
	Sowing Date	24-04		2-03		-							
	Harvest Date	14-10		6-07		-							
	Irrigation Nos	3		-		-							
	Fertilizer Applied N	90		80		-							
	Fertilizer Applied P	60		40		-							
	Fertilizer Applied K	40		40		-							

Table No. 37 (Continued)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT										DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 75% DRY HUSK			
		ZN 1		SRIN		JORH		MEAN		Zone Mean		SRIN		JORH		Zone Mean		SRIN		JORH		Zone Mean	
		SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH
1	X GB 269	-	60.5	45.4	90.0	81.0	85.5	92.3	84.3	88.3	140.3	121.3	130.8										
2	K M H - 50	4.9	14	11.8	85.0	80.3	82.6	87.5	83.5	85.5	136.0	120.3	128.1										
	CHECKS																						
3	BIO - 9681	11.2	-	-	84.3	79.5	81.9	87.0	83.0	85.0	136.5	119.5	128.0										
4	SEEDTEC - 2324	-	32.1	22.2	85.8	79.3	82.5	88.3	82.5	85.4	139.3	119.3	129.3										
5	PARBHAT	-	-	-	90.0	80.3	85.1	92.5	84.0	88.3	138.5	119.0	128.8										
	Loc. Mean				87.0	80.1	83.5	89.5	83.5	86.5	138.1	119.9	129.0										
	C.D. (5%)				0.47	2.10	4.60	0.94	2.19	4.20	0.94	2.40	3.54										
	C.V. (%)				0.35	1.70	1.58	0.68	1.70	1.75	0.44	1.30	0.99										
	F (Prob.)				0.00	0.43	0.26	0.00	0.44	0.22	0.00	0.30	0.35										

Sl No	PEDIGREE	MOISTURE & AT HARVEST										PLANT HEIGHT (cm)				EAR HEIGHT (cm)				GRAIN SHELLING & STAND AT HARVEST ('000/ha)					
		SRIN		JORH		Zone Mean		SRIN		JORH		Zone Mean		SRIN		JORH		Zone Mean		SRIN		JORH		Zone Mean	
		SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH	SRIN	JORH
1	X GB 269	26.0	21.6	23.8	20.1	166	212	189	88	100	94	78.1	77.4	83	69	76									
2	K M H - 50	23.8	20.1	21.9	161	208	184	184	73	89	81	79.8	76.9	83	77	80									
	CHECKS																								
3	BIO - 9681	16.5	22.2	19.3	153	180	166	166	73	72	72	79.9	75.6	83	53	68									
4	SEEDTEC-2324	27.0	21.6	24.3	148	184	166	166	83	79	81	78.5	75.7	83	74	79									
5	PARBHAT	16.0	18.3	17.1	148	199	173	173	81	91	86	80.5	77.1	83	61	72									
	Loc. Mean	21.9	20.7	21.3	155	196	176	176	79	86	83	79.4	76.5	83	67	75									
	C.D. (5%)	2.09	0.19	9.45	4.9	13.4	18.7	3.9	12.1	16.6	0.69	0.34	2.54	1.4	8.6	19.8									
	C.V. (%)	6.20	0.58	15.96	2.1	4.4	3.8	3.2	9.1	7.3	0.56	0.29	1.17	1.1	8.3	9.5									
	F (Prob.)	0.00	0.00	0.33	0.0	0.0	0.1	0.0	0.0	0.0	0.1	0.00	0.00	1.0	0.0	0.5									

TABLE No. 38
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT SRINAGAR,
 JORHAT IN TRIAL No. TR6608 DURING KHARIF (2009).

SI	No PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE MALVIYA HYBRID - 2				
		SRIN	R	JORH	R	SRIN	JORH	SRIN	JORH	ZN I MEAN
1	J H - 31153	2556	1	8739	1	5648	1	22.8	99.7	74.9
2	KLM - 14	2183	2	4384	3	3284	3	4.5	0.2	1.7
3	PARBHAT	1933	4	5685	2	3809	2	-	29.9	18
	CHECKS									
4	MALVIYA HYBRID - 2	2082	3	4376	4	3229	4	-	-	-
	Location Mean	2188		5796		3992				
	Mean Stand	79		47		63				
	C.D. (5%)	331		1955		1143				
	C.V. (%)	12.2		27.24		-				
	F (Prob)	0.002		0		-				
	Plot Size	9.6		9.6		-				
	AGRONOMY DATA									
	Sowing Date	24-04		28-02		-				
	Harvest Date	13-10		18-06		-				
	Irrigation Nos	3		-		-				
	Fertilizer Applied N	90		80		-				
	Fertilizer Applied P	60		40		-				
	Fertilizer Applied K	40		40		-				

TABLE No. 38 (Cont..)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	J H - 31153	79.2	61.2	70.2	81.5	64.2	72.8	139.2	103.2	121.2	20.3	19.5	19.9
2	KLM - 14	72.7	59.3	66.0	75.3	62.3	68.8	136.3	102.2	119.3	16.0	17.2	16.6
3	PARBHAT	86.0	65.2	75.6	86.8	67.8	77.3	138.8	106.5	122.7	21.0	20.3	20.6
	CHECKS												
4	MALVIYA HYBRID - 2	79.5	62.7	71.1	81.7	65.7	73.7	134.5	104.3	119.4	15.3	18.0	16.6
	Loc. Mean	79.3	62.1	70.7	81.3	65.0	73.2	137.2	104.0	120.6	18.1	18.7	18.4
	C.D. (5%)	0.62	1.67	6.99	1.80	1.81	5.71	2.24	1.61	5.62	0.28	0.06	3.79
	C.V. (%)	0.64	2.18	3.10	1.80	2.26	2.45	1.33	1.26	1.46	1.23	0.28	6.46
	F (Prob.)	0.00	0.00	0.08	0.00	0.00	0.07	0.00	0.00	0.34	0.00	0.00	0.08
Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	J H - 31153	132	195	163	68	84	76	80.4	80.8	80.6	83	66	75
2	KLM - 14	129	177	153	58	67	62	80.9	71.2	76.0	82	49	66
3	PARBHAT	142	210	176	79	96	88	80.0	83.6	81.8	83	48	65
	CHECKS												
4	MALVIYA HYBRID - 2	123	177	150	63	67	65	81.4	75.7	78.5	83	34	59
	Loc. Mean	131	190	161	67	79	73	80.7	77.8	79.2	83	49	66
	C.D. (5%)	2.6	23.6	21.6	5.0	18.9	12.3	1.72	0.84	13.43	0.6	6.6	29.6
	C.V. (%)	1.6	10.1	4.2	6.0	19.5	5.3	1.74	0.88	5.33	0.6	10.8	14.1
	F (Prob.)	0.0	0.0	0.1	0.0	0.0	0.0	0.38	0.00	0.61	0.0	0.0	0.5

TABLE No. 39 (Cont..)

S1	No PEDIGREE	DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE & AT HARVEST			DAYS TO 50% POLLEN SHED		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	FQH - 38	77.5	61.8	69.7	137.3	103.3	120.3	13.8	17.0	15.4	75.3	59.0	67.1
	CHECKS												
2	VIVEK HYBRID - 21	76.0	60.8	68.4	135.5	103.0	119.3	12.8	17.3	15.0	73.5	58.2	65.8
3	VIVEK QPM 9	74.0	59.3	66.7	135.8	101.5	118.6	12.8	16.7	14.7	71.0	56.7	63.8
4	HIM - 129	74.0	59.7	66.8	135.3	102.5	118.9	12.5	16.6	14.6	71.5	56.8	64.2
5	VIVEK - 17	73.8	58.5	66.1	134.3	101.8	118.0	12.8	17.2	15.0	71.5	55.7	63.6
	Loc. Mean	75.1	60.0	67.5	135.6	102.4	119.0	12.9	16.9	14.9	72.6	57.3	64.9
	C.D. (5%)	1.49	1.72	1.02	1.16	1.21	1.68	0.60	0.07	1.03	1.13	1.58	1.56
	C.V. (%)	1.29	2.38	0.55	0.56	0.98	0.51	3.00	0.36	2.48	1.01	2.29	0.87
	F (Prob.)	0.00	0.01	0.00	0.00	0.02	0.11	0.01	0.00	0.39	0.00	0.00	0.01

S1	No PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
		SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1	FQH - 38	150	190	170	73	75	74	80.4	79.6	80.0	83	69	76
	CHECKS												
2	VIVEK HYBRID - 21	156	182	169	71	67	69	81.0	85.3	83.1	82	69	76
3	VIVEK QPM 9	139	192	165	68	85	76	79.6	82.9	81.2	82	76	79
4	HIM - 129	124	149	136	56	45	51	78.0	75.5	76.7	256	32	144
5	VIVEK - 17	130	172	151	56	62	59	79.0	87.5	83.2	82	58	70
	Loc. Mean	140	177	158	65	67	66	79.6	82.1	80.9	117	61	89
	C.D. (5%)	4.0	11.9	23.6	5.5	9.9	21.1	0.34	0.73	8.51	240	10	184
	C.V. (%)	1.9	5.6	5.4	5.5	12.2	11.5	0.27	0.74	3.79	133	14	74
	F (Prob.)	0.0	0.0	0.1	0.0	0.0	0.1	0.00	0.00	0.35	0	0	1

TABLE NO. 40
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRID & COMPOSITES OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF AT
 SRINAGAR, IN TRIAL NO. TR7008 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE MALVIYA HYBRID - 2			GRAIN YIELD & SUPERIORITY OVER THE PARBHAT		
		SRIN	R	JORH	R	ZN 1 MEAN	R	SRIN	JORH	ZN 1 MEAN	SRIN	JORH	ZN 1 MEAN
1	L - 173	2090	1	4271	3	3180	2	11.6	-	1.3	-	2.1	-
CHECKS													
2	MALVIYA HYBRID - 2	1872	3	4409	2	3141	3	-	-	-	-	-	-
3	PARBHAT	2047	2	5280	1	3664	1	9.4	19.8	16.7	-	-	-
	Location Mean	2003		4653		3328							
	Mean Stand	119		43		81							
	C.D. (5%)	100		558		329							
	C.V. (%)	4.61		11.11		-							
	F (Prob)	0.001		0.015		-							
	Plot Size	14.4		9.6		-							
AGRONOMY DATA													
	Sowing Date	24-04		28-02		-							
	Harvest Date	14-10		20-06		-							
	Irrigation Nos	3		-		-							
	Fertilizer Applied N	90		80		-							
	Fertilizer Applied P	60		40		-							
	Fertilizer Applied K	40		40		-							

TABLE No. 40 (Cont..)

S1 No PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 75% DRY HUSK			MOISTURE % AT HARVEST		
	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1 L - 173	79.6	62.0	70.8	82.1	64.8	73.4	126.8	106.1	116.4	17.8	19.0	18.4
CHECKS												
2 MALVIYA HYBRID - 2	84.3	63.4	73.8	86.5	66.6	76.6	139.4	105.5	122.4	16.3	18.4	17.3
3 PARBHAT	78.5	65.0	71.8	81.0	69.3	75.1	135.8	106.0	120.9	16.5	19.9	18.2
Loc. Mean	80.8	63.5	72.1	83.2	66.9	75.0	134.0	105.9	119.9	16.8	19.1	18.0
C.D. (5%)	1.17	2.16	11.25	1.31	1.91	12.66	21.48	1.13	20.63	0.48	0.10	3.21
C.V. (%)	1.35	3.17	3.62	1.47	2.66	3.92	14.95	1.00	4.00	2.67	0.50	4.15
F (Prob.)	0.00	0.03	0.59	0.00	0.00	0.64	0.45	0.47	0.54	0.00	0.00	0.47

S1 No PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean	SRIN	JORH	Zone Mean
1 L - 173	164	184	174	81	75	78	80.1	80.9	80.5	83	47	65
CHECKS												
2 MALVIYA HYBRID - 2	146	165	155	72	66	69	79.4	81.9	80.6	83	41	62
3 PARBHAT	161	197	179	83	90	86	80.4	83.1	81.8	83	45	64
Loc. Mean	157	182	169	79	77	78	80.0	82.0	81.0	83	44	64
C.D. (5%)	6.9	8.5	28.8	5.8	5.7	23.8	0.23	0.41	3.28	0.6	11.0	8.2
C.V. (%)	4.1	4.4	3.9	6.9	6.9	7.1	0.27	0.46	0.94	0.7	23.1	3.0
F (Prob.)	0.0	0.0	0.1	0.0	0.0	0.2	0.00	0.00	0.38	0.8	0.6	0.5

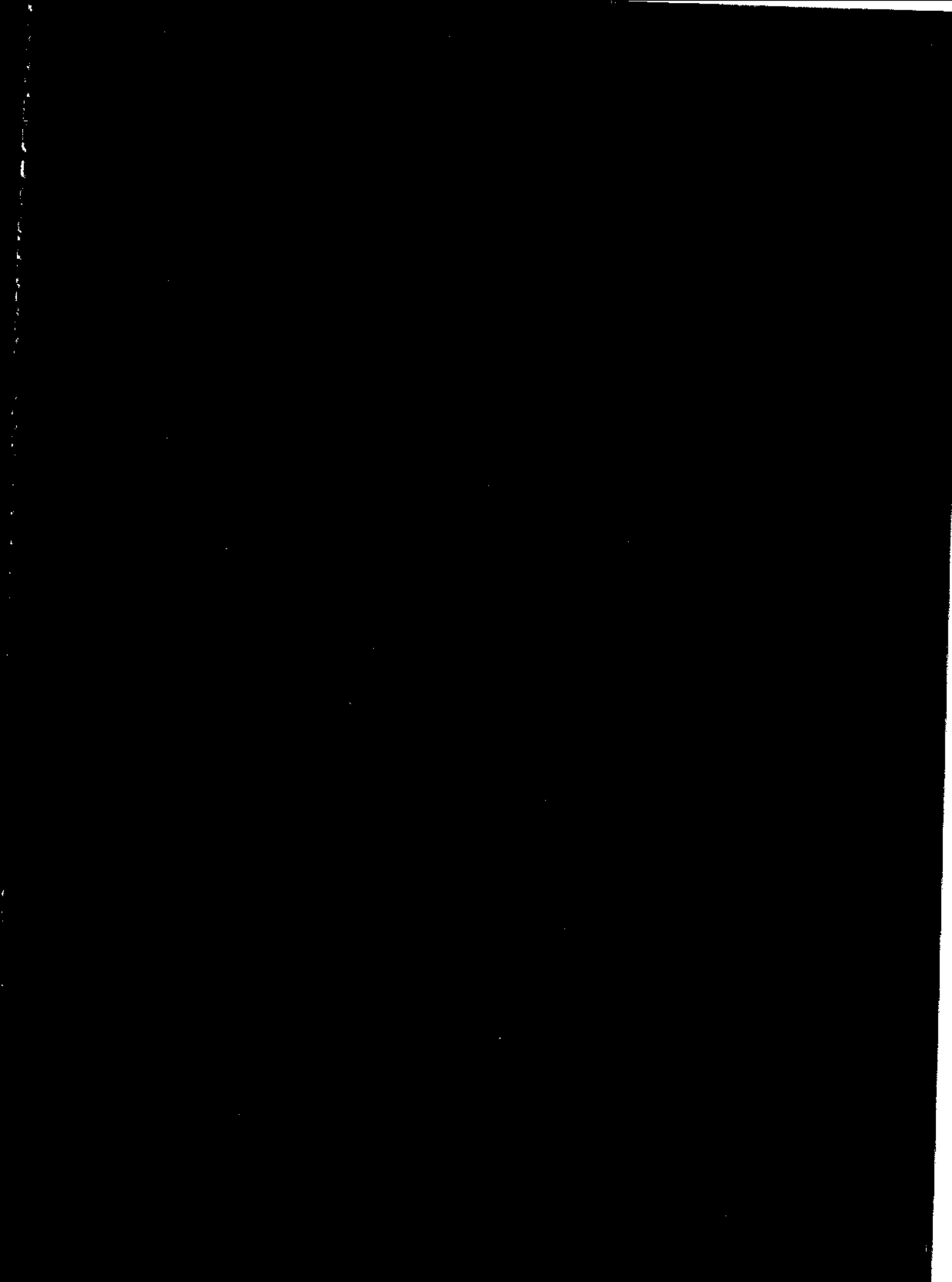
TABLE No. 41
 PERFORMANCE OF EXTRA EARLY MATURING EXPERIMENTAL HYBRIDS OF 2008 KHARIF EXPERIMENT AND PLANTED IN 2009 KHARIF
 AT SRINAGAR, JORHAT IN TRIAL No. TR71-7208 DURING KHARIF (2009).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD & SUPER. OVER VIVEK HYBRID-33			GRAIN YIELD & SUPER. OVER VIVEK HYBRID-17			GRAIN YIELD & SUPERIORITY OVER THE SURYA					
		SRIN	JORH	R	ZN 1 MEAN	SRIN	JORH	R	ZN 1 MEAN	SRIN	JORH	R	ZN 1 MEAN	SRIN	JORH	R
1	F H - 3356	1935	2	3644	3	2789	3	1.6	44.2	25.9	3	3.8	9	14.4	12.5	
2	V L - 113	2060	1	3943	2	3002	2	8.2	56.1	35.5	2	10.6	16	23.8	21	
3	A H - 31021	1795	5	3466	4	2630	4	-	37.2	18.7	4	-	1.1	8.8	6.1	
CHECKS																
4	VIVEK HYBRID-33	1904	3	2527	6	2215	6	-	-	-	6	2.2	7.2	-	-	
5	VIVEK HYBRID-17	1864	4	5355	1	3609	1	-	111.9	62.9	1	-	5	68.2	45.5	
6	SURYA	1776	6	3184	5	2480	5	-	26	11.9	5	-	-	-	-	
	Location Mean	1889		3687		2788										
	Mean Stand	119		45		82										
	C.D. (5%)	102		1904		1003										
	C.V. (%)	3.55		27.97		-										
	F (Prob)	0		0		-										
	Plot Size	14.4		9.6		-										
AGRONOMY DATA																
	Sowing Date	24-04		7-03		-										
	Harvest Date	10-10		27-06		-										
	Irrigation Nos	3		-		-										
	Fertilizer	N	90	80		-										
	Fertilizer	P	60	40		-										
	Fertilizer	K	40	40		-										

TABLE No. 41 (Cont..)

SI	No PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SURYA			DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			MOISTURE % AT HARVEST		
		SRIN	JORH	MEAN	SRIN	JORH	Mean	SRIN	JORH	Mean	SRIN	JORH	Mean
		9	14.4	12.5	75.5	65.3	70.4	78.5	68.3	73.4	12.8	17.1	14.9
	1 F H - 3356	16	23.8	21	69.3	59.3	64.3	72.3	62.7	67.5	13.0	17.6	15.3
	2 V L - 113	1.1	8.8	6.1	78.8	62.3	70.5	81.0	65.3	73.2	15.5	17.2	16.3
	3 A H - 31021												
	CHECKS												
	4 VIVEK HYBRID - 33	7.2	-	-	74.3	70.3	72.3	75.8	73.3	74.5	12.8	16.8	14.8
	5 VIVEK HYBRID - 17	5	68.2	45.5	69.3	58.0	63.6	72.3	61.0	66.6	12.8	15.8	14.3
	6 SURYA	-	-	-	70.5	61.3	65.9	73.0	64.7	68.8	12.5	16.2	14.3
	Loc. Mean				72.9	62.8	67.8	75.5	65.9	70.7	13.2	16.8	15.0
	C.D. (5%)				1.70	3.28	7.29	1.36	3.35	7.84	0.96	0.38	1.97
	C.V. (%)				1.55	2.87	4.18	1.19	2.79	4.32	4.84	1.25	5.11
	F (Prob.)				0.00	0.00	0.10	0.00	0.00	0.17	0.00	0.00	0.24

SI	No PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			GRAIN SHELLING %			STAND AT HARVEST ('000/ha)		
		SRIN	JORH	MEAN	SRIN	JORH	Mean	SRIN	JORH	Mean	SRIN	JORH	Mean
	1 F H - 3356	125	143	134	58	46	52	79.4	81.8	80.6	83	36	59
	2 V L - 113	124	149	137	59	51	55	80.4	84.5	82.4	82	58	70
	3 A H - 31021	141	163	152	73	61	67	78.5	76.9	77.7	83	54	68
	CHECKS												
	4 VIVEK HYBRID - 33	119	126	123	55	40	47	78.4	82.0	80.2	82	25	54
	5 VIVEK HYBRID - 17	118	155	136	54	58	56	78.0	77.9	77.9	83	63	73
	6 SURYA	123	152	137	55	59	57	79.9	80.3	80.1	82	45	64
	Loc. Mean	125	149	137	59	52	56	79.1	80.6	79.8	83	47	65
	C.D. (5%)	4.3	24.5	17.8	3.7	12.0	15.3	0.79	1.28	4.10	1.0	10.3	26.1
	C.V. (%)	2.3	9.1	5.1	4.2	12.6	10.7	0.67	0.87	2.00	0.8	12.0	15.7
	F (Prob.)	0.0	0.1	0.1	0.0	0.0	0.2	0.00	0.00	0.17	0.5	0.0	0.5



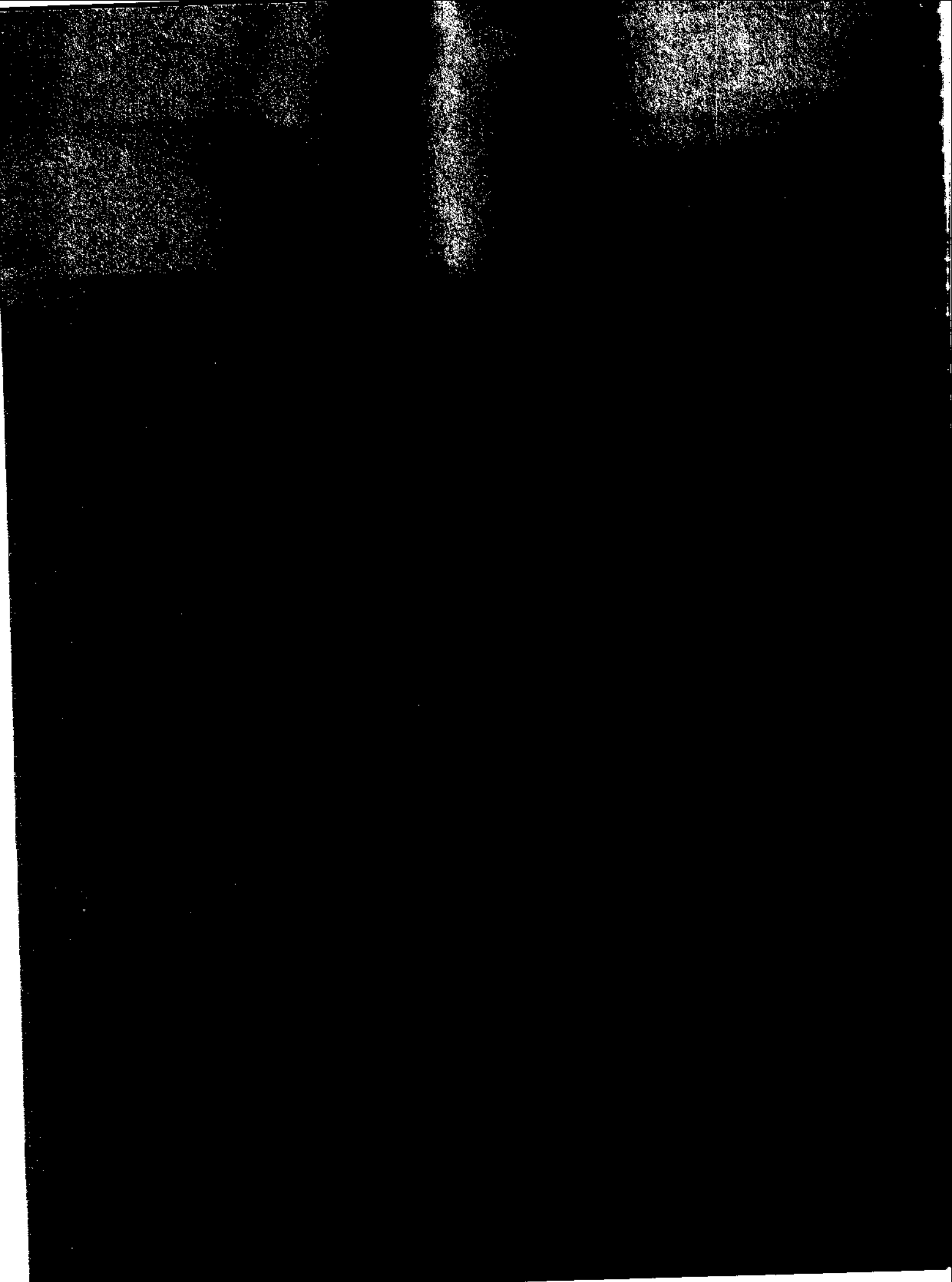


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BRIEF PROGRESS REPORT – 2009

OF

AGRONOMIC RESEARCH ON MAIZE SYSTEMS UNDER AICRP ON MAIZE

The salient achievements of co-ordinated agronomic trials conducted during *rabi* 2008-09 and *kharif* 2009 at different centres of AICRP on maize are summarized in this section. The trials were mainly focused on genotypic response to nutrients, tillage and crop establishment, crop geometry, nutrient management specially site-specific nutrient management (SSNM), integrated nutrient management (INM), in quality protein maize (QPM) and other specialty corn types (baby corn, sweet corn, pop corn), diversification/intensification in maize and maize based cropping system under different agro-ecologies.

1. Genotypic response to nutrients:

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 all the five zones. The (Table 1) summarizes the response of genotypes of different maturity groups in different agro-ecologies. Across the zones, the extra early and early genotypes responded to medium nutrient levels (150:65:65, N: P₂O₅: K₂O) at 16 of the 18 locations where as high nutrient levels (200:80:80, N: P₂O₅: K₂O), the response was recorded at 7 locations of the 19 locations. The medium maturity genotypes responded to medium nutrient levels at 17 of the 18 locations whereas the response to high nutrient levels was recorded at 11 of the 19 locations. The response of late maturity genotypes to medium nutrient levels was recorded at almost all the locations (6 of the 7) and at less than 20 % locations (1 of the 7), the response was recorded with high nutrient levels. Across genotypes and maturity groups, the response to medium nutrient level was recorded at 39 of the 43 locations whereas in high nutrient levels, it was recorded at less than 50 % locations (19 of the 45 locations). Across genotypes the response to high nutrient levels varied greatly between the zones and maximum response was recorded in Zone-II and lowest in Zone V.

Late maturity: Irrespective of the nutrient levels, among the late maturity genotype, the yield performance of MCH-36 was superior at Hyderabad, Karimnagar and Kolhapur (Zone IV), and performance of MDMH-101 was superior at Banswara and Godhra (Zone V) and X 6b 269 performed well at Udaipur (Zone V) compared to best checks while found inferior at

rest of centres. The performance of MDMH -101 genotype was found inferior compared to respective standard checks at Udaipur and Chhindwara (Zone V).

Medium maturity: In medium maturity group, the yield performance of BH-4062 at Kangra (zone I), Hyderabad and Kolhapur (zone IV), Bisco-111 and Kaveri-25K60 at Kolhapur (Zone IV), JH-31153 at Kanpur, Karnal, Ludhiana and Pantnagar (Zone II) and at Ambikapur, Baharaich, Ranchi and Varanasi (Zone III), CP-828 at Karnal, Ludhiana and Pantnagar (Zone II), KDMH-1001 at Kanpur, Karnal, Ludhiana and Pantnagar (Zone II), BISCO-555 at Delhi, Ludhiana, Karnal, Pantnagar and Kanpur (Zone II) and Godhara (Zone V), CP -838 at Ambikapur, Baharaich, Ranchi and Varanasi (Zone III) and BISCO-855 at Banswara, Godhra and Udaipur (Zone V) was found superior over best checks at the respective locations.

Early and extra early: Among the extra early and early maturing genotype under different nutrient levels, the yield performance of FH-3356 at Almora and Bajaura (zone I), FQH-35 at Almora and Bajaura (Zone I), Delhi, Pantnagar and Karnal (zone II), Kolhapur (zone IV), FH-3358 at Baharaich and Varanasi (zone III) and JH-31110 at Godhara and Udaipur (Zone V) were found superior over best checks at the respective locations.

2. Tillage management in maize systems:

The trials on different tillage, crop establishment, residue management, tillage x weed control practices and tillage x genotype interactions in different maize systems were conducted at Pantnagar, Udaipur, Banswara, Dholi and Delhi centres. The performance of different tillage and crop establishment techniques varied across locations but, the maize yield at most of the locations was on par in bed planting and conventional tillage practices in Kharif 2009. However, the performance of zero-tillage across the locations was non consistent as it recorded higher or equal yields at Dholi and Delhi but lower at Pantnagar compared to conventional tillage (Figure 1) . Interactions between maize genotypes and tillage & crop establishment techniques was recorded at Dholi and interactions between tillage and weed control practices at Udaipur. Under rice-maize system the rice yield with conventional tillage was on par compared to zero till at Dholi and Banswara while at Hyderabad yield was significantly higher with conventional tillage over to zero tillage. In rabi 2008-09 the maize yield in rice-maize system under conventional tillage was significantly higher compared to zero tillage and on par with permanent bed at Banswara.

3. Nutrient management in maize systems:

- A. **Site-Specific nutrient management (SSNM):** The trials on SSNM in 2 major maize systems i.e. maize-wheat at 8 locations (Delhi, Bajaura, Udhampur, Dholi, Ludhiana, Pantnagar, Banswara and Ranchi) and rice-maize at 4 locations (Jorhat, Banswara, Hyderabad and Dholi) were conducted during *Kharif* 2009. Significantly higher yield of maize was recorded under SSNM (Figure 2) compared to state recommendations almost at all the locations. Rice yield under SSNM was significantly higher compared to rest of all treatments at Hyderabad during *Kharif*-2009. During *Rabi*-2008-09, the wheat yield was significantly higher under SSNM over to other treatments at Ranchi and Pantnagar.
- B. **Integrated nutrient management (INM):** Studies of INM on quality protein maize (QPM) and other specialty corn (baby corn and sweet corn) were conducted at various locations involving varying levels of organic and inorganic sources of nutrients. Integration of FYM and 100 to 150% recommended doses of nutrients through chemical fertilizers resulted higher yields of QPM, baby corn and sweet corn at Arbhavi and Chhindwara and Srinagar. During *Rabi*-2008-09 the wheat yield under 150% RDF with FYM @ 10t/ha was higher over other treatments in respect of all cropping sequences i.e. sweet corn-wheat, baby corn-wheat and QPM-wheat at Arbhavi while mustard yield was higher under 150% RDF with FYM @ 6t/ha over all treatments in all cropping sequences at Chhindwara (Figure 3).
- C. **Nitrogen scheduling in maize:** Studies on N scheduling in maize were carried out at Arbhavi, Baharaich, Chhindwara and Srinagar. Results revealed that application of same dose of N in 5-splits (10 % Basal, 30 % at V4, 30 % at V8, 20 % at VT & 10 % at GF) resulted in remarkably higher grain yield and agronomic efficiency compared to 3-splits (33 % at basal, 33 % at V8 and 33 % at VT) at Baharaich and baby corn yield was significantly higher with the application of same dose of N in 5-splits (15 % Basal, 25 % at V4, 30 % at V8, 20 % at boot stage & 10 % at tasseling stage) over to 3-splits (33 % at basal, 33 % at V8 and 33 % at VT) during *Rabi*-2008-09 at Chhindwara. Similarly 5-splits (5 % Basal, 30 % at V4, 40 % at V8, 15 % at VT & 10 % at GF) resulted significantly higher maize yield over to 3-splits (33 % at basal, 33 % at V8 and 33 % at VT) at Arbhavi and application of N in 5-split (20% Basal, 25% V4, 30% V8, 20% VT & 5% GF) resulted significantly higher yield of QPM, sweet corn and pop corn over to 3-splits(33 % at basal, 33 % at V8 and 33 % at VT) at Srinagar during *Kharif* -2009.

4. Intercropping systems: Studies were conducted during winter 2008-09 at various AICRP centers as well as DMR New Delhi to evaluate the feasibility of intensification in

maize based systems through compatible and profitable intercropping systems. During Rabi season (at Banswara) paired row intercropping of maize resulted in significantly higher maize equivalent yield (MEY) compared to sole maize with maximum being under maize + Garlic (3:8) (Figure 4).

The baby corn hybrid (HM-4) based high value (beet root, peas, potato, coriander, fenugreek, radish, knolkhol) intercropping systems were evaluated with raised bed planting system at DMR, New Delhi during winter 2008-09. Results revealed that the baby corn yield under intercropping systems was comparable with sole baby corn. However, the net returns varied significantly under different cropping systems. The increase in profitability of intercropping systems was varied from Rs 146900 under baby corn+ pea, Rs 133750 under baby corn + potato, Rs 125700 under baby corn+ coriander, Rs 96500 under baby corn+ beetroot, and Rs 79950 under baby corn+ radish (Figure 6). The profitability of other systems was either at par or less than sole baby corn systems due to their non compatibility. Other than profitability, there was remarkable advantage on water productivity and employment generation under intercropping systems compared to sole cropping of baby corn or other winter crops.

A - 1

Table 1: Relative performance of pre-release germplasm of Full Season Maturity at different levels of nutrient during Kharif 2009 in Zone IV

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob Yield (Kg/ha)			
		Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad	Karimnagar	Kolhapur
100:50:50	MCH-36	7500	11786	6864	7917	9630	14465	8289
	BIO-9681	6389	9581	4456	6806	7407	10461	5303
	SEEDTEC-2324	6759	10443	5678	8472	8148	12418	6925
	HQPM-1	7130	11069	4333	8139	7870	11878	5281
	HQPM-7	7352	9046	4953	9222	9630	10215	5919
150:65:65	MCH-36	10074	13693	8222	7778	11463	14776	10011
	BIO-9681	7778	10181	6736	7778	8426	10915	8136
	SEEDTEC-2324	7685	12235	7639	6722	9074	13036	9242
	HQPM-1	7963	11279	6947	8417	9167	12735	8372
	HQPM-7	8611	10458	7358	8472	10370	11577	8861
200:80:80	MCH-36	10278	14347	8989	8556	10574	15973	10894
	BIO-9681	6944	10968	7103	7639	8611	12058	8619
	SEEDTEC-2324	7222	11832	8442	7333	8426	14018	10153
	HQPM-1	6944	11089	7406	8667	8796	12643	8889
	HQPM-7	8889	11263	8017	8000	10463	14521	9708

Location mean	7834.6	11284.6	6876.1	7994.4	9203.7	12779.3	8306.9
C.D.(5%) AiBj-AiBk	1487.0	1184.8	516.2	476.2	1650.4	612.6	664.5
C.D.(5%) AiBk-AjBk	1575.2	1312.2	620.0	543.2	1744.8	630.2	751.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.	s	n.s.

100:50:50	7026	10385	5257	8111	8537	11887	6343
150:65:65	8422	11569	7381	7833	9700	12608	8924
200:80:80	8056	11900	7991	8039	9374	13843	9653

C.D.(5%) Ai-Aj	867.3	782.3	423.4	345.5	956.1	315.1	470.8
C.V.(%) Error A	10.9	9.0	6.1	4.3	10.2	3.2	5.6
F(5%)	s	s	s	n.s.	n.s.	s	s

MCH-36	9284	13275	8025	8083	10556	15071	9731
BIO-9681	7037	10243	6098	7407	8148	11145	7353
SEEDTEC-2324	7222	11503	7253	7509	8549	13157	8773
HQPM-1	7346	11146	6229	8407	8611	12419	7514
HQPM-7	8284	10256	6776	8565	10154	12105	8163

C.D.(5%) Bi-Bj	858.5	684.0	298.0	275.0	952.9	353.7	383.7
C.V.(%) Error B	11.3	7.3	4.5	3.5	10.6	3.3	4.7
F(5%)	s	s	s	s	s	s	s

Cont....

A - 2

Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)			
		N Levels	Genotypes	Arbhavi	Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad
100:50:50	MCH-36		65.8	65.2	82.4	66.7	65.3	49.3	82.4
	BIO-9681		64.2	60.2	82.2	66.7	64.7	45.4	82.2
	SEEDTEC-2324		65.0	60.6	82.8	66.7	65.8	46.5	82.8
	HQPM-1		66.1	62.8	83.1	66.1	66.1	47.8	83.1
	HQPM-7		64.2	65.0	83.6	66.7	65.0	52.2	83.6
150:65:65	MCH-36		59.7	66.3	83.5	66.7	63.1	64.6	83.5
	BIO-9681		58.9	59.1	86.0	66.7	58.3	54.1	86.0
	SEEDTEC-2324		59.4	62.4	83.6	66.7	58.6	51.1	83.6
	HQPM-1		53.6	58.3	84.9	66.7	61.1	50.6	84.9
	HQPM-7		63.1	65.9	84.2	64.4	62.5	57.8	84.2
200:80:80	MCH-36		61.7	65.9	82.8	64.7	62.8	60.4	82.8
	BIO-9681		63.1	60.0	83.5	66.7	60.3	50.7	83.5
	SEEDTEC-2324		62.8	57.8	81.9	63.1	62.8	49.4	81.9
	HQPM-1		66.4	58.5	84.0	66.4	65.3	50.2	84.0
	HQPM-7		62.8	65.9	83.8	65.3	58.9	54.1	83.8

Location mean	62.4	62.3	83.5	66.0	62.7	52.3	83.5
C.D.(5%) AiBj-AiBk	6.2	4.1	2.3	2.5	5.5	4.4	2.3
C.D.(5%) AiBk-AjBk	7.9	4.6	2.6	3.6	5.7	5.6	2.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	65.1	62.7	82.8	66.6	65.4	48.2	82.8
150:65:65	58.9	62.4	84.4	66.2	60.7	55.6	84.4
200:80:80	63.3	61.6	83.2	65.2	62.0	53.0	83.2

C.D.(5%) Ai-Aj	5.7	2.9	1.6	2.8	3.1	4.1	1.6
C.V.(%) Error A	9.1	4.7	2.4	4.2	4.9	7.7	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	s	s	n.s.

MCH-36	62.4	65.8	82.9	66.0	63.7	58.1	82.9
BIO-9681	62.0	59.8	83.9	66.7	61.1	50.1	83.9
SEEDTEC-2324	62.4	60.2	82.8	65.5	62.4	49.0	82.8
HQPM-1	62.0	59.9	84.0	66.4	64.2	49.5	84.0
HQPM-7	63.3	65.6	83.8	65.5	62.1	54.7	83.8

C.D.(5%)Bi-Bj	3.6	2.3	1.3	1.5	3.2	2.5	1.3
C.V.(%)ErrorB	5.9	3.9	1.9	2.3	5.2	5.0	1.9
F(5%)	n.s.	s	n.s.	n.s.	n.s.	s	n.s.

Cont...

A - 3

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking	
		Arbhavi	Hyderabad	Karimnagar	Kolhapur	Hyderabad	Kolhapur
N Levels	Genotypes						
100:50:50	MCH-36	183.3	260.0	195.0	167.3	64.3	61.0
	BIO-9681	194.0	233.0	198.3	160.7	62.3	58.0
	SEEDTEC-2324	185.0	242.3	201.5	166.7	64.0	59.0
	HQPM-1	184.7	242.3	208.5	169.3	63.7	61.0
	HQPM-7	179.0	261.3	221.5	174.3	64.3	62.0
150:65:65	MCH-36	169.7	252.3	199.5	176.0	65.0	59.0
	BIO-9681	171.3	219.3	203.5	174.3	63.7	57.7
	SEEDTEC-2324	191.0	233.0	203.0	173.7	65.0	58.0
	HQPM-1	192.3	249.3	208.8	178.7	64.3	59.3
	HQPM-7	183.7	269.7	219.8	187.3	64.7	58.7
200:80:80	MCH-36	178.7	263.0	198.3	182.7	65.3	57.0
	BIO-9681	197.0	220.7	199.0	172.0	63.0	56.3
	SEEDTEC-2324	185.7	234.0	202.8	180.0	64.7	57.0
	HQPM-1	187.3	240.3	211.0	176.7	64.3	58.7
	HQPM-7	189.0	264.3	224.5	193.0	65.0	57.7

Location mean	184.8	245.7	206.3	175.5	64.2	58.7
C.D.(5%) AiBj-AiBk	11.2	14.4	5.9	8.6	2.2	1.7
C.D.(5%) AiBk-AjBk	10.3	18.4	6.2	9.5	2.2	1.9
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	185.2	247.8	205.0	167.7	63.7	60.2
150:65:65	181.6	244.7	206.9	178.0	64.5	58.5
200:80:80	187.5	244.5	207.1	180.9	64.5	57.3

C.D.(5%) Ai-Aj	2.6	13.3	3.2	5.8	1.0	1.2
C.V.(%) Error A	1.4	5.3	2.0	3.3	1.6	1.9
F(5%)	s	n.s.	n.s.	s	n.s.	s

MCH-36	177.2	258.4	197.6	175.3	64.9	59.0
BIO-9681	187.4	224.3	200.3	169.0	63.0	57.3
SEEDTEC-2324	187.2	236.4	202.4	173.4	64.6	58.0
HQPM-1	188.1	244.0	209.4	174.9	64.1	59.7
HQPM-7	183.9	265.1	221.9	184.9	64.7	59.4

C.D.(5%)Bi-Bj	6.5	8.3	3.4	4.9	1.2	1.0
C.V.(%)ErrorB	3.6	3.5	2.0	2.9	2.0	1.7
F(5%)	s	s	s	s	s	s

Cont....

A - 4

Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Ear Height (cm)	Moisture (%)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/ Cob	No. of Kernels/ Row
N Levels	Genotypes	Arbhavi						
100:50:50	MCH-36	4833	91.0	29.9	11.2	11.3	13.1	29.3
	BIO-9681	5194	98.3	23.2	11.1	11.1	13.2	29.4
	SEEDTEC-2324	4833	91.3	30.9	10.9	11.1	13.7	28.3
	HQPM-1	4750	89.3	28.3	11.2	11.1	13.8	28.4
	HQPM-7	5111	88.0	28.6	11.3	11.5	14.3	28.7
150:65:65	MCH-36	5306	83.0	29.1	11.3	11.9	14.9	30.9
	BIO-9681	5639	80.3	26.4	11.7	11.3	14.7	29.8
	SEEDTEC-2324	5083	82.0	29.9	11.7	11.5	15.2	28.8
	HQPM-1	4917	90.3	31.6	12.3	11.7	14.8	32.4
	HQPM-7	5222	83.0	28.8	11.7	11.3	14.8	31.1
200:80:80	MCH-36	5083	83.7	30.0	11.5	11.3	14.7	31.2
	BIO-9681	5222	91.3	24.6	11.4	11.6	14.2	30.8
	SEEDTEC-2324	4972	94.7	29.9	11.4	11.2	14.5	31.1
	HQPM-1	4944	98.3	27.8	11.6	11.5	14.3	30.3
	HQPM-7	4972	94.0	25.8	11.7	11.3	14.3	29.6

Location mean	5072.2	89.2	28.3	11.5	11.4	14.3	30.0
C.D.(5%) AiBj-AiBk	655.5	9.4	5.2	0.5	0.6	0.4	2.7
C.D.(5%) AiBk-AjBk	868.5	10.6	5.2	0.5	0.6	0.5	3.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	4944	91.6	28.2	11.2	11.2	13.6	28.8
150:65:65	5233	83.7	29.2	11.7	11.5	14.9	30.6
200:80:80	5039	92.4	27.6	11.5	11.4	14.4	30.6

C.D.(5%) Ai-Aj	653.6	6.6	2.4	0.2	0.2	0.3	2.5
C.V.(%) Error A	12.7	7.3	8.5	1.8	1.6	1.9	8.3
F(5%)	n.s.	s	n.s.	s	s	s	n.s.

MCH-36	5074	85.9	29.6	11.3	11.5	14.2	30.5
BIO-9681	5352	90.0	24.8	11.4	11.3	14.0	30.0
SEEDTEC-2324	4963	89.3	30.2	11.3	11.3	14.5	29.4
HQPM-1	4870	92.7	29.2	11.7	11.4	14.3	30.4
HQPM-7	5102	88.3	27.7	11.6	11.4	14.4	29.8

C.D.(5%) Bi-Bj	378.5	5.4	3.0	0.3	0.4	0.2	1.5
C.V.(%) Error B	7.7	6.3	10.8	2.4	3.2	1.8	5.3
F(5%)	n.s.	n.s.	s	s	n.s.	s	n.s.

Cont....

A - 5

Main Plot	Sub Plot	Test Weight (g) 100 Grain	Shelling (%)	Moisture (%)
N Levels	Genotypes	Arbhavi	Arbhavi	Karimnagar
100:50:50	MCH-36	47.3	82.5	13.5
	BIO-9681	49.3	82.8	12.0
	SEEDTEC-2324	45.7	82.8	13.5
	HQPM-1	44.0	83.4	12.9
	HQPM-7	44.0	83.6	12.9
150:65:65	MCH-36	50.0	83.2	12.2
	BIO-9681	51.3	82.2	12.4
	SEEDTEC-2324	55.3	82.1	11.8
	HQPM-1	53.7	83.4	12.4
	HQPM-7	52.7	83.4	13.1
200:80:80	MCH-36	52.7	83.3	12.5
	BIO-9681	55.7	83.3	12.6
	SEEDTEC-2324	58.0	83.6	13.5
	HQPM-1	54.0	83.6	13.0
	HQPM-7	42.0	83.3	14.3

Location mean	50.4	83.1	12.8
C.D.(5%) AiBj-AiBk	4.7	1.6	1.3
C.D.(5%) AiBk-AjBk	5.4	2.0	1.3
F(5%)	s	n.s.	n.s.

100:50:50	46.1	83.0	13.0
150:65:65	52.6	82.8	12.4
200:80:80	52.5	83.4	13.2

C.D.(5%) Ai-Aj	3.5	1.4	0.5
C.V.(%) Error A	6.8	1.6	5.5
F(5%)	s	n.s.	s

MCH-36	50.0	83.0	12.7
BIO-9681	52.1	82.8	12.4
SEEDTEC-2324	53.0	82.8	12.9
HQPM-1	50.6	83.5	12.8
HQPM-7	46.2	83.4	13.5

C.D.(5%)Bi-Bj	2.7	0.9	0.8
C.V.(%)ErrorB	5.5	1.1	7.2
F(5%)	s	n.s.	n.s.

A - 6

Table 2: Relative performance of pre-release germplasm of Full Season Maturity at different levels of nutrient during Kharif 2009 in Zone V

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)
		Banswara	Chhindwara	Godhra	Udaipur		
N Levels	Genotype						
100:50:50	X 6B 269	5922	4926	5144	4675	7878	7613
	MDMH-101	6583	4200	6544	4108	8333	9756
	BIO-9681	5439	3633	3944	3575	7322	5889
	SEEDTEC-2324	6000	3319	5556	2705	7667	8200
	HQPM-1	4944	3733	5367	2528	6528	7889
	HQPM-7	5317	4200	4711	3503	6750	6856
150:65:65	X 6B 269	6439	5963	6033	5310	8833	8933
	MDMH-101	6878	4720	7833	4220	8889	11667
	BIO-9681	5611	4848	5911	4020	7322	8756
	SEEDTEC-2324	6594	3967	6933	3110	8417	10333
	HQPM-1	5289	7752	6000	3208	6850	8911
	HQPM-7	5653	5265	5622	4000	7358	8311
200:80:80	X 6B 269	6756	6185	7122	5258	8900	10489
	MDMH-101	7194	7274	8456	4325	8978	12511
	BIO-9681	6178	5587	6467	4140	8139	9622
	SEEDTEC-2324	6900	5096	7451	3403	9150	11022
	HQPM-1	5544	8219	6600	3308	7194	9756
	HQPM-7	5644	6678	6122	4630	7767	9044

Location mean	6049.2	5309.2	6212.1	3890.1	7904.2	9197.7
C.D.(5%) AiBj-AiBk	968.6	1108.7	1185.8	518.5	1267.0	1661.2
C.D.(5%) AiBk-AjBk	1017.9	1574.9	1337.2	574.2	1360.5	1874.0
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

100:50:50	5701	4002	5211	3515	7413	7700
150:65:65	6077	5419	6389	3978	7945	9485
200:80:80	6369	6506	7036	4177	8355	10407

C.D.(5%) Ai-Aj	519.8	1230.8	807.1	328.9	737.9	1131.9
C.V.(%) Error A	9.3	25.1	14.0	12.0	10.1	13.3
F(5%)	n.s.	s	s	s	n.s.	s

X 6B 269	6372	5691	6100	5081	8537	9012
MDMH-101	6885	5398	7611	4218	8733	11311
BIO-9681	5743	4690	5441	3912	7594	8089
SEEDTEC-2324	6498	4127	6647	3073	8411	9852
HQPM-1	5259	6568	5989	3014	6857	8852
HQPM-7	5538	5381	5485	4044	7292	8070

C.D.(5%)Bi-Bj	559.2	640.1	684.6	299.4	731.5	959.1
C.V.(%)ErrorB	9.6	12.5	11.4	9.4	9.6	10.8
F(5%)	s	s	s	s	s	s

Cont...

A - 7

Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)		
		Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Udaipur
100:50:50	X 6B 269	62.5	64.8	61.3	60.0	58.9	62.2	61.3
	MDMH-101	65.3	62.6	65.1	58.0	67.2	58.1	60.0
	BIO-9681	57.8	64.4	59.6	62.0	56.7	59.3	56.0
	SEEDTEC-2324	65.3	64.4	57.1	58.5	59.2	53.0	44.7
	HQPM-1	61.1	71.1	58.9	58.7	48.9	57.8	54.8
	HQPM-7	61.7	61.5	58.9	58.7	57.2	54.8	55.3
150:65:65	X 6B 269	66.7	65.9	61.6	60.0	62.8	62.6	62.0
	MDMH-101	64.7	65.2	56.7	58.7	67.8	58.1	60.3
	BIO-9681	59.7	64.8	62.0	62.7	59.7	62.6	56.7
	SEEDTEC-2324	63.1	64.8	56.9	57.3	58.9	57.8	44.7
	HQPM-1	61.1	64.1	59.3	58.7	60.0	61.5	54.7
	HQPM-7	64.7	63.7	52.4	58.7	60.6	63.7	55.3
200:80:80	X 6B 269	65.8	66.7	59.6	59.0	66.4	63.7	62.7
	MDMH-101	66.1	66.7	62.4	58.0	65.3	61.1	61.3
	BIO-9681	64.7	65.9	58.9	62.0	61.1	62.6	57.3
	SEEDTEC-2324	65.8	65.9	56.4	58.5	68.3	63.0	44.7
	HQPM-1	61.7	65.2	57.1	58.0	56.7	61.9	54.7
	HQPM-7	61.7	64.8	58.0	58.7	58.6	65.2	56.0

Location mean	63.3	65.1	59.0	59.2	60.8	60.5	55.7
C.D.(5%) AiBj-AiBk	3.7	4.3	9.2	3.7	9.6	4.9	3.1
C.D.(5%) AiBk-AjBk	4.1	4.5	10.0	3.9	10.5	6.3	3.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	62.3	64.8	60.1	59.3	58.0	57.5	55.4
150:65:65	63.3	64.8	58.1	59.3	61.6	61.0	55.6
200:80:80	64.3	65.9	58.7	59.0	62.7	62.9	56.1

C.D.(5%) Ai-Aj	2.4	2.3	5.4	2.0	5.8	4.5	2.3
C.V.(%) Error A	4.1	3.8	10.0	4.7	10.4	8.1	5.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

X 6B 269	65.0	65.8	60.8	59.7	62.7	62.8	62.0
MDMH-101	65.4	64.8	61.4	58.2	66.8	59.1	60.6
BIO-9681	60.7	65.1	60.1	62.2	59.2	61.5	56.7
SEEDTEC-2324	64.7	65.1	56.8	58.1	62.1	57.9	44.7
HQPM-1	61.3	66.8	58.4	58.4	55.2	60.4	54.7
HQPM-7	62.7	63.3	56.4	58.7	58.8	61.2	55.6

C.D.(5%) Bi-Bj	2.1	2.5	5.3	2.2	5.6	2.8	1.8
C.V.(%) Error B	3.5	3.9	9.4	4.4	9.5	4.9	3.9
F(5%)	s	n.s.	n.s.	s	s	s	s

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A - 8

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	X 6B 269		230.0	188.7	198.3	254.0	75.3	59.3	63.7
	MDMH-101		210.0	174.0	188.3	214.5	77.3	60.0	60.7
	BIO-9681		208.3	176.0	176.7	207.5	75.0	60.3	59.7
	SEEDTEC-2324		201.7	173.7	189.7	213.0	75.3	56.0	60.0
	HQPM-1		192.7	185.7	176.7	201.0	77.3	60.7	65.3
	HQPM-7		233.3	193.7	191.7	207.0	77.3	60.7	62.7
150:65:65	X 6B 269		241.7	197.7	216.7	195.3	77.3	58.0	62.7
	MDMH-101		225.0	178.7	195.0	219.0	76.7	58.7	65.0
	BIO-9681		215.0	185.3	191.7	210.3	75.7	59.0	57.0
	SEEDTEC-2324		218.3	180.0	192.7	216.0	76.0	55.3	64.3
	HQPM-1		215.0	194.0	203.3	206.3	76.3	59.7	64.3
	HQPM-7		228.3	197.3	208.3	210.3	77.3	60.7	62.7
200:80:80	X 6B 269		254.0	199.3	220.3	259.0	78.0	57.0	62.3
	MDMH-101		221.7	191.7	214.0	219.5	76.0	58.7	57.7
	BIO-9681		220.0	196.3	211.7	210.3	77.0	56.3	55.3
	SEEDTEC-2324		220.0	185.3	206.7	215.5	79.3	55.0	63.3
	HQPM-1		222.0	195.3	208.3	208.0	79.0	56.7	63.0
	HQPM-7		235.7	197.3	213.3	210.0	78.0	57.7	62.3

Location mean	221.8	188.3	200.2	215.3	76.9	58.3	61.8
C.D.(5%) AiBj-AiBk	17.8	9.9	12.4	38.7	2.6	1.2	1.5
C.D.(5%) AiBk-AjBk	19.1	10.7	13.1	39.8	3.2	1.2	1.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	s

100:50:50	212.7	181.9	186.9	216.2	76.3	59.5	62.0
150:65:65	223.9	188.8	201.3	209.5	76.6	58.6	62.7
200:80:80	228.9	194.2	212.4	220.4	77.9	56.9	60.7

C.D.(5%) Ai-Aj	10.4	6.0	7.0	18.6	2.3	0.5	0.8
C.V.(%) Error A	5.1	3.4	3.8	12.2	3.2	0.9	1.3
F(5%)	s	s	s	n.s.	n.s.	s	s

X 6B 269	241.9	195.2	211.8	236.1	76.9	58.1	62.9
MDMH-101	218.9	181.4	199.1	217.7	76.7	59.1	61.1
BIO-9681	214.4	185.9	193.3	209.3	75.9	58.6	57.3
SEEDTEC-2324	213.3	179.7	196.3	214.8	76.9	55.4	62.6
HQPM-1	209.9	191.7	196.1	205.1	77.6	59.0	64.2
HQPM-7	232.4	196.1	204.4	209.1	77.6	59.7	62.6

C.D.(5%)Bi-Bj	10.3	5.7	7.1	22.3	1.5	0.7	0.9
C.V.(%)ErrorB	4.8	3.1	3.7	12.6	2.0	1.2	1.5
F(5%)	s	s	s	n.s.	n.s.	s	s

Cont...

Main Plot	Sub Plot	Shelling (%)	No. of PFSR affected Plant (000/ha)
N Levels	Genotype	Udaipur	Udaipur
100:50:50	X 6B 269	84.3	0.7
	MDMH-101	79.2	0.7
	BIO-9681	74.2	4.0
	SEEDTEC-2324	77.2	6.7
	HQPM-1	79.0	4.0
	HQPM-7	77.1	2.2
150:65:65	X 6B 269	85.2	1.3
	MDMH-101	80.4	1.7
	BIO-9681	76.5	5.3
	SEEDTEC-2324	78.1	8.0
	HQPM-1	79.7	4.7
	HQPM-7	78.0	2.0
200:80:80	X 6B 269	84.3	0.7
	MDMH-101	80.3	0.7
	BIO-9681	86.3	6.0
	SEEDTEC-2324	77.6	8.7
	HQPM-1	80.0	5.2
	HQPM-7	78.1	2.7

Location mean	79.7	3.6
C.D.(5%) AiBj-AiBk	4.6	1.4
C.D.(5%) AiBk-AjBk	5.1	1.4
F(5%)	s	n.s.

100:50:50	78.5	3.0
150:65:65	79.6	3.8
200:80:80	81.1	4.0

C.D.(5%) Ai-Aj	2.9	0.4
C.V.(%) Error A	5.2	17.6
F(5%)	n.s.	s

X 6B 269	84.6	0.9
MDMH-101	80.0	1.0
BIO-9681	79.0	5.1
SEEDTEC-2324	77.6	7.8
HQPM-1	79.5	4.6
HQPM-7	77.7	2.3

C.D.(5%)Bi-Bj	2.7	0.8
C.V.(%)ErrorB	4.1	27.5
F(5%)	s	s

A - 10

Table 3: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 In Zone I.

Main Plot	Sub Plot	Grain Yield (Kg/ha)		Cob Yield (Kg/ha)	Plant Stand ('000/ha)		No. of Cobs (000/ha)	
		Bajaura	Kangra	Kangra	Bajaura	Kangra	Bajaura	Kangra
N Levels	Genotypes							
100:50:50	BH-4062	8371	5971	8502	82.8	62.2	80.5	60.4
	HM-8	7917	5433	7736	81.4	58.9	76.9	57.1
	HM-9	8383	4953	7051	79.4	54.0	76.9	52.9
	HM-10	8093	5333	7591	81.1	58.2	78.9	57.3
150:65:65	BH-4062	9161	5802	8262	82.8	60.9	81.1	58.7
	HM-8	9129	5404	7696	83.1	58.0	76.9	56.4
	HM-9	9902	5224	7436	82.8	55.6	80.0	54.0
	HM-10	9925	5329	7584	80.6	56.4	78.9	55.1
200:80:80	BH-4062	9844	6020	8569	81.1	61.6	78.1	58.9
	HM-8	9793	5387	7669	82.5	56.9	80.6	56.0
	HM-9	11327	5227	7440	82.8	55.1	80.6	53.8
	HM-10	12241	5209	7416	81.7	55.6	79.7	54.0
Location mean		9507.3	5441.1	7745.9	81.8	57.8	79.1	56.2
C.D.(5%) AiBj-AiBk		791.9	637.2	906.8	2.8	3.8	3.7	3.8
C.D.(5%) AiBk-AjBk		819.6	764.3	1087.7	3.3	4.2	3.5	3.9
F(5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
100:50:50		8191	5423	7720	81.2	58.3	78.3	56.9
150:65:65		9529	5440	7744	82.3	57.7	79.2	56.1
200:80:80		10801	5461	7773	82.0	57.3	79.7	55.7
C.D.(5%) Ai-Aj		459.7	539.3	767.4	2.3	2.6	1.5	2.3
C.V.(%) Error A		4.3	8.7	8.7	2.5	4.0	1.6	3.6
F(5%)		s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
BH-4062		9125	5931	8444	82.2	61.6	79.9	59.3
HM-8		8946	5408	7700	82.3	57.9	78.1	56.5
HM-9		9871	5135	7309	81.7	54.9	79.2	53.6
HM-10		10086	5290	7530	81.1	56.7	79.2	55.5
C.D.(5%)Bi-Bj		457.2	367.9	523.5	1.6	2.2	2.1	2.2
C.V.(%)ErrorB		4.9	6.8	6.8	2.0	3.9	2.7	3.9
F(5%)		s	s	s	n.s.	s	n.s.	s

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A - 11

Main Plot	Sub Plot	Plant Height (cm)		Ear Height (cm)	Lodging Plants (000/ha)	Ear Length (cm)
		Bajaura	Kangra	Kangra	Kangra	Kangra
N Levels	Genotypes					
100:50:50	BH-4062	207.5	251.3	135.0	2.4	27.0
	HM-8	178.1	245.0	133.3	2.0	27.3
	HM-9	169.5	221.0	116.0	1.6	25.0
	HM-10	190.5	241.3	121.0	1.6	27.3
150:65:65	BH-4062	204.7	256.7	132.7	2.7	27.7
	HM-8	714.3	245.0	129.3	2.7	27.7
	HM-9	181.6	240.0	123.3	2.2	26.3
	HM-10	196.5	245.0	128.7	2.4	27.0
200:80:80	BH-4062	184.5	263.3	140.3	2.7	28.0
	HM-8	162.9	257.3	135.3	2.7	28.0
	HM-9	176.5	236.7	130.0	2.4	26.0
	HM-10	218.1	254.7	131.3	2.2	27.7

Location mean	232.1	246.4	129.7	2.3	27.1
C.D.(5%) AiBj-AiBk	459.4	28.2	17.7	1.3	2.1
C.D.(5%) AiBk-AjBk	499.0	26.2	19.1	1.3	3.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	186.4	239.7	126.3	1.9	26.7
150:65:65	324.3	246.7	128.5	2.5	27.2
200:80:80	185.5	253.0	134.3	2.5	27.4

C.D.(5%) Ai-Aj	308.0	9.8	11.6	0.8	2.9
C.V.(%) Error A	117.1	3.5	7.9	30.6	9.4
F(5%)	n.s.	s	n.s.	n.s.	n.s.

BH-4062	198.9	257.1	136.0	2.6	27.6
HM-8	351.8	249.1	132.7	2.4	27.7
HM-9	175.9	232.6	123.1	2.1	25.8
HM-10	201.7	247.0	127.0	2.1	27.3

C.D.(5%) Bi-Bj	265.3	16.3	10.2	0.7	1.2
C.V.(%) Error B	115.4	6.7	8.0	32.1	4.4
F(5%)	n.s.	s	n.s.	n.s.	s

A - 12

Table 4: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone II

Main Plot	Sub Plot	Grain Yield (Kg/ha)					Cob Yield (Kg/ha)	Stover Yield (Kg/ha)
		Delhi	Kanpur	Karnaf	Ludhiana	Pantnagar		
N Level	Germplasm	Delhi	Kanpur	Karnaf	Ludhiana	Pantnagar	Pantnagar	Delhi
100:50:50	JH-31153	4056	7000	4103	5403	7546	9907	7000
	CP- 828	3833	5917	4560	5288	6389	11574	5833
	KDMH-1001	4500	7167	4400	5205	6574	10787	7833
	BISCO-111	4222	7000	4617	5670	6806	10324	8667
	BISCO-555	4778	7583	4630	5993	5972	9074	7778
	HM-8	4278	6972	4193	4618	5602	9537	10333
	HM-9	2833	6806	4133	4736	4306	6528	7778
150:65:65	HM-10	3000	7042	2973	4664	4167	6713	7778
	JH-31153	5000	7222	4370	6216	7176	11713	8444
	CP- 828	4889	6194	5263	5878	7037	11806	7167
	KDMH-1001	5333	7167	4983	5854	8241	13472	9000
	BISCO-111	5333	7639	5113	6112	7176	11852	9944
	BISCO-555	5833	8417	5453	6724	7083	10741	9111
	HM-8	5500	7222	5000	5135	5972	10139	11667
200:80:80	HM-9	3667	6778	4460	5326	5602	8426	9111
	HM-10	3889	7000	3703	5278	4491	7176	9167
	JH-31153	5667	7583	4733	6388	8611	11759	9389
	CP- 828	5333	6500	6320	5896	7269	14259	8167
	KDMH-1001	5833	7611	5073	5961	8704	13750	10111
	BISCO-111	5889	7611	6027	6117	7500	12407	11000
	BISCO-555	6167	8403	6743	6852	7778	12083	10167
HM-8	5944	7333	5263	5207	6204	10463	12556	
HM-9	4444	7153	5513	5476	7083	8102	10000	
HM-10	4556	7583	3767	5351	5463	8657	10222.2	

Location mean	4782.4	7204.3	4808.2	5639.5	6614.6	10468.8	9092.6
C.D.(5%) AiBj-AiBk	573.6	162.4	789.4	720.1	1808.7	2405.7	271.2
C.D.(5%) AiBk-AjBk	556.4	190.2	792.7	736.7	1762.2	2713.5	258.2
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	3938	6936	4201	5197	5920	9306	7875
150:65:65	4931	7205	4793	5815	6597	10666	9201
200:80:80	5479	7472	5430	5906	7326	11435	10201

C.D.(5%) Ai-Aj	152.6	117.7	298.7	308.9	511.3	1563.2	49.8
C.V.(%) Error A	4.0	2.0	7.8	6.8	9.6	18.6	0.7
F(5%)	s	s	s	s	s	s	s

JH-31153	4907	7269	4402	6002	7778	11127	8278
CP- 828	4685	6204	5381	5688	6898	12546	7056
KDMH-1001	5222	7315	4819	5673	7840	12670	8981
BISCO-111	5148	7417	5252	5966	7160	11528	9870
BISCO-555	5593	8134	5609	6523	6944	10633	9019
HM-8	5241	7176	4819	4987	5926	10046	11519
HM-9	3648	6912	4702	5179	5664	7685	8963
HM-10	3815	7208	3481	5098	4707	7515	9056

C.D.(5%)Bi-Bj	331.2	93.8	455.8	415.8	1044.2	1388.9	156.6
C.V.(%)ErrorB	7.3	1.4	10.0	7.7	16.6	13.9	1.8
F(5%)	s	s	s	s	s	s	s

Cont...

A - 13

Main Plot	Sub Plot	Plant Stand (000/ha)				
		Delhi	Kanpur	Karnal	Ludhiana	Pantnagar
100:50:50	JH-31153	66.1	53.3	66.7	81.9	63.9
	CP- 828	66.1	51.9	73.3	80.9	61.1
	KDMH-1001	66.1	53.6	72.0	82.6	59.3
	BISCO-111	66.7	52.8	73.0	81.6	64.8
	BISCO-555	66.7	54.7	69.0	80.9	60.2
	HM-8	66.7	55.0	70.0	83.0	60.2
	HM-9	66.7	52.8	73.3	77.8	62.0
	HM-10	66.1	54.2	67.3	82.3	60.2
150:65:65	JH-31153	66.1	54.2	68.3	81.3	66.7
	CP- 828	66.7	52.8	74.0	79.5	62.0
	KDMH-1001	66.7	56.1	75.3	83.3	66.7
	BISCO-111	66.1	55.6	71.3	82.6	66.7
	BISCO-555	66.7	59.7	68.0	83.3	64.8
	HM-8	66.7	56.7	74.0	82.3	62.0
	HM-9	66.1	55.0	73.0	82.6	65.7
	HM-10	66.7	54.4	71.0	78.8	63.0
200:80:80	JH-31153	66.1	57.5	70.0	76.0	64.8
	CP- 828	66.7	54.7	74.0	80.9	65.7
	KDMH-1001	66.7	56.4	71.0	79.2	63.0
	BISCO-111	66.1	55.6	71.7	82.3	64.8
	BISCO-555	66.7	60.6	74.0	82.6	65.7
	HM-8	66.1	55.0	75.3	81.9	63.9
	HM-9	66.7	55.3	75.0	81.6	66.7
	HM-10	66.7	56.4	71.0	81.9	63.0

Location mean	66.4	55.2	71.7	81.3	63.6
C.D.(5%) AiBj-AiBk	1.0	2.0	6.8	5.0	7.9
C.D.(5%) AiBk-AjBk	1.1	2.0	12.2	5.6	8.0
F(5%)	n.s.	s	n.s.	n.s.	n.s.

100:50:50	66.4	53.5	70.6	81.4	61.5
150:65:65	66.5	55.6	71.9	81.7	64.7
200:80:80	66.5	56.4	72.8	80.8	64.7

C.D.(5%) Ai-Aj	0.5	0.8	10.6	3.2	3.3
C.V.(%) Error A	1.0	1.9	18.4	4.9	6.4
F(5%)	n.s.	s	n.s.	n.s.	n.s.

JH-31153	66.1	55.0	68.3	79.7	65.1
CP- 828	66.5	53.1	73.8	80.4	63.0
KDMH-1001	66.5	55.4	72.8	81.7	63.0
BISCO-111	66.3	54.6	72.0	82.2	65.4
BISCO-555	66.7	58.3	70.3	82.3	63.6
HM-8	66.5	55.6	73.1	82.4	62.0
HM-9	66.5	54.4	73.8	80.7	64.8
HM-10	66.5	55.0	69.8	81.0	62.0

C.D.(5%)Bi-Bj	0.6	1.2	3.9	2.9	4.5
C.V.(%)ErrorB	0.9	2.2	5.8	3.7	7.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.

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A - 14

Main Plot	Sub Plot	No. of Cobs (000/ha)			Days to 50% Tasseling			
		N Level	Germplasm	Delhi	Ludhiana	Pantnagar	Karnal	Ludhiana
100:50:50	JH-31153		66.1	79.5	73.1	57.0	56.3	51.0
	CP- 828		66.1	79.9	61.1	61.0	57.3	52.7
	KDMH-1001		66.1	83.0	63.9	59.0	57.3	52.0
	BISCO-111		66.7	83.3	67.6	59.7	59.7	52.3
	BISCO-555		66.7	83.7	61.1	58.0	56.7	51.3
	HM-8		66.7	83.0	62.0	59.0	58.7	53.7
	HM-9		65.6	81.9	64.8	59.3	56.3	51.7
	HM-10		65.6	79.9	62.0	60.0	59.3	52.7
150:65:65	JH-31153		66.7	83.0	75.0	56.0	53.3	50.7
	CP- 828		66.1	81.6	62.0	57.7	57.0	54.3
	KDMH-1001		66.1	84.0	75.9	57.0	55.3	53.3
	BISCO-111		66.7	84.7	69.4	59.0	55.7	52.7
	BISCO-555		66.1	84.7	64.8	59.7	56.0	53.0
	HM-8		66.1	84.7	64.8	57.0	55.7	54.0
	HM-9		65.6	84.7	67.6	59.0	54.7	52.3
	HM-10		66.7	82.3	63.9	58.3	57.7	51.3
200:80:80	JH-31153		66.7	83.3	78.7	57.7	52.0	50.7
	CP- 828		65.6	83.3	75.0	58.0	55.7	53.3
	KDMH-1001		66.1	84.7	76.9	59.0	54.3	51.3
	BISCO-111		66.7	84.7	70.4	60.0	56.0	53.3
	BISCO-555		66.7	85.8	66.7	58.0	55.0	53.0
	HM-8		66.7	85.4	65.7	59.0	54.7	53.3
	HM-9		66.7	86.1	67.6	61.0	53.7	52.0
	HM-10		66.1	85.1	65.7	60.0	57.3	52.7

Location mean	66.3	83.4	67.7	58.7	56.1	52.4
C.D.(5%) AiBj-AiBk	1.2	6.1	11.5	1.5	1.9	2.5
C.D.(5%) AiBk-AjBk	1.1	6.5	11.3	1.6	2.6	3.3
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:50:50	66.2	81.8	64.5	59.1	57.7	52.2
150:65:65	66.3	83.7	67.9	58.0	55.7	52.7
200:80:80	66.4	84.8	70.8	59.1	54.8	52.5

C.D.(5%) Ai-Aj	0.3	3.3	3.5	0.7	1.9	2.3
C.V.(%) Error A	0.6	4.9	6.4	1.5	4.3	5.6
F(5%)	n.s.	n.s.	s	s	s	n.s.

JH-31153	66.5	81.9	75.6	56.9	53.9	50.8
CP- 828	65.9	81.6	66.0	58.9	56.7	53.4
KDMH-1001	66.1	83.9	72.2	58.3	55.7	52.2
BISCO-111	66.7	84.3	69.1	59.6	57.1	52.8
BISCO-555	66.5	84.7	64.2	58.6	55.9	52.4
HM-8	66.5	84.4	64.2	58.3	56.3	53.7
HM-9	65.9	84.3	66.7	59.8	54.9	52.0
HM-10	66.1	82.4	63.9	59.4	58.1	52.2

C.D.(5%)Bi-Bj	0.7	3.5	6.7	0.9	1.1	1.4
C.V.(%)ErrorB	1.1	4.4	10.3	1.6	2.1	2.9
F(5%)	n.s.	n.s.	s	s	s	s

Cont...

A - 15

Main Plot	Sub Plot	Days to 50% Silking				Days to 75% Husk	Moisture (%)
		Kanpur	Karnal	Ludhiana	Pantnagar		
N Level	Germplasm	Kanpur	Karnal	Ludhiana	Pantnagar	Ludhiana	Pantnagar
100:50:50	JH-31153	75.7	59.0	59.0	55.3	92.0	25.0
	CP- 828	81.3	63.0	60.3	56.7	94.0	25.7
	KDMH-1001	76.0	61.3	60.0	56.0	93.7	24.7
	BISCO-111	81.7	61.7	62.7	56.0	97.0	25.3
	BISCO-555	80.0	60.0	58.7	55.7	92.7	25.7
	HM-8	77.3	61.0	61.3	58.0	95.3	25.7
	HM-9	75.0	61.3	59.3	56.0	93.0	25.7
	HM-10	82.3	62.0	63.0	56.7	100.0	25.7
150:65:65	JH-31153	76.0	58.0	56.0	54.7	92.0	25.7
	CP- 828	80.3	60.0	59.7	58.3	97.7	26.3
	KDMH-1001	76.0	59.3	58.3	57.7	90.3	26.3
	BISCO-111	77.7	61.0	59.0	56.7	95.7	24.7
	BISCO-555	75.7	62.0	58.0	57.0	91.0	25.0
	HM-8	75.0	59.0	58.0	58.0	92.0	25.3
	HM-9	75.7	61.0	57.0	56.3	91.0	25.3
	HM-10	77.7	60.3	60.3	55.3	98.0	24.7
200:80:80	JH-31153	74.3	59.7	54.3	54.7	89.3	25.7
	CP- 828	76.0	60.0	58.3	57.3	93.0	25.0
	KDMH-1001	74.0	61.0	57.0	55.3	90.0	25.0
	BISCO-111	80.3	62.0	59.0	57.3	93.7	24.7
	BISCO-555	75.3	60.0	57.3	57.0	89.3	25.3
	HM-8	73.0	61.0	56.7	57.3	88.3	25.0
	HM-9	76.0	63.0	55.7	56.0	89.0	26.0
	HM-10	77.0	62.0	60.0	56.3	95.7	25.7

Location mean	77.1	60.8	58.7	56.5	93.1	25.4
C.D.(5%) AiBj-AiBk	2.3	1.5	1.9	2.5	3.8	1.7
C.D.(5%) AiBk-AjBk	2.5	1.6	3.5	3.2	5.0	1.8
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.

100:50:50	78.7	61.2	60.5	56.3	94.7	25.4
150:65:65	76.8	60.1	58.3	56.8	93.5	25.4
200:80:80	75.8	61.1	57.3	56.4	91.0	25.3

C.D.(5%) Ai-Aj	1.2	0.7	3.1	2.1	3.7	0.9
C.V.(%) Error A	2.0	1.4	6.5	4.7	4.9	4.3
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.

JH-31153	75.3	58.9	56.4	54.9	91.1	25.4
CP- 828	79.2	61.0	59.4	57.4	94.9	25.7
KDMH-1001	75.3	60.6	58.4	56.3	91.3	25.3
BISCO-111	79.9	61.6	60.2	56.7	95.4	24.9
BISCO-555	77.0	60.7	58.0	56.6	91.0	25.3
HM-8	75.1	60.3	58.7	57.8	91.9	25.3
HM-9	75.6	61.8	57.3	56.1	91.0	25.7
HM-10	79.0	61.4	61.1	56.1	97.9	25.3

C.D.(5%)Bi-Bj	1.3	0.9	1.1	1.5	2.2	1.0
C.V.(%)ErrorB	1.8	1.5	2.0	2.7	2.5	4.1
F(5%)	s	s	s	s	s	n.s.

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A - 16

Main Plot	Sub Plot	Plant Height (cm)				Ear Height (cm)
		Delhi	Kanpur	Ludhiana	Pantnagar	Ludhiana
N Level	Germplasm					
100:50:50	JH-31153	162.0	175.0	165.3	245.3	79.0
	CP- 828	160.7	168.0	162.0	230.3	72.3
	KDMH-1001	171.3	178.3	175.0	228.0	66.7
	BISCO-111	151.0	176.3	167.7	215.3	81.0
	BISCO-555	162.3	182.3	196.7	239.0	100.0
	HM-8	154.0	179.0	159.7	197.3	72.3
	HM-9	148.0	177.0	159.3	209.3	76.0
	HM-10	155.7	178.3	184.3	224.7	88.3
150:65:65	JH-31153	170.7	170.3	176.7	237.3	81.7
	CP- 828	169.0	170.7	181.0	241.3	77.7
	KDMH-1001	179.7	176.7	179.3	237.3	73.3
	BISCO-111	158.3	175.7	171.0	227.7	86.7
	BISCO-555	170.3	181.7	198.3	248.3	101.0
	HM-8	163.7	178.7	161.3	215.3	80.0
	HM-9	155.7	177.0	166.0	224.3	77.7
	HM-10	163.7	179.3	193.3	238.7	93.3
200:80:80	JH-31153	176.7	172.7	178.3	243.0	83.3
	CP- 828	174.3	173.3	182.7	248.0	87.3
	KDMH-1001	185.3	176.0	180.7	252.0	75.7
	BISCO-111	164.0	179.0	170.7	234.7	87.3
	BISCO-555	176.7	181.7	200.7	253.0	102.0
	HM-8	170.0	181.3	169.0	221.7	83.3
	HM-9	161.7	181.3	174.7	231.3	84.0
	HM-10	170.0	183.3	193.7	245.7	94.0

Location mean	165.6	177.2	177.0	232.9	83.5
C.D.(5%) AiBj-AiBk	2.5	3.4	8.3	28.8	8.1
C.D.(5%) AiBk-AjBk	2.4	3.6	8.9	36.4	8.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.

100:50:50	158.1	176.8	171.3	223.7	79.5
150:65:65	166.4	176.3	178.4	233.8	83.9
200:80:80	172.3	178.6	181.3	241.2	87.1

C.D.(5%) Ai-Aj	0.7	1.8	4.5	25.1	4.0
C.V.(%) Error A	0.5	1.3	3.2	13.5	6.0
F(5%)	s	n.s.	s	n.s.	s

JH-31153	173.4	169.8	241.9	172.7	81.3
CP- 828	175.2	168.0	239.9	170.7	79.1
KDMH-1001	178.3	178.8	239.1	177.0	71.9
BISCO-111	169.8	157.8	225.9	177.0	85.0
BISCO-555	198.6	169.8	246.8	181.9	101.0
HM-8	163.3	162.6	211.4	179.7	78.6
HM-9	166.7	155.1	221.7	178.4	79.2
HM-10	190.4	163.1	236.3	180.3	91.9

C.D.(5%)Bi-Bj	4.8	1.5	16.6	1.9	4.6
C.V.(%)ErrorB	2.8	0.9	7.5	1.2	5.9
F(5%)	s	s	s	s	s

Cont...

A - 17

Main Plot	Sub Plot	Cob Length (cm)		Cob Girth (cm)	
		Ludhiana	Pantnagar	Ludhiana	Pantnagar
N Level	Germplasm				
100:50:50	JH-31153	16.1	14.4	4.2	13.5
	CP- 828	18.1	15.6	4.1	13.1
	KDMH-1001	16.1	14.9	4.2	12.8
	BISCO-111	18.8	17.1	4.1	13.1
	BISCO-555	14.6	15.1	4.2	14.1
	HM-8	14.5	15.7	3.9	13.0
	HM-9	15.4	13.9	4.0	12.8
	HM-10	16.4	13.4	3.9	11.6
150:65:65	JH-31153	16.1	16.1	4.2	14.2
	CP- 828	18.9	16.7	4.1	13.2
	KDMH-1001	16.1	15.5	4.3	13.5
	BISCO-111	19.0	17.3	4.1	13.5
	BISCO-555	15.2	17.2	4.3	10.5
	HM-8	15.8	16.4	4.0	13.5
	HM-9	16.5	16.4	4.2	13.6
	HM-10	16.5	16.2	3.9	13.1
200:80:80	JH-31153	17.1	16.4	4.2	14.3
	CP- 828	19.2	17.8	4.2	13.2
	KDMH-1001	16.3	15.5	4.3	13.7
	BISCO-111	19.5	17.5	4.3	13.7
	BISCO-555	17.6	17.5	4.4	14.7
	HM-8	16.2	17.0	4.2	13.5
	HM-9	17.6	16.7	4.2	14.2
	HM-10	17.1	17.0	4.1	13.4

Location mean	16.9	16.1	4.2	13.3
C.D.(5%) AiBj-AiBk	1.0	1.8	0.3	2.8
C.D.(5%) AiBk-AjBk	1.2	1.7	0.3	3.2
F(5%)	s	n.s.	n.s.	n.s.

100:50:50	16.2	15.0	4.1	13.0
150:65:65	16.8	16.5	4.1	13.1
200:80:80	17.6	16.9	4.2	13.8

C.D.(5%) Ai-Aj	0.6	0.3	0.1	1.9
C.V.(%) Error A	4.7	2.2	2.8	17.7
F(5%)	s	s	s	n.s.

JH-31153	16.5	15.6	4.2	14.0
CP- 828	18.7	16.7	4.2	13.2
KDMH-1001	16.2	15.3	4.3	13.3
BISCO-111	19.1	17.3	4.2	13.5
BISCO-555	15.8	16.6	4.3	13.1
HM-8	15.5	16.4	4.1	13.3
HM-9	16.5	15.7	4.1	13.5
HM-10	16.7	15.5	4.0	12.7

C.D.(5%)Bi-Bj	0.6	1.0	0.2	1.6
C.V.(%)ErrorB	3.8	6.8	4.8	12.9
F(5%)	s	s	s	n.s.

A - 18

Table 5: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone III

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)			Fodder Yield (Kg/ha)
		Ambikapur	Bahraich	Ranchi	Varanasi	Ambikapur	Dholi	Ranchi	Ranchi
N Levels	Germplasm								
100:50:50	JH- 31153	6100	3458	4352	7556	7489	3778	5270	5556
	BISCO-111	6244	3125	4414	6926	7567	3022	5365	4956
	CP- 838	5767	3431	4195	9481	7111	3133	5072	6400
	HM-8	4767	3056	4122	7444	6167	2644	5029	7533
	HM-9	3900	3083	3361	7556	4967	2600	4157	6667
	HM-10	4556	3229	3518	6556	5767	2733	4347	5667
150:65:65	JH- 31153	6922	4778	5563	9111	8178	5578	6673	9044
	BISCO-111	7033	4556	5521	7481	8622	3756	6688	7222
	CP- 838	6389	4882	5011	10444	7878	4667	6073	6778
	HM-8	5222	4708	4786	8222	6811	3689	5806	5778
	HM-9	4367	4333	4505	8778	5433	3022	5472	6378
	HM-10	5378	4556	4740	7259	6567	3578	5755	8022
200:80:80	JH- 31153	7278	6438	5978	8889	8456	5911	7129	7156
	BISCO-111	7244	5896	6169	8667	8778	5400	7382	8178
	CP- 838	7522	6556	5542	10852	9089	5467	6686	9200
	HM-8	5556	5681	4648	8148	6700	4022	5696	5022
	HM-9	5678	6181	4672	8519	7044	3689	5669	6733
	HM-10	5900	5722	5377	7074	7400	4889	6518	9867

Location mean	5879.0	4648.1	4804.1	8275.7	7212.3	3976.5	5821.4	7008.6
C.D.(5%) AiBj-AiBk	976.0	484.5	917.8	1351.8	1206.4	774.0	994.8	1138.9
C.D.(5%) AiBk-AjBk	983.3	641.2	996.6	1392.3	1175.8	793.9	1153.4	1757.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

100:50:50	5222	3230	3994	7586	6511	2985	4873	6130
150:65:65	5885	4635	5021	8549	7215	4048	6078	7204
200:80:80	6530	6079	5398	8691	7911	4896	6513	7693

C.D.(5%) Ai-Aj	429.4	474.5	555.6	665.1	425.9	373.5	730.3	1442.2
C.V.(%) Error A	7.9	11.0	12.5	8.7	6.4	10.2	13.6	22.2
F(5%)	s	s	s	s	s	s	s	n.s.

JH- 31153	6767	4891	5298	8519	8041	5089	6357	7252
BISCO-111	6841	4525	5368	7691	8322	4059	6478	6785
CP- 838	6559	4956	4916	10259	8026	4422	5944	7459
HM-8	5181	4481	4519	7938	6493	3452	5510	6111
HM-9	4648	4532	4179	8284	5815	3104	5099	6593
HM-10	5278	4502	4545	6963	6578	3733	5540	7852

C.D.(5%)Bi-Bj	563.5	279.7	529.9	780.4	696.5	446.9	574.3	657.6
C.V.(%)ErrorB	10.0	6.3	11.5	9.8	10.0	11.7	10.2	9.7
F(5%)	s	s	s	s	s	s	s	s

Cont....

A - 19

Main Plot	Sub Plot	No. of Plant (000/ha)				
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi
N Levels	Germplasm					
100:50:50	JH- 31153	78.8	80.6	61.8	65.1	66.7
	BISCO-111	79.3	81.3	60.7	64.2	66.7
	CP- 828	77.8	81.3	58.2	66.7	66.7
	HM-8	74.4	79.9	59.6	65.6	65.9
	HM-9	81.6	79.9	62.2	63.6	66.3
	HM-10	79.9	81.3	61.3	60.9	66.7
150:65:65	JH- 31153	76.9	77.1	62.2	62.2	66.7
	BISCO-111	79.9	82.6	60.4	66.0	66.7
	CP- 828	73.4	79.2	59.3	67.8	66.7
	HM-8	74.0	81.3	60.0	61.8	64.1
	HM-9	80.2	78.5	60.9	62.0	66.7
	HM-10	81.1	80.6	61.8	64.9	66.7
200:80:80	JH- 31153	78.4	73.6	62.7	63.1	66.3
	BISCO-111	73.4	81.3	61.1	60.7	66.7
	CP- 828	75.8	78.5	59.8	59.6	66.3
	HM-8	78.7	79.2	60.2	64.0	65.6
	HM-9	76.2	81.3	61.3	65.1	66.7
	HM-10	79.0	78.5	60.0	66.7	66.7

Location mean	77.7	79.7	60.8	63.9	66.4
C.D.(5%) AiBj-AiBk	7.4	4.5	5.0	4.1	1.7
C.D.(5%) AiBk-AjBk	7.2	4.5	5.1	4.3	1.9
F(5%)	n.s.	n.s.	n.s.	s	n.s.

100:50:50	78.6	80.7	60.6	64.3	66.5
150:65:65	77.6	79.9	60.8	64.1	66.2
200:80:80	76.9	78.7	60.9	63.2	66.4

C.D.(5%) Ai-Aj	2.7	2.0	2.4	2.2	1.1
C.V.(%) Error A	3.7	2.7	4.2	3.8	1.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

JH- 31153	78.0	77.1	62.2	63.5	66.5
BISCO-111	77.6	81.7	60.7	63.6	66.7
CP- 828	75.7	79.6	59.1	64.7	66.5
HM-8	75.7	80.1	59.9	63.8	65.2
HM-9	79.3	79.9	61.5	63.6	66.5
HM-10	80.0	80.1	61.0	64.1	66.7

C.D.(5%)Bi-Bj	4.3	2.6	2.9	2.3	1.0
C.V.(%)ErrorB	5.7	3.4	4.9	3.8	1.6
F(5%)	n.s.	s	n.s.	n.s.	s

Cont....

A - 20

Main Plot	Sub Plot	No. of Cobs (000/ha)				
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi
N Levels	Germplasm					
100:50:50	JH- 31153	76.0	79.9	59.8	60.7	66.7
	BISCO-111	78.1	81.3	57.8	59.8	65.9
	CP- 828	75.9	81.3	53.3	62.0	66.3
	HM-8	72.0	79.9	55.8	60.9	66.7
	HM-9	79.0	79.9	58.0	59.1	66.7
	HM-10	78.1	81.3	55.1	56.9	66.7
150:65:65	JH- 31153	75.4	77.8	61.1	58.2	66.3
	BISCO-111	78.2	82.6	58.0	61.8	65.9
	CP- 828	72.3	79.2	56.0	63.8	65.6
	HM-8	72.4	81.3	57.1	58.0	64.4
	HM-9	78.2	78.5	58.4	58.4	66.7
	HM-10	78.1	80.6	60.2	60.9	66.7
200:80:80	JH- 31153	77.9	73.6	59.3	59.8	65.6
	BISCO-111	72.1	81.3	58.2	57.8	65.9
	CP- 828	74.6	78.5	59.8	56.4	66.3
	HM-8	77.4	79.2	60.4	60.7	65.6
	HM-9	74.7	80.6	60.9	61.6	65.9
	HM-10	77.6	79.2	62.2	63.1	66.3

Location mean	76.0	79.7	58.4	60.0	66.1
C.D.(5%) AiBj-AiBk	7.7	4.8	4.7	5.1	1.7
C.D.(5%) AiBk-AjBk	7.4	4.5	4.9	4.9	2.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.

100:50:50	76.5	80.6	56.6	59.9	66.5
150:65:65	75.8	80.0	58.5	60.2	65.9
200:80:80	75.7	78.7	60.1	59.9	65.9

C.D.(5%) Ai-Aj	2.5	1.3	2.5	1.8	1.4
C.V.(%) Error A	3.5	1.7	4.6	3.2	2.3
F(5%)	n.s.	s	s	n.s.	n.s.

JH- 31153	76.4	77.1	60.1	59.6	66.2
BISCO-111	76.1	81.7	58.0	59.8	65.9
CP- 828	74.3	79.6	56.4	60.7	66.0
HM-8	74.0	80.1	57.8	59.9	65.6
HM-9	77.3	79.6	59.1	59.7	66.4
HM-10	77.9	80.3	59.2	60.3	66.5

C.D.(5%)Bi-Bj	4.5	2.8	2.7	2.9	1.0
C.V.(%)ErrorB	6.1	3.6	4.8	5.1	1.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Cont....

A - 21

Main Plot	Sub Plot	Plant Height (cm)					Ear Height (cm)		
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi	Ambikapur	Ranchi	Varanasi
N Levels	Germplasm								
100:50:50	JH- 31153	235.9	170.7	104.0	230.5	191.7	90.0	89.0	95.7
	BISCO-111	227.1	154.7	104.3	225.1	186.0	86.4	85.4	98.0
	CP- 828	240.3	179.0	109.0	235.4	204.7	83.3	82.3	93.3
	HM-8	223.7	153.7	94.7	219.2	184.7	85.0	84.0	97.3
	HM-9	234.5	153.3	94.0	216.1	191.0	78.2	77.2	100.7
	HM-10	261.6	161.7	107.3	231.4	208.3	91.7	90.7	98.0
150:65:65	JH- 31153	236.7	164.7	114.7	237.5	196.0	94.7	93.7	90.0
	BISCO-111	228.1	165.7	114.0	229.3	191.3	96.5	95.5	93.7
	CP- 828	234.7	157.3	118.0	235.9	211.3	82.3	81.3	90.3
	HM-8	221.9	157.3	97.0	222.4	188.7	85.5	84.5	96.7
	HM-9	221.7	176.7	103.0	223.0	195.0	78.8	77.8	95.7
	HM-10	271.0	175.0	122.7	260.0	213.3	106.0	98.3	101.7
200:80:80	JH- 31153	231.7	177.3	119.3	241.7	199.3	93.1	92.1	93.0
	BISCO-111	225.9	177.7	115.0	233.3	196.0	88.6	87.6	94.0
	CP- 828	236.2	184.7	117.3	246.5	210.0	80.4	79.4	93.3
	HM-8	220.7	185.0	102.3	229.2	195.3	85.3	84.3	93.7
	HM-9	216.8	190.7	104.7	240.8	202.0	84.7	83.7	95.3
	HM-10	244.4	185.3	126.7	255.6	213.0	102.9	108.6	95.7

Location mean	234.1	170.6	109.3	234.1	198.8	88.5	87.5	95.3
C.D.(5%) AiBj-AiBk	20.3	2.3	8.6	20.3	7.4	13.1	12.9	7.6
C.D.(5%) AiBk-AjBk	27.3	4.0	14.5	27.3	7.2	16.7	16.2	10.9
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	237.2	162.2	102.2	226.3	194.4	85.8	84.8	97.2
150:65:65	235.7	166.1	111.6	234.7	199.3	90.6	88.5	94.7
200:80:80	229.3	183.4	114.2	241.2	202.6	89.2	89.3	94.2

C.D.(5%) Ai-Aj	20.6	3.4	12.4	20.6	2.6	11.9	11.4	8.6
C.V.(%) Error A	9.5	2.2	12.3	9.5	1.4	14.5	14.1	9.7
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.	n.s.	n.s.

JH- 31153	234.8	170.9	112.7	236.6	195.7	92.6	91.6	92.9
BISCO-111	227.0	166.0	111.1	229.2	191.1	90.5	89.5	95.2
CP- 828	237.1	173.7	114.8	239.3	208.7	82.0	81.0	92.3
HM-8	222.1	165.3	98.0	223.6	189.6	85.3	84.3	95.9
HM-9	224.3	173.6	100.6	226.6	196.0	80.6	79.6	97.2
HM-10	259.0	174.0	118.9	249.0	211.6	100.2	99.2	98.4

C.D.(5%)Bi-Bj	11.7	1.3	4.9	11.7	4.3	7.6	7.4	4.4
C.V.(%)ErrorB	5.2	0.8	4.7	5.2	2.2	8.9	8.8	4.8
F(5%)	s	s	s	s	s	s	s	n.s.

Cont....

A - 22

Main Plot	Sub Plot	Days of 50% Silking		Days to 50% Tasseling	Barren Plants (000/ha)
		Dholi	Varanasi	Varanasi	Varanasi
N Levels	Germplasm				
100:50:50	JH- 31153	64.7	50.0	44.0	0.0
	BISCO-111	63.3	53.0	46.7	0.7
	CP- 828	63.7	50.0	46.3	0.4
	HM-8	65.7	50.3	47.0	0.0
	HM-9	66.0	49.7	46.0	0.0
	HM-10	70.0	52.7	46.7	0.0
150:65:65	JH- 31153	60.3	50.0	44.0	0.4
	BISCO-111	63.7	52.3	46.3	0.7
	CP- 828	61.7	50.0	46.7	1.1
	HM-8	62.7	49.3	46.3	1.1
	HM-9	63.3	49.3	45.7	0.0
	HM-10	66.3	52.0	46.3	0.0
200:80:80	JH- 31153	61.0	49.3	43.3	0.7
	BISCO-111	60.3	52.0	46.3	0.7
	CP- 828	60.7	50.0	46.3	0.4
	HM-8	62.0	49.7	46.0	0.0
	HM-9	62.0	49.0	45.3	0.7
	HM-10	65.3	52.7	47.3	0.7

Location mean	63.5	50.6	45.9	0.4
C.D.(5%) AiBj-AiBk	2.4	1.0	1.1	1.0
C.D.(5%) AiBk-AjBk	2.4	1.1	1.2	1.1
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	65.6	50.9	46.1	0.2
150:65:65	63.0	50.5	45.9	0.6
200:80:80	61.9	50.4	45.8	0.6

C.D.(5%) Ai-Aj	1.0	0.6	0.7	0.7
C.V.(%) Error A	1.7	1.3	1.7	166.0
F(5%)	s	n.s.	n.s.	n.s.

JH- 31153	62.0	49.8	43.8	0.4
BISCO-111	62.4	52.4	46.4	0.7
CP- 828	62.0	50.0	46.4	0.6
HM-8	63.4	49.8	46.4	0.4
HM-9	63.8	49.3	45.7	0.2
HM-10	67.2	52.4	46.8	0.2

C.D.(5%)Bi-Bj	1.4	0.6	0.6	0.6
C.V.(%)ErrorB	2.3	1.2	1.4	135.5
F(5%)	s	s	s	n.s.

Cont....

A - 23

Main Plot	Sub Plot	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels/Row	Test Weight (g) 100 Grain	Shelling (%)
N Levels	Germplasm	Ambikapur					
100:50:50	JH- 31153	14.4	15.0	14.3	35.9	33.3	81.5
	BISCO-111	15.0	15.5	14.7	38.7	32.7	82.5
	CP- 828	14.5	14.3	13.2	36.9	35.2	81.1
	HM-8	14.1	14.9	12.9	33.1	31.7	77.5
	HM-9	13.5	14.4	12.7	33.3	30.8	78.4
	HM-10	13.9	14.5	12.1	36.9	32.2	79.0
150:65:65	JH- 31153	14.6	15.1	13.7	36.8	36.6	84.7
	BISCO-111	15.2	15.9	13.9	39.3	39.2	81.6
	CP- 828	14.6	15.4	13.6	36.3	34.6	81.1
	HM-8	14.2	15.0	13.0	33.8	28.3	79.1
	HM-9	14.1	14.3	12.7	33.2	29.7	80.3
	HM-10	14.3	14.6	13.1	36.9	35.7	81.9
200:80:80	JH- 31153	14.8	15.3	13.4	37.9	35.5	86.1
	BISCO-111	15.7	16.1	14.2	40.5	38.3	82.6
	CP- 828	14.5	15.1	13.7	37.7	34.0	82.8
	HM-8	14.0	15.9	12.8	37.3	31.6	82.9
	HM-9	14.1	14.9	13.3	37.3	30.5	80.8
	HM-10	14.6	15.2	13.1	36.1	35.1	79.7

Location mean	14.4	15.1	13.4	36.6	33.6	81.3
C.D.(5%) AiBj-AiBk	0.9	1.4	1.1	2.6	6.3	4.6
C.D.(5%) AiBk-AjBk	1.0	3.2	1.0	4.0	6.0	4.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	14.2	14.8	13.3	35.8	32.7	80.0
150:65:65	14.5	15.1	13.3	36.0	34.0	81.4
200:80:80	14.6	15.4	13.4	37.8	34.1	82.5

C.D.(5%) Ai-Aj	0.6	3.0	0.3	3.2	2.0	1.8
C.V.(%) Error A	4.4	21.3	2.0	9.6	6.5	2.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

JH- 31153	14.6	15.1	13.8	36.8	35.1	84.1
BISCO-111	15.3	15.8	14.3	39.5	36.7	82.2
CP- 828	14.5	14.9	13.5	37.0	34.6	81.7
HM-8	14.1	15.3	12.9	34.7	30.5	79.8
HM-9	13.9	14.5	12.9	34.6	30.3	79.8
HM-10	14.3	14.8	12.8	36.6	34.3	80.2

C.D.(5%)Bi-Bj	0.5	0.8	0.6	1.5	3.6	2.6
C.V.(%)ErrorB	3.9	5.6	5.0	4.3	11.2	3.4
F(5%)	s	s	s	s	s	s

Cont...

A - 24

Main Plot	Sub Plot	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels/Row	Test Weight (g) 100 Grain	Shelling (%)
N Levels	Germplasm	Ranchi					
100:50:50	JH- 31153	14.2	16.9	13.9	33.5	33.2	82.6
	BISCO-111	13.9	16.3	13.3	33.6	32.6	82.3
	CP- 828	14.1	15.9	14.1	32.7	32.1	82.7
	HM-8	13.7	16.1	13.7	31.5	29.2	82.0
	HM-9	14.0	15.7	14.2	29.5	32.9	80.9
	HM-10	14.0	15.5	13.8	32.3	30.3	81.0
150:65:65	JH- 31153	15.4	18.1	14.8	35.9	35.4	83.4
	BISCO-111	14.7	17.7	14.8	36.2	38.2	82.5
	CP- 828	14.8	18.9	14.8	37.7	32.3	82.5
	HM-8	14.3	17.3	14.0	35.0	31.5	82.4
	HM-9	14.6	16.3	14.5	30.1	33.5	82.2
	HM-10	14.5	16.7	13.8	34.7	31.1	82.1
200:80:80	JH- 31153	15.7	16.8	15.4	34.0	36.5	83.8
	BISCO-111	15.5	19.0	15.2	35.9	39.1	83.5
	CP- 828	15.5	18.6	14.8	36.3	34.0	82.9
	HM-8	14.9	18.7	14.5	37.1	31.8	81.5
	HM-9	15.0	17.4	14.2	32.9	34.1	82.4
	HM-10	14.7	17.9	14.5	35.9	31.4	82.4

Location mean	14.6	17.2	14.3	34.2	33.3	82.4
C.D.(5%) AiBj-AiBk	1.2	1.9	1.2	3.4	6.9	2.7
C.D.(5%) AiBk-AjBk	1.4	2.1	1.3	3.6	6.4	2.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	14.0	16.1	13.8	32.2	31.8	81.9
150:65:65	14.7	17.5	14.4	34.9	33.6	82.5
200:80:80	15.2	18.1	14.8	35.3	34.5	82.8

C.D.(5%) Ai-Aj	0.9	1.2	0.7	1.9	1.4	1.5
C.V.(%) Error A	6.3	7.6	5.1	5.9	4.5	1.9
F(5%)	s	s	s	s	s	n.s.

JH- 31153	15.1	17.3	14.7	34.5	35.0	83.2
BISCO-111	14.7	17.7	14.4	35.2	36.6	82.7
CP- 828	14.8	17.8	14.5	35.6	32.8	82.7
HM-8	14.3	17.4	14.0	34.6	30.8	82.0
HM-9	14.5	16.5	14.3	30.9	33.5	81.8
HM-10	14.4	16.7	14.0	34.3	30.9	81.8

C.D.(5%)Bi-Bj	0.7	1.1	0.7	1.9	4.0	1.6
C.V.(%)ErrorB	4.9	6.6	5.1	5.9	12.4	2.0
F(5%)	n.s.	n.s.	n.s.	s	s	n.s.

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Table 6: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone IV

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob Yield (Kg/ha)				
		N Levels	Genotypes	Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad	Karimnagar
100:50:50	BH-4062		5178	5828	6114	8556	6709	7300	7442
	BISCO-111		6004	5939	5478	8472	8157	7261	6661
	KAVERI-25K60		5002	7336	7517	7333	5398	9315	9136
	HM-8		3672	7519	5206	6667	4678	8917	6178
	HM-9		4254	6678	5764	6972	5756	7429	7050
	HM-10		4237	6079	6856	7056	4963	7239	8139
150:65:65	BH-4062		7335	6303	8378	8583	7928	8226	9975
	BISCO-111		6450	5738	9403	8167	9161	7047	11264
	KAVERI-25K60		5546	7831	9828	6833	5496	10158	11819
	HM-8		4894	8165	6736	6778	6339	9811	8014
	HM-9		5709	7519	6928	8611	6972	8347	8214
	HM-10		5220	7533	8097	9111	6024	8293	9808
200:80:80	BH-4062		8007	7086	9061	7417	8474	9190	10956
	BISCO-111		6628	7353	9039	7000	9226	9331	10844
	KAVERI-25K60		5194	9021	10519	7083	5844	11950	12486
	HM-8		6593	9086	7339	7806	6887	10458	8814
	HM-9		7470	8017	7492	8417	7296	9181	8761
	HM-10		5148	8190	7703	7917	5393	9190	9253

Location mean	5696.8	7290.0	7636.4	7709.9	6705.7	8813.6	9156.3
C.D.(5%) AiBj-AiBk	1219.1	459.4	703.6	515.0	1676.2	555.6	811.2
C.D.(5%) AiBk-AjBk	1334.9	462.2	683.1	632.0	1754.8	542.6	803.4
F(5%)	s	s	s	s	n.s.	s	s

100:50:50	4724	6563	6156	7509	5944	7910	7434
150:65:65	5859	7181	8228	8014	6987	8647	9849
200:80:80	6507	8125	8525	7606	7187	9883	10186

C.D.(5%) Ai-Aj	758.7	196.9	240.3	432.9	885.7	195.4	322.0
C.V.(%) Error A	14.4	3.8	3.4	6.1	14.3	3.1	3.8
F(5%)	s	s	s	n.s.	s	s	s

BH-4062	6840	6406	7851	8185	7704	8239	9457
BISCO-111	6360	6343	7973	7880	8848	7880	9590
KAVERI-25K60	5248	8063	9288	7083	5580	10475	11147
HM-8	5053	8257	6427	7083	5968	9729	7669
HM-9	5811	7405	6728	8000	6675	8319	8008
HM-10	4869	7268	7552	8028	5460	8241	9067

C.D.(5%) Bi-Bj	703.8	265.2	406.2	297.3	967.8	320.8	468.4
C.V.(%) Error B	12.8	4.4	5.5	4.0	15.0	4.4	5.3
F(5%)	s	s	s	s	s	s	s

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Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)			
		N Levels	Genotypes	Arbhavi	Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad
100:50:50	BH-4062		64.4	61.1	58.1	66.4	64.2	53.1	58.1
	BISCO-111		65.0	62.0	63.8	66.1	65.0	55.6	63.8
	KAVERI-25K60		64.4	53.0	63.2	63.9	63.1	45.4	63.2
	HM-8		65.3	65.4	63.6	61.9	65.3	45.6	63.6
	HM-9		63.3	63.0	63.5	64.4	63.1	50.9	63.5
	HM-10		65.6	57.6	60.3	66.1	65.6	43.9	60.3
150:65:65	BH-4062		66.1	56.9	62.4	62.2	66.9	57.0	62.4
	BISCO-111		62.8	58.9	63.3	64.7	64.2	61.5	63.3
	KAVERI-25K60		62.5	63.5	63.5	62.2	62.5	50.9	63.5
	HM-8		65.6	48.9	63.1	63.3	65.6	50.6	63.1
	HM-9		66.9	60.0	61.8	66.7	65.8	53.3	61.8
	HM-10		69.2	56.1	62.2	64.4	66.4	48.1	62.2
200:80:80	BH-4062		65.3	63.1	62.5	61.9	65.3	58.3	62.5
	BISCO-111		65.0	58.7	63.1	66.1	65.0	60.9	63.1
	KAVERI-25K60		61.1	57.8	62.6	65.3	61.1	52.2	62.6
	HM-8		65.0	57.2	63.2	65.6	65.3	51.5	63.2
	HM-9		66.1	60.6	62.8	65.0	65.3	55.2	62.8
	HM-10		65.0	61.1	63.2	63.6	65.8	48.3	63.2

Location mean	64.9	59.2	62.6	64.4	64.7	52.4	62.6
C.D.(5%) AiBj-AiBk	4.9	9.3	1.4	5.2	4.5	3.1	1.4
C.D.(5%) AiBk-AjBk	5.4	9.3	1.7	6.7	4.9	3.0	1.7
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.	s

100:50:50	64.7	60.3	62.1	64.8	64.4	49.1	62.1
150:65:65	65.5	57.4	62.7	63.9	65.2	53.6	62.7
200:80:80	64.6	59.8	62.9	64.6	64.6	54.4	62.9

C.D.(5%) Ai-Aj	3.2	3.8	1.0	4.9	2.7	0.9	1.0
C.V.(%) Error A	5.3	7.0	2.3	8.2	4.5	1.9	2.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

BH-4062	65.3	60.4	61.0	63.5	65.5	56.2	61.0
BISCO-111	64.3	59.9	63.4	65.6	64.7	59.3	63.4
KAVERI-25K60	62.7	58.1	63.1	63.8	62.2	49.5	63.1
HM-8	65.3	57.2	63.3	63.6	65.4	49.2	63.3
HM-9	65.5	61.2	62.7	65.4	64.7	53.1	62.7
HM-10	66.6	58.3	61.9	64.7	65.9	46.8	61.9

C.D.(5%)Bi-Bj	2.8	5.4	0.8	3.0	2.6	1.8	0.8
C.V.(%)ErrorB	4.5	9.4	1.6	4.9	4.2	3.6	1.6
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s	s

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Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking	
		Arbhavi	Hyderabad	Karimnagar	Kolhapur	Hyderabad	Kolhapur
100:50:50	BH-4062	177.3	252.7	164.5	185.3	49.0	63.3
	BISCO-111	170.7	248.3	138.0	170.7	50.0	59.7
	KAVERI-25K60	175.7	274.0	156.0	209.3	48.7	59.7
	HM-8	172.7	264.7	134.5	166.7	50.3	61.0
	HM-9	172.3	237.7	129.8	172.0	49.7	60.0
	HM-10	168.7	242.7	157.0	191.7	50.7	60.0
150:65:65	BH-4062	165.3	270.3	167.3	201.7	51.0	62.0
	BISCO-111	170.7	263.0	136.3	176.3	51.3	58.7
	KAVERI-25K60	182.0	278.7	163.8	197.7	50.7	60.3
	HM-8	181.0	246.7	135.0	171.7	50.3	60.3
	HM-9	175.7	255.3	133.8	167.7	51.7	58.7
	HM-10	176.0	254.0	162.0	192.3	51.0	60.0
200:80:80	BH-4062	182.7	263.7	163.8	196.3	51.7	59.0
	BISCO-111	193.7	263.0	140.5	176.3	51.3	59.0
	KAVERI-25K60	177.7	275.3	165.8	207.3	52.0	58.3
	HM-8	194.0	245.0	134.3	166.3	51.0	57.7
	HM-9	173.3	254.0	143.8	169.7	51.7	57.7
	HM-10	178.7	246.7	165.0	200.7	50.3	58.0

Location mean	177.1	257.5	149.5	184.4	50.7	59.6
C.D.(5%) AiBj-AiBk	13.0	21.4	5.9	12.4	0.9	2.4
C.D.(5%) AiBk-AjBk	14.3	20.7	7.4	14.6	1.1	2.2
F(5%)	s	n.s.	s	n.s.	s	n.s.

100:50:50	172.9	253.3	146.6	182.6	49.7	60.6
150:65:65	175.1	261.3	149.7	184.6	51.0	60.0
200:80:80	183.3	257.9	152.2	186.1	51.3	58.3

C.D.(5%) Ai-Aj	8.2	7.1	5.1	9.5	0.7	0.6
C.V.(%) Error A	5.0	3.0	4.8	5.6	1.4	1.1
F(5%)	s	n.s.	n.s.	n.s.	s	s

BH-4062	175.1	262.2	165.2	194.4	50.6	61.4
BISCO-111	178.3	258.1	138.3	174.4	50.9	59.1
KAVERI-25K60	178.4	276.0	161.8	204.8	50.4	59.4
HM-8	182.6	252.1	134.6	168.2	50.6	59.7
HM-9	173.8	249.0	135.8	169.8	51.0	58.8
HM-10	174.4	247.8	161.3	194.9	50.7	59.3

C.D.(5%) Bi-Bj	7.5	12.4	3.4	7.1	0.5	1.4
C.V.(%) Error B	4.4	5.0	2.8	4.0	1.1	2.4
F(5%)	n.s.	s	s	s	n.s.	s

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Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Ear Height (cm)	Moisture (%)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob
N Levels	Genotypes	Arbhavi					
100:50:50	BH-4062	5222	88.0	13.0	12.2	13.0	13.6
	BISCO-111	5111	86.7	12.4	12.7	12.4	14.7
	KAVERI-25K60	4861	85.3	12.6	10.4	12.6	13.4
	HM-8	5306	85.7	11.8	10.7	11.8	14.9
	HM-9	5167	82.0	11.9	10.9	11.9	13.8
	HM-10	4917	79.3	13.8	11.6	13.8	14.6
150:65:65	BH-4062	5333	86.7	13.5	13.1	13.5	13.7
	BISCO-111	5417	84.0	13.7	12.9	13.7	14.3
	KAVERI-25K60	5528	86.0	12.8	12.6	12.8	14.4
	HM-8	5083	84.0	13.8	12.9	13.8	14.9
	HM-9	5417	85.7	14.1	12.6	14.1	15.3
	HM-10	5139	85.0	12.7	13.0	12.7	14.7
200:80:80	BH-4062	5361	86.0	13.6	12.9	13.6	16.3
	BISCO-111	5361	94.3	12.3	12.6	12.3	15.3
	KAVERI-25K60	4611	91.7	12.9	12.8	12.9	14.1
	HM-8	5028	92.0	14.3	11.8	14.3	15.7
	HM-9	5250	87.3	13.9	12.9	13.9	15.7
	HM-10	5722	85.3	12.3	12.8	12.3	15.1

Location mean	5213.0	86.4	13.1	12.3	13.1	14.7
C.D.(5%) AiBj-AiBk	354.8	6.9	1.5	0.6	1.5	1.1
C.D.(5%) AiBk-AjBk	365.6	6.6	1.4	0.8	1.4	1.4
F(5%)	s	n.s.	s	s	s	s

100:50:50	5097	84.5	12.6	11.4	12.6	14.2
150:65:65	5319	85.2	13.4	12.8	13.4	14.6
200:80:80	5222	89.4	13.2	12.6	13.2	15.4

C.D.(5%) Ai-Aj	174.8	2.0	0.2	0.5	0.2	0.9
C.V.(%) Error A	3.6	2.5	1.4	4.6	1.4	6.7
F(5%)	n.s.	s	s	s	s	s

BH-4062	5306	86.9	13.3	12.7	13.3	14.5
BISCO-111	5296	88.3	12.8	12.7	12.8	14.8
KAVERI-25K60	5000	87.7	12.8	11.9	12.8	14.0
HM-8	5139	87.2	13.3	11.8	13.3	15.2
HM-9	5278	85.0	13.3	12.1	13.3	14.9
HM-10	5259	83.2	12.9	12.5	12.9	14.8

C.D.(5%) Bi-Bj	204.9	4.0	0.9	0.4	0.9	0.7
C.V.(%) Error B	4.1	4.8	7.1	3.1	7.1	4.6
F(5%)	s	n.s.	n.s.	s	n.s.	s

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Main Plot	Sub Plot	No. of Kernels /Row	Test Weight (g) 100 Grain	Shelling (%)	Moisture (%)
N Levels	Genotypes	Arbhavi			Karimnagar
100:50:50	BH-4062	33.7	33.7	83.8	13.0
	BISCO-111	30.3	40.3	83.6	13.7
	KAVERI-25K60	29.5	33.7	83.3	13.1
	HM-8	24.7	35.7	83.2	13.0
	HM-9	27.7	37.7	83.4	12.3
	HM-10	30.5	33.7	83.9	13.4
150:65:65	BH-4062	32.3	39.7	83.4	13.2
	BISCO-111	33.7	42.7	84.5	14.2
	KAVERI-25K60	33.3	41.3	84.2	13.9
	HM-8	31.1	35.0	83.1	13.5
	HM-9	31.9	34.7	84.4	12.8
	HM-10	31.2	39.3	83.3	12.0
200:80:80	BH-4062	30.8	37.0	83.8	12.9
	BISCO-111	30.5	45.0	83.6	14.0
	KAVERI-25K60	32.6	46.0	84.0	14.2
	HM-8	31.1	44.7	83.8	13.0
	HM-9	31.9	35.0	82.6	13.1
	HM-10	29.6	33.0	82.6	12.4

Location mean	30.9	38.2	83.6	13.2
C.D.(5%) AiBj-AiBk	4.9	4.6	1.2	1.1
C.D.(5%) AiBk-AjBk	4.7	5.0	1.8	1.1
F(5%)	n.s.	s	n.s.	n.s.

100:50:50	29.4	35.8	83.5	13.1
150:65:65	32.2	38.8	83.8	13.2
200:80:80	31.1	40.1	83.4	13.3

C.D.(5%) Ai-Aj	1.4	2.7	1.5	0.4
C.V.(%) Error A	5.0	7.8	1.9	4.2
F(5%)	s	s	n.s.	n.s.

BH-4062	32.3	36.8	83.6	13.0
BISCO-111	31.5	42.7	83.9	14.0
KAVERI-25K60	31.8	40.3	83.8	13.7
HM-8	29.0	38.4	83.3	13.2
HM-9	30.5	35.8	83.5	12.7
HM-10	30.4	35.3	83.3	12.6

C.D.(5%) Bi-Bj	2.8	2.7	0.7	0.6
C.V.(%) Error B	9.5	7.2	0.8	5.8
F(5%)	n.s.	s	n.s.	s

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Table 7: Relative performance of pre-release germplasm of Medium Maturity at different levels of nutrient during Kharif 2009 in Zone V

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)
		Banswara	Chhindwara	Godhr	Udaipur		
N Levels	Genotype	Banswara	Chhindwara	Godhr	Udaipur	Banswara	Godhra
100:50:50	BISCO-555	2739	4422	5289	3128	3711	7960
	BISCO-855	3539	2904	5978	4428	4778	9038
	HM-8	2611	3630	3311	3780	3583	5022
	HM-9	2922	3344	3378	3613	4106	5053
	HM-10	3400	4719	3956	2325	4722	5918
150:65:65	BISCO-555	3100	4433	7022	3593	4228	10389
	BISCO-855	4167	3694	6711	4953	5722	10156
	HM-8	3317	3802	4511	4105	4750	6713
	HM-9	3511	4348	3944	4045	4611	5884
	HM-10	4039	4798	4922	2783	5456	7400
200:80:80	BISCO-555	3250	4461	8000	3705	4528	12022
	BISCO-855	4378	4163	7222	5205	5889	10833
	HM-8	3511	4552	5489	4200	4972	8278
	HM-9	3778	5472	5811	4140	5428	8718
	HM-10	4250	5237	6178	2800	5850	9202

Location mean	3500.7	4265.3	5448.1	3786.7	4822.2	8172.4
C.D.(5%) AiBj-AiBk	497.6	1817.5	950.0	290.4	677.2	1436.2
C.D.(5%) AiBk-AjBk	579.0	1749.8	1066.6	392.3	705.5	1654.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	3042	3804	4382	3455	4180	6598
150:65:65	3627	4215	5422	3896	4953	8108
200:80:80	3833	4777	6540	4010	5333	9811

C.D.(5%) Ai-Aj	379.5	667.8	661.2	296.3	371.9	1068.4
C.V.(%) Error A	10.7	15.4	12.0	10.1	7.6	12.9
F(5%)	s	s	s	s	s	s

BISCO-555	3030	4439	6770	3475	4156	10124
BISCO-855	4028	3587	6637	4862	5463	10009
HM-8	3146	3994	4437	4028	4435	6671
HM-9	3404	4388	4378	3933	4715	6552
HM-10	3896	4918	5019	2636	5343	7507

C.D.(5%)Bi-Bj	287.3	1049.4	548.5	167.7	391.0	829.2
C.V.(%)ErrorB	8.4	25.3	10.3	5.3	8.3	10.4
F(5%)	s	n.s.	s	s	s	s

Cont....

A - 31

Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	BISCO-555		56.4	57.4	59.3	57.3	49.7	54.1	59.3
	BISCO-855		38.3	63.3	54.2	64.0	56.1	53.0	63.3
	HM-8		60.6	61.5	54.7	53.5	46.9	52.6	63.3
	HM-9		58.6	60.4	54.2	61.3	49.2	53.0	61.3
	HM-10		60.6	58.9	55.8	61.3	53.9	56.3	59.3
150:65:65	BISCO-555		55.8	65.9	50.0	57.3	46.1	59.3	58.7
	BISCO-855		62.8	64.4	52.0	64.3	57.8	57.0	62.7
	HM-8		59.2	63.3	57.1	53.3	54.4	54.8	56.0
	HM-9		55.6	64.1	60.7	61.2	51.1	53.3	61.3
	HM-10		64.7	59.3	56.0	60.7	57.2	57.0	58.5
200:80:80	BISCO-555		56.9	67.0	57.3	57.3	47.2	60.0	58.5
	BISCO-855		63.6	66.7	55.8	64.0	59.4	61.9	62.0
	HM-8		63.1	64.8	54.0	53.3	55.0	55.2	55.3
	HM-9		64.7	69.6	57.1	61.3	58.9	59.3	60.7
	HM-10		62.8	67.4	55.3	59.7	58.6	57.8	56.7

Location mean	58.9	63.6	55.6	59.3	53.4	56.3	59.8
C.D.(5%) AiBj-AiBk	15.7	4.4	7.5	3.3	7.8	7.0	3.1
C.D.(5%) AiBk-AjBk	17.0	4.7	8.6	4.6	7.4	7.7	4.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

100:50:50	54.9	60.3	55.6	59.5	51.2	53.8	61.3
150:65:65	59.6	63.4	55.2	59.4	53.3	56.3	59.4
200:80:80	62.2	67.1	55.9	59.1	55.8	58.8	58.6

C.D.(5%) Ai-Aj	9.8	2.7	5.5	3.5	2.7	4.6	3.9
C.V.(%) Error A	16.4	4.2	9.8	7.7	4.9	8.0	8.5
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.	n.s.

BISCO-555	56.4	63.5	55.6	57.3	47.7	57.8	58.8
BISCO-855	54.9	64.8	54.0	64.1	57.8	57.3	62.7
HM-8	60.9	63.2	55.3	53.4	52.1	54.2	58.2
HM-9	59.6	64.7	57.3	61.3	53.1	55.2	61.1
HM-10	62.7	61.9	55.7	60.6	56.6	57.0	58.2

C.D.(5%)Bi-Bj	9.1	2.5	4.3	1.9	4.5	4.1	1.8
C.V.(%)ErrorB	15.8	4.1	8.0	3.9	8.7	7.4	3.6
F(5%)	n.s.	n.s.	n.s.	s	s	n.s.	s

Cont....

A - 32

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	BISCO-555		186.7	181.7	189.7	220.0	66.3	57.3	53.3
	BISCO-855		218.3	191.0	201.7	224.8	67.0	55.0	55.7
	HM-8		173.3	181.3	183.3	201.0	65.3	57.0	60.3
	HM-9		195.0	179.3	176.7	200.0	63.3	56.7	55.7
	HM-10		215.0	191.3	198.0	228.3	69.3	56.3	54.0
150:65:65	BISCO-555		201.7	191.7	211.7	227.0	66.0	56.3	55.0
	BISCO-855		216.7	192.0	201.3	230.0	70.3	55.0	54.3
	HM-8		180.0	188.3	190.0	206.0	66.3	52.3	57.7
	HM-9		180.7	183.7	188.3	204.0	67.7	55.7	54.3
	HM-10		221.7	191.7	208.3	234.0	70.3	56.3	53.7
200:80:80	BISCO-555		210.7	195.0	213.3	229.3	66.0	55.7	55.3
	BISCO-855		211.7	192.0	205.0	230.0	71.0	52.3	53.3
	HM-8		198.3	192.0	196.7	206.3	68.0	57.3	56.0
	HM-9		207.7	190.3	205.0	205.0	68.0	55.0	53.3
	HM-10		230.0	199.3	213.3	234.3	71.7	56.0	53.3

Location mean	203.2	189.4	198.8	218.7	67.8	55.6	55.0
C.D.(5%) AiBj-AiBk	15.1	9.2	11.3	9.8	2.4	1.6	1.4
C.D.(5%) AiBk-AjBk	16.9	9.6	11.0	12.7	3.1	1.5	1.7
F(5%)	s	n.s.	n.s.	n.s.	n.s.	s	s

100:50:50	197.7	184.9	189.9	214.8	66.3	56.5	55.8
150:65:65	200.1	189.5	199.9	220.2	68.1	55.1	55.0
200:80:80	211.7	193.7	206.7	221.0	68.9	55.3	54.3

C.D.(5%) Ai-Aj	10.4	5.1	4.3	9.3	2.3	0.5	1.2
C.V.(%) Error A	5.1	2.6	2.1	5.5	3.3	0.8	2.1
F(5%)	s	s	s	n.s.	n.s.	s	n.s.

BISCO-555	199.7	189.4	204.9	225.4	66.1	56.4	54.6
BISCO-855	215.6	191.7	202.7	228.3	69.4	54.1	54.4
HM-8	183.9	187.2	190.0	204.4	66.6	55.6	58.0
HM-9	194.4	184.4	190.0	203.0	66.3	55.8	54.4
HM-10	222.2	194.1	206.6	232.2	70.4	56.2	53.7

C.D.(5%) Bi-Bj	8.7	5.3	6.5	5.6	1.4	0.9	0.8
C.V.(%) Error B	4.4	2.9	3.4	3.1	2.1	1.7	1.5
F(5%)	s	s	s	s	s	s	s

Cont....

A - 33

Main Plot	Sub Plot	Shelling (%)	No. of PFSR affected Plant (000/ha)
N Levels	Genotype	Udaipur	Udaipur
100:50:50	BISCO-555	66.1	0.0
	BISCO-855	62.1	1.5
	HM-8	62.2	0.0
	HM-9	59.0	0.0
	HM-10	63.1	2.5
150:65:65	BISCO-555	67.1	0.0
	BISCO-855	64.6	1.5
	HM-8	66.2	0.0
	HM-9	63.2	0.0
	HM-10	64.6	3.0
200:80:80	BISCO-555	68.1	0.0
	BISCO-855	64.0	2.0
	HM-8	57.7	0.0
	HM-9	62.9	0.0
	HM-10	65.1	3.0

Location mean	63.7	0.9
C.D.(5%) AiBj-AiBk	6.7	0.5
C.D.(5%) AiBk-AjBk	8.4	0.5
F(5%)	n.s.	n.s.

100:50:50	62.5	0.8
150:65:65	65.1	0.9
200:80:80	63.6	1.0

C.D.(5%) Ai-Aj	5.9	0.2
C.V.(%) Error A	12.0	31.7
F(5%)	n.s.	n.s.

BISCO-555	67.1	0.0
BISCO-855	63.6	1.7
HM-8	62.0	0.0
HM-9	61.7	0.0
HM-10	64.3	2.8

C.D.(5%)Bi-Bj	3.9	0.3
C.V.(%)ErrorB	7.4	36.4
F(5%)	n.s.	s

A - 34

Table 8: Relative performance of pre-release germplasm of Early Maturity at different levels of nutrient during Kharif 2009 in Zone V

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)
		Banswara	Chhindwara	Godhra	Udaipur		
N Levels	Genotype						
100:50:50	JH-31110	2906	4422	4960	3305	3544	7349
	PRAKASH	3017	2904	3876	2745	3869	5740
	PRATAP MAKKA-4	3344	3630	4249	2650	4294	6322
	PRATAP MAKKA-5	3267	4348	4160	2670	4367	6220
150:65:65	JH-31110	3194	4422	6240	3710	4056	9324
	PRAKASH	3342	2904	5778	3035	4283	8636
	PRATAP MAKKA-4	3589	3802	5316	3075	4417	7898
	PRATAP MAKKA-5	3517	5472	5867	3010	4306	8738
200:80:80	JH-31110	3261	4448	7218	3793	4139	10662
	PRAKASH	3561	4163	6356	3080	4444	9476
	PRATAP MAKKA-4	3867	3802	5858	3255	4767	8660
	PRATAP MAKKA-5	3600	5472	6062	3030	4500	8971

Location mean	3372.0	4149.1	5494.8	3113.1	4248.8	8166.3
C.D.(5%) AiBj-AiBk	494.7	1608.1	765.7	435.8	416.2	1111.9
C.D.(5%) AiBk-AjBk	470.8	1701.2	918.2	461.0	414.7	1354.0
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	3133	3826	4311	2843	4019	6408
150:65:65	3410	4150	5800	3208	4265	8649
200:80:80	3572	4471	6373	3289	4463	9442

C.D.(5%) Ai-Aj	200.6	1000.1	647.6	267.3	210.4	970.2
C.V.(%) Error A	5.2	21.3	10.4	9.9	4.4	10.5
F(5%)	s	n.s.	s	s	s	s

JH-31110	3120	4431	6139	3603	3913	9112
PRAKASH	3306	3323	5336	2953	4199	7950
PRATAP MAKKA-4	3600	3744	5141	2993	4493	7627
PRATAP MAKKA-5	3461	5098	5363	2903	4391	7976

C.D.(5%)Bi-Bj	285.6	928.4	442.1	251.6	240.3	641.9
C.V.(%)ErrorB	8.6	22.6	8.1	9.6	5.7	7.9
F(5%)	s	s	s	s	s	s

Cont....

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Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)		
		Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara	Udaipur
100:50:50	JH-31110	60.6	64.4	59.1	61.8	57.8	60.4	62.0
	PRAKASH	62.5	61.1	56.2	60.7	57.8	52.6	55.7
	PRATAP MAKKA-4	62.8	64.4	57.6	57.3	58.1	51.1	53.5
	PRATAP MAKKA-5	62.5	61.9	56.7	55.3	58.1	51.1	54.2
150:65:65	JH-31110	61.7	64.8	58.9	63.3	58.9	61.1	64.5
	PRAKASH	62.2	61.9	59.8	60.0	58.9	54.1	56.7
	PRATAP MAKKA-4	65.6	64.8	55.1	56.7	58.6	54.1	55.5
	PRATAP MAKKA-5	63.9	62.2	54.9	55.8	58.9	51.9	53.5
200:80:80	JH-31110	61.9	65.6	60.7	64.2	61.9	61.5	65.3
	PRAKASH	64.2	64.1	59.3	60.0	61.9	61.1	57.0
	PRATAP MAKKA-4	63.3	64.8	54.2	56.0	64.7	57.0	56.0
	PRATAP MAKKA-5	63.9	63.7	58.9	56.0	61.9	55.2	54.5

Location mean	62.9	63.6	57.6	58.9	59.8	55.9	57.4
C.D.(5%) AiBj-AiBk	4.3	4.8	6.0	4.3	5.2	4.9	3.4
C.D.(5%) AiBk-AjBk	5.7	4.5	7.0	5.0	5.9	5.2	3.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	62.1	63.0	57.4	58.8	57.9	53.8	56.3
150:65:65	63.3	63.4	57.2	59.0	58.8	55.3	57.5
200:80:80	63.3	64.5	58.3	59.0	62.6	58.7	58.2

C.D.(5%) Ai-Aj	4.4	1.7	4.9	3.5	3.9	3.1	2.2
C.V.(%) Error A	6.2	2.4	7.4	6.8	5.7	4.9	4.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

JH-31110	61.4	64.9	59.6	63.1	59.5	61.0	63.9
PRAKASH	63.0	62.3	58.4	60.2	59.5	55.9	56.4
PRATAP MAKKA-4	63.9	64.7	55.6	56.7	60.5	54.1	55.0
PRATAP MAKKA-5	63.4	62.6	56.8	55.7	59.6	52.7	54.1

C.D.(5%)Bi-Bj	2.5	2.8	3.4	2.5	3.0	2.8	2.0
C.V.(%)ErrorB	4.0	4.4	6.0	5.0	5.1	5.1	4.1
F(5%)	n.s.	n.s.	n.s.	s	n.s.	s	s

Cont....

A - 36

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	JH-31110		184.7	175.7	175.0	195.5	52.0	52.0	53.7
	PRAKASH		188.3	179.7	166.7	192.5	54.0	50.7	53.0
	PRATAP MAKKA-4		193.0	178.7	160.0	184.0	55.0	51.3	53.3
	PRATAP MAKKA-5		193.3	183.3	175.0	208.0	55.0	51.7	52.3
150:65:65	JH-31110		194.3	186.0	198.3	198.0	55.0	51.7	52.3
	PRAKASH		197.3	184.0	187.3	192.5	56.0	50.7	50.7
	PRATAP MAKKA-4		198.3	191.0	188.3	189.3	56.0	51.3	52.0
	PRATAP MAKKA-5		199.0	193.7	192.7	200.5	56.3	51.3	49.7
200:80:80	JH-31110		197.3	196.0	206.7	199.3	55.3	51.7	49.7
	PRAKASH		201.7	185.7	205.0	196.0	56.3	50.0	49.3
	PRATAP MAKKA-4		202.3	193.0	198.3	190.0	56.3	51.3	49.0
	PRATAP MAKKA-5		203.3	198.3	212.0	201.5	56.7	50.3	49.3

Location mean	196.1	187.1	188.8	195.6	55.3	51.2	51.2
C.D.(5%) AiBj-AiBk	7.9	12.5	9.1	8.1	1.3	1.4	1.5
C.D.(5%) AiBk-AjBk	7.6	12.8	11.0	9.1	1.6	1.5	1.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	189.8	179.3	169.2	195.0	54.0	51.4	53.1
150:65:65	197.3	188.7	191.7	195.1	55.8	51.3	51.2
200:80:80	201.2	193.3	205.5	196.7	56.2	50.8	49.3

C.D.(5%) Ai-Aj	3.5	7.0	7.8	5.8	1.1	0.8	1.2
C.V.(%) Error A	1.6	3.3	3.7	3.4	1.7	1.4	2.1
F(5%)	s	s	s	n.s.	s	n.s.	s

JH-31110	192.1	185.9	193.3	197.6	54.1	51.8	51.9
PRAKASH	195.8	183.1	186.3	193.7	55.4	50.4	51.0
PRATAP MAKKA-4	197.9	187.6	182.2	187.8	55.8	51.3	51.4
PRATAP MAKKA-5	198.6	191.8	193.2	203.3	56.0	51.1	50.4

C.D.(5%)Bi-Bj	4.5	7.2	5.3	4.7	0.8	0.8	0.9
C.V.(%)ErrorB	2.3	3.9	2.8	2.9	1.4	1.6	1.8
F(5%)	s	n.s.	s	s	s	s	s

Cont....

A - 37

Main Plot	Sub Plot	Shelling (%)	No. of PFSR affected Plant (000/ha)
N Levels	Genotype	Udaipur	Udaipur
100:50:50	JH-31110	78.3	0.0
	PRAKASH	78.2	1.8
	PRATAP MAKKA-4	77.6	1.5
	PRATAP MAKKA-5	80.3	1.3
150:65:65	JH-31110	79.2	0.3
	PRAKASH	80.0	2.7
	PRATAP MAKKA-4	78.8	1.3
	PRATAP MAKKA-5	81.1	1.3
200:80:80	JH-31110	79.6	0.2
	PRAKASH	80.2	2.7
	PRATAP MAKKA-4	80.4	1.3
	PRATAP MAKKA-5	81.3	1.3

Location mean	79.6	1.3
C.D.(5%) AiBj-AiBk	6.4	0.7
C.D.(5%) AiBk-AjBk	7.6	0.8
F(5%)	n.s.	n.s.

100:50:50	78.6	1.2
150:65:65	79.8	1.4
200:80:80	80.4	1.4

C.D.(5%) Ai-Aj	5.2	0.5
C.V.(%) Error A	7.6	39.7
F(5%)	n.s.	n.s.

JH-31110	79.0	0.2
PRAKASH	79.5	2.4
PRATAP MAKKA-4	78.9	1.4
PRATAP MAKKA-5	80.9	1.3

C.D.(5%) Bi-Bj	3.7	0.4
C.V.(%) Error B	5.6	37.4
F(5%)	n.s.	s

A - 38

Table 9: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone I.

Main Plot	Sub Plot	Grain Yield (Kg/ha)		Cob Yield (Kg/ha)	Straw Yield (Kg/ha)	Plant Stand (000/ha)		No. of Cobs (000/ha)	
		Almora	Bajaura			Almora	Bajaura	Almora	Bajaura
100:50:50	FH-3356	8723	9107	11433	7827	81.9	79.5	78.9	
	FQH-38	9400	10097	12923	6440	79.2	83.3	78.1	
	VIVEK HYBRID-21	8820	10580	12153	9467	80.5	83.3	78.4	
	VIVEK HYBRID-17	7550	6957	10313	6883	79.7	82.7	78.1	
	VIVEK QPM-9	7327	6700	9750	6440	79.5	82.7	78.3	
	VIVEK HYBRID-9	7257	6703	10187	6820	82.8	79.5	80.0	
150:65:65	FH-3356	9307	9453	12667	9787	81.7	82.7	78.0	
	FQH-38	9697	10080	12890	8017	82.2	80.8	80.6	
	VIVEK HYBRID-21	9143	9100	12223	8393	81.7	82.1	79.2	
	VIVEK HYBRID-17	8157	8510	10967	10290	81.7	83.3	78.1	
	VIVEK QPM-9	8110	8597	11167	7890	80.0	83.3	78.0	
	VIVEK HYBRID-9	8103	10707	11273	8520	82.2	81.4	80.8	
200:80:80	FH-3356	9780	12250	13407	11297	81.6	82.7	79.7	
	FQH-38	9967	10573	13543	9597	79.2	83.3	76.9	
	VIVEK HYBRID-21	9613	10257	12950	8840	82.8	81.4	80.3	
	VIVEK HYBRID-17	8693	9427	11527	7137	80.5	79.5	79.2	
	VIVEK QPM-9	8917	9650	11850	9407	79.7	80.8	77.2	
	VIVEK HYBRID-9	8700	8633	11867	9657	78.9	80.8	76.1	

Location mean	8736.9	9298.9	11838.3	8483.7	80.9	81.9	78.7
C.D.(5%) AiBj-AiBk	691.7	832.2	924.0	1249.2	4.2	2.6	4.8
C.D.(5%) AiBk-AjBk	666.2	1090.1	925.1	1561.2	3.9	2.8	4.6
F(5%)	n.s.	s	n.s.	s	n.s.	s	n.s.

100:50:50	8179	8357	11127	7313	80.6	81.9	78.6
150:65:65	8753	9408	11864	8816	81.6	82.3	79.1
200:80:80	9278	10132	12524	9322	80.5	81.4	78.2

C.D.(5%) Ai-Aj	219.8	799.5	392.5	1092.1	0.9	1.5	1.5
C.V.(%) Error A	2.7	9.3	3.6	13.9	1.2	2.0	2.1
F(5%)	s	s	s	s	s	n.s.	n.s.

FH-3356	9270	10270	12502	9637	81.7	81.6	78.9
FQH-38	9688	10250	13119	8018	80.2	82.5	78.5
VIVEK HYBRID-21	9192	9979	12442	8900	81.7	82.3	79.3
VIVEK HYBRID-17	8133	8298	10936	8103	80.6	81.9	78.4
VIVEK QPM-9	8118	8316	10922	7912	79.7	82.3	77.9
VIVEK HYBRID-9	8020	8681	11109	8332	81.3	80.6	79.0

C.D.(5%) Bi-Bj	399.3	480.5	533.5	721.2	2.4	1.5	2.7
C.V.(%) Error B	4.7	5.4	4.7	8.8	3.1	1.9	3.6
F(5%)	s	s	s	s	n.s.	n.s.	n.s.

Cont...

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Table 10: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone II

Main Plot	Sub Plot	Grain Yield (Kg/ha)					Stover Yield (Kg/ha)	Cob Yield (Kg/ha)
		Delhi	Kanpur	Karnal	Ludhiana	Pantnagar		
N Level	Germplasm						Delhi	Pantnagar
100:50:50	FQH-38	4444	5556	3300	5818	5069	4111	8681
	VIVEK HYBRID-21	3778	6250	2787	6125	4097	4222	8576
	VIVEK HYBRID-17	3500	6083	3227	4844	4375	3833	7917
	VIVEK QPM- 9	4000	5222	2550	5722	3507	4444	6563
	VIVEK HYBRID -9	4000	4917	2933	6247	3646	4278	5833
150:65:65	FQH-38	5444	5694	4253	5986	6597	6111	9792
	VIVEK HYBRID-21	5000	6583	3153	6133	5694	5722	9896
	VIVEK HYBRID-17	4611	6250	4107	5258	5313	5722	8646
	VIVEK QPM- 9	5222	5333	3060	6003	4688	6111	7917
	VIVEK HYBRID -9	5222	5139	3667	6716	4618	6111	7813
200:80:80	FQH-38	6167	5861	5060	5960	6944	7278	10382
	VIVEK HYBRID-21	5778	6583	4253	6316	6458	6722	10243
	VIVEK HYBRID-17	5333	6250	4867	5319	6146	7500	9201
	VIVEK QPM- 9	5889	5444	4400	6045	5729	7111	8889
	VIVEK HYBRID -9	5833	5333	4313	6840	5347	7167	9132

Location mean	4948.1	5766.7	3728.7	5955.5	5215.3	5763.0	8631.9
C.D.(5%) AiBj-AiBk	624.9	156.3	503.4	650.2	1666.6	397.2	2543.8
C.D.(5%) AiBk-AjBk	572.1	175.0	679.5	682.7	1650.4	434.9	2571.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	3944	5606	2959	5751	4139	4178	7514
150:65:65	5100	5800	3648	6019	5382	5956	8813
200:80:80	5800	5894	4579	6096	6125	7156	9569

C.D.(5%) Ai-Aj	125.9	108.0	518.9	367.8	717.6	257.4	1214.0
C.V.(%) Error A	2.5	1.8	13.7	6.1	17.8	4.4	18.2
F(5%)	s	s	s	n.s.	s	s	s

FQH-38	5352	5704	4204	5921	6204	5833	9618
VIVEK HYBRID-21	4852	6472	3398	6191	5417	5556	9572
VIVEK HYBRID-17	4481	6194	4067	5140	5278	5685	8588
VIVEK QPM- 9	5037	5333	3337	5923	4641	5889	7789
VIVEK HYBRID -9	5019	5130	3638	6601	4537	5852	7593

C.D.(5%)Bi-Bj	360.8	90.2	290.6	375.4	962.2	229.3	1468.6
C.V.(%)ErrorB	7.5	1.6	8.0	6.5	22.3	4.1	20.5
F(5%)	s	s	s	s	s	s	s

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Main Plot	Sub Plot	Plant Stand (000/ha)					No. of Cobs (000/ha)			
		N Level	Germplasm	Delhi	Kanpur	Kamal	Ludhiana	Pantnagar	Delhi	Ludhiana
100:50:50	FQH-38		66.7	55.6	39.6	82.6	61.1	66.7	82.6	56.9
	VIVEK HYBRID-21		66.7	58.1	42.5	83.7	64.6	66.7	80.9	67.4
	VIVEK HYBRID-17		66.1	55.6	40.9	81.3	65.3	66.1	79.9	66.7
	VIVEK QPM- 9		66.1	53.9	35.4	76.4	66.7	66.1	79.5	61.1
	VIVEK HYBRID -9		66.1	54.2	33.4	80.9	66.7	66.1	82.3	67.4
150:65:65	FQH-38		66.7	57.2	41.4	77.1	66.0	66.1	85.1	61.1
	VIVEK HYBRID-21		66.7	59.2	38.9	79.5	66.0	66.1	84.4	68.8
	VIVEK HYBRID-17		66.7	56.9	37.6	76.0	64.6	66.1	81.9	68.8
	VIVEK QPM- 9		66.7	56.7	36.7	82.6	66.0	66.7	80.2	61.1
	VIVEK HYBRID -9		66.1	55.3	36.1	84.4	63.2	66.1	84.7	64.6
200:80:80	FQH-38		66.7	58.6	41.1	78.1	66.0	66.7	85.4	72.2
	VIVEK HYBRID-21		66.7	60.6	41.4	86.8	66.7	66.7	85.1	69.4
	VIVEK HYBRID-17		65.6	57.2	38.7	76.7	66.0	65.6	83.3	68.8
	VIVEK QPM- 9		66.7	58.6	39.8	81.9	65.3	66.7	81.6	61.8
	VIVEK HYBRID -9		66.7	56.7	42.0	81.3	66.0	66.7	85.4	67.4

Location mean	66.4	56.9	39.0	80.6	65.3	66.3	82.8	65.6
C.D.(5%) AiBj-AiBk	0.9	1.8	6.1	6.7	6.2	1.2	7.4	13.4
C.D.(5%) AiBk-AjBk	1.0	2.5	6.0	6.8	6.1	1.3	6.9	13.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	66.3	55.4	38.4	81.0	64.9	66.3	81.0	63.9
150:65:65	66.6	57.1	38.1	79.9	65.1	66.2	83.3	64.9
200:80:80	66.4	58.3	40.6	81.0	66.0	66.4	84.2	67.9

C.D.(5%) Ai-Aj	0.6	2.0	2.7	3.3	2.5	0.6	2.1	6.4
C.V.(%) Error A	0.9	3.4	6.7	4.1	5.0	0.9	2.5	12.6
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	s	n.s.

FQH-38	66.7	57.1	40.7	79.3	64.4	66.5	84.4	63.4
VIVEK HYBRID-21	66.7	59.3	40.9	83.3	65.7	66.5	83.4	68.5
VIVEK HYBRID-17	66.1	56.6	39.1	78.0	65.3	65.9	81.7	68.1
VIVEK QPM- 9	66.5	56.4	37.3	80.3	66.0	66.5	80.4	61.3
VIVEK HYBRID -9	66.3	55.4	37.2	82.2	65.3	66.3	84.1	66.4

C.D.(5%)Bi-Bj	0.5	1.0	3.5	3.9	3.6	0.7	4.3	7.8
C.V.(%)ErrorB	0.8	1.8	9.3	5.0	6.6	1.1	5.3	14.3
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Cont....

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Main Plot	Sub Plot	Days to 50% Tasseling			Days to 50% Silking			
		Karnal	Ludhiana	Pantnagar	Kanpur	Karnal	Ludhiana	Pantnagar
100:50:50	FQH-38	55.0	47.3	44.5	73.7	57.0	48.7	47.8
	VIVEK HYBRID-21	53.7	47.3	43.8	80.3	56.0	49.7	47.0
	VIVEK HYBRID-17	53.0	45.0	44.5	76.3	55.0	47.7	46.8
	VIVEK QPM- 9	52.7	47.7	44.3	82.7	54.7	50.3	47.3
	VIVEK HYBRID -9	56.3	48.3	44.0	80.3	58.3	50.7	47.3
150:65:65	FQH-38	56.7	46.0	45.0	79.3	58.7	48.7	48.3
	VIVEK HYBRID-21	55.0	45.7	44.0	80.3	57.0	48.7	47.5
	VIVEK HYBRID-17	54.0	44.3	44.5	76.3	56.3	46.3	47.8
	VIVEK QPM- 9	53.7	47.3	45.0	84.0	56.0	49.7	48.3
	VIVEK HYBRID -9	54.3	47.3	44.5	80.7	57.0	49.3	47.8
200:80:80	FQH-38	55.3	45.7	44.5	75.3	57.3	48.3	48.0
	VIVEK HYBRID-21	54.3	44.0	45.3	82.0	56.3	46.7	48.5
	VIVEK HYBRID-17	51.7	44.0	45.0	75.0	54.0	46.3	48.0
	VIVEK QPM- 9	55.0	47.0	45.5	81.3	57.7	49.7	48.5
	VIVEK HYBRID -9	54.3	45.3	45.8	77.0	56.7	48.0	48.5

Location mean	54.3	46.2	44.7	79.0	56.5	48.6	47.8
C.D.(5%) AiBj-AiBk	1.7	2.3	1.3	3.2	1.8	2.5	0.9
C.D.(5%) AiBk-AjBk	1.7	2.7	1.5	4.2	1.9	2.5	1.1
F(5%)	s	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:50:50	54.1	47.1	44.2	78.7	56.2	49.4	47.2
150:65:65	54.7	46.1	44.6	80.1	57.0	48.5	47.9
200:80:80	54.1	45.2	45.2	78.1	56.4	47.8	48.3

C.D.(5%) Ai-Aj	0.8	1.8	1.0	3.1	0.9	1.0	0.8
C.V.(%) Error A	1.4	3.8	2.8	3.9	1.6	2.0	2.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	s

FQH-38	55.7	46.3	44.7	76.1	57.7	48.6	48.0
VIVEK HYBRID-21	54.3	45.7	44.3	80.9	56.4	48.3	47.7
VIVEK HYBRID-17	52.9	44.4	44.7	75.9	55.1	46.8	47.5
VIVEK QPM- 9	53.8	47.3	44.9	82.7	56.1	49.9	48.0
VIVEK HYBRID -9	55.0	47.0	44.8	79.3	57.3	49.3	47.8

C.D.(5%)Bi-Bj	1.0	1.3	0.7	1.8	1.1	1.5	0.5
C.V.(%)ErrorB	1.9	3.0	2.0	2.4	1.9	3.1	1.3
F(5%)	s	s	n.s.	s	s	s	n.s.

Cont....

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Main Plot	Sub Plot	Plant Height (cm)				Ear Height (cm)	Days to 75% Husk	Moisture (%)
		Delhi	Kanpur	Ludhiana	Pantnagar			
N Level	Germplasm	Delhi	Kanpur	Ludhiana	Pantnagar	Ludhiana	Ludhiana	Pantnagar
100:50:50	FQH-38	132.3	185.7	160.0	212.5	63.3	81.0	25.8
	VIVEK HYBRID-21	142.7	188.7	155.0	215.5	46.7	81.0	25.5
	VIVEK HYBRID-17	132.0	185.3	148.7	210.0	57.3	80.3	24.8
	VIVEK QPM- 9	141.3	189.3	165.3	220.3	70.0	83.3	25.0
	VIVEK HYBRID -9	141.7	192.7	161.0	203.8	62.3	81.7	26.0
150:65:65	FQH-38	143.0	187.3	164.0	217.5	64.0	79.3	26.3
	VIVEK HYBRID-21	151.7	191.7	157.3	217.5	59.0	79.7	25.0
	VIVEK HYBRID-17	141.7	187.7	153.7	214.5	63.0	78.7	25.0
	VIVEK QPM- 9	152.0	193.7	166.0	222.5	74.3	82.3	24.8
	VIVEK HYBRID -9	151.7	192.7	162.3	211.3	67.0	83.0	25.8
200:80:80	FQH-38	149.0	186.0	166.3	218.5	66.0	78.3	25.8
	VIVEK HYBRID-21	158.3	190.0	158.3	217.8	60.0	78.7	24.8
	VIVEK HYBRID-17	148.3	188.0	155.7	216.0	66.3	78.3	25.8
	VIVEK QPM- 9	159.0	186.0	171.0	225.0	75.7	80.0	24.8
	VIVEK HYBRID -9	158.3	187.3	165.3	214.5	69.3	79.7	25.0

Location mean	146.9	188.8	160.7	215.8	64.3	80.4	25.3
C.D.(5%) AiBj-AiBk	3.4	3.3	12.1	17.9	20.9	2.3	1.4
C.D.(5%) AiBk-AjBk	3.2	3.7	11.7	19.5	19.5	2.5	1.3
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	138.0	188.3	158.0	212.4	59.9	81.5	25.4
150:65:65	148.0	190.6	160.7	216.7	65.5	80.6	25.4
200:80:80	154.6	187.5	163.3	218.4	67.5	79.0	25.2

C.D.(5%) Ai-Aj	1.1	2.3	4.6	11.2	5.7	1.5	0.4
C.V.(%) Error A	0.7	1.2	2.8	6.7	8.7	1.9	2.0
F(5%)	s	s	n.s.	n.s.	s	s	n.s.

FQH-38	141.4	186.3	163.4	216.2	64.4	79.6	25.9
VIVEK HYBRID-21	150.9	190.1	156.9	216.9	55.2	79.8	25.1
VIVEK HYBRID-17	140.7	187.0	152.7	213.5	62.2	79.1	25.2
VIVEK QPM- 9	150.8	189.7	167.4	222.6	73.3	81.9	24.8
VIVEK HYBRID -9	150.6	190.9	162.9	209.8	66.2	81.4	25.6

C.D.(5%)Bi-Bj	1.9	1.9	7.0	10.3	12.1	1.3	0.8
C.V.(%)ErrorB	1.4	1.0	4.5	5.8	19.3	1.7	3.8
F(5%)	s	s	s	n.s.	n.s.	s	n.s.

Cont....

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Main Plot	Sub Plot	Cob Length (cm)		Cob Girth (cm)	
		Ludhiana	Pantnagar	Ludhiana	Pantnagar
N Level	Germplasm				
100:50:50	FQH-38	14.4	15.5	4.1	15.3
	VIVEK HYBRID-21	13.8	14.6	4.0	13.8
	VIVEK HYBRID-17	13.7	14.9	3.9	14.4
	VIVEK QPM- 9	14.0	14.9	4.0	14.4
	VIVEK HYBRID -9	13.7	15.9	4.0	15.1
150:65:65	FQH-38	14.6	16.3	4.1	15.4
	VIVEK HYBRID-21	14.0	15.3	4.1	14.3
	VIVEK HYBRID-17	14.3	15.6	3.9	14.7
	VIVEK QPM- 9	14.3	16.0	4.0	14.9
	VIVEK HYBRID -9	14.4	16.8	4.1	15.4
200:80:80	FQH-38	14.9	16.8	4.1	15.5
	VIVEK HYBRID-21	14.3	15.8	4.2	14.8
	VIVEK HYBRID-17	14.8	15.9	3.9	15.1
	VIVEK QPM- 9	14.8	16.1	4.1	15.6
	VIVEK HYBRID -9	14.5	16.9	4.2	15.6

Location mean	14.3	15.8	4.1	14.9
C.D.(5%) AiBj-AiBk	1.5	1.3	0.3	1.1
C.D.(5%) AiBk-AjBk	1.7	1.4	0.3	1.2
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	13.9	15.2	4.0	14.6
150:65:65	14.3	16.0	4.1	14.9
200:80:80	14.7	16.3	4.1	15.3

C.D.(5%) Ai-Aj	1.1	0.8	0.1	0.7
C.V.(%) Error A	7.7	6.6	2.6	5.7
F(5%)	n.s.	s	n.s.	n.s.

FQH-38	14.6	16.2	4.1	15.4
VIVEK HYBRID-21	14.0	15.3	4.1	14.3
VIVEK HYBRID-17	14.3	15.4	3.9	14.7
VIVEK QPM- 9	14.4	15.6	4.0	14.9
VIVEK HYBRID -9	14.2	16.5	4.1	15.3

C.D.(5%)Bi-Bj	0.9	0.7	0.2	0.6
C.V.(%)ErrorB	6.1	5.7	4.2	5.1
F(5%)	n.s.	s	n.s.	s

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Table 11: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone III

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)			
		N Levels	Genotype	Ambikapur	Bahraich	Ranchi	Varanasi	Ambikapur	Dholi
100:50:50	FH-3358		4267	2833	4490	7370	5111	2600	5442
	VIVEK HYBRID-21		5333	2778	4046	6185	7468	2600	5003
	VIVEK HYBRID-17		4830	2667	3823	5778	5778	1600	4641
	VIVEK QPM- 9		4489	2556	3922	6407	5467	2800	4888
	VIVEK HYBRID -9		4681	2806	3401	7185	5585	2733	4237
150:65:65	FH-3358		5644	4694	5264	7926	6862	3111	6314
	VIVEK HYBRID-21		5496	4500	5869	7296	6400	2800	7094
	VIVEK HYBRID-17		4770	4222	5289	6815	5674	2267	6341
	VIVEK QPM- 9		5304	4389	4544	7407	6344	3133	5503
	VIVEK HYBRID -9		5259	5118	4187	8111	6222	3089	5122
200:80:80	FH-3358		5200	6278	5608	8630	6148	3178	6762
	VIVEK HYBRID-21		6474	6174	7077	7444	7067	3444	8434
	VIVEK HYBRID-17		5126	5563	4746	6593	5970	3422	5812
	VIVEK QPM- 9		5156	4264	4757	7741	5926	3400	5618
	VIVEK HYBRID -9		5452	5389	4507	8037	6519	4000	5555

Location mean	5165.4	4281.9	4768.7	7261.7	6169.4	2945.2	5784.4
C.D.(5%) AiBj-AiBk	1135.8	1305.8	801.9	863.1	1755.0	708.9	846.7
C.D.(5%) AiBk-AjBk	1128.8	1297.7	1034.7	995.2	1948.9	828.4	1177.0
F(5%)	n.s.	n.s.	s	n.s.	n.s.	n.s.	s

100:50:50	4720	2728	3936	6585	5882	2467	4842
150:65:65	5295	4585	5030	7511	6300	2880	6075
200:80:80	5481	5533	5339	7689	6326	3489	6436

C.D.(5%) Ai-Aj	507.1	582.7	761.4	643.6	1185.0	546.0	917.8
C.V.(%) Error A	9.7	13.4	15.8	8.7	18.9	18.3	15.7
F(5%)	s	s	s	s	n.s.	s	s

FH-3358	5037	4602	5121	7975	6040	2963	6173
VIVEK HYBRID-21	5768	4484	5664	6975	6978	2948	6844
VIVEK HYBRID-17	4909	4150	4620	6395	5807	2430	5598
VIVEK QPM- 9	4983	3736	4407	7185	5912	3111	5336
VIVEK HYBRID -9	5131	4438	4032	7778	6109	3274	4971

C.D.(5%)Bi-Bj	655.7	753.9	463.0	498.3	1013.2	409.3	488.8
C.V.(%)ErrorB	13.0	18.1	10.0	7.1	16.9	14.3	8.7
F(5%)	n.s.	n.s.	s	s	n.s.	s	s

Cont....

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Main Plot	Sub Plot	No. of Plant (000/ha)				
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi
N Levels	Genotype					
100:50:50	FH-3358	104.4	77.8	62.2	79.1	66.3
	VIVEK HYBRID-21	103.9	77.1	62.0	78.2	59.6
	VIVEK HYBRID-17	102.8	77.1	64.4	80.7	63.7
	VIVEK QPM- 9	103.6	78.5	62.0	79.6	64.1
	VIVEK HYBRID -9	102.7	81.3	62.0	77.6	66.7
150:65:65	FH-3358	105.0	76.4	60.0	76.2	66.3
	VIVEK HYBRID-21	110.7	77.8	59.8	80.0	64.8
	VIVEK HYBRID-17	102.5	81.3	60.0	81.8	66.3
	VIVEK QPM- 9	104.6	83.3	60.2	75.8	66.3
	VIVEK HYBRID -9	106.1	80.6	58.0	76.0	66.3
200:80:80	FH-3358	107.1	81.3	56.7	77.1	66.3
	VIVEK HYBRID-21	107.7	80.6	58.4	74.7	65.6
	VIVEK HYBRID-17	101.6	81.9	60.4	73.6	64.8
	VIVEK QPM- 9	103.3	79.2	60.4	78.0	66.7
	VIVEK HYBRID -9	103.0	75.7	63.3	79.1	65.6

Location mean	104.6	79.3	60.7	77.8	65.3
C.D.(5%) AiBj-AiBk	4.0	3.5	5.1	4.0	2.6
C.D.(5%) AiBk-AjBk	4.0	3.3	4.8	4.6	2.5
F(5%)	n.s.	s	n.s.	s	s

100:50:50	103.5	78.3	62.5	79.0	64.1
150:65:65	105.8	79.9	59.6	78.0	66.0
200:80:80	104.5	79.7	59.9	76.5	65.8

C.D.(5%) Ai-Aj	1.8	0.9	1.6	2.9	0.9
C.V.(%) Error A	1.7	1.1	2.5	3.7	1.4
F(5%)	n.s.	s	s	n.s.	s

FH-3358	105.5	78.5	59.6	77.5	66.3
VIVEK HYBRID-21	107.4	78.5	60.1	77.6	63.3
VIVEK HYBRID-17	102.3	80.1	61.6	78.7	64.9
VIVEK QPM- 9	103.8	80.3	60.9	77.8	65.7
VIVEK HYBRID -9	103.9	79.2	61.1	77.6	66.2

C.D.(5%)Bi-Bj	2.3	2.0	2.9	2.3	1.5
C.V.(%)ErrorB	2.3	2.6	5.0	3.0	2.3
F(5%)	s	n.s.	n.s.	n.s.	s

Cont.....

A - 47

Main Plot	Sub Plot	No. of Cobs (000/ha)				
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi
N Levels	Genotype					
100:50:50	FH-3358	100.7	77.8	56.2	72.7	66.3
	VIVEK HYBRID-21	100.6	75.7	61.1	71.6	58.9
	VIVEK HYBRID-17	99.3	77.8	58.2	74.0	62.2
	VIVEK QPM- 9	100.1	79.2	60.0	72.7	61.9
	VIVEK HYBRID -9	99.0	81.3	60.4	71.3	66.7
150:65:65	FH-3358	102.4	76.4	56.7	70.9	67.0
	VIVEK HYBRID-21	107.0	77.8	60.4	74.4	65.6
	VIVEK HYBRID-17	99.9	79.9	60.0	75.6	65.2
	VIVEK QPM- 9	102.1	81.3	56.9	70.4	64.8
	VIVEK HYBRID -9	103.4	81.9	58.4	72.0	67.0
200:80:80	FH-3358	105.0	81.9	53.8	73.8	65.9
	VIVEK HYBRID-21	105.0	78.5	59.3	70.7	68.9
	VIVEK HYBRID-17	99.1	81.3	57.3	70.4	64.8
	VIVEK QPM- 9	100.6	80.6	61.6	74.7	65.6
	VIVEK HYBRID -9	100.4	77.8	62.2	75.1	66.7

Location mean	101.6	79.3	58.8	72.7	65.2
C.D.(5%) AiBj-AiBk	4.4	3.3	3.3	3.8	4.2
C.D.(5%) AiBk-AjBk	4.4	3.3	4.5	4.9	4.5
F(5%)	n.s.	s	s	s	n.s.

100:50:50	99.9	78.3	59.2	72.4	63.2
150:65:65	102.9	79.4	58.5	72.7	65.9
200:80:80	102.0	80.0	58.8	72.9	66.4

C.D.(5%) Ai-Aj	2.0	1.5	3.4	3.6	2.5
C.V.(%) Error A	1.9	1.8	5.8	4.8	3.8
F(5%)	s	n.s.	n.s.	n.s.	s

FH-3358	102.7	78.7	55.6	72.4	66.4
VIVEK HYBRID-21	104.2	77.3	60.3	72.2	64.4
VIVEK HYBRID-17	99.4	79.6	58.5	73.3	64.1
VIVEK QPM- 9	100.9	80.3	59.5	72.6	64.1
VIVEK HYBRID -9	100.9	80.3	60.4	72.8	66.8

C.D.(5%)Bi-Bj	2.6	1.9	1.9	2.2	2.4
C.V.(%)ErrorB	2.6	2.4	3.3	3.1	3.8
F(5%)	s	s	s	n.s.	n.s.

Cont.....

A - 48

Main Plot	Sub Plot	Plant Height (cm)					Ear Height (cm)		
		Ambikapur	Bahraich	Dholi	Ranchi	Varanasi	Ambikapur	Ranchi	Varanasi
N Levels	Genotype								
100:50:50	FH-3358	179.3	144.3	81.7	186.3	144.0	56.2	55.9	66.3
	VIVEK HYBRID-21	218.4	154.3	96.7	219.5	168.7	71.6	72.1	66.7
	VIVEK HYBRID-17	195.5	132.0	91.7	197.9	160.7	64.1	62.9	67.3
	VIVEK QPM- 9	214.5	170.0	114.0	214.2	181.7	75.1	74.5	82.3
	VIVEK HYBRID -9	214.7	181.7	110.0	211.1	177.0	70.4	69.4	75.0
150:65:65	FH-3358	189.9	156.7	88.0	194.3	152.3	56.7	57.5	70.3
	VIVEK HYBRID-21	223.9	180.0	100.7	224.9	169.7	69.8	69.5	71.3
	VIVEK HYBRID-17	211.7	150.0	107.3	209.4	170.7	76.2	75.9	72.3
	VIVEK QPM- 9	223.7	181.0	111.5	224.7	181.0	77.1	77.1	81.3
	VIVEK HYBRID -9	216.5	188.3	109.0	217.5	176.7	68.6	68.9	77.0
200:80:80	FH-3358	199.7	172.0	84.6	202.1	149.3	63.2	63.2	70.0
	VIVEK HYBRID-21	232.4	189.3	104.7	227.1	168.0	70.1	69.7	67.0
	VIVEK HYBRID-17	221.7	171.0	113.7	219.7	167.0	68.8	68.3	75.0
	VIVEK QPM- 9	226.0	201.0	115.0	227.0	182.3	79.5	79.5	74.7
	VIVEK HYBRID -9	219.9	206.7	115.0	220.9	177.0	78.3	77.5	77.0

Location mean	212.5	171.8	102.9	213.1	168.4	69.7	69.5	72.9
C.D.(5%) AiBj-AjBk	13.8	3.3	7.5	14.2	8.3	6.6	6.4	7.7
C.D.(5%) AiBk-AjBk	18.6	3.9	13.8	19.0	9.7	6.8	7.1	7.5
F(5%)	n.s.	s	s	n.s.	n.s.	s	s	n.s.

100:50:50	204.5	156.5	98.8	205.8	166.4	67.5	67.0	71.5
150:65:65	213.1	171.2	103.3	214.1	170.1	69.7	69.8	74.5
200:80:80	219.9	187.8	106.6	219.3	168.7	72.0	71.7	72.7

C.D.(5%) Ai-Aj	14.2	2.6	12.3	14.4	6.4	3.6	4.3	3.1
C.V.(%) Error A	6.6	1.5	11.8	6.7	3.8	5.1	6.1	4.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

FH-3358	189.6	157.7	84.8	194.2	148.6	58.7	58.9	68.9
VIVEK HYBRID-21	224.9	174.6	100.7	223.8	168.8	70.5	70.4	68.3
VIVEK HYBRID-17	209.6	151.0	104.2	209.0	166.1	69.7	69.0	71.6
VIVEK QPM- 9	221.4	184.0	113.5	222.0	181.7	77.3	77.0	79.4
VIVEK HYBRID -9	217.0	191.9	111.3	216.5	176.9	72.4	71.9	76.3

C.D.(5%)Bi-Bj	8.0	1.9	4.3	8.2	4.8	3.8	3.7	4.4
C.V.(%)ErrorB	3.8	1.1	4.3	4.0	2.9	5.6	5.5	6.2
F(5%)	s	s	s	s	s	s	s	s

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A - 49

Main Plot	Sub Plot	Days to 50% Silking			Days to 50% Tasseling	Barren Plants (000/ha)
		Bahraich	Dholi	Varanasi	Varanasi	Varanasi
100:50:50	FH-3358	49.0	57.0	46.0	41.7	1.1
	VIVEK HYBRID-21	45.0	53.7	44.0	40.3	0.7
	VIVEK HYBRID-17	49.0	53.0	43.3	40.0	1.9
	VIVEK QPM- 9	46.0	54.0	43.7	40.0	2.2
	VIVEK HYBRID -9	48.7	54.3	43.0	40.7	0.7
150:65:65	FH-3358	45.0	57.0	46.3	41.7	0.0
	VIVEK HYBRID-21	43.0	52.3	44.0	40.7	0.0
	VIVEK HYBRID-17	45.0	53.3	43.3	40.0	1.1
	VIVEK QPM- 9	44.3	54.7	44.0	40.0	1.9
	VIVEK HYBRID -9	44.7	54.3	42.7	40.3	0.4
200:80:80	FH-3358	44.3	56.3	46.0	42.0	0.4
	VIVEK HYBRID-21	42.0	52.3	44.0	41.0	0.0
	VIVEK HYBRID-17	43.7	51.0	43.7	40.3	0.0
	VIVEK QPM- 9	43.0	53.3	44.7	40.7	1.1
	VIVEK HYBRID -9	44.0	53.7	44.7	41.3	0.0

Location mean	45.1	54.0	44.2	40.7	0.8
C.D.(5%) AiBj-AiBk	0.5	2.1	1.6	1.2	2.5
C.D.(5%) AiBk-AjBk	0.7	2.4	1.8	1.1	2.7
F(5%)	s	n.s.	n.s.	n.s.	n.s.

100:50:50	47.5	54.4	44.0	40.5	1.3
150:65:65	44.4	54.3	44.1	40.5	0.7
200:80:80	43.4	53.3	44.6	41.1	0.3

C.D.(5%) Ai-Aj	0.5	1.5	1.1	0.3	1.7
C.V.(%) Error A	1.0	2.8	2.4	0.7	213.1
F(5%)	s	n.s.	n.s.	s	n.s.

FH-3358	46.1	56.8	46.1	41.8	0.5
VIVEK HYBRID-21	43.3	52.8	44.0	40.7	0.2
VIVEK HYBRID-17	45.9	52.4	43.4	40.1	1.0
VIVEK QPM- 9	44.4	54.0	44.1	40.2	1.7
VIVEK HYBRID -9	45.8	54.1	43.4	40.8	0.4

C.D.(5%)Bi-Bj	0.3	1.2	0.9	0.7	1.4
C.V.(%)ErrorB	0.7	2.3	2.1	1.8	190.8
F(5%)	s	s	s	s	n.s.

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A - 50

Main Plot	Sub Plot	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/ Cob	No. of Kernels/ Row	Test Weight (g) 100 Grain	Shelling (%)
N Levels	Genotype	Ambikapur	Ambikapur	Ambikapur	Ambikapur	Ambikapur	Ambikapur
100:50:50	FH-3358	11.2	12.2	12.4	31.9	25.3	83.4
	VIVEK HYBRID-21	11.8	13.4	12.9	33.1	27.5	73.8
	VIVEK HYBRID-17	10.9	11.8	11.9	33.3	25.9	83.6
	VIVEK QPM- 9	11.2	12.1	12.5	31.6	26.5	81.9
	VIVEK HYBRID -9	11.5	12.7	12.3	31.5	26.2	83.8
150:65:65	FH-3358	11.8	13.2	12.7	34.5	27.3	82.3
	VIVEK HYBRID-21	12.2	14.1	13.3	34.9	27.1	86.1
	VIVEK HYBRID-17	11.7	12.9	12.7	35.6	27.2	84.1
	VIVEK QPM- 9	12.0	13.1	12.9	34.3	27.2	83.5
	VIVEK HYBRID -9	12.4	13.8	13.4	33.8	27.4	84.5
200:80:80	FH-3358	12.2	13.6	13.5	34.7	27.1	84.6
	VIVEK HYBRID-21	12.4	14.1	13.3	36.0	27.8	95.1
	VIVEK HYBRID-17	12.1	13.2	13.0	34.5	27.1	85.8
	VIVEK QPM- 9	12.1	13.4	13.2	36.3	27.6	86.9
	VIVEK HYBRID -9	12.2	13.5	13.2	35.2	27.8	83.8

Location mean	11.8	13.1	12.9	34.1	27.0	84.2
C.D.(5%) AiBj-AiBk	0.5	0.9	0.7	2.7	1.4	10.1
C.D.(5%) AiBk-AjBk	0.5	0.9	0.8	2.9	1.7	13.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	11.3	12.4	12.4	32.3	26.3	81.3
150:65:65	12.0	13.4	13.0	34.6	27.2	84.1
200:80:80	12.2	13.6	13.2	35.4	27.5	87.2

C.D.(5%) Ai-Aj	0.3	0.5	0.5	1.6	1.1	10.5
C.V.(%) Error A	2.4	3.9	3.6	4.5	4.2	12.3
F(5%)	s	s	s	s	n.s.	n.s.

FH-3358	11.7	13.0	12.9	33.7	26.5	83.4
VIVEK HYBRID-21	12.1	13.9	13.1	34.7	27.5	85.0
VIVEK HYBRID-17	11.6	12.6	12.5	34.5	26.7	84.5
VIVEK QPM- 9	11.7	12.9	12.8	34.1	27.1	84.1
VIVEK HYBRID -9	12.0	13.4	13.0	33.5	27.1	84.0

C.D.(5%)Bi-Bj	0.3	0.5	0.4	1.6	0.8	5.8
C.V.(%)ErrorB	2.4	3.8	3.3	4.8	3.1	7.1
F(5%)	s	s	n.s.	n.s.	n.s.	n.s.

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A - 51

Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels /Row	Test Weight (g) 100 Grain	Shelling (%)
N Levels	Genotype	Ranchi	Ranchi	Ranchi	Ranchi	Ranchi	Ranchi	Ranchi
100:50:50	FH-3358	6133	13.4	13.7	13.1	28.5	33.0	82.4
	VIVEK HYBRID-21	5156	13.7	15.1	14.5	33.1	27.1	80.9
	VIVEK HYBRID-17	7400	14.0	15.2	14.1	30.7	24.6	82.3
	VIVEK QPM- 9	5733	13.7	14.3	14.4	32.1	26.0	80.3
	VIVEK HYBRID -9	6178	13.7	13.9	14.3	28.7	28.8	80.2
150:65:65	FH-3358	6867	14.6	14.9	13.9	32.1	33.8	83.2
	VIVEK HYBRID-21	8044	14.7	16.3	14.7	36.0	31.5	82.7
	VIVEK HYBRID-17	7800	15.0	16.2	15.3	35.3	29.8	83.4
	VIVEK QPM- 9	6578	14.9	15.4	15.5	32.6	28.6	82.6
	VIVEK HYBRID -9	5467	15.0	14.4	15.1	30.9	28.9	81.6
200:80:80	FH-3358	7756	15.1	16.2	14.2	34.3	37.0	82.9
	VIVEK HYBRID-21	7933	15.4	15.5	15.3	35.8	30.0	83.8
	VIVEK HYBRID-17	5356	14.9	15.5	15.4	33.8	28.6	81.7
	VIVEK QPM- 9	7467	15.4	16.6	16.3	34.1	28.6	84.6
	VIVEK HYBRID -9	7467	15.4	15.5	15.7	34.0	33.8	80.9

Location mean	6755.6	14.6	15.2	14.8	32.8	30.0	82.3
C.D.(5%) AiBj-AiBk	1071.3	1.2	1.3	1.1	4.6	3.2	2.8
C.D.(5%) AiBk-AjBk	1152.3	1.5	2.1	1.1	4.6	3.3	2.8
F(5%)	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	6120	13.7	14.4	14.1	30.6	27.9	81.2
150:65:65	6951	14.8	15.4	14.9	33.4	30.5	82.7
200:80:80	7196	15.2	15.9	15.4	34.4	31.6	82.8

C.D.(5%) Ai-Aj	657.5	1.2	1.8	0.5	2.2	1.6	1.3
C.V.(%) Error A	9.6	7.8	11.9	3.1	6.6	5.3	1.6
F(5%)	s	s	n.s.	s	s	s	s

FH-3358	6919	14.4	14.9	13.7	31.6	34.6	82.8
VIVEK HYBRID-21	7044	14.6	15.7	14.8	35.0	29.5	82.5
VIVEK HYBRID-17	6852	14.6	15.6	14.9	33.3	27.7	82.5
VIVEK QPM- 9	6593	14.7	15.4	15.4	33.0	27.7	82.5
VIVEK HYBRID -9	6370	14.7	14.6	15.0	31.2	30.5	80.9

C.D.(5%) Bi-Bj	618.5	0.7	0.7	0.6	2.6	1.8	1.6
C.V.(%) Error B	9.4	4.7	5.0	4.5	8.3	6.3	2.0
F(5%)	n.s.	n.s.	s	s	n.s.	s	n.s.

A - 52

Table 12: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone IV

Main Plot	Sub Plot	Grain Yield (Kg/ha)			Cob Yield (Kg/ha)			
		Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad	Karimnagar	Kolhapur
100:50:50	FQH-38	4426	6217	7594	6167	6296	6127	9261
	VIVEK HYBRID-21	4657	5517	5408	5278	5463	5828	6561
	VIVEK HYBRID-17	5722	5911	6172	5500	7315	6131	7472
	VIVEK QPM- 9	4907	7608	6069	5000	5648	8226	7364
	VIVEK HYBRID -9	5093	6131	5978	6167	6667	6508	7258
150:65:65	FQH-38	5157	6324	8556	7083	6519	6441	10308
	VIVEK HYBRID-21	5306	5829	8014	7639	6296	6200	9697
	VIVEK HYBRID-17	6778	7053	8153	6722	8796	6744	9894
	VIVEK QPM- 9	6167	7969	7514	6722	6574	9174	9158
	VIVEK HYBRID -9	8370	6329	7439	8194	7778	7949	9075
200:80:80	FQH-38	5130	7390	9450	5500	6111	7048	11436
	VIVEK HYBRID-21	5861	8372	9333	7111	7093	8729	11289
	VIVEK HYBRID-17	6593	8932	8894	6528	8463	8597	10844
	VIVEK QPM- 9	5463	9756	9053	6111	5833	8717	11014
	VIVEK HYBRID -9	7778	8289	8364	7167	6426	9085	10139

Location mean	5827.2	7175.1	7732.8	6459.3	6751.9	7433.6	9384.8
C.D.(5%) AiBj-AiBk	1387.2	669.6	640.0	567.8	1615.2	611.8	793.9
C.D.(5%) AiBk-AjBk	1309.0	765.4	824.8	734.5	1585.4	643.8	1008.1
F(5%)	n.s.	s	s	s	n.s.	s	s

100:50:50	4961	6277	6244	5622	6278	6564	7583
150:65:65	6356	6701	7935	7272	7193	7302	9627
200:80:80	6165	8548	9019	6483	6785	8435	10944

C.D.(5%) Ai-Aj	430.5	481.5	606.2	541.7	673.0	343.0	731.0
C.V.(%) Error A	7.3	8.7	7.7	8.3	9.8	6.0	7.7
F(5%)	s	s	s	s	s	s	s

FQH-38	4904	6644	8533	6250	6309	6539	10335
VIVEK HYBRID-21	5275	6573	7585	6676	6284	6919	9182
VIVEK HYBRID-17	6364	7299	7740	6250	8191	7157	9404
VIVEK QPM- 9	5512	8444	7545	5944	6019	8706	9179
VIVEK HYBRID -9	7080	6916	7260	7176	6957	7847	8824

C.D.(5%)Bi-Bj	800.9	386.6	369.5	327.8	932.5	353.2	458.3
C.V.(%)ErrorB	14.1	6.5	4.9	5.2	14.2	5.7	5.0
F(5%)	s	s	s	s	s	s	s

Cont....

A - 53

Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)		
		Arbhavi	Hyderabad	Karimnagar	Kolhapur	Arbhavi	Hyderabad	Karimnagar
N Levels	Genotype							
100:50:50	FQH-38	65.0	66.1	83.1	82.8	64.4	43.9	83.1
	VIVEK HYBRID-21	60.8	63.5	84.2	82.8	60.6	45.2	84.2
	VIVEK HYBRID-17	60.8	66.1	84.0	82.2	60.6	49.3	84.0
	VIVEK QPM- 9	60.0	60.9	83.2	83.3	60.0	41.9	83.2
	VIVEK HYBRID -9	64.2	65.7	83.6	83.3	63.6	51.3	83.6
150:65:65	FQH-38	66.1	65.0	84.6	83.3	63.9	47.6	84.6
	VIVEK HYBRID-21	65.3	62.6	83.1	83.1	62.8	47.2	83.1
	VIVEK HYBRID-17	62.8	64.8	82.9	83.3	62.8	59.8	82.9
	VIVEK QPM- 9	61.4	62.6	81.4	83.1	61.4	50.4	81.4
	VIVEK HYBRID -9	66.9	66.5	83.3	83.3	65.6	55.7	83.3
200:80:80	FQH-38	59.4	64.4	82.1	83.3	61.7	49.8	82.1
	VIVEK HYBRID-21	62.5	62.0	83.3	81.7	61.9	49.3	83.3
	VIVEK HYBRID-17	59.4	65.6	85.0	82.2	59.4	60.7	85.0
	VIVEK QPM- 9	59.4	63.1	82.2	83.1	59.4	53.1	82.2
	VIVEK HYBRID -9	60.3	65.9	83.1	83.3	58.9	56.7	83.1

Location mean	62.3	64.3	83.3	82.9	61.8	50.8	83.3
C.D.(5%) AiBj-AiBk	5.1	2.7	2.6	1.7	4.8	3.6	2.6
C.D.(5%) AiBk-AjBk	4.9	2.7	2.9	1.7	4.9	3.7	2.9
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

100:50:50	62.2	64.5	83.6	82.9	61.8	46.3	83.6
150:65:65	64.5	64.3	83.1	83.2	63.3	52.1	83.1
200:80:80	60.2	64.2	83.1	82.7	60.3	53.9	83.1

C.D.(5%) Ai-Aj	2.0	1.2	1.9	0.8	2.5	1.9	1.9
C.V.(%) Error A	3.1	1.8	2.9	1.0	4.0	3.7	2.9
F(5%)	s	n.s.	n.s.	n.s.	n.s.	s	n.s.

FQH-38	63.5	65.2	83.2	83.1	63.3	47.1	83.2
VIVEK HYBRID-21	62.9	62.7	83.5	82.5	61.8	47.2	83.5
VIVEK HYBRID-17	61.0	65.5	84.0	82.6	60.9	56.6	84.0
VIVEK QPM- 9	60.3	62.2	82.3	83.1	60.3	48.5	82.3
VIVEK HYBRID -9	63.8	66.0	83.3	83.3	62.7	54.6	83.3

C.D.(5%)Bi-Bj	2.9	1.6	1.5	1.0	2.8	2.1	1.5
C.V.(%)ErrorB	4.8	2.5	2.1	1.2	4.6	4.2	2.1
F(5%)	n.s.	s	n.s.	n.s.	n.s.	s	n.s.

Cont....

A - 54

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking		
		N Levels	Genotype	Arbhavi	Hyderabad	Karimnagar	Kolhapur	Hyderabad
100:50:50	FQH-38		156.3	228.0	178.5	162.3	50.7	54.7
	VIVEK HYBRID-21		156.0	230.3	169.8	154.7	50.0	55.7
	VIVEK HYBRID-17		165.7	224.3	177.3	154.7	51.7	54.3
	VIVEK QPM-9		163.3	240.0	183.0	165.0	51.7	54.3
	VIVEK HYBRID -9		171.7	235.0	183.0	162.0	50.3	53.7
150:65:65	FQH-38		170.0	246.7	177.5	168.3	50.3	53.0
	VIVEK HYBRID-21		170.0	234.0	177.0	166.0	51.3	52.7
	VIVEK HYBRID-17		177.3	233.3	173.3	163.0	49.7	51.0
	VIVEK QPM-9		166.7	244.7	192.5	180.0	52.7	51.0
	VIVEK HYBRID -9		171.0	241.0	187.8	168.3	49.3	52.7
200:80:80	FQH-38		175.3	247.3	178.0	171.7	49.0	51.0
	VIVEK HYBRID-21		160.3	234.3	174.8	170.3	50.0	52.0
	VIVEK HYBRID-17		163.0	227.0	170.8	157.0	51.0	50.0
	VIVEK QPM-9		162.3	247.3	184.5	178.7	52.3	50.3
	VIVEK HYBRID -9		158.0	241.7	174.5	181.0	50.0	49.3

Location mean	165.8	237.0	178.8	166.9	50.7	52.4
C.D.(5%) AiBj-AiBk	9.3	10.4	6.5	8.5	1.9	1.3
C.D.(5%) AiBk-AjBk	9.2	13.1	10.4	9.7	1.8	1.3
F(5%)	s	n.s.	s	n.s.	n.s.	n.s.

100:50:50	162.6	231.5	178.3	159.7	50.9	54.5
150:65:65	171.0	239.9	181.6	169.1	50.7	52.1
200:80:80	163.8	239.5	176.5	171.7	50.5	50.5

C.D.(5%) Ai-Aj	4.0	9.4	8.7	6.1	0.7	0.5
C.V.(%) Error A	2.4	3.9	6.3	3.6	1.3	1.0
F(5%)	s	n.s.	n.s.	s	n.s.	s

FQH-38	167.2	240.7	178.0	167.4	50.0	52.9
VIVEK HYBRID-21	162.1	232.9	173.8	163.7	50.4	53.4
VIVEK HYBRID-17	168.7	228.2	173.8	158.2	50.8	51.8
VIVEK QPM-9	164.1	244.0	186.7	174.6	52.2	51.9
VIVEK HYBRID -9	166.9	239.2	181.8	170.4	49.9	51.9

C.D.(5%)Bi-Bj	5.4	6.0	3.7	4.9	1.1	0.8
C.V.(%)ErrorB	3.3	2.6	2.5	3.0	2.2	1.5
F(5%)	n.s.	s	s	s	s	s

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A - 55

Main Plot	Sub Plot	Fodder Yield (Kg/ha)	Ear Height (cm)	Moisture (%)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob
N Levels	Genotype	Arbhavi					
100:50:50	FQH-38	1944.4	73.0	19.1	13.5	12.5	15.5
	VIVEK HYBRID-21	1944.4	70.7	20.7	13.1	12.2	14.0
	VIVEK HYBRID-17	2000.0	72.7	20.5	13.0	12.2	15.1
	VIVEK QPM- 9	2027.8	63.3	19.2	13.2	12.4	15.1
	VIVEK HYBRID -9	1833.3	74.7	23.2	14.2	12.6	15.7
150:65:65	FQH-38	2194.4	79.7	19.4	14.0	13.2	15.9
	VIVEK HYBRID-21	2166.7	76.3	19.6	13.8	13.5	15.5
	VIVEK HYBRID-17	2138.9	73.7	20.8	13.8	13.9	14.6
	VIVEK QPM- 9	2138.9	75.7	19.2	14.0	13.5	16.5
	VIVEK HYBRID -9	2111.1	78.0	21.8	14.1	13.4	15.5
200:80:80	FQH-38	2277.8	75.7	19.7	13.6	12.8	15.5
	VIVEK HYBRID-21	2194.4	72.7	19.4	13.8	14.4	14.6
	VIVEK HYBRID-17	2222.2	71.3	20.0	12.9	12.6	14.7
	VIVEK QPM- 9	2277.8	76.0	20.3	14.6	13.1	16.1
	VIVEK HYBRID -9	2444.4	67.3	22.0	14.2	14.2	15.9

Location mean	2127.8	73.4	20.3	13.7	13.1	15.4
C.D.(5%) AiBj-AiBk	273.2	5.9	2.7	0.7	0.9	0.7
C.D.(5%) AiBk-AjBk	314.8	6.0	2.4	0.7	0.8	1.0
F(5%)	n.s.	s	n.s.	n.s.	s	s

100:50:50	1950.0	70.9	20.6	13.4	12.4	15.1
150:65:65	2150.0	76.7	20.2	14.0	13.5	15.6
200:80:80	2283.3	72.6	20.3	13.8	13.4	15.4

C.D.(5%) Ai-Aj	203.4	2.9	0.2	0.2	0.3	0.8
C.V.(%) Error A	9.4	3.9	1.1	1.2	2.4	5.1
F(5%)	s	s	s	s	s	n.s.

FQH-38	2138.9	76.1	19.4	13.7	12.8	15.6
VIVEK HYBRID-21	2101.9	73.2	19.9	13.6	13.3	14.7
VIVEK HYBRID-17	2120.4	72.6	20.4	13.3	12.9	14.8
VIVEK QPM- 9	2148.1	71.7	19.6	13.9	13.0	15.9
VIVEK HYBRID -9	2129.6	73.3	22.4	14.2	13.4	15.7

C.D.(5%)Bi-Bj	157.7	3.4	1.6	0.4	0.5	0.4
C.V.(%)ErrorB	7.6	4.8	7.9	3.2	3.9	2.8
F(5%)	n.s.	n.s.	s	s	n.s.	s

Cont....

A - 56

Main Plot	Sub Plot	No. of Kernels/ Row	Test Weight (g) 100 Grain	Shelling (%)	Moisture (%)
N Levels	Genotype	Arbhavi	Arbhavi	Arbhavi	Karimnagar
100:50:50	FQH-38	32.9	26.3	83.2	12.1
	VIVEK HYBRID-21	30.8	26.3	82.6	12.0
	VIVEK HYBRID-17	29.1	32.3	82.2	12.2
	VIVEK QPM- 9	26.4	29.3	83.3	11.9
	VIVEK HYBRID -9	30.3	27.7	83.2	11.9
150:65:65	FQH-38	35.1	25.7	82.0	12.3
	VIVEK HYBRID-21	34.2	30.3	81.5	12.2
	VIVEK HYBRID-17	31.1	29.3	81.3	11.5
	VIVEK QPM- 9	32.9	22.7	81.3	11.8
	VIVEK HYBRID -9	30.8	29.3	82.2	12.4
200:80:80	FQH-38	34.5	28.3	81.5	11.5
	VIVEK HYBRID-21	34.0	28.3	81.8	12.7
	VIVEK HYBRID-17	32.5	29.0	80.8	12.0
	VIVEK QPM- 9	33.1	28.3	81.1	10.7
	VIVEK HYBRID -9	30.5	32.0	81.0	11.6

Location mean	31.9	28.4	81.9	11.9
C.D.(5%) AiBj-AiBk	2.5	3.5	1.4	1.0
C.D.(5%) AiBk-AjBk	3.5	3.3	2.4	1.1
F(5%)	s	s	n.s.	n.s.

100:50:50	29.9	28.4	82.9	12.0
150:65:65	32.8	27.5	81.6	12.0
200:80:80	32.9	29.2	81.2	11.7

C.D.(5%) Ai-Aj	2.8	1.1	2.1	0.5
C.V.(%) Error A	8.5	3.7	2.5	5.6
F(5%)	n.s.	s	n.s.	n.s.

FQH-38	34.2	26.8	82.2	12.0
VIVEK HYBRID-21	33.0	28.3	82.0	12.3
VIVEK HYBRID-17	30.9	30.2	81.4	11.9
VIVEK QPM- 9	30.8	26.8	81.9	11.4
VIVEK HYBRID -9	30.5	29.7	82.1	12.0

C.D.(5%) Bi-Bj	1.4	2.0	0.8	0.6
C.V.(%) Error B	4.7	7.4	1.0	6.1
F(5%)	s	s	n.s.	n.s.

A - 57

Table 13: Relative performance of pre-release germplasm of Extra Early Maturity at different levels of nutrient during Kharif 2009 in Zone V

Main Plot	Sub Plot	Grain Yield (Kg/ha)				Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)
		Banswara	Chhindwara	Godhra	Udaipur		
N Levels	Genotype						
100:50:50	FH-3358	2828	3904	4460	3925	3761	6682
	VIVEK HYBRID-21	2911	2904	4382	3920	3833	6538
	VIVEK HYBRID-17	2922	3630	4269	2230	3639	6389
	VIVEK QPM- 9	2917	3344	4964	2813	3750	7464
	VIVEK HYBRID -9	3344	4798	4098	3625	4306	6133
150:65:65	FH-3358	3139	4433	5076	4050	3972	7598
	VIVEK HYBRID-21	3333	3694	4918	4003	4194	7376
	VIVEK HYBRID-17	3217	3802	4976	2213	4000	7493
	VIVEK QPM- 9	3756	4348	5687	2803	4806	8520
	VIVEK HYBRID -9	3878	5237	4918	3510	5111	7360
200:80:80	FH-3358	3389	4448	5122	4058	4528	7687
	VIVEK HYBRID-21	4050	4163	5464	4113	5506	8151
	VIVEK HYBRID-17	2922	4552	5064	2310	3861	7827
	VIVEK QPM- 9	4222	5472	5871	2903	5569	8816
	VIVEK HYBRID -9	3728	5374	4956	3508	4833	7438

Location mean	3370.4	4273.6	4948.3	3332.0	4378.0	7431.4
C.D.(5%) AiBj-AiBk	543.9	1618.4	578.6	378.6	627.2	853.4
C.D.(5%) AiBk-AjBk	608.8	1640.4	772.1	411.6	744.5	1112.7
F(5%)	s	n.s.	n.s.	n.s.	s	n.s.

100:50:50	2984	3716	4435	3303	3858	6641
150:65:65	3464	4303	5115	3316	4417	7669
200:80:80	3662	4802	5296	3378	4859	7984

C.D.(5%) Ai-Aj	375.4	794.4	584.4	236.5	501.0	826.4
C.V.(%) Error A	11.0	18.3	11.7	9.2	11.3	11.0
F(5%)	s	s	s	n.s.	s	s

FH-3358	3119	4262	4886	4011	4087	7322
VIVEK HYBRID-21	3431	3587	4921	4012	4511	7355
VIVEK HYBRID-17	3020	3994	4770	2251	3833	7236
VIVEK QPM- 9	3631	4388	5507	2839	4708	8267
VIVEK HYBRID -9	3650	5136	4657	3548	4750	6977

C.D.(5%)Bi-Bj	314.0	934.4	334.1	218.6	362.1	492.7
C.V.(%)ErrorB	9.6	22.5	6.9	7.9	8.5	6.8
F(5%)	s	s	s	s	s	s

Cont....

A - 58

Main Plot	Sub Plot	No. of Plant (000/ha)				No. of Cobs (000/ha)			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	FH-3358		57.8	61.5	60.2	54.0	58.1	58.1	52.7
	VIVEK HYBRID-21		60.6	61.9	58.4	57.3	59.2	58.9	64.7
	VIVEK HYBRID-17		61.7	61.1	60.7	61.3	59.4	60.0	57.0
	VIVEK QPM- 9		61.1	63.3	58.4	53.3	60.6	60.0	55.7
	VIVEK HYBRID -9		59.7	62.6	58.4	56.7	62.5	58.9	58.0
150:65:65	FH-3358		63.9	61.9	62.4	53.2	63.6	61.5	52.0
	VIVEK HYBRID-21		63.3	63.0	58.0	57.5	64.4	63.3	64.0
	VIVEK HYBRID-17		63.9	63.3	59.1	60.0	62.2	61.5	58.0
	VIVEK QPM- 9		63.3	64.1	55.8	52.7	65.0	61.5	52.8
	VIVEK HYBRID -9		63.3	63.0	60.2	56.0	65.3	59.6	58.5
200:80:80	FH-3358		61.9	62.6	56.9	53.3	66.7	62.2	50.7
	VIVEK HYBRID-21		61.9	64.1	59.6	57.3	65.0	64.4	63.3
	VIVEK HYBRID-17		65.3	63.7	60.4	60.7	60.3	61.5	58.0
	VIVEK QPM- 9		65.3	64.4	57.1	53.3	66.1	61.9	53.3
	VIVEK HYBRID -9		63.9	65.2	58.2	44.7	65.6	63.3	55.8

Location mean	62.5	63.0	58.9	55.4	62.9	61.1	57.0
C.D.(5%) AiBj-AiBk	6.5	5.5	6.7	10.2	5.3	5.6	4.0
C.D.(5%) AiBk-AjBk	6.3	5.2	7.1	10.8	5.2	5.3	4.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	60.2	62.1	59.2	56.5	59.9	59.2	57.6
150:65:65	63.6	63.0	59.1	55.9	64.1	61.5	57.1
200:80:80	63.7	64.0	58.4	53.9	64.7	62.7	56.2

C.D.(5%) Ai-Aj	2.5	1.7	4.0	5.9	2.2	1.7	2.8
C.V.(%) Error A	4.0	2.7	6.7	13.7	3.4	2.8	6.3
F(5%)	s	n.s.	n.s.	n.s.	s	s	n.s.

FH-3358	61.2	62.0	59.9	53.5	62.8	60.6	51.8
VIVEK HYBRID-21	61.9	63.0	58.7	57.4	62.9	62.2	64.0
VIVEK HYBRID-17	63.6	62.7	60.1	60.7	60.6	61.0	57.7
VIVEK QPM- 9	63.2	64.0	57.1	53.1	63.9	61.1	53.9
VIVEK HYBRID -9	62.3	63.6	59.0	52.4	64.4	60.6	57.4

C.D.(5%)Bi-Bj	3.7	3.2	3.9	5.9	3.0	3.2	2.3
C.V.(%)ErrorB	6.2	5.2	6.7	12.8	5.0	5.5	4.9
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.	s

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A - 59

Main Plot	Sub Plot	Plant Height (cm)				Days to 50% Silking			
		N Levels	Genotype	Banswara	Chhindwara	Godhra	Udaipur	Banswara	Chhindwara
100:50:50	FH-3358		133.3	144.7	156.7	152.8	44.0	50.3	48.3
	VIVEK HYBRID-21		156.7	173.7	170.0	178.0	48.0	49.7	46.7
	VIVEK HYBRID-17		153.3	154.0	197.3	162.0	47.3	48.0	47.7
	VIVEK QPM- 9		171.7	166.3	191.7	170.0	43.3	50.0	48.7
	VIVEK HYBRID -9		180.0	140.7	193.3	167.0	47.0	50.3	53.3
150:65:65	FH-3358		156.7	179.0	163.0	154.0	48.0	49.7	46.7
	VIVEK HYBRID-21		161.7	175.7	193.7	181.0	52.3	49.3	45.7
	VIVEK HYBRID-17		163.3	165.3	194.7	166.0	50.0	47.7	47.3
	VIVEK QPM- 9		176.7	175.3	205.0	172.5	49.7	49.3	48.3
	VIVEK HYBRID -9		165.3	142.0	200.7	168.8	50.0	49.7	51.7
200:80:80	FH-3358		136.0	191.0	166.7	155.0	48.0	48.0	46.7
	VIVEK HYBRID-21		185.0	184.7	207.3	182.0	53.0	48.0	45.3
	VIVEK HYBRID-17		161.0	179.3	205.0	168.8	51.0	47.7	46.3
	VIVEK QPM- 9		180.0	176.0	210.0	174.0	50.0	48.7	46.7
	VIVEK HYBRID -9		174.3	177.3	206.7	176.0	52.0	48.3	50.3

Location mean	163.7	168.3	190.8	168.5	48.9	49.0	48.0
C.D.(5%) AiBj-AiBk	19.2	13.7	9.2	6.3	4.7	1.7	1.3
C.D.(5%) AiBk-AjBk	22.4	13.4	9.3	8.7	5.4	1.8	1.7
F(5%)	n.s.	s	s	n.s.	n.s.	n.s.	n.s.

100:50:50	159.0	155.9	181.8	166.0	45.9	49.7	48.9
150:65:65	164.7	167.5	191.4	168.5	50.0	49.1	47.9
200:80:80	167.3	181.7	199.1	171.2	50.8	48.1	47.1

C.D.(5%) Ai-Aj	14.9	5.6	4.5	6.7	3.4	0.9	1.3
C.V.(%) Error A	9.0	3.3	2.3	5.1	6.9	1.8	2.6
F(5%)	n.s.	s	s	n.s.	s	s	s

FH-3358	142.0	171.6	162.1	153.9	46.7	49.3	47.2
VIVEK HYBRID-21	167.8	178.0	190.3	180.3	51.1	49.0	45.9
VIVEK HYBRID-17	159.2	166.2	199.0	165.6	49.4	47.8	47.1
VIVEK QPM- 9	176.1	172.6	202.2	172.2	47.7	49.3	47.9
VIVEK HYBRID -9	173.2	153.3	200.2	170.6	49.7	49.4	51.8

C.D.(5%)Bi-Bj	11.1	7.9	5.3	3.6	2.7	1.0	0.8
C.V.(%)ErrorB	6.9	4.8	2.9	2.6	5.8	2.1	1.6
F(5%)	s	s	s	s	s	s	s

Cont....

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Main Plot	Sub Plot	Shelling (%)	No. of PFSR affected Plant (000/ha)
N Levels	Genotype	Udaipur	Udaipur
100:50:50	FH-3358	82.3	0.8
	VIVEK HYBRID-21	82.3	0.5
	VIVEK HYBRID-17	71.2	1.7
	VIVEK QPM- 9	74.2	1.7
	VIVEK HYBRID -9	76.1	1.7
150:65:65	FH-3358	80.6	0.7
	VIVEK HYBRID-21	81.1	0.3
	VIVEK HYBRID-17	69.9	3.3
	VIVEK QPM- 9	73.1	3.0
	VIVEK HYBRID -9	75.2	3.7
200:80:80	FH-3358	79.1	0.8
	VIVEK HYBRID-21	80.0	0.5
	VIVEK HYBRID-17	68.2	4.3
	VIVEK QPM- 9	71.3	2.5
	VIVEK HYBRID -9	73.1	3.7

Location mean	75.8	1.9
C.D.(5%) AiBj-AiBk	2.9	1.0
C.D.(5%) AiBk-AjBk	3.8	1.1
F(5%)	n.s.	s

100:50:50	77.2	1.3
150:65:65	76.0	2.2
200:80:80	74.3	2.4

C.D.(5%) Ai-Aj	2.8	0.7
C.V.(%) Error A	4.8	47.9
F(5%)	n.s.	s

FH-3358	80.7	0.8
VIVEK HYBRID-21	81.1	0.4
VIVEK HYBRID-17	69.8	3.1
VIVEK QPM- 9	72.8	2.4
VIVEK HYBRID -9	74.8	3.0

C.D.(5%)Bi-Bj	1.7	0.6
C.V.(%)ErrorB	2.7	36.1
F(5%)	s	s

A - 61

Table 14: Effect of Fertility levels and genotype on Sweet Corn Yield at different location.

Main Plot	Sub Plot	Green Cob Yield (Kg/ha)				
		Delhi	Karnal	Ludhiana	Varanasi	Hyderabad
N Levels	Genotype					
100:50:50	WIN ORANGE SWEET CORN	6222	7466.7	6937.5	4422	4500.0
	MADHURI SWEET CORN	6944	7156.7	8604.2	4822	4444.4
	SWEET CORN HYBRID	7056	6473.3	10361.1	6467	5925.9
150:65:65	WIN ORANGE SWEET CORN	7667	7530.0	7791.7	5511	4870.4
	MADHURI SWEET CORN	8444	7103.3	9083.3	5422	5555.6
	SWEET CORN HYBRID	8500	6596.7	11191.0	7044	6018.5
200:80:80	WIN ORANGE SWEET CORN	8556	7683.3	8027.8	5733	5555.6
	MADHURI SWEET CORN	9222	7260.0	9236.1	6378	5740.7
	SWEET CORN HYBRID	9389	6780.0	11489.6	7711	6111.1

Location mean	8000.0	7116.7	9191.4	5945.7	5413.6
C.D.(5%) AiBj-AiBk	519.9	504.9	898.7	1023.8	1238.3
C.D.(5%) AiBk-AjBk	447.7	1002.6	1041.3	1255.4	1164.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	6741	7032.2	8634.3	5237	4956.8
150:65:65	8204	7076.7	9355.3	5993	5481.5
200:80:80	9056	7241.1	9584.5	6607	5802.5

C.D.(5%) Ai-Aj	145.4	919.2	749.4	948.9	588.6
C.V.(%) Error A	1.4	9.9	6.2	12.2	8.3
F(5%)	s	n.s.	n.s.	s	s

WIN ORANGE SWEET CORN	7481	7560.0	7585.6	5222	4975.3
MADHURI SWEET CORN	8204	7173.3	8974.5	5541	5246.9
SWEET CORN HYBRID	8315	6616.7	11013.9	7074	6018.5

C.D.(5%)Bi-Bj	300.2	291.5	518.9	591.1	715.0
C.V.(%)ErrorB	3.7	4.0	5.5	9.7	12.9
F(5%)	s	s	s	s	s

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Main Plot	Sub Plot	Green Stover Yield (Kg/ha)			Sweet Corn Yield (Kg/ha) with huk
		Delhi	Ludhiana	Varanasi	
N Levels	Genotype				
100:50:50	WIN ORANGE SWEET CORN	7000	9027.8	8556	10020
	MADHURI SWEET CORN	7222	10902.8	8822	8617
	SWEET CORN HYBRID	8389	13993.1	11111	8273
150:65:65	WIN ORANGE SWEET CORN	8944	10277.8	8889	9750
	MADHURI SWEET CORN	9111	12256.9	9800	8933
	SWEET CORN HYBRID	10056	14583.3	12222	8347
200:80:80	WIN ORANGE SWEET CORN	10056	11111.1	10000	11250
	MADHURI SWEET CORN	10222	12361.1	11667	9567
	SWEET CORN HYBRID	11167	14201.4	13667	8100

Location mean	9129.6	12079.5	10525.9	9206.3
C.D.(5%) AiBj-AiBk	559.1	1256.2	969.8	891.0
C.D.(5%) AiBk-AjBk	509.1	1352.6	2917.9	993.2
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	7537	11307.9	9496	8970
150:65:65	9370	12372.7	10304	9010
200:80:80	10481	12557.9	11778	9639

C.D.(5%) Ai-Aj	229.9	896.0	2815.8	686.6
C.V.(%) Error A	1.9	5.7	20.4	5.7
F(5%)	s	s	n.s.	n.s.

WIN ORANGE SWEET CORN	8667	10138.9	9148	10340
MADHURI SWEET CORN	8852	11840.3	10096	9039
SWEET CORN HYBRID	9870	14259.3	12333	8240

C.D.(5%)Bi-Bj	322.8	725.3	559.9	514.4
C.V.(%)ErrorB	3.4	5.8	5.2	5.4
F(5%)	s	s	s	s

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Main Plot	Sub Plot	Plant Stand (000/ha)				
		Delhi	Karnal	Ludhiana	Varanasi	Hyderabad
100:50:50	WIN ORANGE SWEET CORN	83.3	74.7	76.7	38.7	48.7
	MADHURI SWEET CORN	82.2	69.3	76.0	38.2	49.8
	SWEET CORN HYBRID	82.2	83.7	78.8	38.0	54.1
150:65:65	WIN ORANGE SWEET CORN	83.3	78.3	76.7	37.6	54.8
	MADHURI SWEET CORN	83.3	78.0	76.4	36.0	57.2
	SWEET CORN HYBRID	82.8	82.7	79.5	37.3	58.0
200:80:80	WIN ORANGE SWEET CORN	81.7	66.7	75.7	38.9	48.5
	MADHURI SWEET CORN	82.8	67.7	76.4	37.6	55.9
	SWEET CORN HYBRID	83.3	81.7	78.1	37.6	60.6

Location mean	82.8	75.9	77.2	37.8	54.2
C.D.(5%) AiBj-AiBk	1.7	10.8	6.7	2.0	7.6
C.D.(5%) AiBk-AjBk	2.0	10.8	8.2	2.8	7.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	82.6	75.9	77.2	38.3	50.9
150:65:65	83.1	79.7	77.5	37.0	56.7
200:80:80	82.6	72.0	76.7	38.0	55.0

C.D.(5%) Ai-Aj	1.5	6.3	6.1	2.3	4.4
C.V.(%) Error A	1.3	6.3	6.1	4.6	6.2
F(5%)	n.s.	n.s.	n.s.	n.s.	s

WIN ORANGE SWEET CORN	82.8	73.2	76.4	38.4	50.7
MADHURI SWEET CORN	82.8	71.7	76.3	37.3	54.3
SWEET CORN HYBRID	82.8	82.7	78.8	37.6	57.5

C.D.(5%)Bi-Bj	1.0	6.2	3.9	1.1	4.4
C.V.(%)ErrorB	1.2	8.0	4.9	3.0	7.9
F(5%)	n.s.	s	n.s.	n.s.	s

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Main Plot	Sub Plot	No. of Green Cobs (000/ha)			
		Delhi	Ludhiana	Varanasi	Hyderabad
N Levels	Genotype				
100:50:50	WIN ORANGE SWEET CORN	81.7	75.7	40.9	43.7
	MADHURI SWEET CORN	80.0	74.7	40.9	39.4
	SWEET CORN HYBRID	79.4	77.1	40.7	49.1
150:65:65	WIN ORANGE SWEET CORN	82.2	78.8	44.0	48.3
	MADHURI SWEET CORN	81.1	76.4	40.7	45.4
	SWEET CORN HYBRID	81.1	78.8	39.8	54.4
200:80:80	WIN ORANGE SWEET CORN	80.0	80.2	45.1	49.3
	MADHURI SWEET CORN	81.7	77.4	43.8	50.9
	SWEET CORN HYBRID	80.6	79.5	42.0	56.3

Location mean	80.9	77.6	42.0	48.5
C.D.(5%) AiBj-AiBk	1.4	4.1	2.8	3.9
C.D.(5%) AiBk-AjBk	2.0	6.3	5.0	3.9
F(5%)	s	n.s.	n.s.	n.s.

100:50:50	80.4	75.8	40.8	44.1
150:65:65	81.5	78.0	41.5	49.4
200:80:80	80.7	79.1	43.6	52.2

C.D.(5%) Ai-Aj	1.7	5.4	4.4	2.3
C.V.(%) Error A	1.6	5.3	8.1	3.6
F(5%)	n.s.	n.s.	n.s.	s

WIN ORANGE SWEET CORN	81.3	78.2	43.3	47.1
MADHURI SWEET CORN	80.9	76.2	41.8	45.2
SWEET CORN HYBRID	80.4	78.5	40.8	53.3

C.D.(5%)Bi-Bj	0.8	2.4	1.6	2.3
C.V.(%)ErrorB	1.0	3.0	3.8	4.5
F(5%)	n.s.	n.s.	s	s

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Main Plot	Sub Plot	Plant Height (cm)			
		Delhi	Ludhiana	Varanasi	Hyderabad
N Levels	Genotype				
100:50:50	WIN ORANGE SWEET CORN	136.0	149.0	166.3	171.3
	MADHURI SWEET CORN	140.3	145.0	158.3	178.0
	SWEET CORN HYBRID	138.7	143.7	172.7	189.7
150:65:65	WIN ORANGE SWEET CORN	146.0	154.0	176.3	174.7
	MADHURI SWEET CORN	149.7	157.7	176.7	180.7
	SWEET CORN HYBRID	148.3	149.0	183.0	188.7
200:80:80	WIN ORANGE SWEET CORN	152.7	161.7	180.3	178.3
	MADHURI SWEET CORN	155.3	156.7	184.3	177.7
	SWEET CORN HYBRID	155.0	150.0	185.3	188.3

Location mean	146.9	151.9	175.9	180.8
C.D.(5%) AiBj-AiBk	1.8	8.2	15.3	9.2
C.D.(5%) AiBk-AjBk	2.1	7.9	14.1	9.8
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	138.3	145.9	165.8	179.7
150:65:65	148.0	153.6	178.7	181.3
200:80:80	154.3	156.1	183.3	181.4

C.D.(5%) Ai-Aj	1.6	4.4	6.7	6.4
C.V.(%) Error A	0.8	2.2	2.9	2.7
F(5%)	s	s	s	n.s.

WIN ORANGE SWEET CORN	144.9	154.9	174.3	174.8
MADHURI SWEET CORN	148.4	153.1	173.1	178.8
SWEET CORN HYBRID	147.3	147.6	180.3	188.9

C.D.(5%)Bi-Bj	1.0	4.7	8.8	5.3
C.V.(%)ErrorB	0.7	3.0	4.9	2.9
F(5%)	s	s	n.s.	s

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Main Plot	Sub Plot	Days to 50% Silking			
		Karnal	Ludhiana	Varanasi	Hyderabad
N Levels	Genotype				
100:50:50	WIN ORANGE SWEET CORN	59.7	58.0	49.7	45.0
	MADHURI SWEET CORN	58.7	57.7	50.0	44.0
	SWEET CORN HYBRID	59.0	54.3	51.0	45.3
150:65:65	WIN ORANGE SWEET CORN	59.7	56.3	48.7	46.0
	MADHURI SWEET CORN	61.0	57.3	49.0	44.3
	SWEET CORN HYBRID	59.7	54.0	50.3	45.7
200:80:80	WIN ORANGE SWEET CORN	61.7	54.7	48.7	44.7
	MADHURI SWEET CORN	61.0	56.7	48.3	44.7
	SWEET CORN HYBRID	59.7	53.3	50.0	45.0

Location mean	60.0	55.8	49.5	45.0
C.D.(5%) AiBj-AiBk	1.7	1.6	1.6	1.2
C.D.(5%) AiBk-AjBk	1.7	2.5	1.5	1.9
F(5%)	n.s.	n.s.	n.s.	n.s.

100:50:50	59.1	56.7	50.2	44.8
150:65:65	60.1	55.9	49.3	45.3
200:80:80	60.8	54.9	49.0	44.8

C.D.(5%) Ai-Aj	0.9	2.2	0.8	1.6
C.V.(%) Error A	1.2	2.9	1.2	2.7
F(5%)	s	n.s.	s	n.s.

WIN ORANGE SWEET CORN	60.3	56.3	49.0	45.2
MADHURI SWEET CORN	60.2	57.2	49.1	44.3
SWEET CORN HYBRID	59.4	53.9	50.4	45.3

C.D.(5%)Bi-Bj	1.0	0.9	0.9	0.7
C.V.(%)ErrorB	1.6	1.7	1.8	1.5
F(5%)	n.s.	s	s	s

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Main Plot	Sub Plot	Ear Height (cm)		Days to 50% Tesseling		
		Ludhiana	Varanasi	Karnal	Ludhiana	Varanasi
N Levels	Genotype					
100:50:50	WIN ORANGE SWEET CORN	62.3	86.0	57.7	54.0	43.7
	MADHURI SWEET CORN	68.0	90.7	56.7	54.7	43.3
	SWEET CORN HYBRID	73.3	96.0	57.0	52.0	44.0
150:65:65	WIN ORANGE SWEET CORN	69.7	89.7	57.7	53.3	43.0
	MADHURI SWEET CORN	74.3	94.7	59.0	54.3	43.3
	SWEET CORN HYBRID	77.7	101.7	57.7	51.3	43.7
200:80:80	WIN ORANGE SWEET CORN	77.7	92.3	59.7	52.0	42.7
	MADHURI SWEET CORN	73.3	89.7	61.7	53.3	43.3
	SWEET CORN HYBRID	75.3	102.0	57.7	51.0	43.7

Location mean	72.4	93.6	58.3	52.9	43.4
C.D.(5%) AiBj-AiBk	11.3	7.8	3.7	1.3	1.4
C.D.(5%) AiBk-AjBk	10.4	11.1	4.0	1.9	1.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

100:50:50	67.9	90.9	57.1	53.6	43.7
150:65:65	73.9	95.3	58.1	53.0	43.3
200:80:80	75.4	94.7	59.7	52.1	43.2

C.D.(5%) Ai-Aj	5.0	9.1	2.7	1.5	1.0
C.V.(%) Error A	5.2	7.5	3.5	2.2	1.8
F(5%)	s	n.s.	n.s.	n.s.	n.s.

WIN ORANGE SWEET CORN	69.9	89.3	58.3	53.1	43.1
MADHURI SWEET CORN	71.9	91.7	59.1	54.1	43.3
SWEET CORN HYBRID	75.4	99.9	57.4	51.4	43.8

C.D.(5%)Bi-Bj	6.5	4.5	2.1	0.7	0.8
C.V.(%)ErrorB	8.8	4.7	3.6	1.4	1.8
F(5%)	n.s.	s	n.s.	s	n.s.

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Main Plot	Sub Plot	Cob Length (cm)	Cob Girth (cm)	Brix Ratio	Days to 50% Brown Husk	Sugar (%)
N Levels	Genotype	Karnal	Karnal	Karnal	Varanasi	Hyderabad
100:50:50	WIN ORANGE SWEET CORN	15.8	4.4	18.7	68.7	16.6
	MADHURI SWEET CORN	17.0	4.3	18.3	69.7	17.3
	SWEET CORN HYBRID	16.3	4.3	18.0	70.0	26.8
150:65:65	WIN ORANGE SWEET CORN	17.4	4.4	17.3	68.7	20.1
	MADHURI SWEET CORN	17.9	4.2	17.7	68.0	16.0
	SWEET CORN HYBRID	17.5	4.3	17.7	70.7	25.5
200:80:80	WIN ORANGE SWEET CORN	18.7	4.3	17.2	68.3	16.7
	MADHURI SWEET CORN	17.6	4.4	17.3	69.3	15.5
	SWEET CORN HYBRID	16.5	4.3	17.7	71.0	24.1

Location mean	17.2	4.3	17.8	69.4	19.9
C.D.(5%) AiBj-AiBk	1.6	0.3	2.8	1.7	1.8
C.D.(5%) AiBk-AjBk	1.9	0.3	2.6	2.6	1.8
F(5%)	n.s.	n.s.	n.s.	n.s.	s

100:50:50	16.4	4.3	18.3	69.4	20.3
150:65:65	17.6	4.3	17.6	69.1	20.5
200:80:80	17.6	4.3	17.4	69.6	18.8

C.D.(5%) Ai-Aj	1.4	0.1	1.4	2.2	1.1
C.V.(%) Error A	6.2	2.5	5.8	2.5	4.1
F(5%)	n.s.	n.s.	n.s.	n.s.	s

WIN ORANGE SWEET CORN	17.3	4.4	17.7	68.6	17.8
MADHURI SWEET CORN	17.5	4.3	17.8	69.0	16.3
SWEET CORN HYBRID	16.8	4.3	17.8	70.6	25.5

C.D.(5%)Bi-Bj	0.9	0.2	1.6	1.0	1.0
C.V.(%)ErrorB	5.4	3.5	8.7	1.4	5.0
F(5%)	n.s.	n.s.	n.s.	s	s

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Table 15: Response of Full Season maturity Quality Protein Maize (QPM) genotypes to fertility levels at different location.

Main Plot	Sub Plot	Grain Yield (Kg/ha)		Cob Yield (Kg/ha)			Fodder Yield (Kg/ha)
		Karimnagar	Kolhapur	Arbhavi	Karimnagar	Kolhapur	Arbhavi
N Levels	Genotypes						
100:50:50	VEH QPM-3027	4885	6683	8611	5969	8017	5500
	HQPM-1	4224	4911	7861	4692	5961	5222
	HQPM-5	3899	5978	9583	5028	7136	5417
	HQPM-7	4617	6964	8611	5328	8344	5583
150:65:65	VEH QPM-3027	5993	7208	10083	7272	8642	5500
	HQPM-1	6329	7006	8667	7699	8325	5528
	HQPM-5	4642	7064	8556	6057	8478	5278
	HQPM-7	6075	7661	9861	6811	9111	5333
200:80:80	VEH QPM-3027	6594	8036	9722	8061	9700	5361
	HQPM-1	6524	7894	8750	7631	9539	5333
	HQPM-5	5708	8061	8472	6713	9672	5389
	HQPM-7	6144	8847	8611	7054	10508	5667

Location mean	5469.4	7192.8	8949.1	6526.2	8619.4	5425.9
C.D.(5%) AiBj-AiBk	479.3	611.1	634.6	482.0	721.1	512.7
C.D.(5%) AiBk-AjBk	530.6	638.7	618.3	517.7	720.0	698.2
F(5%)	s	s	s	s	s	n.s.

100:50:50	4406	6134	8667	5254	7365	5431
150:65:65	5760	7235	9292	6960	8639	5410
200:80:80	6243	8210	8889	7365	9855	5438

C.D.(5%) Ai-Aj	333.6	366.1	290.9	309.1	367.7	547.5
C.V.(%) Error A	7.1	4.5	2.9	5.5	3.8	8.9
F(5%)	s	s	s	s	s	n.s.

VEH QPM-3027	5824	7309	9472	7101	8786	5454
HQPM-1	5692	6604	8426	6674	7942	5361
HQPM-5	4750	7034	8870	5932	8429	5361
HQPM-7	5612	7824	9028	6398	9321	5528

C.D.(5%)Bi-Bj	276.7	352.8	366.4	278.3	416.3	296.0
C.V.(%)ErrorB	6.0	5.0	4.1	5.1	4.9	5.5
F(5%)	s	s	s	s	s	n.s.

A - 70

Main Plot	Sub Plot	No. of Plant (000/ha)			No. of Cobs (000/ha)		Days to 50% Silking
		Arbhavi	Karimnagar	Kolhapur	Arbhavi	Karimnagar	
N Levels	Genotypes						
100:50:50	VEH QPM-3027	58.3	60.6	66.7	58.3	60.6	62.3
	HQPM-1	56.9	61.1	66.4	56.7	61.1	63.3
	HQPM-5	60.8	61.0	66.7	60.8	61.0	64.3
	HQPM-7	61.4	60.8	64.2	61.4	60.8	64.3
150:65:65	VEH QPM-3027	61.7	60.1	65.0	61.7	60.1	61.3
	HQPM-1	60.3	60.1	66.7	57.5	60.1	62.3
	HQPM-5	60.8	61.4	66.7	55.3	61.4	63.0
	HQPM-7	59.4	63.1	66.7	56.7	63.1	63.0
200:80:80	VEH QPM-3027	63.3	62.2	66.7	63.3	62.2	61.0
	HQPM-1	59.4	62.5	65.3	59.4	62.5	62.0
	HQPM-5	58.3	61.8	64.4	63.9	61.8	63.7
	HQPM-7	59.2	61.1	66.4	61.9	61.1	61.3

Location mean	60.0	61.3	66.0	59.7	61.3	62.7
C.D.(5%) AiBj-AiBk	4.1	2.0	2.5	3.9	2.0	2.3
C.D.(5%) AiBk-AjBk	4.3	2.1	3.2	4.7	2.1	2.8
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

100:50:50	59.4	60.9	66.0	59.3	60.9	63.6
150:65:65	60.6	61.2	66.3	57.8	61.2	62.4
200:80:80	60.1	61.9	65.7	62.2	61.9	62.0

C.D.(5%) Ai-Aj	2.5	1.3	2.4	3.3	1.3	2.0
C.V.(%) Error A	3.7	2.5	3.3	4.9	2.5	2.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

VEH QPM-3027	61.1	61.0	66.1	61.1	61.0	61.6
HQPM-1	58.9	61.3	66.1	57.9	61.3	62.6
HQPM-5	60.0	61.4	65.9	60.0	61.4	63.7
HQPM-7	60.0	61.7	65.7	60.0	61.7	62.9

C.D.(5%)Bi-Bj	2.4	1.1	1.4	2.3	1.1	1.3
C.V.(%)ErrorB	4.0	2.2	2.2	3.8	2.2	2.1
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s

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Main Plot	Sub Plot	Plant Height (cm)			Ear Height (cm)	Moisture (%)	
		Arbhavi	Karimnagar	Kolhapur		Arbhavi	Arbhavi
N Levels	Genotypes						
100:50:50	VEH QPM-3027	173.0	150.0	175.7	87.3	12.4	12.5
	HQPM-1	197.3	144.0	178.0	103.7	11.3	12.0
	HQPM-5	199.3	155.8	188.7	101.0	11.0	13.5
	HQPM-7	188.7	164.3	193.0	93.7	14.3	12.3
150:65:65	VEH QPM-3027	191.3	149.5	180.0	99.3	12.8	12.8
	HQPM-1	190.7	143.5	182.7	92.3	13.4	13.0
	HQPM-5	191.0	160.0	198.3	94.7	13.2	13.5
	HQPM-7	181.0	158.5	200.7	89.3	13.9	12.0
200:80:80	VEH QPM-3027	193.3	148.8	195.3	93.0	12.7	12.8
	HQPM-1	188.3	148.3	193.0	88.3	13.8	12.3
	HQPM-5	197.7	165.0	198.3	100.3	12.4	11.8
	HQPM-7	187.7	156.8	205.3	87.3	14.0	12.0

Location mean	189.9	153.7	190.8	94.2	12.9	12.5
C.D.(5%) AiBj-AiBk	8.0	6.3	11.3	10.6	1.2	0.9
C.D.(5%) AiBk-AjBk	8.5	7.0	16.3	12.4	1.3	1.2
F(5%)	s	s	n.s.	s	s	s

100:50:50	189.6	153.5	183.8	96.4	12.2	12.6
150:65:65	188.5	152.9	190.4	93.9	13.3	12.8
200:80:80	191.8	154.7	198.0	92.3	13.2	12.2

C.D.(5%) Ai-Aj	5.0	4.4	13.2	8.4	0.8	1.0
C.V.(%) Error A	2.3	3.3	6.1	7.9	5.5	9.1
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

VEH QPM-3027	185.9	149.4	183.7	93.2	12.6	12.7
HQPM-1	192.1	145.3	184.6	94.8	12.8	12.4
HQPM-5	196.0	160.3	195.1	98.7	12.2	12.9
HQPM-7	185.8	159.8	199.7	90.1	14.1	12.1

C.D.(5%)Bi-Bj	4.6	3.6	6.5	6.1	0.7	0.5
C.V.(%)ErrorB	2.5	2.8	3.4	6.6	5.3	4.9
F(5%)	s	s	s	n.s.	s	s

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Main Plot	Sub Plot	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Co b	No. of Kernels/ Row	Test Weight (g) 100 Grain	Shelling (%)
N Levels	Genotypes	Arbhavi	Arbhavi	Arbhavi	Arbhavi	Arbhavi	Arbhavi
100:50:50	VEH QPM-3027	11.7	12.4	14.0	27.5	34.3	86.5
	HQPM-1	11.2	11.3	14.6	27.6	34.3	85.7
	HQPM-5	11.9	11.0	14.3	26.4	36.7	85.1
	HQPM-7	12.4	14.3	14.6	30.8	35.0	86.1
150:65:65	VEH QPM-3027	10.9	12.8	14.5	31.5	38.7	84.7
	HQPM-1	11.6	13.4	14.1	33.5	34.0	84.5
	HQPM-5	12.0	13.2	14.7	29.9	36.0	83.9
	HQPM-7	12.0	13.9	14.8	32.6	38.3	83.2
200:80:80	VEH QPM-3027	11.8	12.7	14.3	31.2	35.3	84.4
	HQPM-1	13.5	13.8	14.8	31.3	35.7	85.4
	HQPM-5	12.3	12.4	14.3	30.0	38.3	85.8
	HQPM-7	12.4	14.0	14.6	32.9	41.7	85.9

Location mean	12.0	12.9	14.5	30.4	36.5	85.1
C.D.(5%) AiBj-AiBk	1.2	1.2	1.0	4.7	4.1	1.6
C.D.(5%) AiBk-AjBk	1.3	1.3	1.2	5.7	5.2	2.0
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

100:50:50	11.8	12.2	14.4	28.1	35.1	85.8
150:65:65	11.7	13.3	14.5	31.9	36.8	84.1
200:80:80	12.5	13.2	14.5	31.4	37.8	85.4

C.D.(5%) Ai-Aj	0.8	0.8	0.8	4.0	3.8	1.4
C.V.(%) Error A	6.0	5.5	4.9	11.6	9.2	1.5
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

VEH QPM-3027	11.5	12.6	14.3	30.1	36.1	85.2
HQPM-1	12.1	12.8	14.5	30.8	34.7	85.2
HQPM-5	12.1	12.2	14.4	28.8	37.0	84.9
HQPM-7	12.3	14.1	14.7	32.1	38.3	85.0

C.D.(5%)Bi-Bj	0.7	0.7	0.6	2.7	2.4	0.9
C.V.(%)ErrorB	5.6	5.3	4.0	9.0	6.5	1.1
F(5%)	n.s.	s	n.s.	n.s.	s	n.s.

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Table 16: Tillage management in maize based cropping system (Maize-Wheat cropping system) at Pantnagar.

Treatment	Grain Yield (Kg/ha)	No. of Tillers/m	Plant Height (cm)	1000 Grain Weight (g)	pH	EC (dSm ⁻¹)	Organic Carbon (%)	Bulk Density (Mg m ⁻³)	Irrigation Water applied (cm)
T ₁ -Zero Tillage	2907	112.3	74.4	39.7	7.2	0.1	0.5	1.4	24.4
T ₂ -Conventional	4110	134.7	85.3	39.2	7.1	0.1	0.4	1.3	35.8
T ₃ -Fresh Bed	4240	125.7	86.6	39.4	7.1	0.1	0.5	1.1	27.9
T ₄ -Permanent Bed	4313	112.7	87.0	40.0	7.1	0.2	0.5	1.3	22.1
Mean	3892.5	121.3	83.3	39.6	7.1	0.1	0.5	1.3	27.6
CD	403.7	18.6	2.0	1.4	0.2	0.0	0.1	0.1	9.6
CV (%)	5.2	7.7	1.2	1.8	1.1	10.4	10.7	4.7	17.5
Significance	S	N.S.	S	N.S.	N.S.	N.S.	N.S.	S	N.S.

Table 17: Tillage Management in Maize based cropping system (Maize-Wheat System) at Dholi.

Treatment	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days of 50% Silking	Plant Height (cm)
T ₁ -Zero Tillage	6444	53.0	38.1	61.3	119.7
T ₂ -Conventional	5674	51.1	42.1	61.3	122.5
T ₃ -Fresh Bed	5881	53.2	44.7	58.7	136.4
T ₄ -Permanent Bed	6504	51.1	43.1	60.3	115.4
Mean	6125.9	52.1	42.0	60.4	123.5
CD	665.8	3.4	5.2	4.9	25.9
CV (%)	5.4	3.2	6.1	4.0	10.5
Significance	N.S.	N.S.	N.S.	N.S.	N.S.

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Table 18: Tillage Management in Rice-Maize system at Dholi.

Treatment	Grain Yield (Kg/ha)	Stalk Weight (Kg/ha)	Days of 50% Silking
T ₁	2556	5644	75.0
T ₂	2311	5889	75.7
T ₃	2356	6422	75.7
T ₄	2244	6556	75.3
Mean	2366.7	6127.8	75.4
CD	750.9	978.0	2.8
CV (%)	15.9	8.0	1.9
Significance	N.S.	N.S.	N.S.

Treatment	N	P	K
T ₁ - Zero	100	40	20
T ₂ - Conventional	100	40	20
T ₃ - Conventional	100	40	20
T ₄ - Conventional	100	40	20

Table 19: Tillage based management in Maize based cropping system (Rice-maize) at Hyderabad.

Treatment	Grain Yield (Kg/ha)	Fodder Yield (Kg/ha)	Effective Tillers/m ²	Panicles per m ²	Plant Height (cm)
T ₁	4353	5480	451.4	353.8	105.2
T ₂	4147	5333	425.0	327.0	105.0
T ₃	2767	3420	261.4	245.4	89.6
T ₄	4480	5913	417.2	325.0	101.6
Mean	3936.7	5036.7	388.8	312.8	100.4
CD	432.6	574.0	78.3	37.6	4.7
CV (%)	8.0	8.3	14.6	8.7	3.4
Significance	S	S	S	S	S

Treatments	Kharif (Rice)	Rabi (Maize)
T ₁	Conventional tillage	Conventional tillage
T ₂	Conventional tillage	Zero tillage
T ₃	Zero tillage	Zero tillage
T ₄	Conventional tillage	Raised bed system

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Table 20: Tillage management in (Rice-Maize) cropping system at Banswara.

Treatment	Grain Yield (Kg/ha)
T ₁ : Zero Till in both crops	1778
T ₂ : Conventional Till in both crops	1467
T ₃ : Conventional Till in rice – beds in maize	1540
T ₄ : Conventional Till in rice – Zero Till in maize	1800

Mean	1646.1
CD	291.0
CV (%)	8.8
Significance	N.S.

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Table 21: Tillage X Genotype interaction at Dholi.

Main Plot (Tillage)	Sub Plot (Genotype)	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days of 50% Silking	Plant Height (cm)
S ₁	G ₁	6178	54.7	51.9	63.0	106.3
	G ₂	3274	51.1	39.4	70.7	96.3
	G ₃	6000	50.5	52.0	62.7	104.7
S ₂	G ₁	6044	52.7	48.6	63.0	117.7
	G ₂	3437	51.6	43.3	69.3	90.7
	G ₃	6000	52.6	45.6	60.7	103.7
S ₃	G ₁	4548	57.0	52.6	61.0	117.0
	G ₂	2148	49.0	37.3	69.3	93.3
	G ₃	4993	54.8	49.3	57.7	97.7

Location mean	4735.8	52.7	46.7	64.1	103.0
C.D.(5%) AiBj-AiBk	909.3	5.0	5.6	3.9	16.5
C.D.(5%) AiBk-AjBk	943.3	4.9	5.2	6.8	21.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

S ₁	5151	52.1	47.8	65.4	102.4
S ₂	5160	52.3	45.8	64.3	104.0
S ₃	3896	53.6	46.4	62.7	102.7

C.D.(5%) Ai-Aj	591.9	2.6	2.4	6.0	16.9
C.V.(%) Error A	9.6	3.8	3.9	7.1	12.5
F(5%)	s	n.s.	n.s.	n.s.	n.s.

G ₁	5590	54.8	51.0	62.3	113.7
G ₂	2953	50.6	40.0	69.8	93.4
G ₃	5664	52.6	49.0	60.3	102.0

C.D.(5%)Bi-Bj	525.0	2.9	3.2	2.3	9.5
C.V.(%)ErrorB	10.8	5.4	6.8	3.4	9.0
F(5%)	s	s	s	s	s

Treatment Details:

(a) Tillage

S₁ - Zero Till

S₂ - Permanent Bed

S₃ - Conventional

(b) Genotype

G₁ - S4

G₂ - HQPM-1

G₃ - 900 3

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Table 22: Effect of Tillage and weed control practice on productivity of wheat-maize cropping sequence at Udaipur.

Main Plot (Tillage System)	Sub Plot (Weed Management)	Grain Yield (Kg/ha)	Stover Yield (Kg/ha)	Weed Intensity of dicot weed (m ²) at 60 DAS	Weed Intensity of monocot weed (m ²) at 60 DAS	Weed Intensity of dicot weed (m ²) at harvest of crop	Weed Intensity of monocot weed (m ²) at harvest of crop
T ₁	W ₁	2893	3316	135.0	61.3	145.0	67.0
	W ₂	4928	7392	31.0	21.3	34.0	30.3
	W ₃	4337	6592	37.0	26.3	40.3	27.7
T ₂	W ₁	1819	2692	90.0	95.0	94.0	116.3
	W ₂	4015	6023	18.0	27.0	18.3	36.7
	W ₃	3643	5537	20.0	29.0	22.7	36.0
T ₃	W ₁	2401	3553	130.0	63.0	138.3	74.0
	W ₂	4201	6302	30.0	21.7	32.7	25.3
	W ₃	4080	6202	35.3	25.7	39.7	27.7
T ₄	W ₁	1932	2860	85.0	93.3	91.0	109.0
	W ₂	4281	6422	16.3	25.0	17.0	32.7
	W ₃	3763	5720	18.3	26.7	19.3	35.3
T ₅	W ₁	2560	3788	135.3	62.0	145.3	68.7
	W ₂	4386	6579	34.7	23.7	36.7	27.3
	W ₃	3856	5861	39.0	26.0	40.7	29.0

Location mean	3539.7	5255.9	57.0	41.8	61.0	49.5
C.D. (5%) AIBj-AiBk	574.6	953.0	5.8	6.0	8.3	5.8
C.D. (5%) AIBk-AjBk	609.2	917.8	6.7	6.9	10.7	7.8
F(5%)	n.s.	n.s.	s	s	s	s

T ₁	4053	5767	67.7	36.3	73.1	41.7
T ₂	3159	4750	42.7	50.3	45.0	63.0
T ₃	3561	5352	65.1	36.8	70.2	42.3
T ₄	3326	5001	39.9	48.3	42.4	59.0
T ₅	3600	5409	69.7	37.2	74.2	41.7

C.D. (5%) Ai-Aj	389.7	488.5	4.8	4.9	8.3	6.2
C.V. (%) Error A	10.1	8.5	7.7	10.8	12.6	11.5
F(5%)	s	s	s	s	s	s

W ₁	2321	3242	115.1	74.9	122.7	87.0
W ₂	4362	6543	26.0	23.7	27.7	30.5
W ₃	3936	5982	29.9	26.7	32.5	31.1

C.D. (5%) Bi-Bj	257.0	426.2	2.6	2.7	3.7	2.6
C.V. (%) Error B	9.5	10.6	5.9	8.4	8.0	6.8
F(5%)	s	s	s	s	s	s

* Treatment details is on next page

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Treatment detail:

- A Tillage system**
- T₁ Maize (conventional tillage)-Wheat (Conventional tillage)
- T₂ Maize Zero tillage)-Wheat (Zero tillage)
- T₃ Maize Conventional tillage)-Wheat (Zero tillage)
- T₄ Maize (Zero tillage)-Wheat (Conventional tillage)
- T₅ Maize(Bed planting)-Wheat(Furrow irrigated raised bed planting-FIRB)
-
- B Weed management**
- W₁ Unweeded
- W₂ Manual weeding (Weed free)
- W₃ Herbicidal control (Recommended for both the crops)

Sl. No.	Treatment Combination
	Tillage System X Weed Management
1	Maize(con)-Wheat(con) + Un weeded
2	Maize(con)-Wheat(con) + Manuals
3	Maize(con)-Wheat(con) + Herbicide
4	Maize(zero)-Wheat(zero) + Un weeded
5	Maize(zero)-Wheat(zero) + Manuals
6	Maize(zero)-Wheat(zero) + Herbicide
7	Maize(con)-Wheat(zero) + Un weeded
8	Maize(con)-Wheat(zero) + Manuals
9	Maize(con)-Wheat(zero) + Herbicide
10	Maize(zero)-Wheat(con) + Un weeded
11	Maize(zero)-Wheat(con) + Manuals
12	Maize(zero)-Wheat(con) + Herbicide
13	Maize.bed)-Wheat(FIRB) + Un weeded
14	Maize.bed)-Wheat(FIRB) + Manuals
15	Maize.bed)-Wheat(FIRB) + Herbicide

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Table 23: Effect of Germplasm x tillage practices on productivity and soil health under (Maize-Wheat) cropping sequence at Udaipur.

Tillage Practice	Residue Management	Grain Yield (Kg/ha)	Stover Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Length of Cob (cm)	Girth of Cob (cm)	Test Weight (g)	Lodging (%)
T ₁	G ₁	3990	6183	61.3	61.2	191.7	16.5	9.9	118.2	15.0
T ₂		3672	5611	60.0	59.0	195.3	16.0	10.1	115.2	55.0
T ₃		4343	6717	63.0	62.8	196.3	17.0	10.4	121.6	6.0
T ₁	G ₂	3681	5543	60.4	58.4	188.3	16.0	9.0	120.3	20.0
T ₂		3003	4503	60.4	57.5	176.3	15.5	9.2	117.4	60.0
T ₃		3711	5628	62.7	61.5	198.3	16.5	9.3	122.3	10.0

Mean of location	3730.0	5697.5	61.3	60.0	191.1	16.3	9.7	119.2	27.7
C.D. at 5 %	680.0	1027.0	3.4	3.3	22.6	1.2	0.9	6.6	6.4
F	s	s	n.s.	s	n.s.	n.s.	s	n.s.	s

T ₁	3831	5897	60.7	60.1	193.5	16.2	10.0	116.7	35.0
T ₂	4002	6130	61.7	60.6	192.3	16.5	9.7	121.0	13.0
T ₃	3357	5065	61.6	59.5	187.3	16.0	9.3	119.9	35.0

C.D. at 5 %	480.8	726.2	2.4	2.4	16.0	0.9	0.6	4.6	4.5
F	s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	s

G ₁	3779	5801	61.6	60.5	188.1	16.3	9.9	119.1	27.0
G ₂	3681	5594	61.0	59.6	194.0	16.2	9.4	119.3	28.3

C.D. at 5 %	392.6	592.9	2.0	1.9	13.1	0.7	0.5	3.8	3.7
C.V. %	10.0	9.9	3.0	3.1	6.5	4.1	5.1	3.0	12.7
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment detail:

A. Tillage practices

- T₁ Conventional tillage in both crop
- T₂ Zero tillage in both crop
- T₃ Bed planting of both crop on permanent beds

B. Germplasm

- G₁ HQPM-1
- G₂ Pratap Hybrid-1

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Table 24: Effect of residue management and tillage practices on productivity and soil health under (Maize-Wheat) cropping sequence at Udaipur.

Tillage Practice	Residue Management	Grain Yield (Kg/ha)	Stover Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Length of Cob (cm)	Girth of Cob (cm)	Test Weight (g)	Lodging (%)	Barren Plant (000/ha)	No. of Seed/Cob
T ₁	G ₁	3424	3514	61.5	61.3	17.1	10.4	138.7	15.3	0.4	355.0
T ₂		3130	3119	60.0	59.9	16.6	10.1	142.0	29.9	0.9	361.7
T ₃		3625	3611	63.0	63.4	17.6	11.0	143.7	5.0	0.1	382.3
T ₁	G ₂	3014	5148	60.6	59.3	16.5	10.0	136.0	14.5	0.6	354.0
T ₂		2737	4095	60.1	58.2	16.1	9.5	138.3	27.1	0.9	338.7
T ₃		3414	5190	61.6	61.3	17.0	10.5	140.7	3.1	0.4	355.3

Mean of location	3223.9	4112.9	61.1	60.6	16.8	10.3	139.9	15.8	0.6	357.8
C.D. at 5 %	549.0	782.5	3.9	4.7	1.1	0.9	11.2	3.9	0.7	24.2
F	s	s	n.s.	n.s.	s	s	n.s.	s	n.s.	s

T ₁	3277	3317	60.7	60.6	16.8	10.2	140.3	22.6	0.7	358.3
T ₂	3320	4380	61.8	61.3	17.1	10.5	139.8	9.8	0.4	368.2
T ₃	3075	4642	60.9	59.8	16.5	10.0	139.5	15.1	0.7	347.0

C.D. at 5 %	388.2	553.3	2.8	3.4	0.8	0.7	7.9	2.7	0.5	17.1
F	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.

G ₁	3262	3740	61.5	61.0	16.9	10.3	140.2	15.8	0.5	358.7
G ₂	3186	4486	60.7	60.1	16.7	10.2	139.6	15.9	0.6	357.0

C.D. at 5 %	317.0	451.8	2.3	2.7	0.6	0.5	6.5	2.2	0.4	14.0
C.V. %	9.4	10.5	3.5	4.3	3.6	4.9	4.4	13.4	66.5	3.7
F	n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatment Details:

A. Tillage practices

- T₁ Conventional tillage in both crop
- T₂ Zero tillage in both crop
- T₃ Bed planting of both crop on permanent beds

B. Residue Management

- R₁ Without residue
- R₂ With residue of both crop (30-35% residue)

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Table 25: Site Specific nutrient management in Maize-Wheat cropping system at Bajaura.

Treatment	Grain Yield (Kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)
T ₁	2413	79.3	58.2	153.5
T ₂	7338	82.6	75.2	197.4
T ₃	8323	80.7	74.5	187.8
T ₄	11073	81.1	77.0	198.0
T ₅	3370	81.9	63.0	152.0
T ₆	8098	80.4	74.4	184.5
T ₇	8026	79.3	75.6	206.5

Mean	6948.9	80.7	71.1	182.8
CD	393.4	4.6	6.7	10.1
CV (%)	3.2	3.2	5.3	3.1
Significance	S	N.S.	S	S

Table 26: Site specific nutrient management (SSNM) in Maize-wheat cropping system under irrigated conditions during Kharif 2008 and rabi 2008-09 at Bajaura.

Treatment	Grain yield (q/ha)	
	Maize (08)	Wheat (08-09)
T ₁	34.3	11.1
T ₂	77.8	36.9
T ₃	80.0	40.2
T ₄	78.6	50.2
T ₅	44.6	10.7
T ₆	77.1	41.1
T ₇	79.4	48.0
CD 5%	7.3	4.5

*Treatment details are given above both table

Treatment	Treatment (Nutrients kg/ha)	
	Maize (Kharif)	Wheat (Rabi)
	(N+P ₂ O ₅ +K ₂ O+ZnSO ₄)	(N+P ₂ O ₅ +K ₂ O)
T ₁	Control (no fertilizers)	Control (no fertilizers)
T ₂	State recommendations = 120+60+40	State recommendations = 120+60+30
T ₃	Improved nutrient recommendation = 150+60+40+	Improved nutrient recommendation = 120+60+30
T ₄	SSNM = 188+79+0+25	SSNM = 188+97+0
T ₅	SSNM-nitrogen = 0+79+0+25	SSNM-nitrogen = 0+97+0
T ₆	SSNM-phosphorus = 188+0+25	SSNM-phosphorus = 188+0+0
T ₇	SSNM-potash = 188+79+0+25	SSNM-potash = 188+97+0

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Table 27: Site Specific Nutrient Management (SNMP) in Maize-Wheat cropping system at Udhampur.

Treatment	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	Stover Yield (Kg/ha)	Plant Stand (000/ha)	No. of Leaves/Plant	Plant Height (cm)
T ₁	2186	3073	4098	47.1	8.9	152.7
T ₂	3588	5168	6376	62.8	9.1	157.2
T ₃	4231	5561	7651	64.8	9.3	157.4
T ₄	4656	6560	8051	62.1	9.1	160.3
T ₅	3241	4547	5758	58.0	9.1	153.0
T ₆	3920	5410	7320	63.2	9.3	164.2
T ₇	4495	5835	7975	64.1	9.1	162.4
Mean	3759.6	5164.7	6747.1	60.3	9.1	158.2
CD	344.6	736.9	462.3	3.6	0.4	5.5
CV (%)	5.2	8.0	3.9	3.4	2.5	2.0
Significance	S	S	S	S	N.S.	S

T treatments Details T = N:P:K Zn (Kg/ha)

- T₁ - control
- T₂ - (State Recommendation , 60:40:20 10)
- T₃ - (Improved Nutrition 120:80:40 25)
- T₄ - (SSNM - 196:111:51 25)
- T₅ - (SSNM - N -:111:51 25)
- T₆ - (SSNM - P 196:-:51 25)
- T₇ - (SSNM - K 196:111:- 25)

Table 28: Site-Specific Nutrient Management in maize-wheat cropping system at Banswara.

Treatment	Grain Yield (Kg/ha)
T ₁ : Control	2147
T ₂ : State rec. of nutrient maize (90:40:30)	3444
T ₃ : N+P ₂ O ₅ +K ₂ O+ZnSO ₄ (120+60+40+25)	5080
T ₄ : N+P ₂ O ₅ +K ₂ O+ZnSO ₄ (229+72+0+25)	5324
T ₅ : P ₂ O ₅ +K ₂ O+ZnSO ₄ (72+0+25 kg/ha)	2964
T ₆ : N+ K ₂ O+ZnSO ₄ (229+0+25 kg/ha)	3804
T ₇ : N+ P ₂ O ₅ +ZnSO ₄ (229+72+25 kg/ha)	5067
Mean	3975.9
CD	386.3
CV (%)	5.5
Significance	S

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Table 29: Site Specific Nutrient Management (SSNM) Trail at Ludhiana.

Treatment s	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	Plant Height (cm)	Ear Height (cm)	Cob Length (cm)	Cob Girth (cm)
T ₁	1828	65.6	54.3	67.0	71.3	104.3	120.0	46.7	10.5	3.2
T ₂	4011	68.3	68.7	58.7	59.7	102.3	143.3	54.0	14.1	3.3
T ₃	4359	66.3	66.7	57.7	60.0	101.3	148.3	59.0	14.6	3.4
T ₄	4589	67.0	67.6	56.7	58.7	100.3	154.7	65.7	15.0	3.6
T ₅	2365	65.7	58.3	61.0	64.3	102.7	141.7	48.7	12.0	3.3
T ₆	3500	66.1	63.5	60.0	63.0	102.7	153.7	64.3	14.1	3.3
T ₇	4588	68.3	68.1	56.7	59.0	100.7	154.3	60.7	14.9	3.4
Mean	3605.6	66.8	63.9	59.7	62.3	102.0	145.1	57.0	13.6	3.3
CD	224.2	3.5	4.8	3.1	3.1	4.6	6.1	7.4	0.9	0.4
CV (%)	3.5	2.9	4.2	2.9	2.8	2.5	2.4	7.3	3.6	7.4
Significanci	S	N.S.	S	S	S	N.S.	S	S	S	N.S.

Treatments Details: 7

- T₁ - control
- T₂ - (N+P₂O₅+K₂O+ZnSO₄, 125+60+30+25Kg/ha)
- T₃ - (N+P₂O₅+K₂O+ZnSO₄, 150+60+40+25Kg/ha)
- T₄ - (N+P₂O₅+K₂O+ZnSO₄, 235+111+0+25Kg/ha)
- T₅ - (N+P₂O₅+K₂O+ZnSO₄, 0+111+0+25Kg/ha)
- T₆ - (N+P₂O₅+K₂O+ZnSO₄, 235+0+0+25Kg/ha)
- T₇ - (N+P₂O₅+K₂O+ZnSO₄, 235+111+0+25Kg/ha)

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Table 30: Site specific nutrient management (SSNM) in maize based cropping system at Pantnagar.

Treatment (Wheat)	Grain Yield (Kg/ha)	No. of Tillers/m Length	No. of Ears/m Length	Plant Height (cm)
T ₁	1310	73.8	67.5	72.3
T ₂	3056	95.2	92.5	87.7
T ₃	3274	107.9	104.8	89.7
T ₄	3641	115.9	111.9	92.0
T ₅	1810	87.3	80.2	77.3
T ₆	2490	92.1	88.1	88.3
T ₇	2738	93.7	90.9	89.7

Mean	2616.8	95.1	90.8	85.3
CD	809.0	13.1	11.4	6.0
CV (%)	17.4	7.7	7.1	3.9
Significance	S	S	S	S

Treatment (Maize)	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% Silking	Cob Length (cm)	Cob Girth (cm)	Moisture (%)
T ₁	754	1429	63.5	21.4	59.7	62.0	125.0	10.4	10.9	26.0
T ₂	3770	6032	64.3	62.7	55.0	59.3	171.7	15.0	12.2	27.0
T ₃	4286	6349	65.9	66.7	55.3	59.7	181.7	14.3	12.3	26.7
T ₄	5119	7619	65.9	67.5	56.0	59.7	179.3	14.6	12.6	26.3
T ₅	1151	1825	65.1	48.4	58.7	62.0	150.7	11.6	11.8	27.0
T ₆	2976	4881	63.5	52.4	56.0	60.0	166.3	13.8	12.5	27.3
T ₇	2937	5119	64.3	54.8	55.7	59.3	165.7	12.2	12.0	26.7

Mean	2998.9	4750.6	64.6	53.4	56.6	60.3	162.9	13.1	12.1	26.7
CD	579.1	689.9	5.5	13.9	1.2	0.8	20.5	2.4	1.2	1.7
CV (%)	10.9	8.2	4.7	14.6	1.2	0.8	7.1	10.1	5.4	3.5
Significance	S	S	N.S.	S	S	S	S	S	N.S.	N.S.

Treatment Details:

S. No.	Treatments	
	For both crops Maize & Wheat	Nutrient management
1	Control (no fertilizer)	No fertilizer application
2	State recommendation of nutrient	120: 60: 40 :: N : P205
3	Improved nutrient recommendation	150: 60: 40 :: N : P205
4	Site specific nutrient management (SSNM)	148: 48: 97 :: N : P205
5	SSNM - Nitrogen	48: 97 :: P205 : K20 kg
6	SSNM - Phosphorus	148: 97 :: N : K20 kg/l
7	SSNM - Potash	148: 48 :: N : P205 kg

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Table 31: Site Specific Nutrient Management (SSNM) in Maize-Wheat cropping system at Arbhavi.

Treatment	Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Ear Height (cm)
T ₁	2806	2167	47.5	47.5	175.3	83.0
T ₂	5694	2833	58.1	58.1	168.3	76.0
T ₃	5611	2500	60.3	60.3	167.3	76.0
T ₄	5472	2500	56.4	56.4	166.3	72.3
T ₅	4028	2111	53.6	53.6	165.7	71.3
T ₆	5139	2097	56.7	56.7	164.0	72.3
T ₇	5639	2528	57.5	57.5	165.0	71.7

Mean	4912.7	2390.9	55.7	55.7	167.4	74.7
CD	392.9	284.1	4.9	4.9	9.0	5.2
CV (%)	4.5	6.7	5.0	5.0	3.0	3.9
Significance	S	S	S	S	N.S.	S

Treatment	Moisture (%)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels/Row	Test Weight (g) 100 Grain	Shelling (%)
T ₁	30.3	10.2	10.5	12.0	23.7	25.3	83.6
T ₂	31.4	11.6	13.3	14.3	27.6	37.0	84.0
T ₃	30.7	11.5	13.8	14.1	27.7	32.3	83.8
T ₄	29.8	11.0	13.3	13.1	30.3	36.7	84.0
T ₅	30.0	10.4	12.3	12.8	29.9	29.3	83.5
T ₆	31.0	10.5	12.5	13.7	28.0	30.0	84.1
T ₇	31.2	11.5	13.6	13.5	31.7	33.0	84.4

Mean	30.6	11.0	12.7	13.4	28.4	32.0	83.9
CD	3.4	0.5	0.9	1.2	2.4	2.9	1.1
CV (%)	6.3	2.8	4.1	4.9	4.8	5.2	0.7
Significance	N.S.	S	S	S	S	S	N.S.

Treatment	Fertilizers applied (Kg/ha)		
	N	P ₂ O ₅	K ₂ O
T ₁ - Control	0	0	0
T ₂ - State RDF	150	75	37.5
T ₃ - DMR RDF	120	60	40
T ₄ - SSNM for NPK	130	60	0
T ₅ - SSNM for N	0	60	0
T ₆ - SSNM for P	130	0	0
T ₇ - SSNM for K	130	60	0

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Table 32: Site specific nutrient management (SSNM) in rice-maize cropping sequence at Jorhat during Kharif 2009-10

Treatment	Grain Yield of Rice (Kg/ha)	Straw Yield (Kg/ha)	No. of Tillers	No. of Ear Bearing Tillers	Plant Height (cm)
T ₁	3355	7665	63.0	61.0	104.0
T ₂	4322	10088	78.3	76.7	104.3
T ₃	5699	14500	90.0	88.3	111.0
T ₄	5463	12822	88.7	86.3	111.3
T ₅	4799	9777	72.3	70.7	105.3
T ₆	4366	9888	82.7	79.0	105.7
T ₇	4533	11733	91.3	89.0	107.3

Mean	4648.0	10924.6	80.9	78.7	107.0
CD	1061.0	3355.1	13.8	12.0	8.4
CV (%)	12.8	17.3	9.6	8.6	4.4
Significance	S	S	S	S	N.S.

Treatment Details:

T₁ - Control-NPK @ 0:0:0

T₂ - State recommended dose- NPK@ 40:20:20

T₃ - National recommended dose-NPK @ 75:30:20

T₄ - SSNM - NPK @50.5:41:0

T₅ - SSNM

T₆ - SSNM for P2O5- NPK @50.5:0:0

T₇ - SSNM for K2O-NPK @ 50.5:41:0

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Table 33: Site Specific Nutrient Management (SSNM) in Rice-Maize system at Dholi.

Treatment	N	P	K	Zn	Grain Yield (Kg/ha)	Stalk Weight (Kg/ha)	Days of 50% Silking
T ₁	No fertilizer				1358	3580	76.3
T ₂	100	40	25	25	2642	8148	74.3
T ₃	120	50	30	25	3037	9506	74.0
T ₄	80	30	20	25	1877	7284	74.3
T ₅	80	0	0	0	1852	7358	74.3
T ₆	0	30	20	25	1457	5802	73.0
T ₇	0	0	20	25	1136	3654	73.7

Mean	1908.3	6476.2	74.3
CD	583.1	1595.3	2.0
CV (%)	17.2	13.8	1.5
Significance	S	S	N.S.

Table 34: Site Specific Nutrient Management at Dholi.

Treatment	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Days of 50% Silking	Plant Height (cm)
T ₁	2519	65.9	51.5	84.0	78.9
T ₂	3630	64.1	58.5	74.7	73.1
T ₃	4481	68.9	58.9	77.7	70.4
T ₄	5167	68.5	65.2	74.7	70.3
T ₅	3241	62.6	54.8	80.7	80.4
T ₆	4778	69.3	68.9	77.0	72.7
T ₇	6204	67.0	67.0	72.3	70.8

Mean	4288.4	66.6	60.7	77.3	73.8
CD	1135.9	4.6	4.9	3.5	9.7
CV (%)	14.9	3.9	4.5	2.5	7.4
Significance	S	N.S.	S	S	N.S.

Treatment	N	P	K	Zn
T ₁	No fertilizer			
T ₂	100	40	40	0
T ₃	150	60	40	25
T ₄	225	105	36	25
T ₅	0	105	36	25
T ₆	225	0	36	25
T ₇	225	105	0	25

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Table 35: Site specific nutrient management in maize based cropping system (Rice-Maize system) at Hyderabad.

Treatment	Grain Yield (Kg/ha)	Fodder Yield (Kg/ha)	Effective Tillers/m ²	Panicles/m ²	Grains/Panicle	Plant Height (cm)
T ₁	3626	4281	205.7	204.0	118.2	93.0
T ₂	5311	6833	287.7	218.7	126.0	98.7
T ₃	6041	7852	316.0	303.3	142.2	101.7
T ₄	6817	7315	376.7	362.3	154.0	107.0
T ₅	3667	4907	240.0	199.0	117.3	93.7
T ₆	4930	5833	285.7	258.7	133.8	98.7
T ₇	4811	6056	254.7	241.0	120.6	100.7
Mean	5028.8	6154.0	280.9	255.3	130.3	99.0
CD	593.2	830.4	36.5	31.8	13.9	4.9
CV (%)	6.6	7.6	7.3	7.0	6.0	2.8
Significance	S	S	S	S	S	S

Treatments	Kharif (Rice)	Rabi (Maize)
T ₁	Control (no fertilizers)	Control (no fertilizers)
T ₂	State recommendations of nutrients for each crop	State recommendations of nutrients for each crop
T ₃	N+ P2O5+ K2O+ZnSO4, 150 + 60+ 40 + 25 kg/ha	N+ P2O5+ K2O+ZnSO4, 150 + 60+ 40 + 25 kg/ha
T ₄	N+ P2O5+ K2O+ZnSO4, 226 + 13+ 0 + 25 kg/ha	N+ P2O5+ K2O+ZnSO4, 272 + 0 + 0 + 25 kg/ha
T ₅	P2O5+ K2O+ZnSO4, 13+ 0 + 25 kg/ha	P2O5+ K2O+ZnSO4, 0 + 0 + 25 kg/ha
T ₆	N+ K2O+ZnSO4, 226 + 0 + 25 kg/ha	N+ K2O+ZnSO4, 272 + 0 + 25 kg/ha
T ₇	N+ P2O5 +ZnSO4, 226 + 13+ 25 kg/ha	N+ P2O5 +ZnSO4, 272 + 0 + 25 kg/ha

Table 36: Site-Specific Nutrient Management in rice-maize cropping system at Banswara.

Treatment	Grain Yield (Kg/ha)
T ₁ : Control	2356
T ₂ : State rec. of nutrient for rice (120+60+40kg N+P2O5+	5756
T ₃ : N+P2O5+K2O+ZnSO4 (120+60+40+25 kg/ha)	6011
T ₄ : N+P2O5+K2O+ZnSO4 (142+37+0+25 kg/ha)	5356
T ₅ : P2O5+K2O+ZnSO4 (37+0+25 kg/ha)	2644
T ₆ : N+ K2O +ZnSO4 (142+0+25 kg/ha)	4289
T ₇ : N+ P2O5+ZnSO4 (142+37+25 kg/ha)	5289
Mean	4528.6
CD	388.1
CV (%)	4.8
Significance	S

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Table 37: Site specific nutrient management for realizing potential yield in maize at Ranchi.

Treatment	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Ear Height (cm)
T ₁	1169	1462	4431	63.6	34.4	159.1	53.3
T ₂	4729	5578	8576	65.3	60.2	234.5	72.2
T ₃	5076	5987	8911	65.3	62.4	247.1	77.3
T ₄	5687	6693	9896	64.7	61.3	260.4	86.4
T ₅	1771	2184	5249	64.7	38.9	172.8	59.9
T ₆	4636	5469	8244	64.2	60.4	230.9	82.3
T ₇	5336	6280	9462	65.6	61.6	255.5	83.2

Mean	4057.5	4807.6	7824.1	64.8	54.2	222.9	73.5
CD	716.9	787.2	1275.3	4.8	5.0	24.4	8.8
CV (%)	9.9	9.2	9.2	4.2	5.2	6.2	6.7
Significance	S	S	S	N.S.	S	S	S

Treatment	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels/Row	Test Weight (g) 100 Grain	Shelling (%)
T ₁	9.9	10.1	9.9	20.1	23.3	79.9
T ₂	12.9	15.1	12.7	32.5	30.5	84.8
T ₃	13.1	15.5	12.8	33.8	31.0	84.8
T ₄	14.1	16.4	13.7	35.8	33.3	84.9
T ₅	11.9	13.7	11.7	27.7	26.4	81.0
T ₆	12.7	15.0	12.4	32.1	29.8	84.7
T ₇	13.4	16.2	13.1	34.9	32.3	84.9

Mean	12.6	14.6	12.3	31.0	29.5	83.6
CD	1.1	1.2	1.0	3.2	2.9	2.4
CV (%)	5.0	4.5	4.8	5.8	5.5	1.6
Significance	S	S	S	S	S	S

Treatment Details:

- T₁ Control (no fertilizer)
- T₂ State recommendation of nutrients (120:60:40 kg N:P₂O₅:K₂O/ha)
- T₃ Improved nutrient recommendation (150:60:40 kg N:P₂O₅:K₂O/ha)
- T₄ Site specific nutrient management (208:107:86:25 kg N:P₂O₅:K₂O:ZnSO₄ /ha)
- T₅ SSNM-nitrogen (107:86:25 kg P₂O₅:K₂O:ZnSO₄ /ha)
- T₆ SSNM-Phosphorus (208:86:25 kg N:K₂O:ZnSO₄ /ha)
- T₇ SSNM-Potash (208:107:25 kg N:P₂O₅:ZnSO₄ /ha)

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Table 38: 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 Cobs (000/ha)	No. of Cobs/Plant
T ₁	3783	5549	64.5	63.0	1.0
T ₂	4520	6859	64.5	63.7	1.0
T ₃	4610	7022	64.7	64.7	1.0
T ₄	5258	8131	64.7	65.3	1.0
T ₅	3866	5610	64.5	58.5	0.9
T ₆	4543	6592	64.5	62.8	1.0
T ₇	4477	6629	64.2	63.7	1.0

Mean	4436.6	6627.3	64.5	63.1	1.0
CD	466.4	745.1	2.5	2.6	0.0
CV (%)	7.1	7.6	2.7	2.8	0.7
Significance	S	S	N.S.	S	S

Treatments Details:

T ₁ - Control	(No fertilizer)
T ₂ - State Recommended dose of fertilizer	(115 Kg N+ 40 kg P ₂ O ₅ + 30 K ₂ O)
T ₃ - National Recommended dose of fertilizer	(150 kg N + 60 kg P ₂ O ₅ + 40 Kg K ₂ O + 25 Kg Zinc sulphate)
T ₄ - SSNM*	(229 kg N + 72 kg P ₂ O ₅ +00 kg K ₂ O) + 25 kg Zinc Sulphate)
T ₅ - SSNM Nitrogen	(00 kg N+ 72 kg P ₂ O ₅ +00 kg K ₂ O+ 25 kg Zinc Sulphate)
T ₆ - SSNM Phosphorus	(229 kg N+ 00 kg P ₂ O ₅ +00 kg K ₂ O + 25 kg Zinc Sulphate)
T ₇ - SSNM Potassium	(229 kg N +72 Kg P ₂ O ₅ +00 kg K ₂ O + 25 Kg Zinc sulphate)

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Table 39: Production potential of Sweet Corn cultivar 'BAJAURA SWEET CORN' under different plant spacing & nutrient management at Bajaura.

Main Plot Spacing	Sub Plot NM	Grain Yield (Kg/ha)	Green Cob Yield (Kg/ha)	Plant Stand ('000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Sugar Content (%)
S ₁	F ₁	3719	15386	80.8	70.3	170.1	28.1
	F ₂	2470	16841	113.3	84.4	170.6	28.1
	F ₃	3603	16149	79.7	70.3	182.1	27.5
	F ₄	3000	21015	108.1	83.1	168.4	28.2
S ₂	F ₁	4757	18685	81.1	75.0	180.4	27.5
	F ₂	4613	22370	107.7	93.6	188.3	26.5
	F ₃	5156	20151	83.3	79.4	179.0	30.6
	F ₄	5504	22968	115.6	105.3	180.5	27.8

Mean of location	4102.8	19195.5	96.2	82.7	177.4	28.0
C.D. at 5 %	563.6	1140.8	4.9	5.4	11.0	3.3
F	s	s	s	s	n.s.	n.s.

S ₁	3198	17348	95.5	77.0	172.8	28.0
S ₂	5008	21043	96.9	88.3	182.1	28.1

C.D. at 5 %	281.8	570.4	2.5	2.7	5.5	1.6
F	s	s	n.s.	s	s	n.s.

F ₁	4238	17035	81.0	72.6	175.3	27.8
F ₂	3541	19606	110.5	89.0	179.5	27.3
F ₃	4380	18150	81.5	74.9	180.6	29.1
F ₄	4252	21991	111.8	94.2	174.4	28.0

C.D. at 5 %	398.5	806.7	3.5	3.8	7.8	2.3
C.V. %	7.8	3.4	2.9	3.7	3.5	6.7
F	s	s	s	s	n.s.	n.s.

Treatment Details:

Plant spacing:

S₁ = 60x20 cm

S₂ = 45x20 cm

Nutrient management:

F₁ = Vermicompost @ 5 tons/ha

F₂ = Vermicompost @ 10 tons/ha

F₃ = 50 % RD of NPK + Vermicompost 5 tons/ha

F₄ = Recommended NPK (90:45:30)

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Table 40: Production potential of Pop Corn cultivar 'BAJAURA POP CORN' under different plant spacing & nutrient management at Bajaura.

Main Plot Spacing	Sub Plot NM	Grain Yield (Kg/ha)	Plant Stand ('000/ha)	No. of Cobs (000/ha)	Plant Height (cm)
S ₁	F ₁	4234	78.3	72.8	227.7
	F ₂	4738	109.2	95.8	205.0
	F ₃	4057	80.6	71.9	206.3
	F ₄	4061	107.2	101.9	209.7
S ₂	F ₁	5403	78.3	79.4	209.3
	F ₂	6035	111.4	103.6	211.3
	F ₃	6174	79.4	81.4	216.3
	F ₄	7259	114.2	112.8	230.0

Mean of location	5244.9	94.8	90.0	214.5
C.D. at 5 %	611.8	4.6	6.3	14.1
F	s	n.s.	n.s.	s

S ₁	4272	93.8	85.6	212.2
S ₂	6218	95.8	94.3	216.8

C.D. at 5 %	305.9	2.3	3.2	7.1
F	s	n.s.	s	n.s.

F ₁	4818	78.3	76.1	218.5
F ₂	5386	110.3	99.7	208.2
F ₃	5115	80.0	76.7	211.3
F ₄	5660	110.7	107.4	219.8

C.D. at 5 %	432.6	3.3	4.5	10.0
C.V. %	6.7	2.8	4.0	3.8
F	s	s	s	n.s.

Treatment Details:

Plant spacing:

S₁ = 60x20 cm

S₂ = 45x20 cm

Nutrient management:

F₁ = Vermicompost @ 5 tons/ha

F₂ = Vermicompost @ 10 tons/ha

F₃ = 50 % RD of NPK + Vermicompost 5 tons/ha

F₄ = Recommended NPK (90:45:30)

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Table 41: Production potential of Baby Corn under different plant spacing & nutrient management at Bajaura.

Main Plot Spacing	Sub Plot NM	Babycorn Yield (kg/ha)	Cob Yield with Husk (Kg/ha)	Green Fodder Yield (Kg/ha)	Discarded Baby Corn Yield (kg/ha)	No. of Plant ('000/ha)	No. of Cobs ('000/ha)	Plant Height (cm)	Barrenness (%)
S ₁	F ₁	902	5209	19166	176	108.1	228.1	154.9	1.6
	F ₂	829	4668	21111	189	116.7	210.3	146.3	1.4
	F ₃	1096	5888	20278	154	108.3	246.1	155.8	0.9
	F ₄	981	4532	18611	191	116.7	215.8	152.9	1.6
S ₂	F ₁	1261	6611	20833	214	108.3	271.9	163.0	1.2
	F ₂	1351	6352	23055	252	116.7	270.3	161.4	2.4
	F ₃	1646	8204	23056	188	108.3	335.6	165.7	1.8
	F ₄	1701	8212	23889	172	132.2	290.6	170.7	0.7

Mean of location	1220.9	6209.6	21249.9	192.1	114.4	258.6	158.8	1.4
C.D. at 5 %	205.3	645.9	1456.4	17.2	19.0	13.7	7.8	1.4
F	n.s.	s	s	s	n.s.	s	n.s.	n.s.

S ₁	952	5074	19792	177	112.4	225.1	152.5	1.4
S ₂	1490	7345	22708	207	116.4	292.1	165.2	1.5

C.D. at 5 %	102.6	323.0	728.2	8.6	9.5	6.9	3.9	0.7
F	s	s	s	s	n.s.	s	s	n.s.

F ₁	1082	5910	20000	195	108.2	250.0	158.9	1.4
F ₂	1090	5510	22083	221	116.7	240.3	153.9	1.9
F ₃	1371	7046	21667	171	108.3	290.8	160.8	1.4
F ₄	1341	6372	21250	182	124.4	253.2	161.8	1.2

C.D. at 5 %	145.2	456.7	1029.8	12.2	13.5	9.7	5.5	1.0
C.V. %	9.6	5.9	3.9	5.1	9.5	3.0	2.8	56.8
F	s	s	s	s	n.s.	s	s	n.s.

Treatment Details:

Main Plot	Sub Plot
Plant spacing:	Nutrient management:
S ₁ = 60x20 cm	F ₁ = Vermicompost @ 5 tons/ha
S ₂ = 45x20 cm	F ₂ = Vermicompost @ 10 tons/ha
	F ₃ = 50 % RD of NPK + Vermicompost 5 tons/ha
	F ₄ = Recommended NPK (90:45:30)

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Table 42: Integrated Nutrient Management in Baby Corn in Udhampur.

Treatment RD - 150:60::40 (Kg/ha)	Baby Corn Yield (Kg/ha)	Cob Yield With Husk (Kg/ha)	Green Fodder (Kg/ha)	Plant Stand (000/ha)	Plant Height (cm)
T ₁ - Control	775	4559	21221	83.0	150.2
T ₂ - 50% RD	846	7714	37145	84.1	155.7
T ₃ - 100% RD	1003	6014	18380	84.5	156.9
T ₄ - 150% RD	1644	10528	51351	85.0	158.9
T ₅ - 50% RD+ 5 Ton FYM	1289	7586	34532	83.7	156.3
T ₆ - 100% RD + 5 Ton FYM	922	5437	26024	83.8	160.4
T ₇ - 150% RD + 5 Ton FYM	1414	8361	44330	84.2	162.6
Mean	1127.6	7171.3	33283.2	84.0	157.3
CD	426.8	627.0	9330.6	2.7	5.0
CV (%)	21.3	4.9	15.8	1.8	1.8
Significance	S	S	S	N.S.	S

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Table 43: Integrated nutrient management in Baby corn at Srinagar.

Organic Sources	Fertilizer Levels	Husked Baby Corn Yield (Kg/ha)	Dehusked Baby Corn Yield In (Kg/ha)	Green Fodder Yield (Kg/ha)	No. of Plants (000/ha)	No of Cobs (000/ha)	Plant Height (cm)	Cob Length (cm)	Cob Girth (cm)
N ₀	F ₁	7203	1233	27333	98.3	194.5	185.7	20.5	7.1
	F ₂	7618	1505	29167	98.9	204.4	194.5	22.1	7.8
	F ₃	8020	1628	30900	99.6	207.8	199.9	23.0	8.2
N ₁	F ₁	7569	1425	31600	98.6	214.5	192.3	21.5	8.0
	F ₂	8202	1722	33200	98.6	230.9	199.9	24.0	8.3
	F ₃	8466	1880	34167	98.6	237.9	206.5	24.9	8.6

Mean of location	7846.2	1565.8	31061.1	98.8	215.0	196.5	22.7	8.0
C.D. at 5 %	265.1	52.2	1077.1	1.0	6.2	2.0	1.1	0.3
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N ₀	7614	1456	29133	98.9	202.2	193.4	21.9	7.7
N ₁	8079	1676	32989	98.6	227.8	199.6	23.5	8.3

C.D. at 5 %	153.0	30.1	621.9	0.6	3.6	1.1	0.7	0.2
F	s	s	s	n.s.	s	s	s	s

F ₁	7386	1329	29467	98.5	204.5	189.0	21.0	7.6
F ₂	7910	1614	31183	98.8	217.6	197.2	23.1	8.1
F ₃	8243	1754	32533	99.1	222.9	203.2	24.0	8.4

C.D. at 5 %	187.4	36.9	761.6	0.7	4.4	1.4	0.8	0.2
C.V. %	1.9	1.8	1.9	0.6	1.6	0.5	2.7	2.0
F	s	s	s	n.s.	s	s	s	s

Treatment details

Factor(A)

Organic sources-2,

N₀ - No FYM

N₁ - FYM@10 t/ha-1

FACTOR (B)

Fertilizer levels-3

F₁ - (50N, 60 P₂O₅, 30K₂O kg/ha)

F₂ - (100N, 60 P₂O₅, 30K₂O kg/ha)

F₃ - (150N, 60P₂O₅, 30K₂O kg/ha)

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Table 44: Integrated Nutrient Management (INM) in specialty corn - Baby Corn at Arbhavi.

Main Plot (Organic Source)	Sub Plot (Fertility Levels)	Baby Corn Yield With husk (Kg/ha)	Baby Corn Yield Without Husk (Kg/ha)	Rejected Baby Corn Yield (Kg/ha)	Green Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No of Baby Corn (000/ha)
O ₁	F ₁	6979	2288	163	22917	66.7	118.4
	F ₂	6552	2295	116	23611	67.4	115.3
	F ₃	7441	2665	236	23785	68.8	108.7
	F ₄	6625	2681	151	24653	78.5	118.8
O ₂	F ₁	6813	2847	219	23958	70.8	94.4
	F ₂	6813	2415	208	24583	72.6	122.9
	F ₃	7097	2528	104	22396	69.1	115.3
	F ₄	7271	2830	135	23958	69.4	105.2
O ₃	F ₁	6319	2323	111	23264	69.4	114.6
	F ₂	6229	3069	177	22847	66.0	116.0
	F ₃	6559	2484	139	22917	67.7	99.0
	F ₄	6347	2938	274	26910	70.1	135.8

Location mean	6753.8	2613.6	169.6	23816.6	69.7	113.7
C.D.(5%) AiBj-AiBk	730.0	505.1	192.8	3621.9	8.2	28.8
C.D.(5%) AiBk-AjBk	934.3	614.5	217.4	4262.5	10.8	37.6
F(5%)	n.s.	s	n.s.	n.s.	n.s.	n.s.

O ₁	6899	2482	167	23741	70.3	115.3
O ₂	6998	2655	167	23724	70.5	109.5
O ₃	6364	2704	175	23984	68.3	116.3

C.D.(5%) Ai-Aj	700.2	439.9	142.3	2944.7	8.3	28.7
C.V.(%) Error A	9.1	14.9	74.1	10.9	10.6	22.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F ₁	6704	2486	164	23380	69.0	109.1
F ₂	6531	2593	167	23681	68.6	118.1
F ₃	7032	2559	160	23032	68.5	107.6
F ₄	6748	2816	187	25174	72.7	119.9

C.D.(5%) Bi-Bj	421.5	291.6	111.3	2091.1	4.7	16.6
C.V.(%) Error B	6.3	11.3	66.3	8.9	6.8	14.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

*Treatment Details is on next page

Cont...

A - 96 (b)

Main Plot (Organic Source)	Sub Plot (Fertility Levels)	Plant Height (cm)	Baby Corn Placement (cm)	Baby Corn Diameter (cm)	Baby Corn Length (cm)	No. of Leaves/Plant	Stem Diameter (cm)
O ₁	F ₁	158.7	81.0	1.3	7.2	11.6	1.7
	F ₂	152.7	81.7	1.4	8.2	12.3	1.6
	F ₃	156.7	79.7	1.1	7.3	11.5	1.6
	F ₄	162.3	82.3	1.2	7.6	11.1	1.6
O ₂	F ₁	173.0	84.0	1.3	7.1	11.5	1.7
	F ₂	166.0	81.3	1.2	7.0	10.7	1.7
	F ₃	166.7	82.3	1.2	7.1	11.4	1.7
	F ₄	170.0	82.7	1.4	7.7	11.1	1.6
O ₃	F ₁	166.7	82.7	1.3	8.3	11.3	1.6
	F ₂	164.7	81.3	1.3	7.6	10.9	1.8
	F ₃	165.3	84.3	1.3	7.4	11.1	1.7
	F ₄	161.7	79.3	1.3	8.2	11.0	1.7

Location mean	163.7	81.9	1.3	7.6	11.3	1.6
C.D.(5%) AiBj-AiBk	10.5	5.6	0.3	0.6	0.9	0.2
C.D.(5%) AiBk-AjBk	11.1	5.6	0.2	0.6	1.0	0.2
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

O ₁	157.6	81.2	1.3	7.6	11.6	1.6
O ₂	168.9	82.6	1.3	7.2	11.2	1.7
O ₃	164.6	81.9	1.3	7.9	11.1	1.7

C.D.(5%) Ai-Aj	6.5	2.9	0.1	0.3	0.7	0.1
C.V.(%) Error A	3.5	3.1	8.6	3.7	5.4	5.1
F(5%)	s	n.s.	n.s.	s	n.s.	n.s.

F ₁	166.1	82.6	1.3	7.5	11.4	1.6
F ₂	161.1	81.4	1.3	7.6	11.3	1.6
F ₃	162.9	82.1	1.2	7.3	11.4	1.7
F ₄	164.7	81.4	1.3	7.8	11.1	1.7

C.D.(5%)Bi-Bj	6.1	3.3	0.1	0.4	0.5	0.1
C.V.(%)ErrorB	3.7	4.0	11.5	4.7	4.7	5.7
F(5%)	n.s.	n.s.	n.s.	s	n.s.	n.s.

Treatment Details:

Main Plot Organic Source	Sub Plot Fertilizer Levels
O ₁ No FYM	F ₁ 150:75:37.5 kg
O ₂ FYM @ 6 t ha ⁻¹	F ₂ 150:60:40 kg (DMR 100%)
O ₃ FYM @ 10 t ha ⁻¹	F ₃ 187.5:75:50 (125% RDF)
	F ₄ 225.0:90:60 (150% RDF)

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Table 45: Integrated nutrient management in specialty corn (Baby Corn) at Chhindwara

Main Plot	Sub Plot	Green Fodder Yield (Kg/ha)	Green Baby Corn Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Days to 50% Silking	Plant Height (cm)
F ₀	N ₁	21889	1366	124.4	119.3	55.0	164.0
	N ₂	22444	1528	126.3	124.1	55.3	172.0
	N ₃	23667	1594	128.1	125.9	54.0	173.0
	N ₄	25222	1633	129.6	127.8	53.7	178.3
F ₁	N ₁	22333	1503	125.6	121.5	55.7	170.3
	N ₂	23630	1574	126.7	124.8	54.3	172.3
	N ₃	24148	1604	128.9	126.3	55.0	174.0
	N ₄	26000	1681	134.8	129.3	53.7	179.3

Mean of location	23666.7	1560.6	128.1	124.9	54.6	172.9
C.D. at 5 %	4380.7	500.0	4.7	6.8	2.3	13.2
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

F ₀	23306	1530	127.1	124.3	54.5	171.8
F ₁	24028	1591	129.0	125.5	54.7	174.0

C.D. at 5 %	2190.3	250.0	2.3	3.4	1.1	6.6
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N ₁	22111	1435	125.0	120.4	55.3	167.2
N ₂	23037	1551	126.5	124.4	54.8	172.2
N ₃	23907	1599	128.5	126.1	54.5	173.5
N ₄	25611	1657	132.2	128.5	53.7	178.8

C.D. at 5 %	3097.6	353.5	3.3	4.8	1.6	9.3
C.V. %	10.6	18.3	2.1	3.1	2.4	4.4
F	n.s.	n.s.	s	s	n.s.	n.s.

Main Plot

- F₀ No FYM
- F₁ With 6 ton/ha FYM

Sub Plot

- N₁ *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha
- N₂ **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha
- N₃ *** 125 % Recommended dose of Fertilizer applied
- N₄ **** 150 % Recommended dose of Fertilizer applied

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Table 46: Integrated Nutrient Management (INM) in specialty corn - Sweet Corn at Arbhavi

Main Plot (Organic Source)	Sub Plot (Fertility Levels)	Cob Yield (Kg/ha)	Green Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Cob Girth (Cm)	Cob Length (cm)
O ₁	F ₁	3229	3542	59.7	58.3	181.9	7.9	9.6
	F ₂	3281	3177	59.4	59.4	187.0	6.8	8.6
	F ₃	2865	3646	58.3	58.0	185.1	8.5	10.3
	F ₄	2656	3281	68.8	68.4	185.1	8.0	9.3
O ₂	F ₁	2500	2500	55.9	55.9	186.4	7.0	7.7
	F ₂	2344	3021	58.0	57.6	182.4	8.5	9.6
	F ₃	3333	2865	54.9	53.8	179.8	8.1	9.8
	F ₄	3177	3385	63.2	62.5	181.8	8.2	8.9
O ₃	F ₁	2500	2760	68.8	68.8	187.0	9.4	9.5
	F ₂	2604	2604	68.4	68.1	183.8	9.1	9.7
	F ₃	3073	2865	64.6	64.6	183.3	8.3	9.9
	F ₄	2448	3229	74.7	71.2	185.1	8.0	9.1

Location mean	2834.2	3072.9	62.9	62.2	184.1	8.1	9.3
C.D.(5%) AiBj-AiBk	218.3	404.0	6.7	5.2	5.3	0.6	0.7
C.D.(5%) AiBk-AjBk	277.4	387.2	10.6	8.7	5.8	0.6	0.6
F(5%)	s	s	n.s.	n.s.	n.s.	s	s

O ₁	3008	3411	61.5	61.0	184.8	7.8	9.4
O ₂	2839	2943	58.0	57.5	182.6	8.0	9.0
O ₃	2656	2865	69.1	68.1	184.8	8.7	9.5

C.D.(5%) Ai-Aj	206.6	170.4	9.0	7.6	3.6	0.4	0.1
C.V.(%) Error A	6.4	4.9	12.7	10.7	1.7	4.1	0.9
F(5%)	s	s	n.s.	s	n.s.	s	s

F ₁	2743	2934	61.5	61.0	185.1	8.1	8.9
F ₂	2743	2934	61.9	61.7	184.4	8.1	9.3
F ₃	3090	3125	59.3	58.8	182.7	8.3	10.0
F ₄	2760	3299	68.9	67.4	184.0	8.1	9.1

C.D.(5%)Bi-Bj	126.1	233.2	3.9	3.0	3.1	0.3	0.4
C.V.(%)ErrorB	4.5	7.7	6.2	4.9	1.7	4.0	4.2
F(5%)	s	s	s	s	n.s.	n.s.	s

Treatment Details:

Main Plot Organic Source

O ₁	No FYM
O ₂	FYM @ 6 t ha ⁻¹
O ₃	FYM @ 10 t ha ⁻¹

Sub Plot Fertilizer Levels

F ₁	150:75:37.5 kg
F ₂	150:60:40 kg (DMR 100%)
F ₃	187.5:75:50 (125% RDF)
F ₄	225.0:90:60 (150% RDF)

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Table 47: Integrated nutrient management in specialty corn (Sweet Corn) at Chhindwara.

Main Plot	Sub Plot	Green Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Days to 50% Silking	Plant Height (cm)
F ₀	N ₁	11741	58.1	56.7	51.3	171.3
	N ₂	11852	59.6	57.8	52.0	175.3
	N ₃	12630	59.6	58.9	53.0	175.3
	N ₄	13481	60.7	59.6	53.7	182.0
F ₁	N ₁	11741	58.9	57.8	52.0	175.3
	N ₂	12519	60.0	58.5	52.7	175.7
	N ₃	12704	60.4	59.3	53.3	181.7
	N ₄	13556	61.9	61.1	53.3	184.3

Mean of location	12527.8	59.9	58.7	52.7	177.6
C.D. at 5 %	1511.3	3.1	2.2	2.0	6.5
F	n.s.	n.s.	n.s.	n.s.	n.s.

F ₀	12426	59.5	58.2	52.5	176.0
F ₁	12630	60.3	59.2	52.8	179.3

C.D. at 5 %	755.7	1.5	1.1	1.0	3.3
F	n.s.	n.s.	n.s.	n.s.	n.s.

N ₁	11741	58.5	57.2	51.7	173.3
N ₂	12185	59.8	58.1	52.3	175.5
N ₃	12667	60.0	59.1	53.2	178.5
N ₄	13519	61.3	60.4	53.5	183.2

C.D. at 5 %	1068.7	2.2	1.5	1.4	4.6
C.V. %	6.9	2.9	2.1	2.2	2.1
F	s	n.s.	s	n.s.	s

Main Plot

- F₀ No FYM
- F₁ With 6 ton/ha FYM

Sub Plot

- N₁ *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha
- N₂ **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha
- N₃ *** 125 % Recommended dose of Fertilizer applied
- N₄ ****150 % Recommended dose of Fertilizer applied

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Table 48: Integrated Nutrient Management on HQPM-1 at Baharaich.

Treatments	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)
T ₁	5533	75.8	77.3	145.3
T ₂	5817	77.5	79.0	163.0
T ₃	6550	76.5	77.9	182.3
T ₄	7067	75.6	76.9	192.3
T ₅	5717	74.6	76.5	186.3
T ₆	6333	75.8	78.1	198.3
T ₇	7033	75.4	78.1	205.5
T ₈	7500	76.0	77.9	211.3

Mean	6443.8	75.9	77.7	185.5
CD	237.2	1.4	1.7	4.0
CV (%)	2.5	1.2	1.5	1.5
Significance	S	S	N.S.	S

*Treatment Details: Not available

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Table 49: Integrated Nutrient Management in specialty corn (QPM) at Arbhavi.

Main Plot (Organic Source)	Sub Plot (Fertility Levels)	Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Ear Height (cm)	Moisture (%)
O ₁	F ₁	3385	2917	67.7	65.3	170.5	83.0	25.6
	F ₂	5365	5365	79.0	77.6	180.0	76.5	26.3
	F ₃	4375	3802	73.3	67.7	178.5	83.0	26.6
	F ₄	5052	4115	72.4	70.3	175.5	76.0	30.8
O ₂	F ₁	3490	2604	57.8	55.7	181.3	79.5	25.3
	F ₂	4063	4688	62.5	60.4	177.0	82.5	28.6
	F ₃	4271	3611	68.6	63.0	178.5	78.5	28.3
	F ₄	4340	4167	70.7	65.1	181.0	74.0	22.4
O ₃	F ₁	4271	3177	69.8	67.7	177.0	82.0	26.7
	F ₂	4479	3611	65.3	63.2	178.0	80.5	32.4
	F ₃	4323	3368	63.4	61.3	179.5	80.0	24.6
	F ₄	4167	3194	62.2	53.1	182.0	80.5	25.7

Location mean	4298.3	3718.2	67.7	64.2	178.2	79.7	26.9
C.D.(5%) AiBj-AiBk	515.6	450.9	7.9	10.4	3.5	5.5	3.5
C.D.(5%) AiBk-AjBk	493.2	583.5	7.7	10.6	3.6	5.7	3.4
F(5%)	s	s	s	s	s	n.s.	s

O ₁	4544	4049	73.1	70.2	176.1	79.6	27.3
O ₂	4041	3767	64.9	61.1	179.5	78.6	26.1
O ₃	4310	3338	65.1	61.3	179.1	80.8	27.4

C.D.(5%) Ai-Aj	215.1	441.2	3.5	5.6	1.9	3.2	1.5
C.V.(%) Error A	4.4	10.5	4.6	7.8	1.0	3.5	5.1
F(5%)	s	s	s	s	s	n.s.	n.s.

F ₁	3715	2899	65.1	62.9	176.3	81.5	25.9
F ₂	4635	4554	68.9	67.1	178.3	79.8	29.1
F ₃	4323	3594	68.4	64.0	178.8	80.5	26.5
F ₄	4520	3825	68.4	62.8	179.5	76.8	26.3

C.D.(5%)Bi-Bj	297.7	260.3	4.6	6.0	2.0	3.2	2.0
C.V.(%)ErrorB	7.0	7.1	6.8	9.4	1.2	4.0	7.7
F(5%)	s	s	n.s.	n.s.	s	s	s

*Treatment Details is on next page

Cont...

A - 101 (b)

Main Plot (Organic Source)	Sub Plot (Fertility Levels)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels/R ow	Test Weight (g) 100 Grain	Shelling (%)
O ₁	F ₁	12.8	12.8	13.3	28.7	38.9	80.2
	F ₂	12.3	13.1	13.7	24.4	39.6	77.3
	F ₃	12.2	12.3	14.2	28.5	36.6	79.4
	F ₄	12.6	13.6	14.4	29.3	32.6	85.6
O ₂	F ₁	12.2	12.5	13.8	27.4	36.6	80.3
	F ₂	12.1	11.8	13.9	28.4	37.4	82.2
	F ₃	11.8	12.1	14.5	24.6	38.0	82.5
	F ₄	12.2	11.4	14.5	26.6	42.8	77.2
O ₃	F ₁	12.5	13.1	14.7	27.8	42.3	80.9
	F ₂	13.6	13.6	14.2	29.4	42.5	81.6
	F ₃	13.7	12.4	13.6	33.7	40.4	80.0
	F ₄	13.3	14.1	13.6	35.0	41.3	73.2

Location mean	12.6	12.7	14.0	28.6	39.1	80.0
C.D.(5%) AiBj-AiBk	0.5	0.9	0.6	2.4	2.8	4.7
C.D.(5%) AiBk-AjBk	0.4	0.8	1.0	2.6	6.7	6.5
F(5%)	s	s	s	s	s	s

O ₁	12.4	12.9	13.9	27.7	36.9	80.6
O ₂	12.1	11.9	14.2	26.8	38.7	80.5
O ₃	13.2	13.3	14.0	31.5	41.6	78.9

C.D.(5%) Ai-Aj	0.2	0.3	0.8	1.7	6.3	5.2
C.V.(%) Error A	1.1	2.1	5.1	5.2	14.1	5.7
F(5%)	s	s	n.s.	s	n.s.	n.s.

F ₁	12.5	12.8	13.9	28.0	39.3	80.5
F ₂	12.7	12.8	13.9	27.4	39.8	80.4
F ₃	12.5	12.3	14.1	28.9	38.3	80.6
F ₄	12.7	13.0	14.2	30.3	38.9	78.6

C.D.(5%)Bi-Bj	0.3	0.5	0.4	1.4	1.6	2.7
C.V.(%)ErrorB	2.1	4.1	2.5	4.8	4.2	3.4
F(5%)	n.s.	s	n.s.	s	n.s.	n.s.

Treatment Details:

Main Plot Organic Source

O ₁	No FYM
O ₂	FYM @ 6 t ha ⁻¹
O ₃	FYM @ 10 t ha ⁻¹

Sub Plot Fertilizer Levels

F ₁	150:75:37.5 kg
F ₂	150:60:40 kg (DMR 100%)
F ₃	187.5:75:50 (125% RDF)
F ₄	225.0:90:60 (150% RDF)

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Table 50: Integrated nutrient management in specialty corn (QPM) at Chhindwara.

Main Plot	Sub Plot	Grain Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Days to 50% Silking	Plant Height (cm)
F ₀	N ₁	5341	59.3	60.4	57.7	172.7
	N ₂	5985	60.4	61.5	56.7	180.3
	N ₃	7026	60.7	62.2	56.3	181.7
	N ₄	7048	61.5	63.3	56.0	185.0
F ₁	N ₁	5907	59.6	60.4	57.0	178.3
	N ₂	6326	60.4	61.5	56.3	181.0
	N ₃	7048	60.7	62.6	56.0	184.0
	N ₄	7159	61.9	63.3	55.3	191.3

Mean of location	6480.1	60.6	61.9	56.4	181.8
C.D. at 5 %	1082.9	4.9	3.1	2.6	10.6
F	n.s.	n.s.	n.s.	n.s.	n.s.

F ₀	6350	60.5	61.9	56.7	179.9
F ₁	6610	60.6	61.9	56.2	183.7

C.D. at 5 %	541.4	2.5	1.6	1.3	5.3
F	n.s.	n.s.	n.s.	n.s.	n.s.

N ₁	5624	59.4	60.4	57.3	175.5
N ₂	6156	60.4	61.5	56.5	180.7
N ₃	7037	60.7	62.4	56.2	182.8
N ₄	7104	61.7	63.3	55.7	188.2

C.D. at 5 %	765.7	3.5	2.2	1.8	7.5
C.V. %	9.5	4.7	2.9	2.6	3.3
F	s	n.s.	n.s.	n.s.	s

Main Plot

- F₀ No FYM
- F₁ With 6 ton/ha FYM

Sub Plot

- N₁ *State dose of Fertilizer applied: N120 : P60 and K40 Kg/ha
- N₂ **Recommended dose of Fertilizer applied : N150 : P60 and K40 Kg/ha
- N₃ *** 125 % of R D
- N₄ ****150% of R D

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Table 51: Studies on Nutrient Scheduling in maize at Srinagar.

Treatment	Grain Yield (Kg/ha)	No. of Plants (000/ha)	No. of Cobs (000/ha)	Days to 50% Silking	Grain Yield (Kg/ha)	No. of Plants (000/ha)	No. of Cobs (000/ha)	Days to 50% Silking
	K.D.M. 438 Shalimar composite - 4				Sweet Corn Madhuri			
T ₁	5263	80.9	102.3	71.2	9889	80.8	97.8	65.2
T ₂	5748	81.7	101.0	72.3	10327	80.3	97.7	65.1
T ₃	5992	81.7	103.5	71.8	10678	80.5	99.2	64.8
T ₄	6309	82.2	102.4	72.3	11353	81.1	98.2	65.3
Mean	5827.9	81.6	102.3	71.9	10561.7	80.7	98.2	65.1
CD	141.1	2.4	1.7	1.8	469.1	1.7	4.1	1.5
CV (%)	1.2	1.5	0.8	1.2	2.2	1.1	2.1	1.2
Significance	S	N.S.	N.S.	N.S.	S	N.S.	N.S.	N.S.

Treatment	Grain Yield (Kg/ha)	No. of Plants (000/ha)	No. of Cobs (000/ha)	Days to 50% Silking	Grain Yield (Kg/ha)	No. of Plants (000/ha)	No. of Cobs (000/ha)	Days to 50% Silking
	QPM				Pop Corn			
T ₁	4215	77.2	80.9	68.4	2066	81.2	83.0	57.8
T ₂	4398	77.1	81.2	68.5	2427	82.1	83.3	57.8
T ₃	4892	77.3	80.8	68.5	2754	81.7	83.5	57.5
T ₄	5155	76.8	81.1	68.6	2817	82.0	83.2	57.8
Mean	4664.9	77.1	81.0	68.5	2516.0	81.8	83.2	57.7
CD	214.7	2.3	0.7	1.2	179.3	1.1	1.7	0.9
CV (%)	2.3	1.5	0.4	0.9	3.6	0.7	1.0	0.8
Significance	S	N.S.	N.S.	N.S.	S	N.S.	N.S.	N.S.

Treatments Details:

Stage of Nitrogen application

Treatment	Stage of N application				
	Basal	4 LS*	8 LS*	TE*	GFS*
T ₁	33	nil	33	nil	33
T ₂	10	30	30	20	10
T ₃	5	30	30	20	10
T ₄	20	25	30	20	5

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Table 52: Studies on Nitrogen scheduling in maize at Arbhavi.

Treatment	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	Ear Height (cm)
T ₁	2037	2639	4722	72.2	62.5	168.0	80.3
T ₂	2794	3611	4792	68.8	65.6	169.3	80.7
T ₃	3217	4167	4931	70.1	65.6	167.3	81.0
T ₄	2884	3819	4583	72.2	72.2	163.3	83.7
T ₅	2772	3611	5625	72.6	63.5	163.0	90.3

Mean	2740.8	3569.4	4930.6	71.2	65.9	166.2	83.2
CD	317.7	450.1	774.6	5.2	4.8	12.4	8.7
CV (%)	6.2	6.7	8.3	3.9	3.9	3.9	5.5
Significance	S	S	N.S.	N.S.	S	N.S.	N.S.

Treatment	Moisture (%)	Cob Girth (Cm)	Cob Length (cm)	No. of Rows/Cob	No. of Kernels /Row	Test Weight (g) 100 Grain	Shelling (%)
T ₁	22.8	12.6	10.6	13.6	25.3	37.2	77.1
T ₂	22.6	12.6	11.0	13.8	24.0	39.2	77.4
T ₃	25.5	13.1	10.9	14.7	23.1	37.9	77.4
T ₄	22.2	12.4	10.3	13.5	23.3	40.8	75.4
T ₅	23.4	12.5	9.6	14.5	21.9	39.1	76.6

Mean	23.3	12.7	10.5	14.0	23.5	38.8	76.8
CD	9.4	1.6	2.3	1.0	6.3	4.5	3.3
CV (%)	21.4	6.6	11.4	3.7	14.2	6.2	2.3
Significance	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.

Treatment	Stage of N application				
	Basal	4 LS*	8 LS*	TE*	EGF*
T ₁	33	nil	33	33	nil
T ₂	10	30	30	20	10
T ₃	5	30	40	15	10
T ₄	20	25	30	20	5
T ₅	33	33% at 30DAS & 33% at 45 DAS			

LS* Leaf stage
 TE* Tassel Emergence
 EGF* Early grain filling

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Table 53: Realizing potential yield in maize at Pantnagar.

Main Plot Spacing	Sub Plot Fertility Levels	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Plant Height (cm)	Days to 50% Tasselling	Days to 50% Silking	Cob Length (cm)	Cob Girth (cm)	Moisture (%)
P ₁	F ₁	3632	5729	53.5	56.3	188.0	53.8	58.0	17.4	13.7	25.5
	F ₂	5042	7681	53.5	55.6	197.0	54.0	58.0	16.6	13.0	26.0
	F ₃	5139	8007	52.1	54.2	198.0	53.8	58.0	16.3	14.3	27.0
	F ₄	5250	8188	51.4	52.8	200.3	54.3	57.8	16.7	14.7	27.0
P ₂	F ₁	4743	7618	52.1	53.5	188.3	54.5	58.0	14.6	13.6	26.3
	F ₂	5438	8708	53.5	55.6	186.8	54.5	58.5	15.4	13.6	26.0
	F ₃	5576	8882	52.1	54.2	188.8	54.3	57.8	17.0	13.6	26.0
	F ₄	5653	9097	52.8	53.5	189.3	53.8	57.8	18.0	13.9	25.8
P ₃	F ₁	5250	8361	53.5	54.9	187.0	53.8	57.8	17.4	13.9	26.5
	F ₂	5750	9194	50.7	54.9	185.3	54.5	58.3	17.9	14.8	26.3
	F ₃	6035	9813	53.5	54.9	195.5	54.8	58.5	16.9	14.8	27.0
	F ₄	6104	9868	52.1	52.8	187.0	54.0	58.3	16.9	14.1	26.5
P ₄	F ₁	5201	8292	50.7	53.5	194.0	54.5	58.5	16.6	14.0	25.5
	F ₂	5972	9479	51.4	54.2	193.5	54.8	58.8	15.8	14.4	26.3
	F ₃	6875	11069	51.4	55.6	195.0	53.8	58.3	15.5	13.7	26.5
	F ₄	7083	11153	51.4	54.2	196.5	53.5	57.8	15.9	13.7	26.3
P ₅	F ₁	5597	8896	53.5	56.3	183.8	54.0	58.0	15.9	13.8	25.8
	F ₂	6229	9757	52.8	54.9	178.5	54.0	58.3	14.4	13.2	25.8
	F ₃	6861	10944	52.8	54.9	188.8	53.8	58.0	16.9	14.3	26.5
	F ₄	6938	11076	52.8	54.2	184.3	54.5	58.3	16.9	14.2	26.8
Location mean		5718.4	9090.6	52.4	54.5	190.3	54.1	58.1	16.4	13.9	26.3
C.D.(5%) AiBj-AiBk		532.9	607.3	4.8	7.8	15.8	1.1	0.9	2.3	1.7	1.5
C.D.(5%) AiBk-AjBk		556.0	567.5	5.1	8.0	17.7	1.1	1.0	2.5	1.6	1.5
F(5%)		n.s.	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
P ₁		4766	7401	52.6	54.7	195.8	53.9	57.9	16.7	13.9	26.4
P ₂		5352	8576	52.6	54.2	188.3	54.3	58.0	16.2	13.7	26.0
P ₃		5785	9309	52.4	54.3	188.7	54.3	58.2	17.3	14.4	26.6
P ₄		6283	9998	51.2	54.3	194.8	54.1	58.3	15.9	13.9	26.1
P ₅		6406	10168	53.0	55.0	183.8	54.1	58.1	16.0	13.9	26.2
C.V.(%) Error A		310.6	213.8	3.1	4.3	11.1	0.6	0.6	1.4	0.6	0.7
C.V.(%) Error B		7.1	3.1	7.6	10.2	7.6	1.5	1.4	11.2	5.4	3.5
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
F ₁		4885	7779	52.6	54.9	188.2	54.1	58.1	16.4	13.8	25.9
F ₂		5686	8964	52.4	55.0	188.2	54.4	58.4	16.0	13.8	26.1
F ₃		6097	9743	52.4	54.7	193.2	54.1	58.1	16.5	14.1	26.6
F ₄		6206	9876	52.1	53.5	191.5	54.0	58.0	16.8	14.1	26.5
C.D.(5%) Bi-Bj		238.3	271.6	2.1	3.5	7.1	0.5	0.4	1.0	0.7	0.7
C.V.(%) Error B		6.5	4.7	6.4	10.0	5.8	1.4	1.1	9.9	8.4	4.1
F(5%)		s	s	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Treatments Details:

**Planting Density
(Main effect)**

**Fertility levels
(Sub plot effect)**

- P₁ : 55 cm x 20 cm F₁: 150:60:60:25 : N:P205:K20: ZnS04 kg/ha)
- P₂ : 60 cm x 20 cm F₂: 200:75:75:25 : N:P205:K20: ZnS04 kg/ha)
- P₃ : 65 cm x 20 cm F₃: 250:960:90:25 : N:P205:K20: ZnS04 kg/ha)
- P₄ : 70 cm x 20 cm F₄: 300:105:105:25 : N:P205:K20: ZnS04 kg/ha)
- P₅ : 75 cm x 20 cm

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Table 54: Realizing potential in maize at Ambikapur.

Main Plot Spacing	Sub plot Fertility Levels	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	No. of Plant (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	Test Weight (g) 100 Grain
S ₁	F ₁	5185	6593	83.2	76.8	225.3	87.9	15.2	14.4	13.7	36.3	28.7
	F ₂	5259	6306	81.2	75.1	240.1	92.6	15.5	16.1	14.3	37.0	34.8
	F ₃	5284	6444	82.2	75.1	249.1	94.8	15.2	14.9	14.1	36.7	33.5
	F ₄	4988	6198	82.7	77.5	250.8	99.9	15.2	15.1	14.1	36.1	33.3
S ₂	F ₁	4511	5556	75.3	70.9	214.1	96.3	15.1	15.0	14.1	36.5	33.5
	F ₂	6356	7533	76.9	73.1	233.5	92.7	15.7	14.2	14.4	37.7	35.1
	F ₃	5689	6933	75.1	70.2	235.8	98.9	15.9	14.3	14.1	38.7	33.2
	F ₄	5667	7000	75.8	71.6	246.5	93.6	15.4	13.6	14.0	36.8	33.0
S ₃	F ₁	5826	7364	69.7	68.7	224.6	90.0	15.6	15.0	14.3	38.6	32.0
	F ₂	6051	7036	68.9	67.9	235.5	94.6	15.7	15.8	13.9	39.4	36.3
	F ₃	6687	8000	68.9	67.9	229.2	97.2	15.3	15.9	14.1	36.1	36.1
	F ₄	6010	7241	68.9	68.1	228.7	102.2	16.1	15.9	14.6	37.6	35.9
S ₄	F ₁	5086	6286	65.0	64.4	215.7	96.6	15.6	15.9	14.2	38.8	31.5
	F ₂	6038	7185	65.3	64.4	230.7	100.0	16.4	16.1	14.6	37.8	36.0
	F ₃	6495	7657	65.0	64.0	231.7	93.9	16.1	16.2	14.5	36.5	36.5
	F ₄	6210	7390	66.3	65.5	230.9	101.3	15.6	15.9	13.9	38.2	36.3
S ₅	F ₁	5387	6542	60.6	59.9	219.3	100.2	15.6	16.3	14.2	36.9	35.7
	F ₂	5956	7004	62.2	61.3	214.3	102.3	16.0	15.7	14.7	37.1	35.7
	F ₃	5209	6187	60.3	59.2	230.9	100.0	16.3	16.3	14.8	39.3	36.9
	F ₄	6151	7378	60.8	60.1	236.7	96.8	16.3	16.3	13.9	37.7	36.7

Mean of location	5702.2	6891.6	70.7	68.1	231.2	96.6	15.7	15.5	14.2	37.5	34.5
C.D. at 5 %	1508.4	1852.5	3.8	4.2	16.0	8.8	0.7	1.1	0.9	2.3	2.7
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.
S ₁	5179	6385	82.3	76.1	241.3	93.8	15.3	15.1	14.0	36.5	32.6
S ₂	5556	6756	75.8	71.4	232.5	95.4	15.5	14.3	14.2	37.4	33.7
S ₃	6144	7410	69.1	68.2	229.5	96.0	15.7	15.7	14.2	37.9	35.0
S ₄	5957	7130	65.4	64.6	227.3	98.0	15.9	16.0	14.3	37.8	35.1
S ₅	5676	6778	61.0	60.1	225.3	99.8	16.0	16.2	14.4	37.8	36.2
C.D. at 5 %	754.2	926.3	1.9	2.1	8.0	4.4	0.3	0.5	0.5	1.1	1.3
F	n.s.	n.s.	s	s	s	n.s.	s	s	n.s.	n.s.	s
F ₁	5199	6468	70.8	68.1	219.8	94.2	15.4	15.3	14.1	37.4	32.3
F ₂	5932	7013	70.9	68.4	230.8	96.4	15.9	15.6	14.4	37.8	35.6
F ₃	5873	7044	70.3	67.3	235.3	97.0	15.8	15.5	14.3	37.5	35.2
F ₄	5805	7041	70.9	68.6	238.7	98.7	15.7	15.4	14.1	37.3	35.0
C.D. at 5 %	674.6	828.5	1.7	1.9	7.2	3.9	0.3	0.5	0.4	1.0	1.2
C.V. %	16.0	16.3	3.3	3.7	4.2	5.5	2.5	4.2	3.9	3.6	4.7
F	n.s.	n.s.	n.s.	n.s.	s	n.s.	s	n.s.	n.s.	n.s.	s

Treatment Details:

A. Plant density (cm)		B. Fertility level (kg/ha)	
S ₁	55 X 20	F ₁	150:80:80:25
S ₂	60 X 20	F ₂	200:75:75:25
S ₃	65 X 20	F ₃	250:90:90:25
S ₄	70 X 20	F ₄	300:105:105:25
S ₅	75 X 20		

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Table 55: Realizing potential in maize at Ranchi.

Main plot (Spacing)	Sub plot (Fertility Levels)	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	Fodder Yield (Kg/ha)	No. of Plant (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	Test Weight (g) 100 Grain	Shelling (%)
S ₁	F ₁	3011	3754	7394	87.7	71.9	226.3	92.9	12.4	13.6	11.6	32.5	23.7	80.0
	F ₂	3537	4356	8267	87.9	70.5	236.9	98.6	13.2	14.8	12.7	34.5	26.7	81.1
	F ₃	3830	4704	8703	87.9	70.5	246.1	101.8	13.3	15.8	13.0	33.0	28.7	81.4
	F ₄	3507	4530	10182	87.5	72.5	247.7	105.9	12.5	14.5	12.3	33.7	25.8	77.4
S ₂	F ₁	3143	4015	6867	80.0	69.1	219.1	98.3	13.4	14.9	12.8	33.5	25.8	78.2
	F ₂	4264	5127	8000	80.4	70.9	234.5	95.7	13.7	16.5	13.3	35.4	29.4	83.1
	F ₃	3971	4854	9044	80.6	68.5	236.8	102.9	13.5	15.0	12.9	34.8	28.5	81.7
	F ₄	3656	4469	8400	80.2	69.6	247.5	96.6	13.2	14.9	12.8	34.8	26.1	81.7
S ₃	F ₁	3370	4225	6646	74.0	68.5	228.6	89.0	13.8	15.5	13.3	34.1	26.1	79.7
	F ₂	4358	5236	8123	73.8	67.9	235.5	94.6	14.0	16.0	13.7	35.9	29.6	83.1
	F ₃	4179	5040	8082	74.2	67.9	229.2	98.2	13.6	15.4	13.4	35.5	29.4	82.9
	F ₄	3629	4429	8677	73.8	68.0	228.7	102.2	14.0	16.2	13.4	35.3	27.3	81.5
S ₄	F ₁	3514	4308	6781	69.0	65.6	218.7	92.6	13.7	15.6	13.6	34.7	27.4	81.4
	F ₂	4448	5303	7943	69.4	65.6	229.7	97.0	14.5	16.2	14.0	35.7	29.0	83.7
	F ₃	4067	4916	7771	69.4	65.2	230.7	91.9	14.2	16.3	13.9	36.7	28.8	82.7
	F ₄	3610	4374	7962	68.9	66.5	229.9	98.3	14.0	16.0	13.7	35.7	28.3	82.4
S ₅	F ₁	3648	4457	6578	64.0	62.4	222.3	93.2	13.7	15.9	13.8	35.5	26.7	81.7
	F ₂	4212	5027	7751	64.3	63.6	213.3	96.3	14.3	15.9	14.3	36.7	29.7	83.7
	F ₃	4006	4756	7271	64.6	61.8	229.9	95.0	14.5	16.7	14.2	37.5	29.1	84.0
	F ₄	3599	4326	7858	64.4	62.5	235.7	90.8	14.2	16.1	13.8	36.1	28.6	83.2

Mean of location	3777.9	4610.3	7915.0	75.1	67.4	231.4	96.6	13.7	15.6	13.3	35.1	27.7	81.7
C.D. at 5 %	607.1	466.1	1787.7	2.9	3.5	21.9	8.9	1.0	1.2	1.0	2.3	2.6	5.4
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.	n.s.
S ₁	3471	4336	8636	87.7	71.4	239.3	99.8	12.8	14.7	12.4	33.4	26.2	80.0
S ₂	3759	4616	8078	80.3	69.5	234.5	98.4	13.5	15.3	13.0	34.6	27.5	81.2
S ₃	3884	4732	7882	74.0	68.1	230.5	96.0	13.9	15.8	13.4	35.2	28.1	81.8
S ₄	3910	4725	7614	69.2	65.7	227.3	95.0	14.1	16.0	13.8	35.7	28.4	82.6
S ₅	3866	4642	7364	64.3	62.6	225.3	93.8	14.2	16.2	14.0	36.4	28.5	83.1
C.D. at 5 %	303.5	233.0	893.9	1.4	1.7	11.0	4.5	0.5	0.6	0.5	1.1	1.3	2.7
F	s	s	n.s.	s	s	n.s.	n.s.	s	s	s	s	s	n.s.
F ₁	3337	4152	6853	74.9	67.5	223.0	93.2	13.4	15.1	13.0	34.1	25.9	80.2
F ₂	4164	5010	8017	75.2	67.7	230.0	96.4	13.9	15.9	13.6	35.6	28.9	83.0
F ₃	4010	4854	8174	75.3	66.8	234.5	98.0	13.8	15.9	13.5	35.5	28.9	82.5
F ₄	3600	4426	8616	75.0	67.8	237.9	98.7	13.6	15.6	13.2	35.1	27.2	81.2
C.D. at 5 %	271.5	208.4	799.5	1.3	1.6	9.8	4.0	0.5	0.5	0.5	1.0	1.2	2.4
C.V. %	9.7	6.1	13.7	2.3	3.1	5.7	5.6	4.6	4.6	4.7	3.9	5.6	4.0
F	s	s	s	n.s.	n.s.	s	s	n.s.	s	n.s.	s	s	n.s.

Treatment Details:

A. Plant Density (cm)

S ₁	55 X 20
S ₂	60 X 20
S ₃	65 X 20
S ₄	70 X 20
S ₅	75 X 20

B. Fertility Level (kg/ha)

F ₁	150:60:60:25
F ₂	200:75:75:25
F ₃	250:90:90:25
F ₄	300:105:105:25

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Table 56: Yield potential through nutrient management in maize Kharif 2009 at Hyderabad.

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% Silking	Plant Height (cm)
S ₁	N ₁	5743	7207	66.9	49.8	54.3	230.7
	N ₂	6437	9869	80.4	60.4	54.7	221.8
	N ₃	8933	12170	81.3	71.1	57.0	243.0
	N ₄	10109	11817	78.1	72.6	57.3	263.0
S ₂	N ₁	5872	5331	67.0	54.1	55.0	214.0
	N ₂	8385	11544	78.3	60.0	55.3	220.0
	N ₃	10130	12852	81.1	69.6	58.0	255.3
	N ₄	8859	11426	75.9	70.7	60.7	252.7
S ₃	N ₁	5613	5815	57.8	43.0	54.7	228.3
	N ₂	7796	6081	64.1	52.8	56.3	235.3
	N ₃	7463	11319	73.5	64.4	59.0	262.0
	N ₄	8915	10652	68.3	67.2	60.0	247.3
S ₄	N ₁	6828	6978	56.5	47.4	54.7	252.7
	N ₂	8143	9359	70.0	61.5	56.3	240.7
	N ₃	10854	12974	72.4	63.0	60.7	245.3
	N ₄	10144	12296	69.3	66.3	61.0	239.3
S ₅	N ₁	5467	8544	54.6	46.7	54.7	244.0
	N ₂	5481	8750	53.1	46.9	57.0	230.3
	N ₃	7041	9700	56.1	54.1	59.3	231.3
	N ₄	7169	9596	55.9	53.7	61.3	228.3
Location mean		7769.1	9714.1	68.0	58.8	57.4	239.3
C.D.(5%) AiBj-AiBk		1530.0	1617.9	6.2	4.3	1.3	20.4
C.D.(5%) AiBk-AjBk		1489.4	1871.2	8.0	4.5	1.4	21.2
F(5%)		s	s	s	s	s	s
S ₁		7806	10266	76.7	63.5	55.8	239.6
S ₂		8312	10288	75.6	63.6	57.3	235.5
S ₃		7447	8467	65.9	56.9	57.5	243.3
S ₄		8992	10402	67.0	59.5	58.2	244.5
S ₅		6289	9148	55.0	50.3	58.1	233.5
C.D.(5%) Ai-Aj		683.9	1245.2	6.0	2.6	0.7	11.8
C.V.(%) Error A		9.4	13.6	9.3	4.6	1.4	5.2
F(5%)		s	s	s	s	s	n.s.
N ₁		5904	6775	60.6	48.2	54.7	233.9
N ₂		7249	9121	69.2	56.3	55.9	229.6
N ₃		8884	11803	72.9	64.4	58.8	247.4
N ₄		9039	11157	69.5	66.1	60.1	246.1
C.D.(5%) Bi-Bj		684.3	723.6	2.8	1.9	0.6	9.1
C.V.(%) Error B		11.8	10.0	5.5	4.4	1.4	5.1
F(5%)		s	s	s	s	s	s

Treatment Details:

Spacings-5 (Main Plot)

- S₁ 55x20 cm
- S₂ 60x20 cm
- S₃ 65x20 cm
- S₄ 70x20 cm
- S₅ 75x 20 cm

Nutrient levels- 4 (Sub Plot)

- N₁ 150-60-60 N - P₂O₅ - K₂O kg/ha
- N₂ 200:75-75 N - P₂O₅ - K₂O kg/ha
- N₃ 250-90-90 N - P₂O₅ - K₂O kg/ha
- N₄ 300-105-105 N-P₂O₅-K₂O kg/ha

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Table 57: Response of Sweet Corn to fertility levels and plant population at Jorhat.

Main Plot F Levels	Sub Plot Spacing	Cob Yield (Kg/ha)	Fresh Weight (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)
0:00:00	60 x 15 cm	7500	3561	75.9	62.9	165.3
	60 x 20 cm	8133	3324	62.7	55.1	165.7
	60 x 25 cm	8633	3398	52.3	48.7	172.7
	60 x 30 cm	9267	3525	47.3	46.1	174.7
40:20:20	60 x 15 cm	8100	4270	78.9	68.3	169.3
	60 x 20 cm	8667	4928	55.3	49.7	171.3
	60 x 25 cm	9167	5305	49.4	47.4	172.0
	60 x 30 cm	9567	4200	43.5	42.2	176.7
80:40:40	60 x 15 cm	9533	6359	78.5	70.2	169.3
	60 x 20 cm	10133	7462	66.9	60.3	170.3
	60 x 25 cm	11700	7988	61.8	59.3	175.3
	60 x 30 cm	13833	6482	43.6	43.3	178.7
120:80:80	60 x 15 cm	11300	6763	83.1	71.0	176.7
	60 x 20 cm	12700	8755	67.3	60.5	178.3
	60 x 25 cm	14800	8166	61.9	59.9	183.0
	60 x 30 cm	15933	6855	44.3	43.8	184.0

Location mean	10560.4	5708.8	60.8	55.5	174.0
C.D.(5%) AiBj-AiBk	668.7	407.0	3.4	4.6	4.5
C.D.(5%) AiBk-AjBk	652.7	397.4	3.8	5.0	8.9
F(5%)	s	s	s	s	n.s.

0:00:00	8383	3452	59.5	53.2	169.6
16:20:20	8875	4676	56.8	51.9	172.3
8:40:40	11300	7073	62.7	58.3	173.4
120:80:80	13683	7635	64.2	58.8	180.5

C.V.(%) Error A	304.3	185.4	2.4	3.1	8.1
C.V.(%) Error A	2.9	3.3	3.9	5.6	4.6
F(5%)	s	s	s	s	n.s.

60 x 15 cm	9108	5238	79.1	68.1	170.2
60 x 20 cm	9908	6117	63.1	56.4	171.4
60 x 25 cm	11075	6214	56.3	53.8	175.8
60 x 30 cm	12150	5266	44.7	43.9	178.5

C.D.(5%)Bi-Bj	334.3	203.5	1.7	2.3	2.2
C.V.(%)ErrorB	3.8	4.2	3.3	4.9	1.5
F(5%)	s	s	s	s	s

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Table 58: Effect of Fertility levels and genotype on grain yield of maize (Full Season) trail Kharif 2009 at Karnal.

Main Plot N Levels	Sub Plot Genotype	Grain Yield (Kg/ha)	Plant Stand (000/ha)	Days to 50% Tasseling	Days to 50% Silking
0-0-0	HKH 312	2843	49.9	56.7	58.7
	HKH 307	2140	48.2	57.3	59.3
	164-7-6X1105	2857	42.9	57.0	59.0
	HKH 311	3123	47.3	57.7	60.3
	HM 9	2623	51.0	58.0	60.3
100-40-40	HKH 312	4577	49.3	55.3	57.3
	HKH 307	4823	47.5	57.0	59.3
	164-7-6X1105	4690	45.3	57.7	60.3
	HKH 311	4767	47.1	56.7	59.0
	HM 9	4297	47.1	59.0	61.7
150-60-60	HKH 312	5513	51.0	55.7	58.3
	HKH 307	5253	53.0	55.7	58.0
	164-7-6X1105	5573	49.5	58.7	61.0
	HKH 311	5690	50.6	56.0	58.3
	HM 9	5027	50.6	56.0	58.3
200-80-80	HKH 312	5923	51.3	56.7	58.7
	HKH 307	6160	51.7	57.3	59.3
	164-7-6X1105	5753	41.4	58.3	60.3
	HKH 311	6243	46.0	56.7	59.3
	HM 9	5793	49.5	56.7	58.7

Location mean	4683.5	48.5	57.0	59.3
C.D.(5%) AiBj-AiBk	727.8	6.4	2.9	3.3
C.D.(5%) AiBk-AjBk	n.s.	7.2	3.0	3.3
F(5%)		n.s.	n.s.	n.s.

0-0-0	2717	47.9	57.3	59.5
100-40-40	4631	47.3	57.1	59.5
150-60-60	5411	51.0	56.4	58.8
200-80-80	5975	48.0	57.1	59.3

C.D.(5%) Ai-Aj	241.2	4.4	1.6	1.5
C.V.(%) Error A	5.8	10.2	3.2	2.8
F(5%)	s	n.s.	n.s.	n.s.

HKH 312	4714	50.4	56.1	58.3
HKH 307	4594	50.1	56.8	59.0
164-7-6X1105	4718	44.8	57.9	60.2
HKH 311	4956	47.7	56.8	59.3
HM 9	4435	49.6	57.4	59.8

C.D.(5%)Bi-Bj	363.9	3.2	1.4	1.6
C.V.(%)ErrorB	9.3	7.9	3.0	3.3
F(5%)	n.s.	s	n.s.	n.s.

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Table 59: Effect of Fertility levels and genotype on grain yield of maize (Full Season White) trail Kharif 2009 at Karnal.

Main Plot N Levels	Sub Plot Genotype	Grain Yield (Kg/ha)	Plant Stand (000/ha)	Days to 50% Tasseling	Days to 50% Silking
0-0-0	HKH 406	1847	46.8	58.5	60.5
	HKH 407	3260	47.7	57.0	59.0
	HM 5	3282	51.3	59.2	61.2
100-40-40	HKH 406	3472	46.2	56.3	58.3
	HKH 407	5190	50.9	57.5	59.7
	HM 5	5257	50.5	57.7	60.2
150-60-60	HKH 406	4052	45.2	58.8	60.8
	HKH 407	6120	52.7	57.3	59.5
	HM 5	6122	50.8	58.3	60.3
200-80-80	HKH 406	4492	49.0	59.5	61.5
	HKH 407	6700	53.7	58.7	60.8
	HM 5	7053	51.8	59.2	61.2

Location mean	4737.1	49.7	58.2	60.3
C.D.(5%) AiBj-AiBk	375.2	2.3	2.2	2.1
C.D.(5%) AiBk-AjBk	353.8	2.6	2.4	2.4
F(5%)	s	s	n.s.	n.s.

0-0-0	2796	48.6	58.2	60.2
100-40-40	4639	49.2	57.2	59.4
150-60-60	5431	49.6	58.2	60.2
200-80-80	6082	51.5	59.1	61.2

C.D.(5%) Ai-Aj	177.3	1.8	1.6	1.7
C.V.(%) Error A	5.3	5.1	3.9	3.9
F(5%)	s	s	n.s.	n.s.

HKH 406	3465	46.8	58.3	60.3
HKH 407	5318	51.3	57.6	59.8
HM 5	5428	51.1	58.6	60.7

C.D.(5%)Bi-Bj	187.6	1.2	1.1	1.1
C.V.(%)ErrorB	6.8	4.0	3.3	3.0
F(5%)	s	s	n.s.	n.s.

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Table 60: Effect of Fertility levels and genotype on grain yield of Quality Protein Maize Station Trail Kharif 2009 at Karnal.

Main Plot N Levels	Sub Plot Genotype	Plant Stand (000/ha)	Days to 50% Tasseling	Days to 50% Silking
0-0-0	HQPM 20	75.7	56.7	58.7
	HQPM21	73.0	57.3	59.3
	HQPM22	65.0	57.0	59.0
	191-2-6X163	71.7	57.7	60.3
	HQPM1	77.3	58.0	60.3
100-40-40	HQPM 20	74.7	55.3	57.3
	HQPM21	72.0	57.0	59.3
	HQPM22	68.7	57.7	60.3
	191-2-6X163	71.3	56.7	59.0
	HQPM1	71.3	59.0	61.7
150-60-60	HQPM 20	77.3	55.7	58.3
	HQPM21	80.3	55.7	58.0
	HQPM22	75.0	58.7	61.0
	191-2-6X163	76.7	56.0	58.3
	HQPM1	76.7	56.0	58.3
200-80-80	HQPM 20	77.7	56.7	58.7
	HQPM21	78.3	57.3	59.3
	HQPM22	62.7	58.3	60.3
	191-2-6X163	69.7	56.7	59.3
	HQPM1	75.0	56.7	58.7

Location mean	73.5	57.0	59.3
C.D.(5%) AiBj-AiBk	9.7	2.9	3.3
C.D.(5%) AiBk-AjBk	10.9	3.0	3.3
F(5%)	n.s.	n.s.	n.s.

0-0-0	72.5	57.3	59.5
100-40-40	71.6	57.1	59.5
150-60-60	77.2	56.4	58.8
200-80-80	72.7	57.1	59.3

C.D.(5%) Ai-Aj	6.7	1.6	1.5
C.V.(%) Error A	10.2	3.2	2.8
F(5%)	n.s.	n.s.	n.s.

HQPM 20	76.3	56.1	58.3
HQPM21	75.9	56.8	59.0
HQPM22	67.8	57.9	60.2
191-2-6X163	72.3	56.8	59.3
HQPM1	75.1	57.4	59.8

C.D.(5%)Bi-Bj	4.9	1.4	1.6
C.V.(%)ErrorB	7.9	3.0	3.3
F(5%)	s	n.s.	n.s.

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Table 61: Effect of UI-modified Urea on maize grain yield and yield characters at Karnal.

Treatment	Grain Yield (Kg/ha)	Plant Stand (000/ha)	Plant Height (cm)	Ear Height (cm)
T ₁ - Control (No N)	25798	41881	168.3	71.7
T ₂ - Urea @ 150kgN/ha	45901	46135	180.0	83.3
T ₃ - Urea with A11@150kgN/ha	49586	46462	184.0	84.3
T ₄ - Urea with A12@150kgN/ha	49108	46626	184.3	82.3
T ₅ - Urea with A13@150kgN/ha	48485	45971	184.0	82.7
T ₆ - Urea with A14@150kgN/ha	47432	46380	180.7	82.0
T ₇ - Urea @187.5kgN/ha	49443	46626	182.7	84.0
Mean	45107.7	45726.0	180.6	81.5
CD	2541.9	989.4	1.8	2.8
CV (%)	3.2	1.2	0.6	1.9
Significance	S	S	S	S

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Table 62: Weed management in maize at Pantnagar.

Treatment	Grain Yield (Kg/ha)	Cob Yield (Kg/ha)	No. of Plant (000/ha)	No of Cobs (000/ha)	Plant Height (cm)	Days to 50% Tasseling	Days to 50% Silking	Cob Length (cm)	Cob Girth (cm)	Moisture (%)	Weed Dry Weight/m ²
T ₁	4981	8000	64.8	58.3	168.0	54.7	58.7	17.5	13.0	25.7	100.4
T ₂	5509	8963	65.7	59.3	198.0	54.0	58.3	18.0	13.7	25.0	79.0
T ₃	5870	9389	63.0	61.1	188.0	53.3	58.3	14.8	13.8	26.3	68.1
T ₄	4157	6954	64.8	53.7	194.7	53.7	58.0	16.8	12.6	26.0	85.1
T ₅	4833	7685	62.0	52.8	174.3	53.7	57.7	16.1	13.3	26.3	95.7
T ₆	6046	9704	66.7	59.3	193.3	55.0	58.7	16.6	13.3	26.0	91.9
T ₇	4398	7185	52.8	44.4	176.3	53.0	57.3	16.5	14.2	26.0	103.2
T ₈	4009	6574	56.5	50.0	185.7	54.3	58.7	14.9	13.6	26.3	246.5
T ₉	6278	9963	51.9	48.1	157.7	54.7	58.7	16.3	12.4	26.3	6.0
Mean	5120.4	8268.5	60.9	54.1	181.8	54.0	58.3	16.4	13.3	26.0	97.3
CD	482.6	673.1	13.8	7.9	29.9	1.0	1.2	3.9	1.1	1.4	21.3
CV (%)	5.4	4.7	13.1	8.4	9.5	1.1	1.2	13.8	4.9	3.1	12.7
Significance	S	S	N.S.	S	N.S.	S	N.S.	N.S.	N.S.	N.S.	S

Treatments: 09

T1 : Atrazine 1.0 kg a.i./ha - P.E. (2-3 DAS)

T2 : Metribuzine @ 0.25 kg a.i./ha P.E. (2-3 DAS)

T3 : Alchlor @ 0.5 kg a.i./ha + Atrazine @0.5 kg a.i./ha - P.E.

T4 : Pendimethalin @ 0.5 kg a.i./ha P.E. (2-3 DAS) + Atrazine @0.5 kg a.i./ha - P.E.

T5 : Oxadiargyl @ 0.09 kg/ha (80% WP, top star) - PE

T6 : Atrazine 0.5 kg a.i./ha - P.E. followed by 2,4 D-DEE @ 0.4 kg a.i./ha POE at 25 DAS,

T7 : Cover crop (Cowpea)

T8 : Weedy

T9 : Weed free

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Table 63: Weed management in maize at Banswara.

Treatment	Grain Yield (Kg/ha)
T ₁ : Atrazine 1.0 kg a.i/ha pre-em (2-3 DAS)	3116
T ₂ : Metribuzine 0.25 kg a.i/ha pre-em	2773
T ₃ : Alachlor 0.5 kg a.i/ha+Atrazine 0.5 kg a.i/hakg a.i/ha	3493
T ₄ : Pendimethalin 0.5 kg a.i/ha+Atrazine 0.5 kg a.i/ha	3747
T ₅ : Pendimethalin 1.0 kg a.i/ha	3049
T ₆ : Atrazine 0.5 kg a.i/ha	2849
T ₇ : Atrazine 0.5 kg a.i/ha fb 2,4-DEE 0.4 kg a.i/ha PE at 25 DAS	4164
T ₈ : Cover crops (Cowpea)	2556
T ₉ : Weedy check	1516
T ₁₀ : Weed free	4538

Mean 3180.0

CD 435.4

CV (%) 8.0

Significance S

Table 64: Efficacy of different herbicides alone and in combination against complex weed flora in kharif maize (kharif 2009) at Karnal.

Treatment	Dose (g/ha)	Time (DAS)	Dry weight of weeds (g/m ²)		Weed control (%)			Phyto-toxicity (%)	Grain yield (kg/ha)
			Grassy	BLW+Sedges	Grassy	Sedges	BLW		
ATR	1000	3	34.6	50.1	85	0	98	0	2763
MTR	250	3	9.2	70.9	97	0	98	0	3063
OXL	90	3	44.3	40	85	0	98	0	2688
PMN+ATR	1000+500	3	3.5	54.1	96	0	98	0	3069
PMN+ESN	1000+15	3	27.6	42.3	97	16.7	98	0	2902
ATR+ESN	500+15	3	75.4	23.7	38.3	38.3	98	0	2198
ATR-2,4-D	500-400	25-Mar	41.1	8.5	85	51.7	98	0	3294
ATR-AZS	500-20	15-Mar	74.7	0	90	100	100	100	0
HSN+ATR	40+1000	15	77.2	0	3.3	98	98	0	1837
HSN	75	15	100.6	0	0	100	100	0	1762
Cover crop			89.7	6.2	50	51.7	50	0	2201
Hand weeding		20, 40	0	0	100	100	100	0	3499
Weedy check			196.6	43.8	0	0	0	0	1339
CD 5%			24.3	17.2	-	-	-	-	427

*ATR, atrazine; MTR, metribuzine; OXL, oxadiargyl; PMN, pendimethalin; ESN, ethoxysulfuron; AZS, azimsulfuron; HSN, halosulfuron; H.W., hand weeding

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Table: 65 Effect of weed management on the productivity of quality protein maize at Udaipur

Treatment	Weed Intensity of Grassy Weed (m ²)			Weed Intensity Broad Leaf Weed (m ²)			Weed Intensity Sedges(m ²)		
	30 DAS	60 DAS	90 DAS	30 DAS	60 DAS	90 DAS	30 DAS	60 DAS	90 DAS
T ₁	33.0	50.3	55.0	6.3	12.0	14.0	3.0	5.0	7.0
T ₂	40.0	60.0	65.0	4.0	8.0	10.0	3.0	5.0	6.7
T ₃	20.0	35.3	40.0	6.0	12.0	14.0	2.0	3.0	4.7
T ₄	20.0	40.0	45.0	6.0	8.0	11.3	3.0	4.0	6.3
T ₅	8.0	10.0	16.0	3.0	4.0	6.3	1.0	1.0	2.0
T ₆	6.0	8.0	14.0	3.0	3.3	5.3	1.0	1.0	1.3
T ₇	45.0	60.0	65.0	6.0	10.0	13.0	3.0	5.0	7.0
T ₈	50.0	65.3	70.7	4.0	8.0	11.3	2.0	4.0	6.0
T ₉	30.0	40.0	45.7	6.3	2.3	4.3	3.0	5.0	7.0
T ₁₀	32.0	8.3	13.0	7.0	1.3	1.0	3.0	5.0	5.3
T ₁₁	70.3	90.3	96.3	30.0	11.7	13.0	2.0	4.0	7.3
T ₁₂	4.7	8.0	45.0	2.3	9.0	12.3	2.0	4.0	7.0
T ₁₃	90.3	119.7	125.3	35.0	30.0	32.7	3.0	5.0	7.7
Mean	34.6	45.8	53.5	9.2	9.2	11.4	2.4	3.9	5.8
CD	6.3	8.6	26.6	1.7	2.2	2.3	1.2	1.4	1.4
CV (%)	10.8	11.1	29.5	11.0	14.2	11.7	29.6	20.9	14.4
Significance	S	S	S	S	S	S	S	S	S

Treatment	Grain Yield (Kg/ha)	No. of Plant (000/ha)	No. of Cobs (000/ha)	Plant Height (cm)	
				30 DAS	At Harvest
T ₁	4019	58.9	56.0	80.0	185.0
T ₂	3819	58.2	56.0	74.0	190.0
T ₃	4256	60.9	59.3	82.0	195.3
T ₄	3936	58.2	56.0	79.3	185.0
T ₅	4011	58.7	57.3	50.3	170.3
T ₆	4333	60.2	58.7	57.0	172.0
T ₇	3644	54.2	52.0	65.0	172.3
T ₈	3627	54.7	52.0	56.0	162.7
T ₉	3723	58.7	53.3	80.3	180.0
T ₁₀	0	0.0	0.0	78.0	0.0
T ₁₁	2027	53.6	34.7	71.0	147.3
T ₁₂	5266	62.4	60.2	85.3	225.0
T ₁₃	1939	33.3	33.3	72.0	157.0
Mean	3430.5	51.7	48.4	71.6	164.8
CD	521.3	6.3	4.6	8.7	11.9
CV (%)	9.0	7.3	5.6	7.2	4.3
Significance	S	S	S	S	S

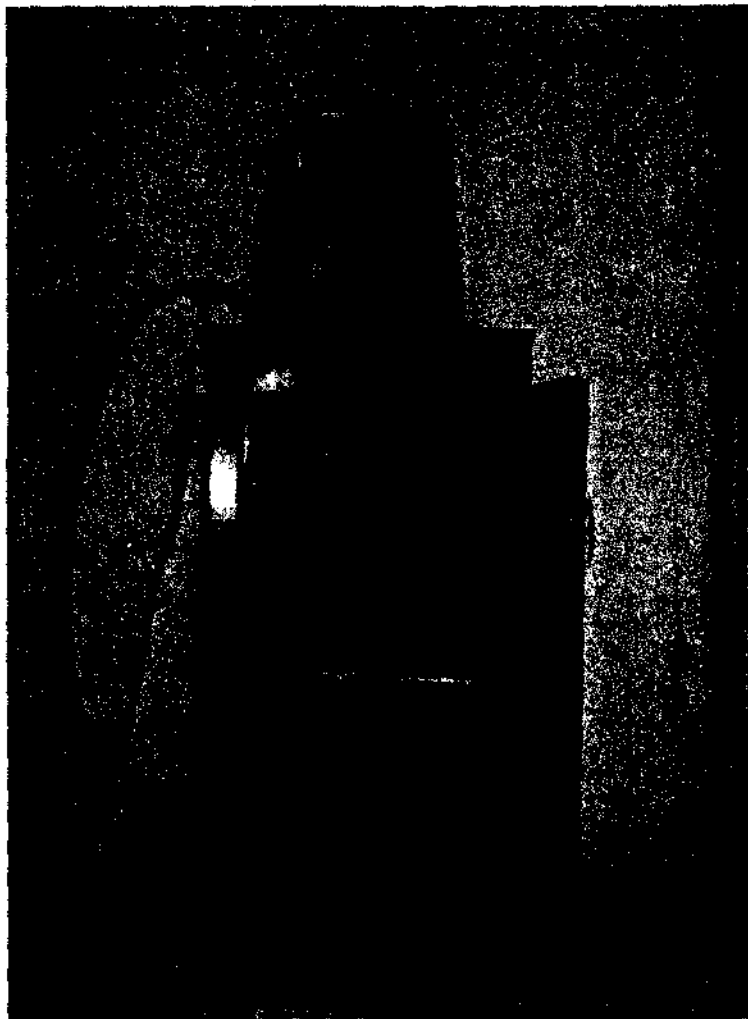
*Treatment details is on next page

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Treatment detail:

- T₁ Atrazine 1 kg/ha PE
- T₂ Metribuzin 0.25 kg/ha PE
- T₃ Alachlore 0.25 kg ai/ha+ Atrazine 0.5 kg ai/ha PE
- T₄ Pendi 0.5 kg ai/ha + Atrazine 0.5 kg ai /ha PE
- T₅ Pendi 1 kg ai/ha +Ethoxy sulfuron 0.01 kh ai/ha PE
- T₆ Atrazine 0.5 kg ai/ha + Ethoxy sulfuron 0.01 kg/ha PE
- T₇ Oxadi. 0.09 kg ai/ha using 80% WP (Top star)
- T₈ Oxadi. 0.09 kg ai/ha using 6% EC (raft)
- T₉ Atrazine 0.5 kg ai/ha PE fb 2,4D 0.4 kg ai/ha 25 DAS
- T₁₀ Atrazine 0.5 kg ai/ha PE fb Azumsulfuron 0.02 kg ai/ha 25 DAS
- T₁₁ Maize + cow pea as cover crop
- T₁₂ Weed free

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INSECT HANDLING DEVICE

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Sixty-one 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: G K -3059 (AET 1st Yr); Medium Maturity: BH-406126 (AET 1st Yr); Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr) Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr) QPM: VEH QPM-3027. Two hundred inbred lines were also evaluated in which 14 were least susceptible; 153 moderately susceptible and 33 susceptible. These lines will again be screened next season. The genotype DMRE-1 was found to be least susceptible to *Sesamia inferens*.

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. However in intercrop there is additional gain of cowpea produce and N₂ fixation for next crop. Also in Hyderabad and Karnal maize intercropped with cowpea in the ratio of 2:1 was on par with treatment with Endosulfan. Napier millet was found to be a good trap crop for the management of *C. partellus* at Ludhiana. Marigold for *Helicoverpa armigera*, cauliflower for *Spodoptera litura* and napier millet for *Chilo partellus* and *Sesamia inferens* were observed to be good trap crop.

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									
	4	3	7	1	14	9	18	3	2
Udaipur									
Least susceptible	-	-	-	-	1	-	-	-	-
Moderately susceptible	3	3	6	1	1	2	1	1	1
Highly susceptible	1	-	1	-	12	7	17	2	1
Ludhiana									
Least susceptible	-	-	-	-	1	2	4	1	-
Moderately susceptible	4	3	4	1	13	7	14	2	-
Highly susceptible	-	-	3	-	-	-	-	-	2

Hyderabad									
Least susceptible	3	1	1	-	2	1	2	1	1
Moderately susceptible	1	2	4	-	10	7	12	1	-
Highly susceptible	-	-	2	1	2	1	4	1	1
Karnal									
Least susceptible	1	1	1	-	-	-	3	-	-
Moderately susceptible	3	1	6	1	4	5	15	3	2
Highly susceptible	-	1	-	-	10	4	-	-	-
Ranchi									
Least susceptible	3	2	5	-	-	-	-	-	2
Moderately susceptible	1	1	2	1	-	-	-	-	-
Highly susceptible	-	-	-	-	-	-	-	-	-
Kolhapur									
Least susceptible	2	1	1	-	5	2	3	1	1
Moderately susceptible	2	2	4	-	9	6	15	2	1
Highly susceptible	-	-	2	1	-	1	-	-	-

The promising germplasm showing resistance against *C. partellus* are:

Full Season Maturity: G K -3059 (AET 1st Yr)
Medium Maturity: BH-406126 (AET 1st Yr)
Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr)
Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr)
QPM: VEH QPM-3027

Table 2: Screening of maize germplasm (Trial No. 75, Full Season Maturity) to *Chilo partellus* during Kharif, 2009

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Kolhapur	Mean
AET 1st YEAR								
1	B H-417135	4.2	8.2	4.8	6.2	3.6	4.1	5.2
2	B H-407138	4.4	7.4	4.0	5.8	3.7	2.9	4.7
3	X 7B 401	2.0	7.4	5.9	5.8	2.7	4.9	4.8
4	X 7B 403	1.4	3.6	5.4	3.8	4.7	5.5	4.1
5	LAXMI-9495	1.2	7.6	4.3	4.8	4.8	3.0	4.2
6	G K -3059	1.4	9.0	2.4	5.0	2.6	3.2	3.9
7	PAC-745	1.3	9.0	3.6	6.0	3.4	3.0	4.4
8	M 05 008	1.2	9.0	3.1	2.0	5.4	5.0	4.3
9	PHS - 520247	1.3	8.2	4.1	7.6	3.6	4.7	4.9
10	PFMH - 9737	2.8	9.0	3.3	4.4	2.7	3.8	4.3
11	SMH-4502	1.3	9.0	3.6	3.0	5.3	3.6	4.3
12	JKMH-8003	1.2	9.0	2.2	5.8	4.0	4.8	4.5
13	BISCO-4564	1.9	9.0	2.7	6.0	4.4	4.8	4.8
14	KMH-3669	1.5	9.0	3.8	4.4	4.5	3.9	4.5
15	KMH SUPER-				5.8			4.6
16	B L-2801	1.4	9.0	2.2		4.2	5.3	
17	B L-2801	2.2	6.2	3.5	7.4	4.4	4.0	4.6
18	HTCH-5401	1.3	9.0	4.6	6.2	4.4	4.4	5.0
18	MCH-38	1.4	9.0	4.1	4.2	3.3	4.2	4.4
AET 2nd YEAR								
19	X 6B 269	1.6	9.0	3.1	2.2	4.4	4.6	4.1
20	MDMH-101	1.2	9.0	3.1	5.4	4.7	2.6	4.3
21	MCH-36	1.3	6.0	2.3	6.8	3.3	4.7	4.1
CHECKS								
22	BIO-9681	1.4	9.0	5.2	3.8	5.5	5.1	5.0
23	SEEDTEC-2324	1.3	9.0	3.6	7.2	5.1	6.2	5.4
24	HQPM-1	1.3	9.0	4.8	3.0	4.7	4.4	4.5
25	HQPM-7	1.3	9.0	3.3	6.0	3.7	2.7	4.3

Mean leaf injury rating on 1-9 scale

Table 3: Screening of maize germplasm (Trial No. 76, Medium Maturity) to *Chilo partellus* during Kharif, 2009

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Kolhapur	Mean
AET 1st YEAR								
1	JH-31240	2.0	9.0	5.1	4.4	7.3	2.8	5.1
2	JH-31242	1.4	9.0	4.0	5.6	6.2	2.8	4.8
3	EH-1858	1.4	9.0	4.6	5.6	6.1	4.6	5.2
4	EH-1877	1.3	9.0	4.3	5.2	5.8	3.7	4.9
5	BH-406126	2.0	1.0	5.2	2.8	4.8	2.6	3.1
6	BH-408005	1.5	9.0	5.7	6.8	4.0	3.9	5.1
7	KLM-766	3.3	9.0	4.4	4.0	6.6	4.2	5.2
8	EC-3160	1.4	8.0	3.2	5.6	4.3	3.0	4.3
9	KH-717	1.7	9.0	4.5	4.3	7.1	4.0	5.1
10	KH-9452	1.9	9.0	4.4	6.0	7.3	4.5	5.5
11	HYBRID VMH-4060	1.2	9.0	3.8	3.0	7.3	3.2	4.6
12	KMH-3712	1.7	9.0	3.4	3.5	6.4	3.7	4.6
13	BL -2802	1.5	4.0	2.3	7.0	6.9	2.7	4.1
14	MCH-37	2.6	9.0	3.8	5.0	7.1	3.6	5.2
AET 2nd YEAR								
15	JH-31153	1.3	9.0	5.1	2.6	5.4	2.6	4.3
16	BH-4062(RETES.)	1.0	9.0	2.9	6.2	7.8	2.7	4.9
17	CP-828	1.6	9.0	2.9	5.4	6.3	3.7	4.8
18	KDMH-1001	1.5	5.5	3.6	5.2	5.8	3.1	4.1
19	BISCO-111	1.0	7.5	3.8	3.2	7.5	3.2	4.4
20	BISCO-555	1.3	9.0	3.6	5.3	5.1	5.7	5.0
21	BISCO-855	1.0	7.2	5.0	5.4	5.6	3.4	4.6
22	CP-838	1.1	7.6	4.8	3.4	7.7	6.2	5.1
23	KAVERI-25K60	1.8	5.8	3.9	6.0	5.5	3.9	4.5
CHECKS								
24	NAVJOT	1.4	2.2	4.0	2.6	5.6	3.3	3.2
25	HM-8	1.4	9.0	4.0	3.8	4.7	2.9	4.3
26	HM-9	4.7	9.0	4.4	5.2	5.9	3.1	5.4
27	HM-10	2.3	7.6	4.2	4.7	5.2	2.9	4.5

Mean leaf injury rating on 1-9 scale

Table 4: Screening of maize germplasm (Trial No. 77, Early Maturity) to *Chilo partellus* during Kharif, 2009

ENT NO	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Ranchi	Kolhapur	Mean
AET 1st YEAR									
1	COMP.R-2006-1	3.1	5.6	6.1	6.8	3.6	4.3	6.5	5.1
2	COMP.R-2007-1	1.0	3.9	5.9	5.5	3.5	2.3	4.6	3.8
3	UMC-10	1.0	4.8	3.5	4.6	3.5	2.2	5.1	3.5
4	UMC-11	1.1	4.8	4.5	4.5	4.8	2.1	2.9	3.5
5	UMC-12	2.2	5.2	6.2	2.8	3.2	2.0	5.0	3.8
6	KML-9	1.1	6.3	7.1	6.4	3.5	3.6	7.0	5.0
7	KML-15	1.4	3.4	5.3	3.2	3.0	2.0	5.1	3.3
CHECKS									
8	PARKASH	1.6	3.4	5.9	4.4	3.6	3.8	2.9	5.1
9	PRATAP	1.1	2.6	7.0	8.0	3.8	3.9	7.8	3.8
10	MAKKA-4 PRATAP MAKKA-5	1.0	3.0	4.4	3.2	4.3	3.7	7.7	3.5
AET 2nd YEAR									
11	JH-31110	1.2	4.0	5.6	6.6	3.6	3.4	7.3	5.1

Mean leaf injury rating on 1-9 Scale

Table 5: Screening of maize germplasm (Trial No. 78, Extra Early Maturity) to *Chilo partellus* during Kharif, 2009

Ent No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Ranchi	Kolhapur	Mean
AET 1st YEAR									
1	FH-3463	1.00	6.0	5.2	3.4	5.4	2.4	2.8	3.7
2	FH-3464	1.7	5.6	5.5	2.2	2.6	2.4	2.8	3.3
3	FH-3473	2.00	7.7	5.8	2.4	4.5	5.6	4.6	4.6
4	FQH-55	1.2	4.4	5.4	2.0	4.4	2.1	3.7	3.3
AET 2nd YEAR									
5	FH-3356 (RETESTING)	1.00	5.8	5.3	2.6	6.1	2.4	2.6	3.7
6	FH-3358 (RETESTING)	2.6	4.9	4.6	3.2	2.3	3.6	3.9	3.6
7	FQH-38	1.6	5.6	5.2	5.4	5.2	2.6	4.2	4.3

CHECKS									
8	VIVEH HYBRID-21	1.5	5.0	4.0	6.3	5.9	2.8	3.0	4.1
9	VIVEK HYBRID-17	1.7	5.4	4.7	2.0	4.8	3.8	4.0	3.8
10	VIVEK QPM-9	1.8	5.4	5.1	4.5	5.9	2.8	4.6	4.3
11	VIVEK HYBRID-9	1.1	4.3	4.8	2.6	5.3	4.2	3.2	3.6
12	PARKASH	1.0	5.7	7.1	7.0	3.0	2.1	3.7	4.2

Mean leaf injury rating on 1-9 Scale

Table 6: Screening of Quality Protein Maize germplasm (Trial QPM-2-3) to *Chilo partellus* during Kharif, 2009

Ent. No.	Pedigree	Delhi	Udaipur	Ludhiana	Hyderabad	Karnal	Ranchi	Kothapur	Mean
TRQPM-2									
1	VEH QPM-3018	0.0	9.0	9.0	2.0	3.6	2.1	4.0	4.2
TRQPM-3									
2	VEH QPM-3027	1.3	3.1	6.2	6.7	4.9	2.0	3.0	3.9
CHECK									
3	HQPM-1	3.6	3.3	5.8	6.7	3.6	2.2	2.7	4.0
4	HQPM-5	1.4	3.8	4.8	3.3	3.5	2.1	3.6	3.2
5	HQPM-7	1.4	2.8	4.8	6.8	2.8	2.0	3.7	3.5

Mean leaf injury rating on 1-9 Scale

Germplasm of different maturity periods showing resistance against *C. partellus* are:

Full Season Maturity: G K -3059 (AET 1st Yr)

Medium Maturity: BH-406126 (AET 1st Yr)

Early Maturity: COMP.R-2007-1, UMC-10, UMC-11, UMC-12, KML-15 (AET 1st Yr)

Extra Early Maturity: FH-3463, FH-3473, FQH-55 (AET 1st Yr) FH-3356, FH-3358 (AET 2nd Yr)

QPM: VEH QPM-3027

Two hundred inbred lines were screened under artificial infestation condition at six centres.

Table 7: Inbred lines screened against stem borer *Chilo partellus* during Kharif, 2009

S.No.	Entry NO	Pedigree	AVERAGE MEAN LIR					
			Delhi*	Karnal	Ludhiana	Udaipur	Kolhapur	Hydera bad
1.	2270	HSSW (HS)C1E3(SH2SH2)	1.0	5.4	7.1	6.0	1.3	2.9
2.	2271	Insec 2 (K4)	1.0	no Germination	No germination	8.8	1.1	9.0
3.	2272	Insec 2 (K4) Insec (K4)	1.0	7.6	3.3	1.0	1.2	3.5
4.	2273	Mas madu (sh2 sh2)	1.0	7.0	6.0	3.4	1.0	6.8
5.	2278	NSS2W9301A(sh2sh2)	1.8	6.0	6.3	3.0	1.6	7.5
6.	2280	Sweet corn Insec 1 (K4)	9.0	8.0	No germination	3.2	1.4	3.8
7.	2281	Win Sweet Corn	1.0	No germination	7.5	3.0	1.1	6.0
8.	2282	WSCI X MUS MADHU	1.0	7.0	8.1	7.4	1.2	5.2
9.	2286	951-7	1.0	8.0	9.0	6.4	1.4	3.4
10.	2287	Dulce Amanillo (su su) ' Dulce Blanco (su su)	1.0	2.0	1.3	3.5	1.1	2.0
11.	2288	Dulce Amanillo (su su) ' Dulce Blanco (su su)	1.0	2.0	9.0	3.3	1.2	4.3
12.	2289	WINPOP-16	1.4	2.0	7.8	3.6	1.0	6.7
13.	2290	CP Golden Sweet 3	2.0	1.0	4.2	3.5	1.5	6.2
14.	2291	CUBA 378	2.4	5.5	4.5	3.8	1.2	2.8
15.	2292	CUBA 377	1.0	2.0	4.5	3.0	1.4	7.0
16.	2293	CUBA 379	1.0	2.0	6.7	8.0	1.0	4.8
17.	2294	CUBA 380	1.0	6.0	4.7	5.0	1.4	5.5
18.	2296	NC 392	1.0	7.0	4.3	3.8	1.0	2.0
19.	2297	DMSC 1	1.4	no germination	5.3	1.0	1.5	4.3
20.	2298	DMSC3	1.0	no germination	4.9	4.8	1.1	2.0
21.	2299	DDMSC-4-1 DR 10	1.0	2.0	9.0	3.0	1.3	7.5
22.	2301	DMSC 6	3.0	1.0	3.0	6.3	1.2	6.2
23.	2303	DMSC8	2.0	5.6	2.0	4.8	1.3	7.5
24.	2304	DMSC14	1.0	3.6	2.1	3.6	1.3	5.5
25.	2306	DMSC16	2.8	3.0	2.0	5.3	1.1	7.0
26.	2307	DMSC16	1.8	5.0	4.8	3.4	1.7	2.0
27.	2308	DMSC20	1.0	8.2	5.0	2.0	1.0	6.0

28.	2309	DMSC-22-3	1.75	8.0	5.7	2.6	1.0	3.8
29.	2312	DMSC28	1.8	3.0	2.0	2.8	1.0	2.0
30.	2314	DMSC36	1.0	2.0	2.3	3.4	1.4	3.5
31.	2315	DMSC-37-3	1.0	7.0	4.1	4.0	1.1	3.2
32.	2316	Gen1858	2.7	8.0	2.2	1.0	1.4	3.3
33.	2317	Sc Male	1.0	3.0	5.0	1.5	1.3	4.8
34.	2318	HKI PC 4B	2.4	5.0	2.0	2.0	1.0	4.8
35.	2320	HKI PC-4B-1	1.0	5.5	5.5	2.6	1.2	2.0
36.	2321	HKI-PC-BT-3	1.7	3.0	3.7	3.0	1.2	4.7
37.	2323	HKI-PC-5	1.0	6.2	5.8	3.4	1.7	4.3
38.	2325	HKI-PC-5	1.0	3.2	No Germ	4.5	1.2	2.0
39.	2326	HKI-PC-7	1.0	2.0	3.3	2.3	1.0	5.6
40.	2327	HKI-PC-8	1.0	4.0	2.4	2.3	1.9	2.0
41.	2329	HKI-PC-8-2	1.0	6.0	3.9	7.0	1.2	6.2
42.	2330	HKI-PC-8-2	1.0	4.5	7.0	7.5	1.4	6.2
43.	2331	WINPOP	1.0	4.0	4.1	4.0	1.2	6.2
44.	2332	WINPOP	1.0	4.0	5.7	6.0	1.7	6.5
45.	2333	WINPOP	1.0	5.4	4.9	4.5	1.5	6.5
46.	2334	WINPOP	1.0	5.2	4.3	7.8	1.6	3.0
47.	2335	WINPOP-8	1.0	4.3	6.6	8.0	2.2	5.5
48.	2336	WINPOP-21	1.0	6.0	6.7	5.5	1.2	4.3
49.	2337	WINPOP-21	1.0	2.0	5.3	6.8	1.3	Absent
50.	2338	WINPOP-43	1.0	5.0	3.9	5.2	1.5	2.0
51.	2339	WINPOP-43	1.0	2.0	5.2	2.2	1.7	2.0
52.	2340	WINPOPIXWIPO PIII	1.0	2.0	2.5	2.6	2.1	6.0
53.	2342	HKI-2-6-2-4(1-2)-4	1.0	1.0	2.1	2.0	1.7	6.0
54.	2345	HKI 209	1.0	3.0	4.2	2.4	1.3	7.6
55.	2349	HKI 226	1.0	4.6	6.7	3.0	1.3	7.3
56.	2353	HKI-536-7	2.1	4.2	9.0	2.2	1.0	2.0
57.	2354	HKI 586-1 WG33	1.0	3.2	5.0	8.0	1.7	6.2
58.	2357	HKI 1040-5	2.0	3.5	9.0	3.0	2.2	6.7
59.	2359	HKI 1040-11	1.0	5.0	9.0	5.8	1.1	4.0
60.	2360	HKI-1040-11-7	1.0	4.5	7.7	7.5	1.0	5.0
61.	2362	HKI1040C2	1.0	8.0	4.7	2.6	1.0	4.3
62.	2363	HKI 1094-WG	1.0	1.0	5.2	3.0	1.4	4.3
63.	2368	CML 451(P2)	1.0	1.0	7.0	7.7	2.3	4.3
64.	2369	DTPYC9-F46-3-1	1.0	6.0	5.0	7.0	1.3	5.7
65.	2370	DTPWC9-F115-1-4	1.0	6.0	5.3	4.2	2.2	7.7
66.	2371	ESM-11-3	1.0	2.5	4.0	4.6	1.8	6.7
67.	2372	PFSR/51016-1	1.6	7.0	6.0	4.0	1.8	2.0
68.	2374	WS KHOTHAI-1- WAXY-1-1	1.0	6.0	3.3	2.2	1.2	2.0
69.	2376	Gen 6033	1.0	5.0	9.0	4.0	1.7	4.3
70.	2378	Hyd05R/2-1	1.0	2.0	2.8	2.0	1.0	4.4
71.	2379	Hyd05R/13-2	8.0	4.0	5.0	6.2	1.2	5.3
72.	2384	Hyd05R/204-1	1.0	6.0	5.2	4.0	1.5	5.2
73.	2391	LM 5	1.6	6.0	6.9	6.0	2.2	7.8
74.	2392	LM 6	3.9	8.0	3.5	5.0	2.5	5.8
75.	2398	LM 11	1.0	7.9	6.5	8.5	1.7	4.0
76.	2399	LM12	1.0	6.0	9.0	5.3	1.4	6.5
77.	2404	LM15	2.3	6.0	7.3	3.7	1.0	4.3
78.	2405	LM15	1.5	no germina	6.0	3.5	1.2	4.3

79.	2406	LM16	1.0	8.0	4.7	2.6	2.9	3.8
80.	2409	LTP-1-1	1.0	no germination	8.0	3.6	1.7	2.0
81.	2411	V 335	1.0	no germination	7.4	3.0	1.4	7.2
82.	2412	V 341	1.1	8.4	9.0	2.0	1.5	9.0
83.	2413	V 341	1.8	5.0	9.0	7.2	2.4	7.0
84.	2415	V 351	1.0	5.0	0.0	3.0	2.1	2.6
85.	2416	V 351	1.0	5.4	6.0	6.2	1.1	5.3
86.	2417	V 351	1.0	3.0	5.2	4.0	1.5	2.3
87.	2421	NC 296-2	1.8	6.0	7.2	4.0	3.1	2.5
88.	2429	NC 406-1	2.1	8.2	9.0	4.5	2.1	2.0
89.	2430	NC 416	1.0	8.1	9.0	2.5	1.4	2.0
90.	2435	CM104	1.0	no germination	6.5	2.0	1.6	2.0
91.	2436	CM105	1.5	8.6	6.6	3.4	1.3	7.7
92.	2437	CM114	1.0	5.5	7.7	4.7	1.0	4.3
93.	2440	CM121	2.1	2.0	8.4	5.5	1.0	3.3
94.	2441	CM123	1.0	no germination	6.8	2.5	1.4	2.0
95.	2442	CM124	1.0	9.0	No Germ	2.0	2.5	7.7
96.	2445	CM128	3.4	7.5	8.0	2.0	1.1	4.3
97.	2447	CM129	1.1	8.0	No Germ	1.7	1.4	4.3
98.	2449	CM132	1.0	7.0	7.0	2.0	1.3	6.7
99.	2450	CM133	2.3	4.0	4.3	1.7	1.5	2.0
100.	2456	CM139	1.0	4.0	3.3	2.0	1.0	2.0
101.	2459	CM144	1.0	9.0	5.3	4.0	1.0	4.3
102.	2461	CM146	1.6	5.4	5.8	6.6	1.2	2.0
103.	2462	CM149	2.4	3.0	9.0	5.7	1.4	8.3
104.	2467	CM500	1.8	7.0	6.2	4.0	2.0	2.0
105.	2468	CM501	1.0	1.0	5.9	1.6	1.4	4.3
106.	2469	CM502	1.0	1.0	7.6	6.0	1.5	2.0
107.	2471	HKI C 78	2.1	4.5	6.7	5.5	1.2	2.0
108.	2473	HKI 141	2.6	2.0	6.6	5.0	1.0	3.3
109.	2474	HKI 141	1.1	3.0	3.0	5.0	1.8	4.3
110.	2478	HKI C 323	1.0	1.0	6.3	6.0	1.4	2.0
111.	2483	HKI 1352-5-8-9	1.2	7.0	7.5	6.4	1.7	6.7
112.	2484	Pool 16 BNSEQ.C3F6x38-1	1.7	6.0	5.5	4.4	1.3	2.0
113.	2485	ae-40	1.0	9.0	4.4	7.0	1.2	2.0
114.	2486	CML 141	1.0	1.0	4.5	5.0	1.3	5.5
115.	2490	CML 154	1.1	6.6	3.6	7.6	1.0	2.0
116.	2492	CML 269	1.0	7.0	3.3	2.2	1.3	5.5
117.	2493	CML 384	1.0	6.2	4.7	6.0	1.2	2.0
118.	2495	CML 395	1.0	5.0	6.2	8.0	1.3	5.5
119.	2498	MIRT&PT-3	1.0	9.0	4.0	6.0	1.0	2.0
120.	2511	HKI 17-2	1.0	5.5	5.0	7.7	1.5	2.0
121.	2513	HKI 26-2-4-(1-2)	0.0	4.4	7.0	3.0	1.4	2.0
122.	2516	HKI 31-2	1.0	1.0	4.6	5.2	1.8	2.0

123.	2518	HKI 31-2	1.0	2.0	3.3	7.8	1.5	2.0
124.	2521	HKI34(1+2)-1	1.8	4.5	5.0	6.0	1.0	5.5
125.	2524	HKI-162-2	1.0	5.4	6.8	4.5	2.0	5.3
126.	2526	HKI 164-4-(1-3)-2	1.0	6.0	5.4	3.3	1.2	6.7
127.	2527	HKI 162-3 (2-1)-1	0.0	8.0	9.0	8.0	1.4	2.0
128.	2528	HKI 164-3 (2-1)-1	1.0	7.3	9.0	4.3	1.3	6.7
129.	2529	HKI-164-4-(1-3)-2-2	1.0	6.3	9.0	6.3	1.4	2.0
130.	2532	HKI 164-4-(1-3)-2	1.0	7.5	8.5	4.5	1.6	5.5
131.	2534	HKI 164-3 (2-1)-1	8.0	8.0	9.0	3.6	1.2	5.5
132.	2538	HKI 164-D-3-3-2	1.0	6.3	7.0	6.0	1.3	3.8
133.	2539	HKI 164-7-7 ER2	1.0	6.0	6.2	5.8	1.6	2.0
134.	2540	HKI 164-7-6x161	1.0	5.5	2.7	8.0	1.0	5.5
135.	2541	HKI 164-7-4 ER-3	2.0	5.0	2.8	9.0	1.9	2.0
136.	2542	HKI 164-7-4	1.0	5.0	7.8	6.2	1.4	6.7
137.	2543	HKI-164-7-4-2	1.0	2.0	6.8	6.7	1.5	2.0
138.	2545	HKI 164-7-2	1.0	2.0	6.0	6.7	1.2	5.5
139.	2546	HKI 164-1-4	1.0	6.0	5.8	3.0	1.1	2.0
140.	2548	HKI 164-4-(1-3)	1.0	4.0	4.0	6.3	1.5	2.0
141.	2550	HKI-164-7-6X161-2	1.0	4.2	5.0	7.0	1.2	9.0
142.	2551	HKI 191-1-2-5	1.2	1.0	2.0	7.8	1.0	6.7
143.	2553	HKI 193-2-2	1.0	4.5	8.4	6.6	2.2	9.0
144.	2554	HKI 193-2-2	1.0	7.2	8.0	4.0	1.1	2.0
145.	2555	HKI-193-2-2-4	1.0	5.0	8.0	7.0	1.0	6.7
146.	2556	HKI 193-1	1.7	4.5	9.0	8.0	1.5	8.8
147.	2558	HKI 5072-2-BT	1.0	4.5	8.0	8.3	1.2	8.3
148.	2560	CML 165	1.5	5.0	6.8	6.2	1.6	6.3
149.	2561	CML 165	1.0	6.3	7.8	Escaped	1.9	2.0
150.	2562	CML 167	1.0	1.0	No Germ	3.6	1.0	2.0
151.	2564	CML 171	1.1	6.3	5.6	4.0	1.3	6.7
152.	2566	CML 172	1.0	3.0	6.2	6.8	1.4	3.7
153.	2567	HKI MBR-139	1.0	2.0	7.5	5.8	1.4	6.7
154.	2568	HKI-MBR-139-2	1.0	6.6	7.8	6.0	1.5	7.3
155.	2570	DMR QPM-03-104	1.0	6.2	5.0	6.0	1.5	6.7
156.	2571	DMRQPM 03-113	1.0	no germination	9.0	4.0	1.8	2.0
157.	2572	DMR QPM-03-124	1.0	3.6	4.7	7.5	1.5	2.0
158.	2575	DMR QPM-58-26	1.1	6.6	4.4	2.0	1.7	2.0
159.	2579	CML 158	1.0	4.5	7.4	3.6	1.2	5.5
160.	2580	CML175	1.0	2.0	4.0	6.2	1.4	2.7
161.	2583	CL-QRCYQ47	1.0	2.0	4.5	8.0	1.5	2.0
162.	2584	CLQRCYQ-47-B	1.0	7.0	1.9	7.2	1.0	5.5
163.	2586	CLQ-RCYQ30	0.0	3.0	6.2	8.6	1.0	5.5
164.	2587	CLQ-RCYQ36	1.0	2.0	4.0	8.3	1.3	6.7
165.	2589	CLQ-RCYQ41	1.0	5.5	3.0	7.0	1.7	6.7
166.	2590	CLQ-RCYQ40	1.0	4.2	4.0	5.5	1.2	6.7
167.	2592	CML 451Q	1.0	4.0	5.9	8.0	1.5	9.0
168.	2595	DMRQPM 58	1.0	2.0	4.6	6.0	1.4	5.3
169.	2596	DMRQPM 58	1.5	6.8	3.0	4.7	1.6	Absent
170.	2597	HIGH OIL POPULATION II	1.0	1.0	No Germ	5.0	1.6	Absent
171.	2598	HIGH OIL	1.0	2.0	No Germ	1.0	1.5	Absent

		POPULATION II						
172.	2599	HIGH OIL POPULATION II	1.0	3.2	3.0	8.2	2.0	4.0
173.	2600	HIGH OIL POPULATION II	1.0	1.0	5.3	9.0	1.1	4.5
174.	2601	HIGH OIL POPULATION II	0.0	9.0	3.0	9.0	1.3	9.0
175.	2603	HKI 3322	1.0	6.0	2.5	5.7	1.8	7.8
176.	2605	HKI Tall 1-2-F	1.0	5.8	4.7	7.0	1.6	5.5
177.	2606	HKI Tall-8-1-1	2.0	1.0	4.0	3.6	1.8	6.7
178.	2607	SHD-1 ER6	0.0	1.0	5.3	6.0	1.1	5.5
179.	2609	DMHOC 4	1.0	1.0	4.8	2.2	1.0	7.3
180.	2610	Temp.HOC15	1.0	7.0	3.8	5.0	1.0	7.3
181.	2612	02POOL 33 C24	1.0	5.0	5.0	4.0	1.9	6.7
182.	2613	POBLAC 61 C3	1.7	9.0	3.0	2.0	2.0	7.3
183.	2615	Temp. Trop High oil QPM	1.1	7.0	8.5	4.6	1.6	5.5
184.	2618	PFSR-R2	2.7	7.0	4.7	5.0	1.1	3.8
185.	2619	PFSR-R3	4.2	7.4	5.2	3.0	1.6	6.7
186.	2620	PFSR-R9	3.1	3.0	4.4	2.0	1.4	5.5
187.	2621	PFSR-R10	1.4	2.0	5.9	7.6	2.0	7.5
188.	2622	PFSR-R10	2.9	4.0	5.0	9.0	2.1	9.0
189.	2623	PFSR-S2	1.8	2.0	7.7	6.0	2.8	9.0
190.	2624	PFSR-S3	1.7	5.6	4.8	Escaped	2.3	6.7
191.	2625	PFSR-S3	1.0	6.0	3.3	4.0	1.8	2.0
192.	2626	CM-117-3-2-1-1-1- 1-3	1.6	4.0	7.7	5.0	1.6	6.3
193.	2627	SW-930-313-23-PO-46-54-13- 1-1-1-2-1-2-1-2-3-1-1-2	1.0	2.0	4.2	7.7	1.5	2.0
194.	2630	JCY2-1-2-1-1B-1- 2-3-1-1-1	1.0	5.0	4.8	8.0	2.7	2.0
195.	2631	JCY2-7-1-2-1-B-1- 2-1-1	1.0	3.3	5.6	5.6	1.2	2.0
196.	2632	JCY3-7-1-2-1-B-1- 1-4-1	1.0	4.0	3.9	4.0	1.6	2.0
197.	197 (DMR E- 2)	DMR E-2	1.5	4.0	3.8	8.0	1.0	2.0
198.	198 (WINSYNTH ETIC)	WINSYNTHETIC	1.9	3.8	5.6	2.0	2.1	5.5
199.	199 (CM 500)	CM 500	1.0	6.3	3.4	3.3	1.0	6.7
200.	200 (CML 287)	CML 287	1.0	1.0	9.0	9.0	1.5	7.3

*Experiment was conducted under natural infestation of *Chilo partellus* at New Delhi.

Based on the mean leaf injury level the inbred lines have been categorized as follow.

Least Susceptible: 14

Moderately Susceptible: 153

Susceptible: 33

Table 8: Least susceptible inbred lines

S.No.	Pedigree	Mean LIR	S.No.	Pedigree	Mean LIR
1.	Dulce Amanillo (su su) ' Dulce Blanco (su su)	2.2	8.	V351	2.7
2.	DMSC28	2.5	9.	CM133	3.0
3.	DMSC36	2.8	10.	CM139	2.8
4.	HKI-PC-7	2.7	11.	CML 167	2.2
5.	WINPOP-43	2.9	12.	DMRQPM 03-113	3.0
6.	HKI-2-6-2-4(1-2)-4	2.8	13.	HIGH OIL POPULATION II	3.0
7.	Hyd05R/2-1	2.8	14.	HIGH OIL POPULATION II	1.5

Table 9: Moderately susceptible inbred lines

S.No.	Pedigree	Mean LIR	S.No.	Pedigree	Mean LIR
1	HSSW (HS)C1F3(SH2SH2)	5.3	78.	CM146	5.0
2	Insec 2 (K4) ' Insec (K4)	3.9	79.	CM500	4.8
3	Mas madu (sh2 sh2)	5.8	80.	CM501	3.2
4	NSS2W9301A(sh2sh2)	5.7	81.	CM502	4.2
5	Sweet corn Insec 1 (K4)	5.0	82.	HKI C 78	3.8
6	Win Sweet Corn	5.5	83.	HKI 141	3.8
7	Dulce Amanillo (su su) ' Dulce Blanco (su su)	4.7	84.	HKI C 323	4.5
8	WINPOP-16	5.0	85.	HKI 1352-5-8-9	5.6
9	CP Golden Sweet 3	3.7	86.	Pool 16 BNSEQ.C3F6x38-1	4.0
10	CUBA 378	4.2	87.	ae-40	5.0
11	CUBA 377	4.1	88.	CML 141	4.5
12	CUBA 379	5.4	89.	CML 154	5.6
12	CUBA 380	5.3	90.	CML 269	4.0
13	NC 392	4.3	91.	CML 384	5.0
14	DMSC 1	3.5	92.	CML 395	4.5
15	DMSC3	3.9	93.	MIRT&PT-3	4.7
16	DDMSC-4-1 DR 10	5.4	94.	HKI 26-2-4-(1-2)	5.3
17	DMSC 6	4.1	95.	HKI 31-2	5.0
18	DMSC8	5.0	96.	HKI 31-2	4.1
19	DMSC14	3.7	97.	HKI34(1+2)-1	3.2
20	DMSC16	4.3	98.	HKI-162-2	3.8
21	DMSC16	3.8	99.	HKI 164-4-(1-3)-2	5.3
23	DMSC20	5.3	100.	HKI 162-3 (2-1)-1	5.5
24	DMSC-22-3	5.0	101.	HKI 164-3 (2-1)-1	5.4
25	DMSC-37-3	4.6	102.	HKI 164-3 (2-1)-1	5.9
26	Gen1858	3.6	103.	HKI 164-7-6x161	5.8
27	Sc Male	3.6	104.	HKI 164-7-4 ER-3	5.0
28	HKI PC 4B	3.5	105.	HKI 164-7-4	5.4
29	HKI PC-4B-1	3.9	106.	HKI-164-7-4-2	4.7
30	HKI-PC-BT-3	3.6	107.	HKI 164-1-4	4.4
31	HKI-PC-5	4.9	108.	HKI 164-4-(1-3)	5.0
32	HKI-PC-5	3.2	109.	HKI-164-7-6X161-2	4.2
33	HKI-PC-7	3.3	110.	HKI 191-1-2-5	4.0
34	HKI-PC-8-2	5.8	111.	HKI 193-2-2	5.3
35	WINPOP	4.6	112.	CML 165	6.0
36	WINPOP	5.6	113.	CML 165	5.4

37	WINPOP	5.3	114	CML 171	5.7
38	WINPOP	5.0	115	CML 172	4.9
39	WINPOP-21	4.7	116	HKI MBR-139	5.5
40	WINPOP-43	4.0	117	DMR QPM-03-104	6.0
41	WINPOPIIXWIPOPIII	3.3	118	DMR QPM-03-124	4.4
42	HKI 209	4.3	119	DMR QPM-58-26	3.8
43	HKI 226	5.4	120	CML 158	5.3
44	HKI-536-7	4.4	121	CML175	3.7
45	HKI 586-1 WG'33	5.6	122	CL-QRCYQ47	4.1
46	HKI 1040-5	5.6	123	CLQRCYQ-47-B	5.4
47	HKI1040C2	4.9	124	CLQ-RCYQ30	5.8
48	HKI 1094-WG	3.4	125	CLQ-RCYQ36	5.3
49	CML 451(P2)	5.0	126	CLQ-RCYQ41	5.6
50	DTPYC9-F46-3-1	5.9	127	CLQ-RCYQ40	5.1
51	DTPWC9-F115-1-4	5.8	128	DMRQPM 58	4.5
52	ESM-11-3	4.5	129	DMRQPM 58	4.8
53	PFSR/51016-1	4.8	130	HIGH OIL POPULATION II	4.6
54	WS KHOTHAI-1-WAXY-1-1	3.4	131	HIGH OIL POPULATION II	5.0
55	Gen 6033	5.6	132	HKI 3322	5.5
56	Hyd05R/13-2	5.1	133	HKI Tall 1-2-F	5.8
57	Hyd05R/204-1	5.1	134	HKI Tall-8-1-1	3.8
58	LM 6	5.6	135	SHD-1 ER6	4.5
59	LM15	5.3	136	DMHOC 4	3.8
60	LM15	4.3	137	Temp.HOC15	5.8
61	LM16	4.8	138	02POOL 33 C24	5.2
62	LTP-1-1	4.5	139	POBLAC 61 C3	5.3
63	V 335	5.9	140	PFSR-R2	5.1
64	V 351	5.7	141	PFSR-R3	5.6
65	V 351	3.6	142	PFSR-R9	3.7
66	NC 296-2	4.9	143	PFSR-R10	5.8
67	NC 406-1	5.9	144	PFSR-S3	5.7
68	NC 416	5.4	145	PFSR-S3	3.8
69	CM104	3.5	146	CM-117-3-2-1-1-1-3	5.8
70	CM114	5.6	147	SW-930-313-23-PO-49-54-1-3-1-1-1- 2-1-2-1-2-3-1-1-2	4.0
71	CM121	4.8	148	JCY2-1-2-1-1B-1-2-3-1-1-1	5.0
73	CM123	3.8	149	JCY2-7-1-2-1-B-1-2-1-1	4.1
74	CM128	5.5	150	JCY3-7-1-2-1-B-1-1-4-1	3.5
75	CM129	4.7	151	DMR E-2	4.5
76	CM132	5.7	152	WINSYNTHETIC	4.2
77	CM144	5.7	153	CM 500	4.9

HABITAT MANIPULATION

By Trap Crops

Habitat manipulation has been found to be one of the very potential pest management tactics in maize ecosystem. Different crops have been used as trap crop for arresting the spread of different pests. Some of the successful examples of trap crops used at Hyderabad are given below.

Table 10: Maize ecosystem manipulation using Napier millet and finger millet as trap crops at Hyderabad

S.No	Treatment	<i>Sesamia inferens</i> in maize		<i>Sesamia inferens</i> in trap	
		Plants with leaf injury (%)	Dead hearts(%)	Plants with leaf injury (%)	Dead hearts(%)
1	Maize+Napier millet	3.95	0.42	4.5	13.0
2	Maize+Ragi	3.33	0.44	0.75	20.5
3	Sole Maize with endosulfan spray at 12 DAG	2.07	0.86	-----	-----
4	Control	7.75	1.43	-----	-----

Table 11: Maize ecosystem manipulation using marigold as trap crops at Hyderabad

S.No	Treatment	% Plants infested with <i>Helicoverpa armigera</i> in maize	% Plants infested with Hairy caterpillar in maize	% Plants infested with <i>Helicoverpa armigera</i> in trap
1	Maize+Marigold	1.31	1.68	1.67
2	Control	0.41	2.44	-----

Table 12: Maize ecosystem manipulation using cauliflower as trap crops at Hyderabad

S.No	Treatment	% Plants infested with <i>Spodoptera litura</i> in maize	% Plants infested with <i>Spodoptera litura</i> in cauliflower
1	Maize+Cauliflower	0.44	2.86
2	Control	1.22	-----

By intercrops

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. However in intercrop there is additional gain of cowpea produce and N₂ fixation for next crop. Also in Hyderabad and Karnal maize intercropped with cowpea in the ratio of 2:1 was on par with treatment with Endosulfan.

Table 13: Maize intercropped with cowpea at Kolhapur

Treatments	Plan infestation (%)	LIR (%)	Grain Yield (Kg/ha)
Maize + Cowpea	1.47 ^a	1.24 ^a	7784 ^a (53)
Standard check	1.86 ^a	1.34 ^a	7610 ^a
Control	3.47 ^b	2.16 ^b	5779 ^b
SE±	0.53	0.98	321.4
CD at 5%	1.23	0.23	741.2
CV	37.21	9.81	7.2

N B: Figure in parentheses indicates cowpea yield

Table 14: Maize intercropped with cowpea at Karnal

Treatment	Mean % dead hearts	Yield/plant (g)
Maize +cowpea	10.7 ^a	201.3 ^a
Sole maize (Endosulfan)	11.25 ^a	163.2 ^b
Sole maize (Control)	26.5 ^b	116.9 ^c
SE	1.88	10.05
CD (0.05)	4.61	24.59
CV	16.5	8.86

Table 15: Maize intercropped with cowpea at Hyderabad

S.No.	Treatment	Dead hearts/ Plot
1	2 rows maize + 1 row cowpea	0.0
2	3 rows maize + 1 row cowpea	1.33
3	Sole maize	0.67
4	Sole maize + 0.1 % Endosulfan	0.00

In Ludhiana one of the treatments was Napier millet as trap crop on border, in another treatment maize was intercrop with cowpea. This was compared with chemically protected maize and control. In treatment with Napier millet, number of egg masses and number of eggs per plant ; percent plant infestation and dead hearts were significantly less than in all other treatments and yield was significantly higher. The yields of other treatment were at par.

Table 16: Maize intercropped with cowpea and bordered by napier millet at Ludhiana

Treatment	11 DAE		45 DAE		Grain yield (q/ ha)
	Egg masses /plant	Egg / per plant	% plant infestation	% dead hearts	
NM border maize	0.0099 ^a (1.00)	0.0420 ^a (1.020)	4.20 ^a (11.52)	2.67 ^a (9.90)	75.30 ^a
Maize + cowpea	0.0090 ^b (1.004)	0.176 ^b (1.084)	10.22 ^b (18.40)	5.81 ^a (13.29)	63.68 ^b
Chemically protected maize	0.0160 ^c (1.008)	0.392 ^c (1.179)	16.23 ^c (23.65)	9.17 ^b (17.60)	66.15 ^b
Control	0.010 ^c (1.005)	0.271 ^c (1.123)	23.99 ^d (29.301)	14.22 ^b (21.71)	61.42 ^b
CD	0.0022	0.061	4.91	5.78	4.91

Feeding preference of *C. partellus* and its survival

Survival and weight gained was less on napier- millet fed larvae as compared to maize plant fed larvae of *C. partellus*.

Table 17 Survival rate and weight gain of *Chilo partellus* on different host plants

Host plant	Survival (%)			Weight (mg)		
	4 DAI	7 DAI	10 DAI	4 DAI	7 DAI	10 DAI
2 day-old larvae						
Maize	82.50 (66.93)	33.50 (35.24)	26.50 (30.77)	0.70	4.07	12.85
Napier Millet	71.50 (61.32)	24.50 (29.62)	19.00 (25.64)	0.34	0.89	3.25
CD (p=0.05)	(NS)	(3.25)	(4.14)	0.10	0.53	1.87
9 day-old larvae						
Maize	88.00 (73.00)	80.00 (65.18)	64.00 (53.59)	14.82	18.72	33.79
Napier Millet	88.00 (75.72)	53.00 (46.50)	33.00 (31.78)	13.12	14.12	21.01
CD (p=0.05)	(NS)	(12.86)	(13.90)	NS	3.46	3.88

Figures in parentheses are in arcsine transformed values

ALL INDIA COORDINATED MAIZE IMPROVEMENT PROJECT

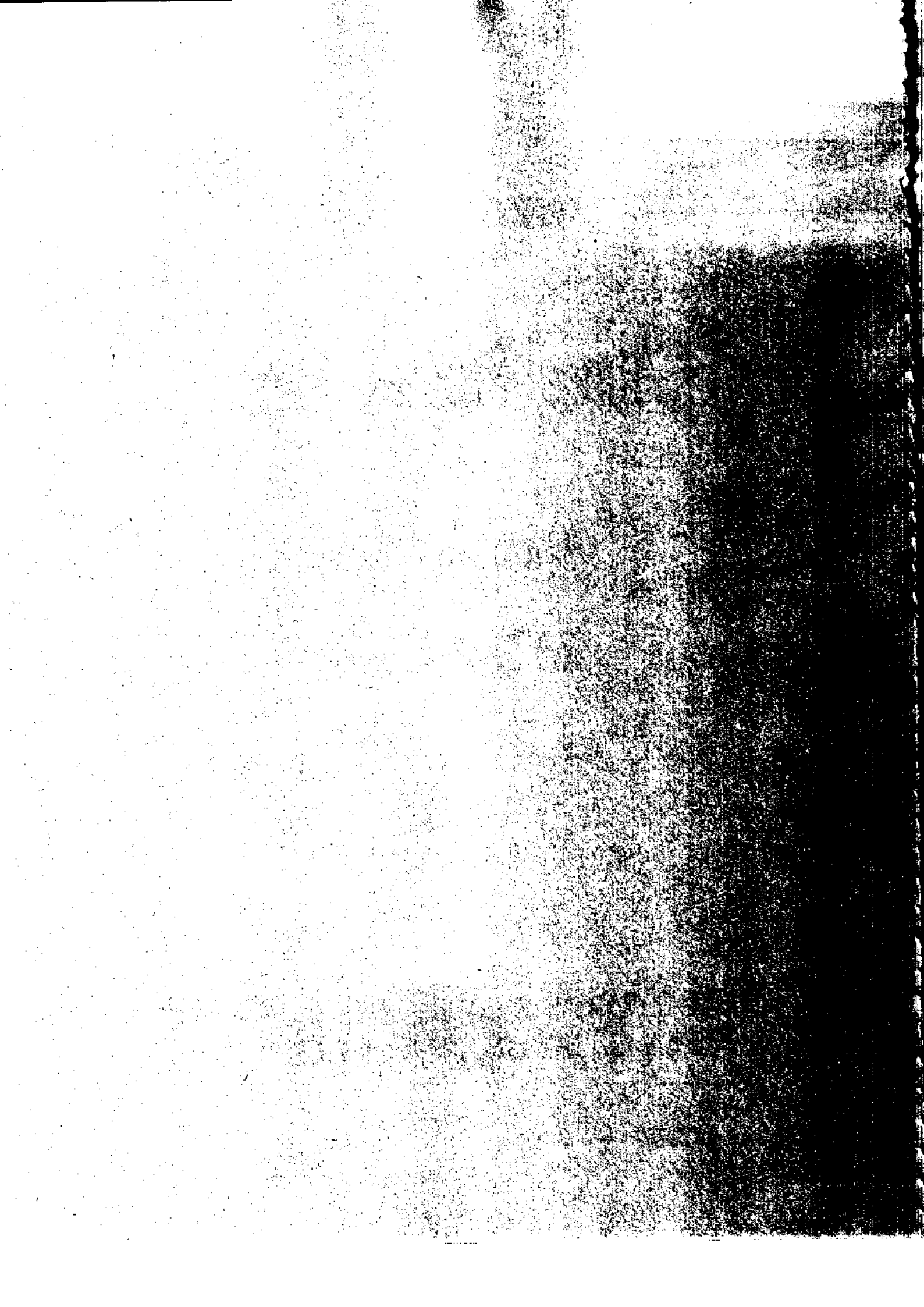
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Appendix Table

PATHOLOGY

2009

**DIRECTORATE OF MAIZE RESEARCH
PUSA CAMPUS, NEW DELHI-110012**



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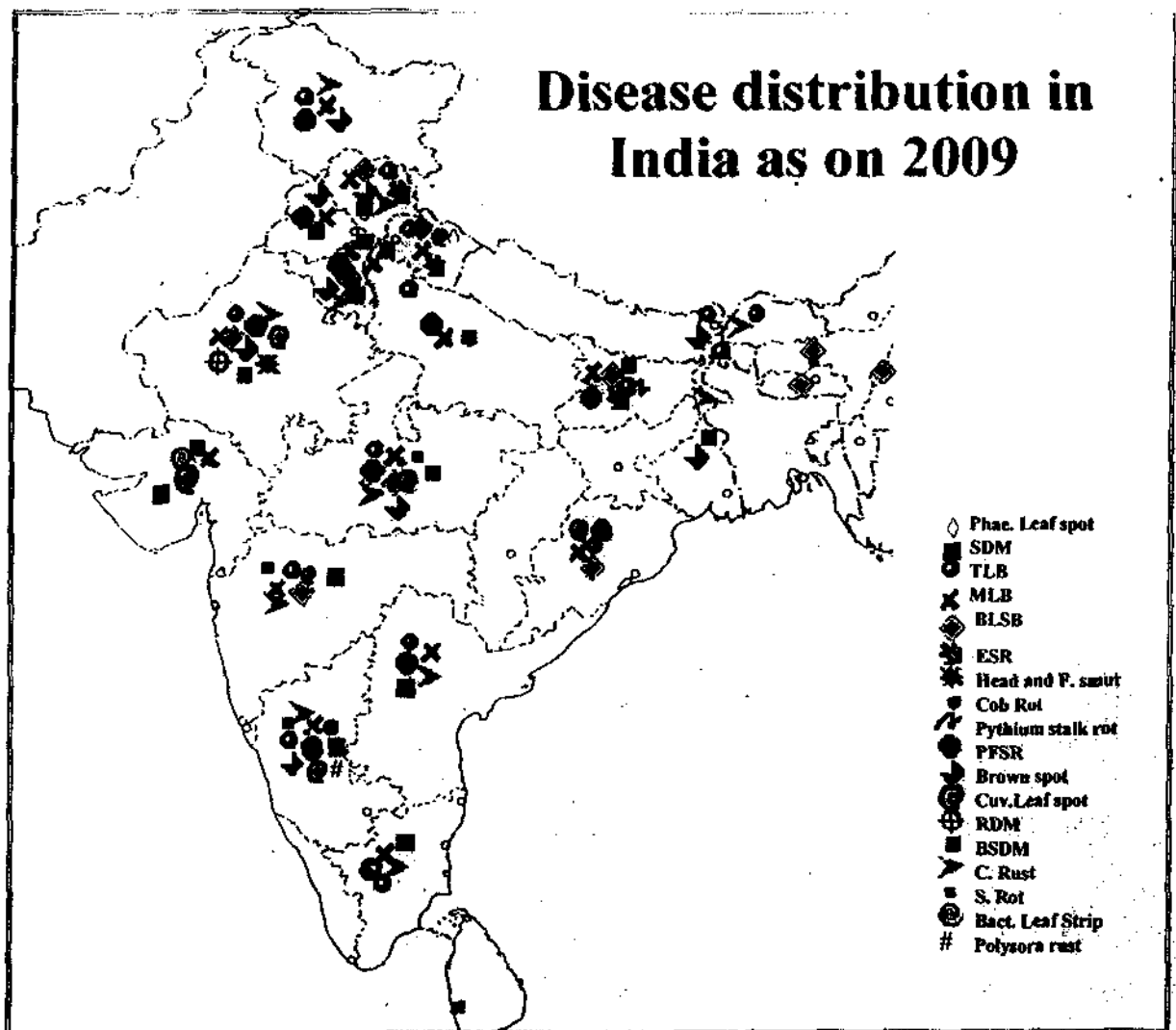
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Achievement for the year 2009 Pathology

Survey and Surveillance

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Karnataka, Tamil Nadu, and Himachal Pradesh. The most common diseases of the 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 rots, Brown spot rot in H. P. Polysora rust is emerging as a potential threat in Karnataka. A new disease identified as zonate leaf spot caused by *Gloeocerospora sorghi* was reported from Experimental Farm of VPKAS, Almora (Uttarakhand) in 2008. Based on the survey surveillance, the disease map was updated.



Coordinated Trials

A total of 202 maize genotypes and 17 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 rot (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 agroclimatic zones of the country. The most promising genotypes with combined resistance to various diseases are:

Resistant Maize genotypes in IET full season maturity (Trial 61) –

A total of thirty six genotypes were resistant out of fifty two genotypes.

Some of the important entries with multiple disease resistance are:

CMH 08 - 282	MLB, TLB, RDM, PFSR
H K H - 406	MLB, TLB, BSDM, P.RUST, C.RUST
J H - 12108	TLB, RDM, P.RUST, C.RUST
H K I 1126 X HKI 163-1	TLB, BSDM, P.RUST, C.RUST
M C H - 40	MLB, BSDM, ESR, PFSR, C.RUST
LAXMI GOLD	TLB, P.RUST, C.RUST
N M H - 920	TLB, BSDM, ESR, P RUST, C.RUST
N K - 6246	TLB, RDM, P.RUST, C.RUST
PRO - 378	MLB, TLB, BSDM, P. RUST, C. RUST

Moderately Resistant to BLSB

CMH 08 - 282	BLSB
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Resistant Maize genotypes in IET medium maturity (Trial 62) –

A total of sixteen genotypes showed resistant reaction out of forty two genotypes, out of them some important are

1. X 8 B 557	MLB, ESR, P.RUST, C.RUST
2. X 8 B 6 9 1	MLB, BSDM, ESR, P.RUST, C.RUST
3. MCH - 41	MLB, BLSB, RDM, BSDM, ESR, C.RUST
4. HKH - 308	BSDM, ESR, C.RUST
5. SARPUNCH-171	BSDM, P.RUST, C.RUST
6. KDMH 017	BSDM, ESR, P.RUST, C.RUST

Resistant Maize genotypes in IET early maturity (Trial 63) –

Following maize genotypes showed resistant reaction out of seventeen genotypes

EHL 162508	MLB, BLSB, BSDM, C.RUST
FH 3506	MLB, RDM, BSDM, ESR
BIO - 605	MLB, RDM, BSDM, C.RUST
REH - 2003	BSDM, ESR, C.RUST
A H 97017	BSDM, C. RUST

Resistant Maize genotypes in IET extra early maturity (Trial 64) -

Promising genotypes showed resistant reaction to various diseases are

F H 3478	MLB, BSDM, C.RUST
F H 3483	RDM, BSDM, P.RUST, C.RUST
A H - 97020	PFSR, C.RUST

Resistant Maize genotypes in AET full season maturity (Trial 75) -

Promising genotypes with combined resistance to various diseases are

1. B H - 417135	MLB, TLB, ESR, P.RUST, C.RUST
2. LAXMI - 9495	TLB, BSDM, P.RUST, C.RUST
3. G K - 3059	MLB, BLSB, ESR, P.RUST
4. KMH - 3669	MLB, BLSB, BSDM
5. HTCH - 5401	MLB, BLSB, RDM, PFSR
6. MCH - 38	MLB, BLSB
7. MDMH - 101	BLSB, C.RUST
8. KMH SUPER 244	BSDM, PFSR, ESR, C.RUST

Resistant Maize genotypes in AET medium maturity (TRIAL 76) -

Promising genotypes with combined resistance to various diseases are

1. B H 408005	MLB, BLSB, BSDM, ESR
2. JH 31153	MLB, PFSR, P.RUST, C.RUST
3. C. P - 828	MLB, BLSB, RDM, PFSR, ESR, C.RUST
4. BISCO 855	MLB, BSDM, PFSR
5. C. P - 838	MLB, BSDM, PFSR
6. BH - 406126	BSDM, C.RUST
7. EC - 3160	BSDM, PFSR
8. B L - 2802	RDM, BSDM, PFSR

Resistant Maize genotypes in AET early maturity (Trial 77) -

Promising genotypes with combined resistance to various diseases are

COMP.R - 2006 - 1	MLB, BSDM, PFSR
COMP.R - 2007 - 1	MLB, BSDM, ESR, P.RUST, C.RUST
JH - 31110	MLB, BSDM, PFSR, ESR, C.RUST
UMC - 12	BSDM, PFSR
KML - 9	BSDM, P.RUST, C.RUST

Resistant Maize genotypes in AET extra early maturity (Trial 78) -

Promising genotypes with combined resistance to various diseases are

F H - 3463	MLB, BSDM
F H - 3464	MLB, BSDM, P.RUST, C.RUST
F H - 3358(RETESTING)	MLB, RDM, BSDM, PFSR

Resistant QPM genotypes to various diseases

QPM - 1

HQPM-20	TLB, BSDM, ESR
BAUSYN-8-9-502	TLB, BSDM
VEHQ-3019	MLB, TLB, BSDM, ESR
VQPMH-282	MLB, TLB, BSDM
JHQPM-304	TLB, BSDM

Nematology

Two hundred and twelve (212) maize entries belong to different maturity groups were screened against cyst nematode, *Heterodera zae* maize entries viz. LAXMI GOLD, NMH - 731, HKH - 309, HKH - 312, JH - 31292, G K - 3059, PHS - 520247, KMH - 3712, BISCO - 855, KAVERI - 25K60 showed moderately resistant reaction to *H. zae*.

Survey was carried out in maize growing areas to find out occurrence and distribution of *H. zae*. Maximum occurrence (73.33 %) was observed from Rajsamand followed by Udaipur (70.00 %) and Ajmer (66.67%) district of Rajasthan. On an average, occurrence of cyst nematode was recorded 65.28 per cent. Maximum average nematode population was obtained in the samples collected from Rajsamand (17.00 cyst/plant, 12.55 cyst/100 cc soil and 732.73 larvae/100 cc soil) and minimum population of nematode (3.56 cyst/plant, 6.00 cyst/100 cc soil and 350.00 larvae/100 cc soil) was observed in the samples received from Godhara (Guj).

Inbred Line Evaluation

A total of 196 inbred 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, TLB and P. rust at Mandya and BLSB at Delhi and SDM at Mandya. Out of them some promising lines are :

Resistant lines identified are -

CUBA 380	MLB, TLB, BSDM
DDMSC-4-1 DR 10	MLB, PFSR, TLB, ESR
DMSC14	MLB, TLB, BSDM, P.RUST
DMSC16	MLB, BLSB
DMSC16	MLB, ESR, P.RUST
DMSC-37-3	TLB, BSDM, ESR
Gen1858	TLB, BSDM, P.RUST
HKI -PC-4B-1	BSDM, BLSB
HKI-PC-7	MLB, SDM, TLB, BSDM, BLSB, ESR, P.RUST
HKI-PC-8-2	TLB, BSDM, ESR
HKI-PC-8-2	BSDM, BLSB
WINPOP-21	BLSB
Hyd05R/204-1	MLB, PFSR, BSDM, P.RUST
LM 5	MLB, PFSR, TLB, ESR
V 335	MLB, BSDM, BLSB
NC 406-1	MLB, TLB, BSDM, P.RUST
CM 132	MLB, PFSR, TLB, BSDM, P.RUST
CM 146	MLB, PFSR, BSDM, ESR, P.RUST
CM501	MLB, PFSR, TLB, P.RUST
CM502	MLB, TLB, BSDM, P.RUST
HKI C 78	TLB, BSDM
HKI 141	MLB, TLB
HKI 141	MLB, PFSR, BSDM, TLB, P.RUST

HKI C 323	MLB, PFSR, BSDM, TLB
HKI 1352-5-8-9	MLB, TLB, P.RUST
CML 141	MLB, TLB, P.RUST
CML 154	MLB, BSDM, P.RUST
CML 269	MLB, PFSR, TLB
CML 384	MLB, BSDM, TLB, P.RUST
HKI-162-2	MLB, BSDM, TLB, ESR
HKI 164-3 (2-1)-1	MLB, BSDM, P.RUST, TLB
HKI-164-4-(1-3)-2-2	MLB, TLB, BSDM, P.RUST
HKI 164-3 (2-1)-1	MLB, TLB, BSDM, ESR, P.RUST
HKI 164-D-3-3-2	MLB, TLB, BSDM
HKI 164-7-6 x 161	MLB, BSDM, TLB, ESR
HKI 164-7-4 ER-3	MLB, PFSR TLB,
HKI 164-7-4	MLB, P.RUST, TLB
HKI-164-7-4-2	MLB, TLB, ESR
HKI 164-7-2	MLB, PFSR, BSDM, BLSB, TLB
HKI-164-7-6X161-2	MLB, TLB, P.RUST
HKI 193-2-2	ESR, PFSR, TLB
HKI-193-2-2-4	MLB, BSDM, TLB
HKI 193-1	SDM, P.RUST, BSDM
CML 165	MLB, BSDM, TLB
CML 167	MLB, PFSR, BSDM, ESR, TLB, P.RUST
HKI MBR-139	MLB, PFSR, TLB, P.RUST
HKI-MBR-139-2	MLB, BSDM, TLB, P.RUST
DMR QPM-03-124	MLB, BSDM, P.RUST
CLQ-RCYQ30	TLB, BSDM
CLQ-RCYQ41	MLB, TLB, BSDM, P.RUST
CML 451Q	MLB, TLB, BSDM
HIGH OIL POPULATION II	MLB, TLB
HIGH OIL POPULATION II	MLB, TLB, P.RUST
HKI Tall-8-1-1	MLB, BSDM, TLB
02POOL 33 C24	TLB, BSDM, P.RUST
PFSR - R9	MLB, PFSR, TLB, BSDM, ESR, BLSB
PFSR - R10	PFSR, TLB, BLSB
PFSR - S3	MLB, PFSR, TLB, BSDM, ESR, BLSB
PFSR - S3	PFSR, TLB, BSDM, ESR, BLSB
JCY2-1-2-1-1B-1-2-3-1-1-1	MLB, PFSR, TLB, BSDM, ESR, BLSB
JCY2-7-1-2-1-B-1-2-1-1	MLB, PFSR, TLB, BSDM,
JCY3-7-1-2-1-B-1-1-4-1	MLB, PFSR, BSDM, ESR, BLSB

Evaluation of inbred lines against PFSR at Delhi, Hyderabad, Ludhiana and Udaipur

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)

Evaluation of inbred lines against PFSR at Delhi, Hyderabad, Ludhiana and Udaipur

Genotype	Disease	Location	Yield loss (%)
DHM - 2	TLB	Arabhavi	22.62
EH 434042(Arjun)	TLB	Arabhavi	7.84

Bio 9681	TLB	Arabhavi	16.55
30V92	PFSR (<i>M. phaseolina</i>)	Hyderabad	20.11
Mahi Dhawal	<i>Fusarium moniliforme</i>	Udaipur	36.23

In House Project

❖ **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.**

• Thirty entries out of fifty three were identified as resistant (<2.0 disease score) to *M. phaseolina* and *F. moniliforme* causal organisms of Charcoal rot disease. Some of the promising lines are-

1. CML 298
2. AF-04-B-5796-A-7-1
3. CM 202
4. JCY3-7-1-2-1-'b-6-1-2-1
5. SKV 18
6. 951-7
7. DMSC1
8. DMSC3
9. HKI 226
10. HKI 17-2



Fusarium moniliforme



Macrophomina phaseolina



Resistant Plant

❖ **Post harvest management of losses due to microbial colonization in stored maize grains**

1. Maize grains, artificially inoculated with toxic strains of *A. flavus* were treated with *Trichoderma harzianum*, Sodium tripolyphosphate and Ammonium carbonate. Germination % in treated grains 70-100% whereas in untreated ranged from 70-80%. Ammonium carbonate was the best in minimizing AFB1 up to 85 percent.
2. Experiment to find out the efficacy of biocontrol agents and non-toxic chemicals for the management of stored grains (Pinnacle and DHM III) 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. Data on different parameters are being recorded.

Table: 1
 Trial 61 : Evaluation of Maize Genotypes (IET full season maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	MLB (1-5)		DEL	DHO	LUD	TLB (1-5)		ARB	ALM	MAND	BLSB (1-5)		PANT
		BAJ	BAJ				BAJ	DEL						
1	KNMH - 40901	2.0	2.0	1.5	2.5	2.0	3.0	2.5	1.5	1.5	2.0	4.0	3.0	
2	KNMH - 40902	2.0	2.0	2.0	3.0	2.0	4.0	2.9	1.5	2.0	2.0	4.0	5.0	
3	KNMH - 40903	2.0	2.0	1.5	3.0	2.5	2.5	2.5	1.5	2.0	2.0	3.5	3.5	
4	KNMH - 40904	2.0	2.0	2.0	3.5	3.0	4.5	3.8	1.8	3.3	3.0	3.0	4.3	
5	CMH 08 - 154	1.0	1.0	1.5	2.5	2.5	0.5	2.4	1.0	3.3	3.0	4.0	4.0	
6	CMH 08 - 156	2.0	2.0	1.5	2.5	2.0	2.0	2.6	1.5	2.8	3.5	3.8	3.8	
7	CMH 08 - 282	2.0	2.0	1.5	2.2	1.7	1.0	1.4	1.0	2.5	2.5	2.5	2.8	
8	HKH - 406	2.0	2.0	1.5	2.5	2.2	2.5	2.1	1.5	2.0	3.5	3.5	4.5	
9	HKH - 407	2.0	2.0	2.0	3.0	2.5	3.0	3.4	1.3	3.5	4.0	4.0	4.5	
10	JH - 12108	2.0	2.0	1.5	2.8	1.7	2.5	2.2	1.5	2.0	3.0	3.0	3.0	
11	JH - 12114	2.0	2.0	1.5	2.5	2.2	4.0	2.4	1.3	2.5	4.0	4.0	3.0	
12	IDX - 2901	2.0	2.0	1.5	2.0	1.5	3.0	2.3	1.3	3.3	3.0	3.0	3.3	
13	BMH - 107	2.0	2.0	1.5	2.5	3.2	3.0	2.7	1.0	3.5	3.5	3.5	4.3	
14	BMH - 109	1.5	1.5	2.0	3.5	3.0	2.5	3.2	1.0	3.5	3.0	3.0	3.0	
15	VMH - 2000	2.5	2.0	2.0	4.0	2.2	3.0	3.6	1.3	2.8	2.8	3.0	4.8	
16	JCY 2-7 X HKI 163 - 1	2.0	2.0	1.5	2.5	1.5	1.5	2.4	1.3	2.8	3.0	3.0	4.3	
17	HKI 1126 X HKI 163-1	2.0	2.0	1.5	2.8	1.7	1.5	2.1	1.3	2.0	3.0	3.0	4.8	
18	MCH - 39	2.0	2.0	2.0	2.6	2.2	3.0	3.6	1.8	3.8	3.0	3.0	2.8	
19	MCH - 40	2.0	2.0	1.5	2.5	1.7	3.0	3.0	1.5	3.3	3.0	3.0	3.0	
20	APSA - 91	2.5	1.5	1.5	4.0	2.0	2.0	2.2	1.5	3.8	3.0	3.0	3.5	
21	GK - 3060	2.0	2.0	2.0	4.0	2.0	3.0	3.3	1.5	2.8	3.5	3.5	4.5	
22	GK - 3074	2.0	2.0	2.0	3.0	2.2	2.5	3.5	1.5	3.5	4.0	4.0	4.3	
23	GK - 3076	2.0	2.0	2.0	2.0	1.7	2.0	3.0	1.8	4.3	3.0	3.0	4.0	
24	LAXMI GOLD	1.5	1.5	1.5	3.0	2.0	2.0	2.3	1.5	2.0	3.0	3.0	2.5	
25	LAXMI 405	2.0	2.0	2.5	3.5	2.0	3.5	3.2	1.5	3.3	3.0	3.0	3.8	
26	LAXMI 288	1.5	1.5	2.5	3.0	2.2	1.5	2.9	1.3	2.5	3.5	3.5	2.8	
27	BISCO - 74	2.0	2.0	2.0	4.0	1.7	2.5	2.8	1.5	3.5	3.5	3.5	3.5	
28	BISCO - 574	2.0	2.0	2.0	3.5	3.0	3.5	3.4	1.5	3.5	3.5	3.5	4.5	
29	PAC - 799	1.5	1.5	2.0	3.0	1.7	1.5	2.0	1.3	2.8	4.0	4.0	2.8	
30	BIO - 265	2.0	2.0	1.5	3.0	1.7	3.5	3.5	1.5	3.5	3.5	3.5	3.5	

Table: 1

S.NO	Pedigree	MLB (1-5) BAJ	DEL	DHO	LUD	TLB (1-5) BAJ	ARB	ALM	MAND	BLSB (1-5) DEL	PANT
31	N M H - 731	2.0	1.5	2.6	1.7	2.5	2.6	1.5	2.8	3.0	3.5
32	N M H - 920	1.5	2.0	3.2	1.5	2.5	2.0	1.3	2.0	4.0	4.0
33	N M H - 958	2.0	2.0	3.2	2.0	2.0	2.5	1.5	3.5	3.5	3.3
34	AMAR 6669	1.5	2.0	3.0	1.7	1.5	3.5	1.8	4.3	3.0	4.8
35	OM 7878	2.0	2.0	3.0	2.5	2.0	3.2	1.5	3.5	3.5	4.0
36	JKMH 8033	2.5	2.0	2.5	2.5	3.5	4.0	2.0	3.8	3.5	3.8
37	JKMH - 7005	2.0	2.0	2.0	2.0	2.5	3.5	1.8	3.5	3.0	3.3
38	PRO - 377	2.5	2.5	3.0	2.0	2.0	2.9	1.5	4.3	3.5	3.0
39	PRO - 378	2.0	1.5	2.0	2.0	2.5	2.5	1.5	2.0	3.0	3.0
40	N K - 6246	2.0	1.5	3.5	2.0	2.5	2.2	1.5	2.0	3.5	5.0
41	N K - 6287	2.5	2.0	2.5	2.5	3.0	3.4	1.8	4.3	3.0	3.0
42	N K - 6607	2.5	1.5	2.5	2.0	3.0	2.8	2.0	2.8	3.5	3.8
43	N K - 6617	0.5	2.0	3.0	2.0	1.0	2.1	1.5	2.5	4.0	4.8
44	KMH - 3670	2.5	2.0	3.5	3.0	1.5	2.2	1.5	2.8	2.0	3.8
45	K M H - 548	1.5	1.5	3.5	1.7	2.0	3.6	1.5	3.8	3.0	3.5
46	X7A303	2.0	1.5	2.5	2.2	3.5	3.4	1.5	3.8	3.5	3.3
47	X8B562	2.0	1.5	1.5	1.2	3.5	*	2.0	2.0	3.0	3.8
48	K H - 404	2.5	1.5	2.8	2.5	3.0	3.8	1.8	4.5	3.0	3.5
49	MAIZE POLO	2.5	2.0	3.5	2.5	3.5	2.7	2.0	3.5	3.5	3.8
50	C. - 1950	2.0	2.0	3.2	2.2	3.0	3.5	1.5	2.5	3.5	4.8
51	C. - 1945	2.5	2.0	3.0	2.0	4.0	3.8	1.8	4.5	3.0	2.8
52	K F - 105	2.5	1.5	3.5	2.0	4.5	3.3	1.8	4.3	3.5	3.5
CHECKS:											
53	BIO - 9681 (C)	2.5	2.0	3.0	2.0	4.0	3.7	1.8	2.0	3.5	4.3
54	SEEDTEC - 2324 (C)	1.5	1.5	3.5	1.5	2.5	2.7	1.5	4.3	3.0	3.0
55	HQPM - 1 (C)	1.5	2.0	3.0	3.0	1.0	3.1	1.3	2.0	3.5	2.5
56	HQPM - 7 (C)	2.0	2.0	3.0	3.0	2.5	3.3	1.5	3.5	3.5	3.5
	S.C CM-202	-	-	-	-	-	5.0	-	-	-	-
	R.C	-	-	-	-	-	-	-	2.0	-	-
	S.C	-	-	-	-	-	-	2.8	4.5	-	-
	Local Check	-	-	-	-	-	-	-	-	-	-

* seed were not received

Table: 1

S.NO	Pedigree	SDM (%)		DM (%)		RDM (%)		BSDM (1-5)		PFSR (1-9)			ESR (%)		P.RUST (1-6)		C.RUST (1-6)		CYST Nema*
		MAND	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	ARB	ARB				
1	KNMH - 40901	100.0	87.2	69.50	1.0	1.5	5.9	5.7	5.6	15.7	0.0	4.3	1.0	15-24					
2	KNMH - 40902	100.0	100.0	68.00	1.0	1.8	6.3	6.5	4.3	17.5	13.5	4.3	1.3	11-18					
3	KNMH - 40903	100.0	100.0	78.30	2.0	1.3	7.1	5.8	3.8	26.7	0.0	4.5	2.5	20-27					
4	KNMH - 40904	100.0	100.0	82.60	1.0	1.5	4.4	6.1	3.5	68.6	16.2	4.3	2.3	8-13					
5	CMH 08 - 154	100.0	100.0	88.00	1.0	1.8	3.8	5.1	2.7	64.1	3.1	4.5	3.0	21-29					
6	CMH 08 - 156	100.0	100.0	88.00	2.0	1.3	4.0	5.9	2.9	49.0	10.7	3.3	2.4	29-36					
7	CMH 08 - 282	71.90	63.2	0.00	3.0	1.3	3.5	4.4	3.0	17.8	14.2	3.5	1.5	20-25					
8	H K H - 406	100.0	100.0	45.80	1.0	1.5	4.3	4.5	8.0	33.7	6.9	2.0	1.3	48-58					
9	H K H - 407	100.0	100.0	56.50	1.0	1.5	4.7	4.4	8.2	1.9	0.0	2.8	1.3	45-53					
10	J H - 12108	70.10	69.9	4.20	2.0	1.5	3.8	5.4	2.3	17.6	0.0	2.0	1.0	10-15					
11	J H - 12114	100.0	100.0	64.00	1.5	1.3	4.8	5.8	2.5	5.6	7.7	4.3	2.5	9-13					
12	IDX - 2901	100.0	92.6	4.20	1.0	1.3	4.1	4.8	4.7	3.5	0.0	3.5	1.8	5-11					
13	B M H - 107	100.0	100.0	57.10	1.0	1.8	4.9	5.2	4.2	12.4	4.5	3.8	3.2	14-21					
14	B M H - 109	100.0	95.9	54.20	1.0	1.3	6.1	5.1	7.7	2.3	0.0	3.5	1.5	30-37					
15	V M H - 2000	100.0	100.0	48.00	2.0	1.3	4.9	7.8	5.6	16.4	0.0	3.8	1.5	48-54					
16	JCY 2-7 X H K I 163 - 1	100.0	97.4	52.00	2.0	1.8	2.7	4.8	3.3	9.2	6.2	4.0	3.8	25-32					
17	H K I 1126 X H K I 163-1	100.0	100.0	88.90	1.0	1.5	4.1	5.0	4.4	20.2	0.0	2.0	1.0	15-20					
18	M C H - 39	100.0	100.0	55.60	2.0	1.8	4.6	4.0	4.0	92.1	2.6	2.5	1.0	36-42					
19	M C H - 40	100.0	100.0	52.00	1.0	1.8	3.6	3.4	4.6	7.0	10.0	2.8	1.0	50-55					
20	APSA - 91	25.20	75.9	0.00	1.5	1.5	4.2	3.5	5.4	33.1	0.0	2.5	1.3	23-30					
21	G K - 3060	100.0	100.0	52.20	2.0	1.3	4.0	5.0	4.3	34.5	5.7	4.5	1.5	50-58					
22	G K - 3074	100.0	100.0	90.00	2.0	1.0	6.9	5.1	2.3	18.8	3.3	4.5	1.0	37-43					
23	G K - 3076	100.0	100.0	77.80	2.5	1.3	3.7	5.0	4.0	15.4	0.0	3.8	2.0	20-27					
24	LAXMI GOLD	93.90	100.0	37.50	2.0	1.5	4.5	5.9	4.5	33.5	13.9	2.0	1.0	3-8					
25	LAXMI 405	92.00	100.0	38.10	2.0	1.8	4.6	5.5	4.7	23.2	3.1	3.3	1.4	20-26					
26	LAXMI 288	84.80	100.0	8.60	1.5	1.5	4.7	5.8	5.0	19.2	2.6	3.5	1.9	52-62					
27	BISCO - 74	100.0	100.0	48.00	1.0	1.5	3.9	5.6	4.4	8.9	0.0	3.5	1.0	38-45					
28	BISCO - 574	100.0	100.0	81.80	1.0	1.5	7.4	6.5	5.6	16.7	3.5	3.8	1.1	53-61					
29	PAC - 789	100.0	100.0	90.50	1.0	1.0	4.3	5.5	2.6	0.0	4.6	4.0	1.0	29-37					
30	BIO - 265	100.0	100.0	62.50	1.0	1.8	3.3	4.8	3.1	0.0	3.6	3.3	1.0	13-20					
31	N M H - 731	100.0	100.0	72.00	2.0	1.5	4.5	5.6	5.1	0.0	0.0	3.5	3.5	4-7					

* range of cyst/ plant

Table: 1

S.NO Pedigree	SDM	DM	RDM	BSDM		PFSR			ESR		P.RUST		C.RUST		CYST Nema*
	(%)	(%)	(%)	(1-5)	(1-5)	(1-9)	(1-9)	(%)	(%)	(1-6)	(1-6)	(1-5)	(1-5)		
	MAND	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	ARB		
32 N M H - 920	100.0	100.0	65.2	2.0	1.3	5.3	5.2	5.4	7.9	0.0	2.0	1.4	UDP		
33 N M H - 958	100.0	100.0	59.1	2.0	1.3	4.7	5.8	6.7	8.1	0.0	3.8	1.1	28-34		
34 AMAR 6669	100.0	100.0	80.0	2.0	1.3	3.3	6.3	3.9	21.2	2.9	3.5	1.5	43-53		
35 OM 7878	100.0	100.0	33.3	1.0	1.3	4.7	5.4	5.3	7.6	0.0	3.5	2.9	21-29		
36 JKMH 8033	100.0	100.0	96.0	1.0	1.8	5.3	4.8	4.1	18.8	5.9	4.8	1.3	39-47		
37 JKMH - 7005	12.8	3.8	4.3	1.0	1.0	6.3	5.8	5.6	22.7	9.4	2.0	1.3	35-41		
38 PRO - 377	100.0	100.0	33.3	3.0	1.5	5.0	6.3	4.6	30.9	0.0	3.5	1.3	44-51		
39 PRO - 378	84.0	100.0	52.0	2.0	1.5	4.1	5.2	2.1	29.3	0.0	2.0	1.1	11-18		
40 N K - 6246	0.0	48.8	0.0	2.5	1.3	2.9	5.8	8.5	24.2	3.3	2.0	1.1	30-36		
41 N K - 6267	7.8	60.7	0.0	3.0	1.8	3.9	4.5	3.3	36.9	0.0	3.8	3.6	44-52		
42 N K - 6607	0.0	74.1	0.0	2.0	1.3	4.7	4.5	5.8	15.0	0	3.5	2.0	22-30		
43 N K - 6617	1.7	32.7	0.0	2.0	1.5	6.0	5.0	3.8	3.6	27.4	3.3	2.3	44-54		
44 KMH - 3670	100.0	100.0	37.5	3.0	1.0	5.7	6.0	5.0	42.4	0.0	2.8	1.2	37-43		
45 K M H - 548	100.0	100.0	24.0	2.0	1.8	4.0	5.2	6.8	6.1	0.0	4.3	1.5	31-38		
46 X7A303	100.0	100.0	66.7	2.5	1.0	3.9	5.6	4.6	13.2	4.2	3.5	1.3	42-55		
47 X8562	100.0	100.0	36.0	3.0	1.5	3.7	6.5	4.0	44.5	0.0	2.0	2.0	52-60		
48 K H - 404	100.0	100.0	34.8	2.0	1.5	4.6	4.3	3.4	26.2	0.0	3.5	2.0	16-24		
49 MAIZE POLO	83.5	77.7	24.0	2.0	1.0	4.3	4.4	3.8	20.8	5.5	4.3	1.2	30-36		
50 C - 1950	25.9	92.7	0.0	2.0	1.3	4.9	4.6	4.6	22.1	0.0	4.0	3.3	21-27		
51 C - 1945	10.3	42.1	0.0	3.0	1.5	4.4	5.8	3.8	2.4	7.1	3.5	2.6	47-56		
52 K F - 105	95.0	100.0	62.5	2.0	1.5	5.0	4.3	6.4	4.1	0.0	4.5	3.3	30-37		
CHECKS:														25-32	
53 BIO - 9881 (C)	95.0	100.0	52.2	2.0	1.3	5.8	4.2	5.1	8.7	6.6	3.8	2.3	34-45		
54 SEEDTEC - 2324 (C)	85.9	100.0	16.7	2.8	1.3	3.4	4.2	2.9	7.3	0.0	3.0	1.3	19-26		
55 HQPM - 1 (C)	100.0	100.0	92.0	2.0	1.8	3.5	5.4	2.7	16.6	0.0	4.5	2.4	36-42		
56 HQPM - 7 (C)	100.0	100.0	88.0	2.0	1.0	6.3	6.5	3.3	6.3	0.0	2.8	1.3	52-61		
(Check)	-	-	-	-	-	-	7.2	-	-	-	-	3.5	36-47		
Local W	-	-	19.0	-	-	5.9	-	4.4	-	-	-	-	-	-	
R.C	11.2	9.5	-	-	-	-	-	-	-	-	1.8	-	-	-	
S.C	100.0	100.0	-	-	-	-	-	-	-	-	4.5	-	-	-	
Surya	-	-	56.0	-	-	-	-	-	-	-	-	-	-	-	

* seed were not received
range of cyst/ plant

Table: 2
 Trial 62 : Evaluation of Maize Genotypes (IET medium maturity) against various diseases of maize during Kharif 2008

S.NO	Pedigree	MLB (1-5)		DEL	Dholi	LUD	TLB (1-5)		ARB	ALM	MAND	BLSB (1-5)		PANT
		BAJ	BAJ				BAJ	DEL						
1	PLM-21	2.5	2.5	2.5	3.2	2.7	4.0	3.2	3.2	1.5	4.0	3.5	2.3	
2	L-183	2.5	2.5	2.0	3.5	3.0	3.0	3.0	3.0	2.0	4.5	4.0	3.5	
3	EHL-162308	2.0	2.0	2.0	2.5	2.0	2.5	2.9	1.8	3.5	4.0	4.0	3.0	
4	PMSY-3	2.5	2.0	2.0	3.5	2.7	3.5	3.0	1.8	3.5	4.0	4.0	2.8	
5	PMSW-4	2.5	2.5	2.5	2.5	2.2	2.5	3.5	1.8	4.0	4.0	3.5	3.5	
6	PMSQ-5	2.0	2.0	2.5	3.0	3.5	2.5	3.3	1.5	3.8	3.5	3.5	2.5	
7	HKH-308	2.0	2.0	2.0	3.0	2.5	2.5	3.0	1.5	3.0	3.0	3.5	3.8	
8	HKH-309	2.5	2.5	2.5	3.0	3.2	3.0	3.0	1.5	2.8	3.5	3.5	2.3	
9	HKH-310	2.0	2.0	2.0	3.2	3.2	3.5	2.6	1.8	3.3	3.5	3.5	3.3	
10	MALVIYA MAKKA-2	2.0	2.0	2.0	2.5	2.5	4.5	3.1	2.0	4.5	3.5	3.5	3.0	
11	HKH-311	2.0	2.0	2.0	2.5	3.0	3.5	2.6	2.6	3.0	3.0	3.5	3.3	
12	HKH-312	2.5	2.5	2.5	2.0	3.0	3.5	2.6	2.0	3.5	3.5	3.5	2.5	
13	HKH-313	2.0	2.0	2.0	2.5	2.7	4.0	3.8	1.8	4.5	4.5	3.5	3.5	
14	EH-1974	2.0	2.0	2.0	2.5	3.0	3.5	3.8	1.5	4.5	4.5	3.5	3.0	
15	EH-1986	2.0	2.0	2.0	3.0	2.5	3.5	3.3	1.5	2.8	4.0	4.0	4.0	
16	EH-2025	2.0	2.0	2.5	3.0	2.0	4.5	3.6	2.0	3.5	3.0	3.0	2.3	
17	VEH-09-1	2.0	2.0	2.5	3.0	1.7	3.5	3.4	2.0	4.5	4.5	4.5	3.5	
18	VEH-09-2	2.0	2.0	2.0	1.8	2.5	3.5	3.2	2.3	3.5	3.0	3.0	2.3	
19	REH-2101	2.5	2.0	2.0	2.5	2.0	2.5	3.7	2.8	4.5	3.5	3.5	3.0	
20	REH-2102	2.0	2.0	2.0	3.0	2.2	3.0	3.4	2.8	3.3	3.5	3.5	2.5	
21	REH-2103	1.5	1.5	1.5	3.0	2.7	3.0	3.0	1.8	3.3	3.5	3.5	2.3	
22	JH-31314	2.5	2.0	2.0	3.0	2.2	4.0	3.9	3.0	4.8	3.0	3.0	3.3	
23	JH-31285	2.5	2.0	2.0	2.0	2.0	3.5	3.0	1.8	3.3	3.5	3.5	2.5	
24	JH-31336	2.5	1.5	1.5	2.0	1.7	4.0	3.2	2.3	4.8	3.5	3.5	3.0	
25	JH-31292	2.5	1.5	1.5	2.5	2.0	4.0	3.9	2.8	2.8	3.5	3.5	2.3	
26	JH-31288	2.5	1.5	1.5	2.0	1.7	4.0	3.2	3.0	4.5	4.0	4.0	3.5	
27	AH-97001	2.0	2.0	2.0	3.0	2.2	3.5	3.1	3.0	4.5	4.0	4.0	2.8	
28	HKI 1105 X HKI 163-1	2.0	2.5	2.5	2.5	2.7	3.5	3.5	1.8	4.5	4.0	4.0	3.3	
29	BML 7 X HKI 163-1	1.5	2.0	2.0	2.2	2.0	1.5	3.0	1.5	3.0	3.0	4.0	3.0	
30	HKI 1128 X HKI 163-1	1.5	1.5	1.5	2.2	2.0	1.5	3.0	1.5	2.8	3.0	3.0	3.0	
					3.0	1.7	2.0	2.3	1.5	3.5	-	-	2.5	

Table : 2

S.NO	Pedigree	SDM (%)		DM (%)		RDM (%)		BSDM (1-5)		PFSR (1-9)		ESR (%)		P.RUST (1-5)		C.RUST (1-5)		CYST Nemat ^a
		MAND	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	ARB	UDP			
1	PLM-21	82.5	95.7	36.8	2.0	1.8	6.2	4.9	3.3	7.4	4.5	2.9	11-18					
2	L-183	100.0	89.1	17.4	3.0	1.5	4.1	6.2	5.4	3.2	3.8	2.5	16-24					
3	EHL-162308	100.0	100.0	70.8	2.0	2.0	7.8	6.3	3.5	6.3	4.5	3.4	20-28					
4	PMSY-3	100.0	100.0	60.9	2.0	1.8	5.1	5.0	6.0	13.4	4.5	2.9	25-33					
5	PMSW-4	100.0	100.0	78.9	1.0	1.8	6.0	6.0	4.2	2.2	4.3	3.6	30-38					
6	PMSQ-5	100.0	100.0	90.5	1.0	1.5	5.6	6.1	4.7	10.3	3.5	2.0	23-29					
7	HKH-308	100.0	100.0	37.5	1.0	2.3	7.8	6.0	3.3	7.9	4.3	2.5	13-17					
8	HKH-309	100.0	100.0	86.4	2.0	1.5	3.5	5.2	3.2	9.1	4.0	2.9	4-9					
9	HKH-310	100.0	97.8	55.0	3.0	2.5	6.0	5.9	1.8	8.3	4.5	3.9	30-40					
10	MALVIYA MAKKA-2	100.0	100.0	78.3	2.0	1.5	6.2	6.2	3.2	2.4	4.8	3.2	45-52					
11	HKH-311	100.0	100.0	43.5	2.0	1.5	5.4	4.8	2.7	2.4	4.5	3.7	10-14					
12	HKH-312	100.0	100.0	36.0	2.0	1.8	5.7	6.4	4.2	28.0	5.0	3.6	3-8					
13	HKH-313	100.0	100.0	83.3	2.0	2.0	5.5	5.7	8.1	25.3	2.8	1.4	51-56					
14	EH-1974	100.0	100.0	34.8	2.0	2.3	6.4	6.0	2.9	19.1	4.8	2.5	17-22					
15	EH-1986	100.0	100.0	25.0	2.0	1.8	6.6	6.2	3.1	42.8	4.2	2.2	23-26					
16	EH-2025	100.0	100.0	72.0	2.0	1.5	4.8	5.7	3.6	12.2	3.8	3.3	12-16					
17	VEH-09-1	100.0	100.0	42.8	3.0	2.0	6.5	5.7	2.9	18.6	4.5	2.1	11-18					
18	VEH-09-2	100.0	97.8	20.8	2.0	1.8	2.6	5.4	3.3	2.6	2.8	1.7	25-32					
19	REH-2101	94.0	95.1	22.7	1.0	2.5	5.1	5.4	3.9	25.0	4.5	3.1	10-15					
20	REH-2102	100.0	92.5	36.4	1.0	1.5	3.7	5.3	4.0	6.8	4.0	2.4	12-18					
21	REH-2103	100.0	85.4	63.6	1.0	1.3	4.9	5.7	4.8	24.7	2.8	1.9	10-14					
22	JH-31314	100.0	100.0	68.0	1.0	1.8	4.9	5.6	4.6	4.8	3.8	1.5	32-37					
23	JH-31285	100.0	97.8	37.5	1.0	1.5	3.5	6.1	2.5	3.8	4.0	3.4	27-34					
24	JH-31336	100.0	95.0	76.0	2.0	1.5	4.5	5.7	8.0	8.1	3.5	1.5	22-27					
25	JH-31292	100.0	97.8	47.8	2.0	1.5	3.3	5.9	4.3	28.5	2.8	1.3	4-8					
26	JH-31288	100.0	100.0	57.1	2.5	1.3	3.4	5.7	2.9	30.8	4.8	3.3	23-26					
27	AH-97001	100.0	100.0	58.3	2.0	1.8	5.5	6.0	5.1	37.3	4.5	2.7	22-30					
28	HKI 1105 X HKI 163-1	100.0	100.0	72.0	1.0	1.3	6.6	4.7	3.3	22.0	3.8	2.4	18-23					
29	BML 7 X HKI 163-1	100.0	100.0	66.7	1.0	1.0	3.5	6.3	3.3	9.1	2.8	1.9	20-25					
30	HKI 1128 X HKI 163-1	100.0	100.0	84.0	1.0	1.5	3.9	6.2	6.3	1.2	3.0	1.4	11-16					

^a range of cyst/ plant

Table : 3
 Trial 63 : Evaluation of Maize Genotypes (IET early maturity) against various diseases of maizeduring Kharif 2009

S.NO	Pedigree	MLB (1-5)		Dhoif	LUD	TLB (1-5)		ARB	ALM	MAND	BLSB (1-5)		PANT
		BAJ	DEL			BAJ	DEL				DEL	DEL	
1	EHL - 162408	2.0	2.0	2.5	2.5	3.5	3.5	2.6	2.3	4.5	4.0	4.0	2.5
2	EHL - 162508	1.0	1.5	2.0	2.0	1.5	1.5	3.3	1.8	3.5	2.5	2.5	2.3
3	FH - 3506	2.0	1.5	2.0	2.5	2.5	2.5	2.7	1.5	3.5	4.0	4.0	2.8
4	EH - 2005	1.5	2.5	2.8	2.5	1.5	1.5	2.9	1.8	4.5	4.0	4.0	3.0
5	EH - 1992	1.5	2.0	2.0	2.0	2.0	2.0	3.0	1.8	4.5	4.0	4.0	3.0
6	EH - 1971	2.0	2.0	3.0	2.7	3.5	3.5	3.3	2.3	4.5	3.0	3.0	2.3
7	KDM - 399	2.0	2.0	3.0	2.2	3.5	3.5	2.7	2.3	4.3	4.0	4.0	3.0
8	REH - 2001	2.0	2.0	2.5	2.5	4.0	4.0	3.3	1.8	4.0	4.0	4.0	2.0
9	REH - 2002	2.0	2.5	3.0	2.2	3.0	3.0	3.2	2.0	4.5	4.0	4.0	2.3
10	REH - 2003	2.5	2.0	2.5	3.0	2.0	2.0	2.3	1.5	3.5	3.5	3.5	2.8
11	JH - 31236	2.0	1.5	3.0	2.5	4.5	4.5	2.8	2.8	4.5	4.0	4.0	2.8
12	JH - 31308	2.0	2.0	2.2	2.2	4.5	4.5	2.7	2.8	4.5	4.0	4.0	3.0
13	AH - 97002	2.0	2.0	2.2	2.2	4.5	4.5	3.1	1.8	3.5	3.5	3.5	3.0
14	AH - 97017	2.0	2.0	2.8	2.5	3.5	3.5	3.5	1.5	4.5	5.0	5.0	4.0
15	AH - 97018	2.5	2.0	2.8	2.5	3.5	3.5	3.7	1.5	3.5	3.5	3.5	3.3
16	BIO - 605	2.0	2.5	1.5	2.0	2.5	2.5	3.5	1.3	3.5	3.0	3.0	2.5
17	KH - 9560	2.5	2.0	2.5	3.0	2.5	2.5	3.5	1.5	4.5	4.5	4.5	2.8
	CHECKS:												
18	PARKASH	2.0	2.0	2.0	2.7	4.5	4.5	2.8	2.5	4.5	3.5	3.5	3.0
	Local Check	-	-	4.5	2.5	-	-	-	-	-	-	-	-
	R.C	-	-	-	-	-	-	-	-	1.8	-	-	-
	S.C	-	-	-	-	5.0	5.0	5.0	3.0	5.0	-	-	-

Table : 4
Trial 64 : Evaluation of Maize Genotypes (IET extra early maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	MLB (1-6)		DEL	Dholl	LUD	TLB (1-5)		ARB	ALM	MAND	BLSB (1-5)		PANT
		BAJ	BAJ				BAJ	DEL						
1	FH-3476	2.0	2.0	2.0	2.0	1.2	2.5	2.5	3.5	1.3	4.3	5.0	4.0	
2	FH-3487	2.0	2.0	2.0	2.5	2.2	3.5	3.5	2.8	1.3	4.0	5.0	2.8	
3	FH-3488	2.0	1.5	1.5	1.5	1.7	3.0	3.0	3.7	1.5	4.3	5.0	4.0	
4	FH-3483	1.0	2.0	2.0	2.0	2.0	2.5	2.5	3.1	1.5	2.0	4.0	2.5	
5	FQH-76	2.5	2.0	2.0	3.5	3.0	2.5	2.5	3.3	1.3	3.8	3.5	3.8	
6	DH-177	2.5	2.0	2.0	3.5	2.7	4.5	4.5	3.8	2.0	4.5	3.5	3.5	
7	DH-179	2.0	2.5	3.2	3.2	2.7	4.0	4.0	2.7	1.8	4.5	5.0	3.5	
8	AH-97020	2.5	2.0	2.8	2.8	1.7	3.5	3.5	3.3	1.8	4.5	3.5	2.5	
9	AH-97024	2.0	2.0	3.0	3.0	3.0	4.5	4.5	3.4	1.8	4.3	4.0	2.8	
CHECKS:														
10	VIVEK QPM -9	2.0	1.5	2.2	2.2	1.7	3.5	3.5	3.9	1.5	3.8	4.0	3.3	
11	VIVEK HYBRID -9	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.9	1.5	3.5	4.0	2.0	
	Local Check	-	-	4.5	4.5	2.5	-	-	-	-	-	-	-	
	R.C	-	-	-	-	-	-	-	-	-	1.8	-	-	
	S.C	-	-	-	-	-	-	-	5.0	2.8	4.8	-	-	

Table : 5
Trial 75 : Evaluation of Maize Genotypes (full season maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	MLB (1-5)		Dholi	LUD	TLB (1-5)		ARB	BAP	ALM	MAND	BLSB (1-5)		PANT
		BAJ	DEL			BAJ	DEL					DEL	DEL	
AET 1st YEAR														
1	BH-417135	1.0	1.5	2.5	2.0	0.5	1.9	2.3	1.5	2.0	3.0	3.5	3.0	3.5
2	BH-407138	0.5	1.5	3.5	2.5	3.5	3.3	2.8	1.8	3.8	3.0	3.3	3.0	3.3
3	X7B401	1.0	1.5	2.0	2.7	3.5	3.7	2.8	1.8	3.3	3.5	3.3	3.5	3.3
4	X7B403	2.0	1.5	2.5	1.7	2.0	3.3	2.5	1.8	3.5	2.0	3.0	2.0	3.0
5	LAXMI - 9495	1.5	1.5	3.0	2.0	1.5	2.5	2.3	1.5	2.0	3.0	2.0	3.0	2.0
6	GK-3059	0.5	1.5	2.5	1.7	1.5	2.9	2.0	1.5	2.0	2.0	2.3	2.0	2.3
7	PAC-745	0.5	2.0	3.0	2.0	1.0	2.7	2.0	1.5	2.8	2.5	3.0	2.5	3.0
8	M05008	2.0	2.0	4.0	3.0	2.5	3.3	2.8	1.5	3.8	3.0	2.8	3.0	2.8
9	PHS-520247	1.0	2.5	3.0	3.0	3.0	3.6	3.5	1.8	4.3	3.0	2.0	3.0	2.0
10	PFMH-9737	1.5	1.5	3.0	2.7	2.5	3.3	2.8	1.3	3.5	3.0	2.5	3.0	2.5
11	SMH-4502	0.5	2.0	3.5	2.5	2.0	3.5	2.8	1.5	3.5	3.0	2.3	3.0	2.3
12	JKMH-9003	0.5	2.0	4.0	2.7	1.0	3.5	3.5	1.5	3.0	3.0	3.8	3.0	3.8
13	BISCO-4564	2.0	1.5	3.5	1.7	3.0	3.8	3.5	1.8	3.5	3.5	3.5	3.5	3.5
14	KMH-3659	1.0	1.5	2.5	2.0	0.5	3.4	2.3	1.0	2.0	2.0	2.5	2.5	2.5
15	KMH SUPER - 244	0.5	1.5	3.0	2.0	0.5	2.5	1.8	1.5	3.3	3.5	3.0	3.5	3.0
16	BL-2801	0.5	2.0	2.5	1.2	0.5	3.5	2.0	1.5	2.5	2.5	2.8	2.5	2.8
17	HTCH-5401	1.0	1.5	2.5	1.5	2.0	3.5	2.3	1.5	3.5	2.5	2.3	2.5	2.3
18	MCH-38	0.5	1.5	2.0	2.0	1.0	3.8	2.3	1.5	3.8	2.5	2.3	2.5	2.3
AET 2nd YEAR														
19	X6B269	-	2.0	2.5	2.0	1.0	3.4	3.0	1.5	2.0	3.5	2.5	3.5	2.5
20	MDMH-101	-	1.5	2.0	2.2	1.5	3.6	2.8	1.5	3.8	2.5	2.3	2.5	2.3
21	MCH-36	1.0	1.5	3.0	2.0	2.0	3.0	2.5	1.5	3.8	3.0	2.8	3.0	2.8
CHECKS:														
22	BIO-9681	2.5	2.5	2.5	2.0	2.0	2.7	2.8	1.5	3.8	4.0	4.0	4.0	4.0
23	SEEDTEC-2324	1.5	2.0	4.0	3.0	2.0	2.7	3.0	1.3	3.3	3.0	2.3	3.0	2.3
24	HQPM-1	1.5	2.0	2.5	3.0	1.0	2.5	2.8	1.3	2.5	3.0	3.0	3.0	3.0
25	HQPM-7	1.5	2.0	2.8	3.0	1.0	2.8	2.8	1.0	2.0	2.0	2.8	3.5	2.8
	Local Check	-	-	4.5	2.2	-	-	-	-	-	-	-	-	-
	R.C	-	-	-	-	-	-	-	-	1.8	-	-	-	-
	S.C	-	-	-	-	-	5.0	-	2.8	4.8	-	-	-	-

Table : 5

S.NO	Pedigree	SDM (%)		DM (%)		RDM (%)		BSDM (1-5)		PFSR (1-9)		ESR (%)		P.RUST (1-5)		C.RUST (1-5)		CYST Nema#	
		MAND	COIM	UDP	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	ARB	UDP		
AET 1st YEAR																			
1	BH - 417135	100.0	95.7	20.0	2.0	1.8	3.4	5.2	5.0	15.3	0.0	2.0	1.8	42-53					
2	BH - 407138	100.0	97.3	95.2	2.0	1.8	3.3	5.6	3.5	13.2	0.0	4.3	2.3	30-37					
3	X 7B 401	100.0	95.0	21.7	1.5	1.3	3.9	4.9	3.3	20.9	33.5	2.0	1.1	12-18					
4	X 7B 403	100.0	100.0	47.8	1.0	1.0	4.9	4.5	4.1	19.5	0.0	2.5	1.3	21-26					
5	LAXMI - 9485	96.0	90.0	22.7	1.0	1.0	5.1	5.9	3.3	27.5	0.0	2.0	1.8	15-22					
6	G K - 3059	100.0	97.3	32.0	2.0	1.0	3.1	5.7	4.9	15.8	3.5	2.0	2.6	3-7					
7	PAC - 745	68.0	70.7	0.0	2.5	1.3	3.7	5.7	1.9	33.1	3.1	3.5	2.4	14-20					
8	M 05 008	98.0	89.7	36.0	1.0	1.5	2.7	4.5	2.3	22.6	0.0	2.8	1.3	12-17					
9	PHS - 520247	90.3	100.0	38.5	1.5	1.0	5.3	5.2	4.5	25.0	2.8	3.5	1.3	4-9					
10	PFMH - 9737	100.0	100.0	73.9	2.0	1.3	5.7	4.8	6.5	25.6	3.8	3.5	3.4	30-35					
11	SMH - 4502	98.1	100.0	96.0	2.5	1.0	2.5	5.2	3.1	11.8	6.7	4.3	2.3	31-38					
12	JKMH - 8003	100.0	100.0	4.0	1.0	1.5	6.1	5.3	3.3	36.8	8.3	3.5	2.0	34-43					
13	BISCO - 4584	100.0	100.0	80.0	1.5	1.3	6.3	6.2	4.9	43.2	0.0	3.8	2.0	41-50					
14	KMH - 3669	90.4	97.3	30.8	1.0	1.3	4.0	5.8	2.9	19.8	15.0	3.5	2.6	11-16					
15	KMH SUPER - 244	98.2	100.0	32.0	1.0	1.3	3.2	3.6	3.8	7.5	0.0	2.8	1.2	26-32					
16	B L - 2801	69.4	100.0	0.0	1.5	1.0	3.3	4.0	4.8	21.9	0.0	3.5	2.7	9-15					
17	HTCH - 5401	31.8	100.0	8.0	1.0	1.3	3.8	5.3	4.8	46.0	0.0	4.0	2.4	24-28					
18	MCH - 38	95.2	100.0	13.0	1.5	1.0	2.9	5.3	6.4	36.2	0.0	3.0	1.4	33-42					
AET 2nd YEAR																			
19	X 6B 269	85.8	84.2	15.0	2.0	1.5	4.8	4.9	2.8	32.6	0.0	2.0	2.5	8-13					
20	MDMH - 101	92.5	100.0	8.0	3.0	1.0	4.6	4.5	2.8	44.6	2.8	3.5	3.3	9-15					
21	MCH - 36	98.3	97.3	16.0	2.5	1.8	5.1	4.3	6.8	50.7	0.0	3.3	2.0	30-36					
CHECK:																			
22	BIO - 9681	96.2	97.5	37.5	2.5	1.5	4.2	4.3	2.1	19.6	2.0	3.8	1.9	10-14					
23	SEEDTEC - 2324	92.9	92.5	36.0	2.5	1.0	4.1	5.6	3.9	30.2	0.0	3.6	1.7	12-19					
24	HQPM - 1	100.0	100.0	83.3	2.0	1.3	3.2	5.9	3.3	44.2	3.1	4.5	3.3	21-27					
25	HQPM - 7	100.0	100.0	52.0	2.0	1.0	4.1	5.4	5.4	36.1	0.0	2.0	2.3	31-38					
26	Local Check	-	-	50.0	-	-	5.7	7.2	3.9	-	-	-	-	-					
27	R.C	17.2	7.0	-	-	-	-	-	-	-	-	2.0	-	-					
28	S.C	100.0	100.0	-	-	-	-	-	-	-	-	5.0	3.5	-					
29	Surya	-	-	63.1	-	-	-	-	-	-	-	-	-	-					
30	PEHM-2 (Check)	-	-	-	-	-	-	-	-	-	-	-	-	39-45					

range of cyst/ rust

Table : 6

Trial 76 : Evaluation of Maize Genotypes (medium maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	AET 1st YEAR	MLB (1-5) BAJ	DEL	Dholl	LUD	TLB (1-5) BAJ	ARB	BAP	ALM	MAND	BLSB (1-5) DEL	PANT
1	JH-31240		1.5	1.5	2.0	2.2	3.5	3.5	3.3	1.8	4.0	3.5	4.0
2	JH-31242		1.0	1.5	2.5	2.5	2.5	3.1	3.0	2.0	3.5	3.0	2.5
3	EH-1858		1.5	1.5	2.8	3.0	3.0	3.3	3.5	3.3	4.3	3.0	3.3
4	EH-1877		2.0	2.5	2.0	2.2	3.5	3.4	3.8	3.3	4.5	3.0	3.3
5	BH-406126		2.5	1.5	3.0	3.2	3.5	3.2	2.3	2.3	4.5	3.5	3.3
6	BH-408005		2.0	1.5	1.5	2.5	3.0	3.8	2.5	2.8	2.8	2.0	2.5
7	KLM-766		2.0	2.5	3.0	3.0	2.5	3.5	2.8	1.5	3.8	3.5	3.3
8	EC-3180		2.0	2.0	3.0	3.2	2.5	3.4	2.5	1.5	3.8	3.5	4.0
9	KH-717		1.0	2.0	2.5	3.0	1.5	3.4	2.5	1.8	3.3	3.0	3.0
10	KH-9452		1.0	2.5	2.5	2.0	1.5	3.5	2.8	1.8	3.3	2.5	2.8
11	HYBRID VMH - 4060		2.0	2.0	3.5	3.5	2.0	3.1	2.8	1.5	4.3	4.0	3.8
12	KMH-3712		2.5	1.5	1.5	2.0	4.0	3.3	3.5	1.5	4.3	3.5	3.3
13	BL-2802		1.5	1.5	2.5	2.5	2.0	3.3	3.3	1.8	4.3	3.0	2.8
14	MCH-37		2.0	1.5	1.5	1.7	2.5	3.3	2.5	1.8	3.3	2.0	3.0
	AET 2nd YEAR												
15	JH-31153		1.5	1.5	2.0	2.2	3.0	3.5	2.8	1.8	2.0	3.0	3.5
16	BH-4062(RETES.)		2.0	2.0	2.5	2.5	3.0	3.4	2.0	1.8	2.0	3.5	3.0
17	C.P-828		1.0	2.0	2.0	2.2	2.5	3.8	3.0	1.8	3.3	2.5	2.3
18	KDMH-1001		1.0	1.5	2.0	2.0	2.0	3.6	2.5	2.0	3.5	2.0	2.8
19	BISCO-111		1.0	2.0	2.5	2.2	0.5	3.1	2.0	2.5	3.5	2.0	3.8
20	BISCO-555		1.5	1.5	2.5	3.0	1.5	3.3	2.0	1.5	2.5	3.0	3.0
21	BISCO-855		1.5	2.0	2.2	2.5	2.5	3.4	2.0	2.0	3.3	3.5	3.3
22	C.P-838		1.5	1.5	1.5	2.2	2.5	3.1	2.3	2.3	3.5	3.0	2.8
23	KAVERI-25K60		1.5	2.0	1.5	2.5	0.5	3.0	1.5	1.3	2.3	3.0	2.5
	CHECKS:												
24	NAVJOT		2.0	2.5	3.5	3.2	4.0	3.7	2.8	1.3	4.5	4.0	4.3
25	HM-8		2.0	1.5	2.2	3.2	2.5	3.4	1.8	1.3	2.0	2.5	3.0
26	HM-9		1.5	1.5	2.0	2.2	2.0	3.2	1.8	1.8	2.0	2.5	3.0
27	HM-10		2.0	1.5	2.0	3.0	1.0	3.2	1.8	1.3	2.8	3.0	2.5
	Local check		-	-	4.5	2.5	-	-	-	-	-	-	-
	R.C		-	-	-	-	-	-	-	-	1.8	-	-
	S.C		-	-	-	-	-	5.0	-	3.8	4.5	-	-

Table : 7
 Trial 77 : Evaluation of Maize Genotypes (early maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	MLB (1-5)					TLB (1-5)					BLSB (1-5)				
		BAJ	DEL	Dholi	LUD	RAN	BAJ	ARB	BAP	ALM	MAND	DEL	PANT			
AET 1st YEAR																
1	COMP. R - 2006-1	2.0	2.0	2.0	2.5	2.0	3.5	3.7	1.5	1.5	3.0	3.0	3.0			
2	COMP. R- 2007-1	2.0	1.5	2.5	3.0	2.0	3.5	3.9	2.0	1.3	2.0	2.5	3.3			
3	U.M.C - 10	2.5	2.5	2.5	2.2	2.5	3.0	3.5	2.5	1.3	4.5	3.0	3.8			
4	U.M.C - 11	2.0	2.0	2.5	2.7	2.3	4.0	2.8	2.8	1.8	3.5	3.5	4.0			
5	U.M.C - 12	2.0	3.0	3.0	2.5	3.0	4.5	3.8	3.0	2.0	3.8	3.5	3.8			
6	KML - 9	1.5	1.5	3.0	2.0	2.3	3.0	3.0	2.5	2.3	2.0	3.5	2.5			
7	K.M.L - 15	2.5	2.0	3.0	2.5	2.5	3.5	2.9	2.5	1.8	3.3	3.0	4.5			
CHECKS:																
8	PARKASH	2.0	2.0	2.5	2.0	2.3	4.5	3.5	3.8	2.5	4.8	3.0	3.8			
9	PRATAP MAKKA - 4	1.5	2.0	2.5	3.0	2.3	3.0	3.5	3.8	1.8	4.5	3.0	4.0			
10	PRATAP MAKKA - 5	2.0	2.0	3.0	3.2	2.5	4.0	3.4	3.8	2.0	3.8	3.0	4.0			
AET 2nd YEAR																
11	JH - 31110	2.5	1.5	2.0	2.5	1.8	5.0	3.8	3.8	3.3	4.8	2.0	3.8			
	Local check	-	-	4.5	2.5	4.5	-	-	-	-	-	-	-			
	R.C	-	-	-	-	-	-	-	-	-	1.5	-	-			
	S.C	-	-	-	-	-	-	4.8	-	3.0	4.8	-	-			
	BM-1	-	-	-	-	2.2	-	-	-	-	-	-	-			

Table :7

S.NO	Pedigree	SDM (%)		DM (%)		RDM (%)		BSDM (1-5)			PFSR (1-9)			ESR (%)			P.RUST (1-5)		C.RUST (1-5)		CYST Nema*
		MAND	COIM	UDP	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	ARB	UDP				
AET 1st YEAR																					
1	COMP. R - 2006-1	59.1	100.0	23.8	2.5	1.3	4.9	4.1	2.6	16.9	7.1	2.8	2.3	11-16							
2	COMP. R - 2007-1	100.0	97.5	64.0	2.0	1.3	5.7	5.4	6.9	6.1	0.0	2.0	1.8	21-27							
3	U M C - 10	80.0	100.0	41.7	3.0	1.3	5.7	4.7	5.3	31.5	3.6	3.8	1.8	35-43							
4	U M C - 11	87.0	100.0	34.8	3.0	1.0	5.8	4.5	5.6	38.9	10.0	4.3	1.6	17-24							
5	U M C - 12	82.0	97.5	75.0	2.5	1.0	4.9	4.7	4.3	26.9	6.7	4.5	1.7	43-52							
6	KML - 9	96.1	84.2	32.0	2.0	1.0	4.0	5.0	1.9	25.0	0.0	2.0	1.7	37-45							
7	K M L - 15	79.1	100.0	40.0	2.0	1.0	5.7	4.7	3.5	28.7	15.9	4.5	2.3	10-18							
CHECKS:																					
8	PARKASH	100.0	100.0	84.0	2.5	1.0	4.1	5.3	6.0	25.0	7.3	2.0	2.0	48-58							
9	PRATAP MAKKA - 4	83.3	100.0	68.2	2.0	1.5	6.2	4.4	5.6	34.3	9.0	4.5	2.2	8-14							
10	PRATAP MAKKA - 5	77.5	100.0	87.5	2.0	1.0	5.7	5.2	5.5	42.7	20.7	4.8	1.7	21-27							
AET 2nd YEAR																					
11	JH - 31110	90.4	100.0	83.3	1.0	1.0	4.3	4.7	3.3	18.4	5.4	2.8	1.8	23-30							
	Local check	-	-	39.1	-	-	4.8	7.2	3.7	-	-	-	-	-							
	R.C	12.0	5.1	-	-	-	-	-	-	-	-	1.8	-	-							
	S.C	100.0	100.0	-	-	-	-	-	-	-	-	5.0	2.0	-							
	Surya	-	-	61.9	-	-	-	-	-	-	-	-	-	-							
	PEHM-2 (Check)	-	-	-	-	-	-	-	-	-	-	-	-	39-47							

range of cyst/ plant

Table : 8
Trial 78 : Evaluation of Maize Genotypes (extra early maturity) against various diseases of maize during Kharif 2009

S.NO	Pedigree	MLB (1-5)		Dhoil	LUD	TLB (1-5) RAN	BAJ	ARB	BAP	ALM	MAND	BLSB (1-5)		PANT
		BAJ	DEL									DEL	DEL	
AET 1st YEAR														
1	FH - 3483	1.0	1.5	2.5	2.2	2.0	1.0	2.9	1.8	1.5	2.0	3.5	4.5	
2	FH - 3484	1.0	1.5	2.5	2.5	2.0	0.5	3.3	1.0	1.0	2.0	4.0	3.3	
3	FH - 3473	1.5	1.5	1.5	2.0	1.5	2.0	3.0	1.3	1.3	2.0	4.0	4.5	
4	FQH - 55	2.0	1.5	2.5	2.0	2.0	2.5	2.8	3.3	1.8	2.5	4.0	4.8	
AET 2nd YEAR														
5	FH - 3356 (RETESTING)	2.5	2.0	3.0	3.2	2.5	2.5	2.6	1.8	1.5	2.5	4.5	5.0	
6	FH - 3358 (RETESTING)	1.0	1.5	2.0	1.7	1.8	1.5	2.8	1.8	1.5	1.8	4.5	4.8	
7	FQH - 38	2.5	2.0	3.2	2.0	2.6	3.5	2.1	2.0	1.8	2.5	4.5	4.0	
CHECKS:														
8	VIVEK HYBRID - 21	2.0	1.5	3.2	2.5	2.4	3.0	3.3	2.5	1.8	2.3	4.0	4.8	
9	VIVEK HYBRID - 17	2.0	2.0	3.0	2.5	2.5	2.0	2.8	2.5	1.8	2.8	5.0	4.8	
10	VIVEK QPM - 9	2.5	2.0	2.5	2.0	2.3	3.0	4.0	2.3	1.8	2.8	4.0	4.0	
11	VIVEK HYBRID - 9	2.5	1.5	3.0	2.0	2.3	3.0	2.8	2.3	1.5	2.8	4.5	4.8	
12	PARKASH	2.5	1.5	2.5	2.5	2.0	4.0	3.9	3.0	2.8	4.8	3.5	3.5	
	Local check	-	-	4.5	2.7	2.3	-	-	-	-	-	-	-	
	R.C	-	-	-	-	-	-	5.0	-	-	1.8	-	-	
	S.C	-	-	-	-	-	-	-	-	2.8	4.8	-	-	

Table : 8

S.NO	Pedigree	SDM (%)		DM (%)		RDM (%)		BSDM (1-5)		PFSR (1-9)		ESR (%)		P.RUST (1-5)		C.RUST (1-5)		CYST Neir	
		MAND	COIM	UDP	DHAU	PANT	LUD	HYD	UDP	DHAU	PANT	MAND	ARB	UDP	ARB	UDP			
AET 1st YEAR																			
1	FH - 3463	100.0	95.65	52.2	1.0	1.3	4.2	4.7	5.6	31.7	3.1	5.0	2.0	28-36					
2	FH - 3464	100.0	100.00	60.0	1.0	1.0	5.1	4.9	8.2	28.1	10.0	2.0	1.3	11-17					
3	FH - 3473	90.9	95.65	39.1	1.0	1.0	5.0	5.1	2.3	36.9	0.0	4.8	1.5	8-14					
4	FQH - 55	80.7	100.00	52.2	1.5	1.0	3.6	4.7	5.9	44.0	0.0	5.0	2.2	30-39					
AET 2nd YEAR																			
5	FH - 3356 (RETESTING)	78.2	100.00	44.0	2.5	1.0	7.5	5.0	2.5	59.4	0.0	5.0	1.8	10-19					
6	FH - 3358 (RETESTING)	94.4	100.00	0.0	1.0	1.0	3.9	4.9	2.3	68.9	0.0	4.8	2.5	17-23					
7	FQH - 38	83.8	100.00	92.0	1.5	1.0	7.2	5.6	6.6	75.9	5.5	4.5	2.6	35-42					
CHECKS:																			
8	VIVEK HYBRID - 21	100.0	100.00	95.8	1.0	1.0	4.2	5.0	5.7	76.4	0.0	5.0	2.0	49-58					
9	VIVEK HYBRID - 17	100.0	100.00	72.7	1.5	1.0	6.4	5.3	7.9	52.9	0.0	4.8	2.1	36-44					
10	VIVEK QPM - 9	100.0	100.00	64.0	1.0	1.5	5.7	6.1	8.0	51.6	4.5	4.8	1.7	29-37					
11	VIVEK HYBRID - 9	100.0	100.00	66.7	1.5	1.0	3.6	4.1	5.8	22.1	0.0	5.0	1.9	26-32					
12	PARKASH	100.0	100.00	36.0	1.0	1.0	4.6	4.3	5.0	36.1	0.0	2.0	1.5	28-38					
	Local check	-	-	81.8	-	-	4.5	7.2	3.3	-	-	-	-	-					
	R.C	12.7	4.76	-	-	-	-	-	-	-	-	2.0	-	-					
	S.C	100.0	100.00	-	-	-	-	-	-	-	-	4.8	2.5	-					
	Surya	-	-	60.0	-	-	-	-	-	-	-	-	-	-					
	PEHM-2 (Check)	-	-	-	-	-	-	-	-	-	-	-	-	37-44					

range of cyst/ plant

Table : 9

S.No	Pedigree	Rust (1-5)		SDM (%)		P.Rust (1-5)		B.S (1-5)		Other disease	
		HYD	ARB	COIM	MAND	MAND	ARB	DHAU	UDP	UDP	MAND
1	HKI-163	1.5	2.5	1.0	100.0	3.0	2.0	-	-	Curvularia leaf spot	
2	HKI-1931	1.0	2.5	0.0	100.0	4.0	2.0	-	-	Maydis leaf blight	
3	HKI-323	1.0	2.0	1.0	100.0	4.0	2.0	-	-	-	
4	CM-128	2.0	2.0	1.0	80.0	3.5	1.0	-	-	-	
5	CM-136	1.6	1.5	1.0	100.0	4.5	2.0	-	-	Phaeospora leaf spot	
6	CM-137	1.8	2.5	0.0	100.0	4.5	1.0	Tr.	Virus (?)	-	
7	CM-138	2.0	2.0	1.0	100.0	3.5	1.0	Tr.	-	Stalk rot	
8	CM-145	2.0	2.0	0.0	88.0	3.5	3.0	Tr.	-	Stalk rot	
9	CM-150	1.7	1.5	1.0	100.0	4.0	3.0	-	Virus (?)	-	
10	CM-151	1.8	1.5	0.0	88.0	4.0	2.0	-	-	Stalk rot	
11	CM-212	2.0	2.0	0.0	100.0	NG	3.0	Tr.	-	-	
	Local Check	-	-	-	-	-	-	-	-	-	
	S.C	-	-	-	100.0	-	-	-	-	-	

Table : 10
Evaluation of QPM - 1 Genotype against Maize diseases during Kharif 2009

S.No	Padigree	MLB (1-5)		RANCHI		TLB (1-5)		ALM	BLSB (1-5)		ESR (%)		P. Rust (1-6)		RDM (%)		PFSR (1-9)		LUD
		DHO	DEL	BAJ	LUD	BAJ	MAND		BAJ	DEL	DHAU	DHAU	MAND	UDP	UDP	UDP	UDP		
1	HQPM-20	2.5	3.0	2.5	3.5	3.0	1.5	1.8	3.0	1.5	6.3	5.0	56.5	3.2	4.3				
2	HQPM-21	3.0	3.0	2.5	3.7	3.1	2.5	1.5	3.0	1.0	12.8	4.8	40.0	1.9	4.6				
3	BAUQH-8-9-201	2.5	2.5	2.0	3.0	2.5	3.0	1.8	3.5	2.0	15.8	4.8	73.9	5.1	4.8				
4	BAUSYN-8-9-501	2.5	2.0	2.0	3.0	2.5	3.0	1.5	3.0	1.0	18.9	4.8	73.9	4.3	3.8				
5	BAUSYN-8-9-502	3.0	1.5	2.0	3.0	2.5	2.5	1.3	3.5	1.5	22.4	4.8	40.0	3.4	4.9				
6	ECQ-3152	2.0	2.0	2.0	2.7	2.4	2.8	1.8	3.5	2.5	30.2	3.5	65.0	4.3	5.4				
7	VEHQ-3019	2.5	1.5	1.0	2.5	1.8	1.5	1.5	3.0	1.0	11.8	4.3	45.4	2.4	4.0				
8	VQPMH-282	2.5	1.5	1.5	2.5	2.0	2.3	1.5	3.0	1.5	31.1	3.5	79.2	4.0	4.5				
9	JHQPM-304	3.0	2.0	1.0	3.0	2.0	1.8	1.3	3.0	1.0	35.3	3.8	83.3	5.3	3.8				
10	CHECKS:																		
11	HQPM-1	3.5	1.5	1.0	3.2	2.1	2.3	1.3	3.0	1.0	34.2	5.0	44.0	3.5	3.6				
12	HQPM-5	2.5	1.5	1.0	2.5	1.8	1.8	1.5	2.5	1.5	49.7	1.8	68.4	4.3	3.6				
13	HQPM-7	2.5	2.0	2.5	3.5	3.0	1.8	1.5	3.0	2.0	22.4	1.8	56.0	4.5	4.1				
	Local Check	4.5	-	-	2.7	2.0	-	-	-	-	-	-	28.0	3.4	6.3				
	Surya	-	-	-	-	-	-	-	-	-	-	-	79.2	-	-				
	R.C	-	-	-	-	-	1.8	-	-	-	-	1.5	-	-	-				
	S.C	-	-	-	-	-	4.5	3.3	-	-	-	4.8	-	-	-				

Table : 11
 Evaluation of QPM - 2 & 3 Genotype against Maize diseases during Kharif 2009

S.NO	Padigree	MLB (1-5)		RANCHI		BAJ		LUD		TLB (1-5)		ALM		BLS (1-5)		RDM (%)		BSDM (1-5)		ESR (%)		P. Rust (1-5)		PFSR (1-9)		LUD
		DHO	DEL	DEL	RANCHI	BAJ	BAJ	BAJ	BAJ	MAN	MAN	MAN	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	DEL	
1	TRQPM-2 VEH QPM-3018	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	4.5	1.5	1.3	3.5	100.0	1.0	74.3	2.5	4.9	4.1							
2	TRQPM-3 VEH QPM-3027	2.5	1.5	1.5	1.5	2.5	2.5	2.5	2.5	2.0	1.0	1.5	3.0	20.0	1.0	13.9	4.3	3.5								
CHECKS:																										
3	HQPM-1	2.5	2.0	2.0	2.0	2.5	2.5	3.0	3.0	1.8	1.5	3.5	60.0	1.5	22.0	4.5	4.8	2.9								
4	HQPM-5	3.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0	2.0	1.5	3.0	60.9	2.0	36.4	2.0	3.9	4.1								
5	HQPM-7	2.0	2.0	2.0	2.0	1.5	1.5	3.0	3.0	1.8	2.0	1.5	48.0	1.0	27.4	2.0	4.8	3.0								
	Local Check	4.5	-	2.8	-	-	-	2.7	-	-	-	-	44.0	-	-	-	3.9	4.4								
	Surya	-	-	-	-	-	-	-	-	-	-	-	60.0	-	-	-	-	-								
	R.C	-	-	-	-	-	-	-	-	1.5	-	-	-	-	-	-	1.8	-								
	S.C	-	-	-	-	-	-	-	-	4.8	3.0	-	-	-	-	-	4.5	-								

* Stunted plants

Table : 12
 Evaluation of inbred lines of maize against major diseases of maize at Hyderabad, Udaipur, Delhi, Ludhiana, Dhauiakuan
 & Mandya during Kharif 2009.

S.No.	Pedigree	MLB (1-5)		TLB (1-5)		BSDM (1-5)		BLSB (1-5)		SDM (1-9)		PFSR (1-9)		ESR (%)		P. rust (1-5) MAND
		LU	LU	MAN	MAN	DHAU	DHAU	DEL	DEL	MAN	HYD	UDP	LUD	DEL	DHAU	
1	HSSW(HS)C1F3(SH2SH2)	3.0	3.5	1.5	1.5	1.5	1.5	5.0	100.0	6.7	7.0	4.5	3.3	100.0	3.0	
2	Insec 2 (K4)	-	4.0	1.0	1.0	1.0	1.0	-	100.0	4.7	6.8	-	-	100.0	3.5	
3	Insec 2 (K4) Insec (K4)	3.5	3.0	2.0	1.0	1.0	1.0	4.5	100.0	5.5	-	5.0	5.5	57.1	4.5	
4	Mas madu (sh2 sh2)-	2.5	3.0	2.5	1.0	1.0	1.0	4.0	100.0	5.6	4.0	3.7	2.8	50.0	2.0	
5	NSS2W9301A(sh2sh2)	3.0	2.5	3.0	3.5	3.0	3.5	4.0	100.0	5.8	4.9	4.8	4.2	25.0	5.0	
6	Sweet corn Insec 1 (K4)	2.5	3.5	-	-	-	-	5.0	100.0	5.5	7.7	4.3	4.4	NG	3.5	
7	Win Sweet Corn	4.0	5.0	1.5	2.0	1.5	2.0	5.0	100.0	6.8	3.2	5.5	6.1	66.6	4.0	
8	WSC1 X MUS MADHU	4.0	4.5	1.5	1.5	1.5	1.5	4.0	100.0	7.2	6.8	5.0	4.0	50.0	4.0	
9	951-7	2.5	4.5	2.5	3.0	2.5	3.0	2.5	100.0	5.5	6.3	5.0	1.1	33.3	2.0	
10	Duice Amarillo (Su Su)	2.5	4.5	2.0	1.5	2.0	1.5	5.0	100.0	4.3	7.4	3.7	-	66.6	4.5	
11	Duice Amarillo (Su Su)	2.0	2.5	1.5	3.0	1.5	3.0	-	100.0	4.6	-	5.6	6.0	100.0	2.5	
12	WINPOP-16	2.0	5.0	1.0	1.5	1.5	1.5	4.5	100.0	5.2	4.8	6.0	4.5	42.8	4.0	
13	CP Golden Sweet 3	2.5	3.5	1.5	1.0	1.5	1.0	4.0	100.0	3.8	6.8	3.7	6.2	100.0	5.0	
14	CUBA 378	2.0	5.0	1.0	1.5	1.0	1.5	5.0	100.0	5.2	6.2	5.2	6.3	100.0	4.5	
15	CUBA 377	2.5	5.0	2.0	1.0	1.0	1.0	5.0	100.0	5.8	2.8	5.7	5.9	42.8	4.0	
16	CUBA 379	1.5	4.0	2.0	1.0	2.0	1.0	5.0	100.0	4.9	5.4	4.5	2.6	20.0	2.0	
17	CUBA 380	2.5	2.0	1.5	1.0	1.5	1.0	5.0	100.0	3.2	4.5	4.5	6.4	61.0	4.5	
18	NC 392	1.5	2.0	2.5	1.5	2.0	1.5	3.0	100.0	2.8	2.9	4.7	4.7	75.8	5.0	
19	DMSC1	2.0	2.0	2.0	0.0	2.0	0.0	3.0	100.0	5.0	4.1	3.2	3.0	33.3	4.0	
20	DMSC3	1.5	4.5	2.0	0.0	2.0	0.0	-	100.0	5.9	6.8	4.3	1.0	100.0	5.0	
21	DDMSC-4-1 DR 10	2.0	4.5	1.5	2.0	1.5	2.0	4.5	100.0	4.5	4.6	3.0	4.3	0.0	5.0	
22	DMSC6	2.5	3.5	1.0	2.0	1.0	2.0	3.5	100.0	5.6	4.2	4.2	4.4	60.0	4.0	
23	DMSC8	4.0	3.0	1.5	1.5	1.5	1.5	5.0	100.0	5.8	5.6	5.0	3.7	50.0	4.0	
24	DMSC14	2.5	2.0	1.0	1.0	1.0	1.0	4.0	25.00	6.0	6.5	4.5	6.6	64.2	2.0	
25	DMSC16	1.5	3.5	2.0	1.5	2.0	1.5	2.5	100.0	5.2	5.7	5.5	7.2	75.0	3.0	
26	DMSC16	1.5	4.0	2.5	4.0	2.5	4.0	3.0	100.0	5.1	5.9	4.6	6.5	0.0	2.0	
27	DMSC 20	3.0	4.0	1.5	3.0	1.5	3.0	5.0	100.0	5.7	2.3	4.7	5.2	25.0	3.5	
28	DMSC-22-3	2.5	3.0	1.5	1.0	1.5	1.0	5.0	33.30	5.8	3.1	4.8	6.9	62.5	4.0	
29	DMSC 28	4.0	3.5	1.5	0.0	1.5	0.0	5.0	100.0	5.1	3.8	4.7	7.3	71.4	4.5	

* Seed did not germinate

Table : 12

S.No.	Pedigree	MLB (1-5) LUD	TLB (1-5) MAND	BSDM (1-5) DHAU	BLSB (1-5) DHAU	DEL	SDM (%) MAND	PFSR (1-9) HYD	UDP	LUD	DEL	ESR (%) DHAU	P. rust (1-6) MAND
30	DMSC 36	2.5	4.5	2.0	2.0	3.5	100.0	2.9	3.8	3.6	5.6	25.0	4.5
31	DMSC-37-3	3.0	2.5	1.0	0.0	4.0	100.0	4.1	2.4	8.0	2.4	14.2	5.0
32	Gen1858	4.0	2.0	1.0	0.0	5.0	100.0	4.0	3.5	3.8	6.7	60.0	2.5
33	Sc Male	2.5	4.5	1.5	0.0	3.0	100.0	5.1	2.7	5.9	6.3	88.8	4.5
34	HKI PC 4B	3.0	2.5	1.5	3.5	3.5	100.0	3.9	3.6	5.3	4.7	22.2	5.0
35	HKI-PC-4B-1	3.5	5.0	1.0	1.0	2.5	100.0	6.0	4.4	6.3	2.1	40.0	4.5
36	HKI-PC-BT-3	2.5	5.0	2.0	4.0	2.5	100.0	7.2	2.6	4.0	7.4	0.0	4.5
37	HKI-PC-5	3.0	3.0	1.0	1.5	3.0	100.0	6.1	6.3	4.0	5.9	18.1	5.0
38	HKI-PC-5	3.5	2.0	1.0	2.0	4.0	100.0	5.1	3.2	4.8	5.0	50.0	5.0
39	HKI-PC-7	2.0	2.0	1.5	0.0	2.5	12.50	6.7	4.9	4.1	5.3	0.0	2.0
40	HKI PC 8	3.0	4.0	1.5	4.0	4.5	12.50	4.6	7.7	5.2	5.3	8.3	4.5
41	HKI-PC-8-2	3.5	2.5	1.5	3.0	3.5	100.0	3.7	3.4	5.0	4.6	0.0	4.5
42	HKI-PC-8-2	4.0	5.0	1.5	2.5	2.5	100.0	6.3	2.9	5.2	6.1	25.0	4.5
43	WINPOP	3.0	3.0	1.0	2.5	3.5	100.0	6.8	4.9	4.4	5.1	0.0	4.5
44	WINPOP	2.5	3.5	2.0	3.0	4.0	100.0	5.9	5.0	5.0	6.0	14.2	4.0
45	WINPOP	2.5	3.5	1.0	2.5	4.0	100.0	3.1	4.5	5.2	6.5	0.0	4.5
46	WINPOP	2.5	2.0	1.0	2.5	3.0	100.0	6.4	5.0	5.0	3.8	16.6	5.0
47	WINPOP-8	4.5	2.0	1.5	3.0	2.5	100.0	6.3	4.9	4.8	4.6	32.2	5.0
48	WINPOP-21	4.0	3.5	2.0	2.0	2.5	100.0	6.1	7.3	4.6	4.6	33.8	4.5
49	WINPOP-21	4.0	5.0	2.5	1.5	2.5	100.0	6.8	7.2	4.7	6.5	77.7	4.0
50	WINPOP-43	3.0	2.0	2.5	1.0	4.5	100.0	5.1	3.7	7.0	6.5	80.0	4.5
51	WINPOP-43	2.5	2.5	2.0	1.5	3.5	100.0	4.1	4.7	3.6	6.3	16.0	5.0
52	WINPOPII X WIPOPIII	2.5	5.0	1.0	1.0	4.0	100.0	5.7	7.2	5.5	5.8	60.0	4.5
53	HKI-2-6-2-(1-2)-4	3.0	2.0	2.5	4.0	3.5	100.0	4.2	5.2	5.8	6.0	37.5	5.0
54	HKI 209	3.0	5.0	2.5	3.0	5.0	100.0	5.9	7.7	4.3	6.0	11.1	4.0
55	HKI 226	2.0	2.0	2.5	0.0	3.5	100.0	5	5.5	5.2	2.6	100.0	2.0
56	HKI-536-7	2.0	4.0	2.5	0.0	3.5	100.0	6.1	6.8	5.7	5.0	40.0	2.0
57	HKI 586-1 WG '33	3.5	3.5	2.0	1.0	5.0	100.0	6.7	7.0	8.6	6.0	100.0	4.0
58	HKI 1040-5	4.0	2.0	2.5	0.0	3.0	100.0	6.8	7.6	6.2	5.6	9.0	4.5
59	HKI 1040-11	3.5	3.5	1.5	1.5	4.0	100.0	5.6	3.5	7.4	5.1	15.3	5.0
60	HKI-1040-11-7	3.5	2.0	2.0	1.0	4.0	100.0	4.9	4.1	6.4	4.6	40.0	5.0

Table : 12

S.No.	Pedigree	MLB (1-5)	TLB (1-5)	BSDM (1-5)	BLSS (1-5)	SDM (%)	PFSR (1-9)	UDP	LUD	DEL	ESR (%)	P. rust (1-5)
61	HKI 1040C2	3.0	2.5	2.0	1.0	100.0	6.1	5.2	6.3	3.4	37.5	5.0
62	HKI 1084-WG	2.5	2.5	2.5	2.0	100.0	5.4	6.7	3.8	3.6	0.0	5.0
63	CML 451(P2)	2.0	2.0	2.5	3.0	100.0	5.7	3.5	4.0	1.9	35.5	2.0
64	DTPYC9-F46-3-1	1.5	2.0	2.0	4.0	100.0	4.3	2.7	4.6	4.1	90.0	3.5
65	DTPWC9-F115-1-4	1.5	2.0	2.5	0.0	100.0	6.0	2.5	3.6	3.0	18.1	4.0
66	ESM-11-3	4.0	5.0	2.0	0.0	100.0	4.5	4.0	7.0	2.1	75.0	4.0
67	PFSR/51016-1	-	2.0	1.0	0.0	75.00	4.6	2.6	-	1.8	0.0	5.0
68	WS KHOTHAI-1-WAXY-1-1	3.5	2.0	1.5	1.0	100.0	5.4	2.8	5.6	-	80.0	3.5
69	Gen 6033	3.5	5.0	2.0	3.0	100.0	6.2	3.8	5.7	5.0	15.3	4.0
70	Hyd05R/2-1	3.0	2.5	1.5	3.0	63.60	4.0	2.9	4.2	4.6	16.6	4.0
71	Hyd05R/13-2	2.5	4.5	1.5	1.0	100.0	6.0	4.5	4.5	4.1	50.0	3.0
72	Hyd05R/204-1	2.0	3.0	2.0	1.0	100.0	4.9	5.0	4.9	2.3	50.0	2.0
73	LM 5	2.0	2.0	3.0	3.0	100.0	2.8	2.9	3.3	1.3	10.0	5.0
74	LM 6	2.0	4.0	3.0	1.0	100.0	4.6	4.2	4.0	2.5	10.1	3.5
75	LM11	2.0	4.5	3.0	0.0	100.0	6.1	2.4	4.4	2.9	50.0	2.0
76	LM12	2.0	4.5	2.0	4.0	100.0	5.1	3.6	3.0	4.0	80.0	4.5
77	LM15	2.5	5.0	2.0	4.0	100.0	5.5	3.5	6.6	3.9	41.4	5.0
78	LM15	2.0	5.0	2.5	1.5	100.0	5.7	3.0	4.2	6.1	100.0	5.0
79	LM 16	1.5	4.0	2.0	3.0	92.6	5.1	3.7	4.2	3.9	10.0	2.0
80	LTP-1-1	1.5	2.0	2.0	1.0	100.0	3.7	2.9	3.6	3.5	50.0	5.0
81	V 335	1.5	4.5	2.0	1.0	100.0	6.1	2.8	2.5	5.6	66.6	4.5
82	V 341	1.0	2.0	2.0	3.0	100.0	6.0	6.0	4.3	2.3	100.0	5.0
83	V 341	1.5	2.0	2.5	1.0	100.0	6.5	7.9	5.3	3.9	72.7	4.5
84	V 351	1.5	4.0	1.5	1.5	100.0	5.1	3.1	3.5	3.4	75.0	5.0
85	V 351	1.5	5.0	1.0	1.0	100.0	5.2	2.5	4.0	2.6	87.5	5.0
86	V 351	1.5	4.5	1.0	1.0	81.8	6.2	2.3	4.7	3.4	100.0	5.0
87	NC 296-2	2.0	3.5	1.5	3.0	100.0	6.6	3.2	4.3	-	50.0	4.0
88	NC 406-1	2.5	2.5	1.5	3.0	100.0	5.7	5.1	7.7	4.1	22.2	2.0
89	NC 416	1.5	3.5	2.0	4.0	100.0	5.4	6.4	4.7	2.5	62.5	2.0
90	CM104	2.0	4.0	2.0	1.0	100.0	5.7	4.8	4.5	3.0	83.3	2.0
91	CM105	1.5	4.0	1.0	0.0	100.0	4.7	3.1	5.4	5.5	20.0	2.0

Table : 12

S.No.	Pedigree	MLB (1-5)	TLB (1-5)	BSDM (1-5)	BLSB (1-5)	SDM (%)	PFSR (1-9)	UDP	LUD	DEL	ESR (%)	P. rust (1-5)
92	CM114	2.0	2.5	2.5	3.0	100.0	5.7	3.7	3.7	1.4	16.6	4.0
93	CM121	2.5	4.5	1.5	2.0	100.0	5.4	3.6	4.5	4.0	100.0	3.0
94	CM123	2.0	3.5	1.0	3.5	100.0	2.0	4.0	5.8	1.6	36.3	5.0
95	CM124	2.0	5.0	1.0	1.0	100.0	6.3	6.8	5.3	1.3	66.6	5.0
96	CM128	2.5	3.5	1.0	1.5	100.0	6.2	2.7	6.3	-	77.1	5.0
97	CM129	2.0	2.5	1.5	4.0	100.0	6.7	6.9	4.5	-	50.0	4.0
98	CM132	2.0	2.0	1.5	4.0	100.0	4.8	3.5	4.3	1.5	66.6	2.0
99	CM133	3.5	4.0	2.0	0.0	100.0	4.4	3.7	5.1	2.5	80.0	4.0
100	CM139	2.0	4.5	2.5	4.0	100.0	4.0	3.5	3.4	3.7	20.0	3.5
101	CM144	1.5	4.5	2.5	0.0	90.9	5.0	3.3	5.0	2.3	50.0	2.0
102	CM146	2.0	3.5	2.0	4.0	100.0	3.2	4.1	3.7	1.2	12.5	2.0
103	CM149	2.5	4.0	2.0	1.0	100.0	3.2	4.9	4.6	2.0	87.5	4.5
104	CM500	2.5	5.0	2.5	0.0	100.0	5.0	4.1	4.8	1.8	0.0	2.0
105	CM501	2.5	2.5	2.5	0.0	50.00	3.3	4.5	4.5	1.5	75.0	2.0
106	CM502	2.0	2.0	2.0	3.0	30.00	5.3	7.9	5.6	1.0	70.0	2.0
107	HKI C 78	3.5	2.0	2.0	3.0	100.0	5.83	4.7	3.5	1.4	36.3	3.5
108	HKI 141	2.5	2.0	2.5	4.0	100.0	4.0	3.9	6.4	1.5	70.0	3.5
109	HKI 141	2.0	2.0	2.0	1.5	100.0	5.0	3.3	8.0	2.4	71.4	2.0
110	HKI C 323	2.5	2.5	2.0	1.0	100.0	4.8	4.2	5.0	2.4	56.5	4.0
111	HKI 1352-5-8-9	1.5	2.0	2.5	0.0	100.0	4.0	3.9	6.8	2.5	26.6	2.0
112	Pool 16 BNSEQ.C3F6x38-1	2.0	4.5	2.5	0.0	50.0	6.1	7.4	7.4	1.0	80.0	2.5
113	88-40	2.5	3.0	3.0	1.0	100.0	6.2	5.7	4.8	3.4	33.3	3.5
114	CML 141	2.5	2.0	2.5	1.0	100.0	3	3.6	5.6	2.7	23.0	2.0
115	CML 154	2.0	3.5	2.0	0.0	100.0	6.6	5.9	5.8	2.5	66.6	2.5
116	CML 269	2.0	2.0	2.5	1.0	100.0	3.7	4.7	4.0	1.6	92.3	3.0
117	CML 364	1.5	2.0	2.0	0.0	70.00	3.2	2.9	5.7	1.0	54.5	2.0
118	CML 395	2.0	2.5	1.5	0.0	100.0	3.1	2.3	4.7	1.8	76.9	2.0
119	MIRT&PT-3	2.0	3.0	2.0	4.0	100.0	6.5	4.9	6.2	2.5	12.5	2.0
120	HKI 17-2	4.0	3.0	1.5	3.5	100.0	5.4	2.9	7.4	1.0	60.0	4.0
121	HKI 26-2-4-(1-2)	4.0	5.0	1.5	1.0	100.0	3.9	4.7	5.3	-	20.0	4.0
122	HKI 31-2	2.0	4.0	2.5	1.5	100.0	6.3	7.9	3.8	1.8	28.5	3.5

Table : 12

S.No.	Pedigree	MLB (1-5)	TLB (1-5)	BSDM (1-5)	BLSB (1-5)	DEL	SDM (%)	PFSR (1-9)	UDP	LUD	DEL	ESR (%)	P. rust (1-5)
123	HKI 31-2	2.5	3.0	1.0	4.0	3.0	100.0	6.5	7.9	5.0	1.4	20.0	3.5
124	HKI 34(1+2)-1	4.0	NG	1.0	4.0	4.5	100.0	5.6	5.1	8.2	1.2	63.3	NG
125	HKI-162-2	2.5	2.5	1.0	3.0	5.0	100.0	5.7	2.4	3.9	2.3	0.0	4.0
126	HKI 164-4(1-3)-2	2.5	3.0	1.0	1.0	4.5	100.0	6.8	3.4	4.0	-	20.0	2.0
127	HKI 164-3(2-1)-1	2.0	2.0	1.0	1.0	3.5	100.0	6.4	2.7	3.0	-	14.2	2.0
128	HKI 164-3(2-1)-1	2.5	4.5	2.0	0.0	3.5	100.0	6.3	2.9	3.7	-	0.0	3.0
129	HKI-164-4(1-3)-2-2	2.5	2.0	1.0	0.0	4.5	100.0	6.5	5.1	4.3	2.0	25.0	2.0
130	HKI 164-4(1-3)-2	2.0	5.0	1.0	4.0	5.0	76.90	7.0	4.1	2.5	1.8	0.0	3.5
131	HKI 164-3(2-1)-1	2.5	2.5	1.5	1.0	4.0	100.0	7.4	4.8	3.7	1.1	11.0	2.5
132	HKI 164-D-3-3-2	2.0	2.0	1.5	4.0	4.0	100.0	4.8	6.1	4.2	1.8	27.2	3.0
133	HKI 164-7-7 ER2	3.0	2.0	2.0	3.0	4.0	100.0	6.5	4.2	5.2	1.4	12.5	5.0
134	HKI 164-7-6 x 161	2.0	2.0	2.0	0.0	4.0	100.0	6.3	2.8	5.2	1.0	9.0	4.0
135	HKI 164-7-4 ER-3	1.5	2.0	2.5	0.0	4.0	100.0	3.5	2.7	3.7	2.0	50.0	3.0
136	HKI 164-7-4	2.5	2.0	3.0	1.0	3.5	100.0	4.6	8.6	5.5	2.8	33.3	2.5
137	HKI-164-7-4-2	1.5	2.0	2.5	4.0	4.0	100.0	4.3	2.0	6.7	1.0	11.0	5.0
138	HKI 164-7-2	2.0	2.5	2.0	1.0	2.5	100.0	2.5	2.7	3.0	1.0	56.0	4.0
139	HKI 164-1-4	2.0	3.5	2.0	3.5	-	100.0	4.3	7.0	4.3	1.8	25.0	2.5
140	HKI 164-4(1-3)	3.0	2.5	2.0	1.5	-	100.0	5.1	3.9	5.2	1.1	50.0	3.5
141	HKI-164-7-6X161-2	2.5	2.5	2.5	0.0	-	100.0	5.4	3.7	3.6	1.0	33.3	2.0
142	HKI 191-1-2-5	2.0	4.0	2.0	3.0	3.0	100.0	4.1	4.6	4.5	4.3	25.0	4.0
143	HKI 193-2-2	3.0	2.5	2.5	4.0	3.0	100.0	3.7	2.1	3.0	3.1	14.2	3.5
144	HKI 193-2-2	2.5	4.0	2.0	1.0	3.0	100.0	5.7	2.6	3.4	1.0	22.2	2.0
145	HKI-193-2-2-4	2.0	2.0	1.0	1.0	3.0	100.0	5.2	2.6	3.1	2.4	0.0	5.0
146	HKI 193-1	3.5	3.5	1.0	1.5	3.5	8.30	6.6	4.1	3.4	1.9	50.0	2.0
147	HKI 5072-2 -BT	3.5	4.5	2.0	0.0	4.0	100.0	5.8	3.6	4.9	1.0	0.0	4.0
148	CML 165	1.5	2.0	2.0	0.0	3.0	100.0	6.7	4.7	5.6	1.0	33.3	3.5
149	CML 165	1.5	2.0	1.0	0.0	4.5	100.0	6.0	5.2	6.2	1.0	100.0	3.5
150	CML 167	2.0	2.0	1.0	0.0	-	37.50	4.2	2.5	4.1	1.0	0.0	2.5
151	CML 171	2.0	2.0	1.0	0.0	3.0	100.0	5.9	6.0	6.3	1.3	80.0	3.5
152	CML 172	3.0	3.5	1.5	1.0	4.0	100.0	4.7	3.3	4.0	1.0	75.0	3.0
153	HKI MBR-139	2.0	2.0	2.5	1.5	4.0	100.0	3.7	3.4	3.9	1.0	12.5	2.0

Table : 12

S.No. Pedigree	MLB (1-5)	TLB (1-5)	BSDM (1-5)	BLSB (1-5)	SDM (%)	PFSR (1-9)	UDP	LUD	DEL	ESR (%)	P. rust (1-5)
	LUD	MAND	DHAU	DHAU	MAND	HYD				DHAU	MAND
154 HKI-MBR-139-2	2.0	2.0	1.5	4.0	100.0	4.1	5.3	4.1	2.8	55.5	2.0
155 DMR QPM-03-104	4.0	3.5	2.0	4.5	78.50	6.7	3.5	8.6	3.1	45.4	4.5
156 DMRQPM 03-113	4.0	4.5	2.0	4.0	75.00	5.5	5	4.5	3.8	57.1	2.0
157 DMR QPM-03-124	2.5	4.5	2.0	2.0	92.30	6.4	3.3	7.0	2.9	33.3	2.5
158 DMR QPM-58-26	3.0	5.0	2.5	2.5	100.0	6.0	3.7	4.8	2.6	32.8	3.5
159 CML 158	2.5	4.5	1.0	1.5	100.0	3.8	2.4	4.2	1.0	44.4	4.0
160 CML175	3.0	4.5	3.0	1.5	86.8	6.3	4.6	5.0	1.0	50.0	4.5
161 CL-QRCYQ47	2.0	3.5	2.0	1.0	100.0	6.1	2.3	6.2	1.0	12.5	2.5
162 CLQRCYQ-47-B	2.0	3.0	2.0	1.5	100.0	7.2	3.9	6.0	1.0	0.0	2.5
163 CLQ-RCYQ30	2.5	2.5	2.0	2.0	100.0	5.8	3.5	6.4	1.0	21.4	2.0
164 CLQ-RCYQ36	1.5	2.5	2.0	1.0	100.0	7.1	4.8	5.7	2.1	100.0	3.0
165 CLQ-RCYQ41	1.5	2.0	2.0	0.0	100.0	6.5	3.2	3.7	2.6	100.0	2.0
166 CLQ-RCYQ40	1.5	3.0	2.5	1.5	100.0	4.3	2.7	3.3	2.0	8.3	3.5
167 CML 451Q	2.0	2.0	2.0	1.0	100.0	7.3	1.8	5.0	1.8	41.6	3.0
168 DMRQPM 58	2.5	4.0	2.0	1.0	100.0	5.3	3.2	4.6	1.9	36.3	5.0
169 DMRQPM 58	4.0	4.5	2.0	1.5	100.0	6.5	3	4.5	2.0	83.3	3.0
170 HIGH OIL POPULATION II	2.0	2.5	2.5	1.0	100.0	6.8	5	4.4	1.8	33.3	3.0
171 HIGH OIL POPULATION II	2.0	2.5	2.5	4.0	100.0	7.4	5.4	4.2	1.0	69.0	2.0
172 HIGH OIL POPULATION II	2.0	4.5	2.0	3.0	100.0	6.5	4.8	4.7	1.0	62.5	2.5
173 HIGH OIL POPULATION II	2.0	3.5	2.0	1.0	100.0	6.1	4.5	5.2	1.9	85.7	3.5
174 HIGH OIL POPULATION II	2.0	4.0	2.0	1.0	100.0	6.2	*	5.0	2.3	100.0	2.5
175 HKI 3322	2.5	5.0	1.5	0.0	100.0	5.5	4.1	5.8	1.0	66.6	3.5
176 HKI Tall 1-2-F	3.5	3.0	1.5	4.0	100.0	2.1	5.4	3.5	2.0	33.3	5.0
177 HKI Tall-8-1-1	2.5	2.0	1.0	2.0	100.0	4.9	5.9	2.5	3.4	100.0	4.5
178 SHD-1 ER6	4.0	4.0	1.0	1.0	100.0	4.3	5.0	4.0	2.5	0.0	2.0
179 DMHOC 4	4.0	5.0	2.0	1.0	100.0	4.6	5.0	5.0	1.0	25.0	4.5
180 Temp.HOC15	4.5	5.0	2.0	1.5	100.0	5.3	5.4	5.8	6.1	44.4	4.5
181 02POOL 33 C24	4.0	5.0	2.5	1.0	100.0	5.3	6.9	4.8	2.6	12.5	4.5
182 POBLAC 61 C3	2.0	2.5	2.0	1.0	100.0	4.8	5.9	3.5	1.0	80.0	2.5
183 Temp. Trop High oil QPM	3.5	5.0	3.0	1.0	100.0	3.1	3.9	3.5	2.3	71.4	4.5
184 PFSR - R2	3.5	2.5	1.5	1.0	100.0	2.9	4.7	4.7	1.0	50.0	2.5

*Only two seed germinated

Table : 12

S.No. Pedigree	MLB (1-5)		TLB (1-5)		BSDM (1-5)		BLSB (1-5)		SDM (%)		PFSR (1-9)		UDP		LUD		DEL		ESR (%)		P. rust (1-5)	
	LUD	MAND	DHAU	DHAU	DHAU	DHAU	DEL	MAND	HYD	UDP	LUD	DEL	DHAU	MAND	DHAU	MAND						
185 PFSR - R3	2.0	2.5	1.0	2.0	2.0	3.5	72.70	2.4	3.7	4.2	2.6	0.0	3.0	0.0	3.0							
186 PFSR - R9	2.0	2.0	1.0	1.0	2.5	2.5	75.00	2.8	3.8	3.5	1.0	0.0	4.5	0.0	4.5							
187 PFSR - R10	3.0	2.5	2.5	1.0	3.0	3.0	100.0	3.1	3.2	3.7	2.8	33.3	4.5	3.7	4.5							
188 PFSR - R10	3.5	2.0	3.0	1.5	3.0	3.0	100.0	3.9	4.1	3.6	1.0	68.7	4.5	4.1	4.5							
189 PFSR - S2	2.5	2.0	3.0	0.0	3.0	3.0	91.60	3.8	4.7	4.1	1.8	12.5	4.5	4.7	4.5							
190 PFSR - S3	2.0	2.0	1.0	0.0	1.0	3.0	84.60	2.3	2.6	4.0	1.0	0.0	4.5	3.4	4.5							
191 PFSR - S3	2.0	2.5	1.5	2.5	1.0	3.5	84.60	3.1	3	3.4	4.4	0.0	3.0	3	3.0							
192 CM-117-3-2-1-1-1-3	4.5	4.0	1.0	1.0	1.0	3.5	27.20	3.7	2.7	4.8	2.0	81.8	2.0	2.7	2.0							
193 SW-930-313-23-PO-49-64-1-3-1-1-1-2-1-2-1-2-3-1-1-2	2.0	4.0	1.5	0.0	1.5	2.5	80.00	4.7	4.9	3.3	1.8	71.4	2.5	4.9	2.5							
194 JCY2-1-2-1-1B-1-2-3-1-1-1	1.5	2.5	2.0	1.5	2.0	2.5	45.40	2.9	3.2	4.0	1.0	0.0	4.0	3.2	4.0							
195 JCY2-7-1-2-1-B-1-2-1-1	1.5	2.0	2.0	2.0	2.0	3.0	83.30	2.6	3.2	3.7	1.0	18.1	4.5	3.2	4.5							
196 JCY3-7-1-2-1-B-1-1-4-1	2.0	3.0	1.0	1.0	1.0	2.5	100.0	2.8	4.1	3.3	1.0	10.0	4.5	4.1	4.5							
Tank Local (check)	-	-	-	-	-	-	-	-	3.2	-	-	-	-	-	-							
SC CM-500	-	-	-	-	-	-	100.0	-	-	-	-	-	-	-	-							
RC NAC-6004	-	-	-	-	-	-	16.50	-	-	-	-	-	-	-	-							

Table : 13
Evaluation of Maize Genotypes against PFSR at Delhi, Ludhiana, Hyderabad and Udaipur during Kharif 2009.

S.No.	Pedigree	PFSR (1-9)			
		UDP	HYD	LUD	DEL
1	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-1-1	4.0	3.8	4.7	3.5
2	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-2	3.6	5.2	3.3	5.2
3	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-1	3.2	3.4	3.6	3.1
4	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-2	3.0	5.3	5.3	3.1
5	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-2-3-1-3-3	3.5	3.8	5.7	1.0
6	CM-117-3-2-1-1-1-1-2-1	5.3	4.5	4.5	4.3
7	CM-117-3-2-1-1-1-1-2-2	5.0	2.8	5.7	1.0
8	CM-117-3-2-1-1-1-1-5-1	4.3	4.3	5.0	3.3
9	JCY2-2-4-1-1-1-3-1-3-1-2-1	5.0	2.9	4.6	4.3
10	JCY3-7-1-2-1-'b-1-1-2-6-1	4.2	5.8	6.3	3.6
11	JCY3-7-1-2-1-'b-1-1-2-3-1	5.8	4.5	3.7	2.9
12	JCY3-7-1-2-1-'b-1-1-2-3-2	4.5	6.2	4.3	3.5
13	CM-117-3-2-1-1-1-2-2-1	5.0	6.0	4.2	2.4
14	JCY3-7-1-2-1-'b-1-1-2-5-1	2.6	3.0	6.7	5.3
15	JCY3-7-1-2-1-'b-1-1-2-5-2	5.7	5.1	6.5	3.7
16	JCY3-7-1-2-1-'b-1-1-2-5-3	4.7	2.8	4.5	4.0
17	JCY3-7-1-2-1-'b-2-3-2-2-1	2.7	2.6	9.0	2.1
18	JCY3-7-1-2-1-'b-2-3-2-2-2	4.9	3.6	5.0	3.8
19	JCY3-7-1-2-1-'b-2-3-2-3-1	5.2	3.0	5.7	3.4
20	JCY3-7-1-2-1-'b-6-1-1-1-1	2.9	2.8	4.2	3.1
21	JCY2-1-1-'b-1-1-1-3-1	2.5	6.7	6.0	-
22	JCY2-1-1-'b-1-1-1-3-2	3.0	4.0	6.8	2.0
23	KTx3752F2-7-1-1-1-B-B-B-1-1-2-1-1-1-1-1-1	4.1	6.7	5.1	1.9
24	CM-117-3-4-1-1-1	4.6	3.9	4.5	1.0
25	CM-117-3-4-1-1-2	2.7	3.1	5.7	2.5
26	CM-117-3-4-1-1-3	2.8	4.0	4.9	1.0
27	CM-117-3-4-1-1-4	2.7	2.9	5.6	2.2
28	CM-117-3-4-1-2-1	3.5	2.9	5.4	2.8
29	CM-117-3-4-1-2-2	2.7	3.4	6.5	2.1
30	CM-117-3-4-1-2-3	3.2	2.8	5.6	3.5
31	CM-117-3-4-1-2-4	3.7	3.6	4.1	3.8
32	CM-117-3-4-1-2-5	3.9	4.0	4.4	3.3
33	JCY3-7-1-2-1-'b-2-3-2-1-1	5.0	5.9	4.0	4.3
34	JCY3-7-1-2-1-'b-2-3-2-1-2	5.2	5.0	5.4	3.6
35	JCY3-7-1-2-1-'b-2-3-2-1-3	5.2	7.0	5.0	3.2
36	CM-117-3-4-1-5-1	4.8	4.0	4.4	2.6
37	42048-2-1-3-1-1	5.3	5.8	5.7	3.7
38	42048-2-2-1-1-1	4.1	2.7	4.1	1.8
39	42048-2-2-1-1-2	4.1	2.8	3.3	1.8
40	42048-2-2-1-1-3	5.1	4.0	3.0	1.9
41	42049-3-3-1-3-1	4.5	3.1	4.8	1.8
42	42049-3-3-1-3-2	4.2	2.6	4.4	1.7
43	42049-3-3-1-3-3	5.2	5.1	4.7	1.3
44	42050-1-1-1-1	5.2	3.6	3.7	1.2
45	42050-1-1-1-2	5.4	4.9	3.8	2.3
46	42050-1-1-1-3	5.1	6.1	3.8	1.6
47	42050-1-1-2-1	4.1	3.6	3.7	1.3
48	42050-1-1-2-2	5.0	4.3	3.8	2.4
49	42050-1-1-2-3	4.9	2.9	3.5	2.0

Table : 13

S.No.	Pedigree	PFSR (1-9)			
		UDP	HYD	LUD	DEL
50	PFSR-8-2-2-1-1-1-1	5.5	3.9	3.5	1.6
51	PFSR-8-2-2-1-1-1-2	4.2	3.0	4.3	2.3
52	PFSR-8-2-2-1-1-1-3	4.2	3.1	3.9	2.3
53	PFSR-8-2-2-1-1-1-4	4.8	5.0	4.1	2.3
54	PFSR-8-2-2-1-1-1-5	5.2	4.4	3.6	2.7
55	SW-83D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-3-1-2-1-2-1	5.9	6.1	3.0	1.4
56	SW-83D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-3-1-2-1-1-2	7.0	5.8	3.6	2.3
57	JCY3-7-1-2-2-1-3-1-1-2-1-1	6.6	6.0	4.8	3.0
58	JCY3-7-1-2-2-1-3-1-1-2-1-2	6.0	5.9	4.0	1.8
59	JCY3-7-1-2-2-1-3-1-1-2-2-1	6.7	5.8	4.8	1.9
60	JCY3-7-1-2-2-1-3-1-1-2-3-1	4.9	7.2	4.4	2.0
61	JCY3-7-1-2-2-1-3-1-1-2-4-1	4.7	5.3	4.1	1.4
62	JCY3-7-1-2-2-1-3-1-1-2-6-1	5.2	6.4	3.0	1.0
63	JCY3-7-1-2-2-1-3-1-1-2-6-2	3.8	4.9	5.2	1.5
64	JCY3-7-1-2-2-1-3-1-1-2-8-1	4.0	6.4	6.5	1.3
65	JCY3-7-1-2-2-1-3-1-1-2-9-1	5.1	6.1	5.4	1.9
66	JCY3-7-1-2-2-1-3-1-1-2-9-2	6.3	6.5	4.2	1.0
67	JCY3-7-1-2-2-1-3-2-2-1-1	6.6	7.5	4.8	1.4
68	JCY3-7-1-2-2-1-3-2-2-1-2	5.0	7.3	3.6	1.0
69	JCY3-7-1-2-1-'b-1-4-4-2-1	5.5	6.5	3.9	2.0
70	JCY3-7-1-2-1-'b-1-4-4-2-2	4.3	5.1	3.8	1.0
71	JCY3-7-1-2-1-'b-1-1-2-2-1	2.8	5.3	4.7	1.5
72	CM-123-1-1-3-2-1-1	3.9	6.0	5.0	1.0
73	JCY3-7-1-2-2-1-3-1-1-2-7-1-1	6.4	6.2	5.3	1.4
74	JCY3-7-1-2-2-1-3-1-1-2-7-1-2	6.2	5.6	4.3	1.0

Table : 14

Evaluation of Maize Inbred Lines against TLB & Polysora rust at Mandya in Kharif 2009

S.NO	Pedigree	TLB (1-5)	P. rust (1-5)
1	NAI-104-x-2008K	2.0	3.0
2	NAI-125-x-2008K	2.5	2.0
3	NAI-126-#-2008K	2.0	2.0
4	NAI-142-#-2008K	2.0	2.0
5	SKV-6(L)-#-2008K	2.0	2.0
6	SKV-11-#-2008K	2.5	2.0
7	SKV-13-x-2008K	2.0	2.0
8	SKV-19-x-2008K	2.5	2.0
9	HI-55-x-2008K	2.0	2.5
10	CML-247-x-2008K	2.0	1.5
11	NAI-102-#-2008K	2.5	2.0
12	NAI-113-#-2008K	2.0	2.0
13	NAI-117-#-2008K	2.0	2.0
14	NAI-123-#-2008K	2.0	2.0
15	NAI-137-#-2008K	2.5	2.0
16	NAI-149-x-2008K	2.0	2.0
17	NAI-151-x-2008K	2.0	2.5
18	NAI-152-x-2008K	2.5	2.0
19	NAI-154-x-2008K	3.5	2.0
20	NAI-155-x-2008K	2.0	2.0
21	NAI-161-x-2008K	2.0	2.0
22	NAI-162-x-2008K	2.0	2.0
23	NAI-163-x-NA-2008K	2.0	3.0
24	NAI-165-#-NA-2008K	2.0	2.0
25	NAI-167-#-NA-2008K	2.0	2.0
26	SKV-9-x-NA-2008K	3.0	2.0
27	SKV-14-#-NA-2008K	2.0	2.0
28	SKV-18-#-NA-2008K	2.0	4.0
29	SKV-24-#-NA-2008K	2.0	2.0
30	SKV-30-#-NA-2008K	3.0	2.0
31	SKV-47-#-NA-2008K	2.0	2.0
32	MAI-112-#-NA-2008K	2.0	2.0
33	KUI-1411-#-NA-2008K	2.0	2.5

Table : 15

Evaluation of maize genotype (Breeder's seed) against RDM, PFSR, CLS, Cyst Nematod at Udaipur Kharif 2009

S.No	Pedigree	RDM (%)	PFSR (1-9)	CLS (1-5)	Cyst/ plant (n=5)
1	EH-1858	57.9	3.4	4.0	21-28
2	EH-2025	45.8	3.1	4.0	13-19
3	EH-1877	64.0	4.0	4.5	8-Apr
4	ECQ-3152	50.0	3.4	3.5	14-21
5	EH-1986	41.7	5.2	3.0	29-37
6	EH-1971	61.9	3.7	3.5	21-30
7	EH-1974	20.8	3.6	3.0	20-27
8	Pratap Makka-3	66.7	4.5	4.5	38-42
9	Pratap Makka-5	59.1	4.7	3.5	33-45
10	Navjot	52.9	5.0	3.0	28-36
11	Bio-9637	0.0	2.9	2.5	14-22
12	Maloiya Hybrid-2	75.0	4.1	4.0	35-41
13	PEHM-2	83.3	3.4	3.5	36-44
14	Pratap Hibrid Maize-1	76.2	3.1	4.5	21-28
15	Pratap Hibrid Maize-2	91.3	3.0	3.0	14-23
16	EI-116	73.9	4.4	4.5	21-32
17	EI-364	47.4	2.2	4.0	25-31
18	HQPM-1	64.0	2.6	3.5	9-Mar
19	EC-3160	52.2	2.8	4.0	44-52
20	LM-10-WN-1-1-01	0.0	2.0	2.0	28-37
21	DMR-WN-8-01	71.4	4.1	2.0	27-34
22	CML373-2-1-01	45.8	3.4	3.0	38-46
23	C-431-1-1-1-2-1	100.0	2.9	4.0	23-32
24	CML-421y-2-1-1-04	33.3	-	-	15-22
25	EI-497-15-1-1	47.6	2.9	4.0	24-35
26	EI-586-1-1-1	10.0	3.0	2.5	18-Oct
27	EI-466-11-1W-01	84.0	3.4	3.5	21-26
28	EI-495-2-2-1-1	63.1	3.7	3.5	28-36
29	EI-586-7-5-01/02	30.0	3.0	3.0	24-32
30	EI-582-1-01/2-01	15.0	3.6	2.0	15-23
31	EI-581-2-2-01	8.0	1.7	1.5	21-28
32	EI-561-1-2-1-02	53.3	3.3	2.0	13-20
33	EI-480-5-02	92.0	3.2	2.5	27-32
34	H06R-6136-64-1-01A	56.0	3.6	3.5	33-40
35	H06R-3136-68-1-2-01/02	0.0	1.2	2.5	25-33
36	NP06-07R-73-02-3-02A	80.0	2.9	3.5	37-46
37	NP06-07R-74-3-1-01A	91.7	3.4	4.5	50-63
38	NP06-07R-77-2-4-01A	81.2	3.3	4.5	43-51
39	JCY3-7-1-2-2-02A/03A	0.0	2.0	2.5	35-44
40	JCY3-7-1-2-1-6-02	21.7	2.9	3.0	32-41
41	Local(W)	44.0	3.7	3.5	-
42	Surya	79.2	-	-	-
43	PEHM -2	-	-	-	40-47

* No Germination

Table : 16

Seed of selfed inbreds received from DMR (2007) against PFSR at Maize Pathology Unit Udaipur centre again screened in 2009

S. No.	Pedigree	PFSR (1-9)		RDM (%)
		UDP 2007	UDP 2009	UDP 2009
1.	Gen 6014-5	2.0	4.3	73.3
2.	HKI-3-4-8-5ER-1	3.0	4.3	57.1
3.	HKI-287-4	3.0	-	0.0
4.	HKI-323-8-1	2.0	-	100.0
5.	HKI-327T-1	3.0	-	70.0
6.	HKI-488-5	3.0	-	45.4
7.	HKI-536-7	2.0	3.4	0.0
8.	HKI-586-1	1.0	-	80.0
9.	HKI-1015-WG-8-1	3.0	-	81.8
10.	HKI-1025-1	3.0	3.4	58.8
11.	HKI-1040-4-2	3.0	1.4	46.1
12.	HKI-1040-5-2	2.0	3.0	23.4
13.	HKI-1040-11-7	3.0	4.5	83.3
14.	HKI-1532-2	2.0	2.8	0.0
15.	LM-13-3	2.0	2.5	0.0
16.	LTP-1-1	3.0	-	75.0
17.	HVZM-371-2	2.0	2.4	0.0
18.	LM-6-3	2.0	2.4	25.0
19.	LM-14-2	2.0	-	-
20.	P-7421-1	2.0	3.3	0.0
21.	HKI-1342-6	2.0	-	0.0
22.	HKI-C 323-3	3.0	2.0	21.4
23.	CML-269-5	3.0	3.2	0.0
24.	CML-140-3	3.0	2.4	0.0
25.	CML-395-3	3.0	-	0.0
26.	DMSC-1-1	3.0	3.3	0.0
27.	DMSC-2-3	3.0	3.9	6.3
28.	DMSC-4-1	1.0	2.7	11.1
29.	DMSC-5-5	3.0	-	15.4
30.	DMSC-6-1	3.0	-	11.1
31.	DMSC-7-4	3.0	-	17.7
32.	DMSC-8-2	3.0	3.5	25.0
33.	DMSC-16-2	3.0	3.2	14.3
34.	HKI-1827W-1-1	3.0	-	0.0
35.	DMSC-19-2	3.0	-	0.0
36.	DMSC-20-1	2.0	-	71.4
37.	DMSC-22-3	1.0	2.8	0.0
38.	DMSC-23-2	3.0	-	-
39.	DMSC-26-1	2.0	-	-
40.	DMSC-27-2	2.0	-	-
41.	DMSC-29-3	2.0	-	-
42.	DMSC-33-3	3.0	-	-
43.	DMSC-36-1	3.0	2.7	7.7
44.	DMSC-37-3	2.0	-	-
45.	WINPOP-21-5	3.0	6.3	13.3
46.	WINPOP-47-6	1.0	2.1	46.8

Table : 16

S. No.	Pedigree	PFSR	RDM	
		(1-6) UDP 2007	UDP 2009	(%) UDP 2009
47.	HKI-PC-4B-1	1.0	-	41.7
48.	HKI-PC-8-2	3.0	3.2	0.0
49.	HKI-PC-5-8	2.0	2.7	28.7
50.	HKI-PC-8-2	3.0	-	12.5
51.	WINPOP-20-1	3.0	2.9	8.3
52.	HKI-Talar-1	2.0	3.6	13.3
53.	DMHOC-1-4	2.0	2.8	6.7
54.	DMHOC-4-5	3.0	-	-
55.	SHD-1ER8-1	1.0	-	-
56.	HOPII-5	3.0	2.3	0.0
57.	DMHOC-9-3	2.0	2.2	0.0
58.	DMHOC-14-1	2.0	2.8	7.7
59.	DMHOC-15-3	3.0	5.0	15.4
60.	Sukhothai-1-waxy-1-1	3.0	5.6	0.0
61.	ae-40-2	2.0	4.4	13.3
62.	Ent-2-3	3.0	2.8	6.7
63.	WinPink L63-1	3.0	5.3	0.0
64.	JCY3-7-1-2-1-b-2-1-2-1-1	3.0	1.8	15.4
65.	JCY3-7-1-2-1-b-2-1-3-1-1	2.0	1.3	0.0
66.	JCY3-7-1-2-1-b-6-1-2-1-1	2.0	2.6	0.0
67.	CML 31 POB 27 C5 HC-117-1	3.0	3.0	7.4
68.	ESM-11-3	3.0	5.0	15.4
69.	HKI 26-2-4(1-2)-4	2.0	3.3	15.4
70.	HKI-164-4(1-3)-1	2.0	2.6	0.0
71.	HKI-164-7-7 ER4-1	2.0	2.8	33.3
72.	DMRQPM-60-3	3.0	5.5	13.3
73.	DMRQPM-58-1	2.0	3.2	0.0
74.	HKI-34(1+2)-1-1	3.0	4.2	0.0
75.	HKI-162-2	2.0	3.8	80.0
76.	HKI-164-4(1-3)-2-1	3.0	3.7	9.1
77.	HKI-164-7-4-2	1.0	1.9	0.0
78.	HKI-164-7-6 x 161-2	3.0	4.2	6.7
79.	HKI-164-D-4-O-3	1.0	-	-
80.	HKI-191-1-2-5-3	2.0	1.6	0.0
81.	HKI-193-1-3	3.0	2.2	0.0
82.	HKI-193-2-2-4	2.0	1.8	0.0
83.	CML-161-1	2.0	-	-
84.	[CL-G2501 CML170]-3	3.0	2.8	0.0
85.	[CML-161 CML-451]-1	2.0	2.2	40.0
86.	[CML-161 CML-451]-1	3.0	2.5	40.0
87.	HKI-164-4(1-3)-2-2	3.0	-	8.3
88.	CML-451(P2)-3	2.0	-	20.0
89.	(CML-150 x CL-03618)-3	3.0	-	-
90.	HKI MBR-139-2	1.0	3.0	6.7
91.	CML-150-2	2.0	-	16.7
92.	CML-175-3	1.0	3.9	9.1
93.	CML-176-2	3.0	4.0	0.0
94.	CML-157-1	3.0	-	-
95.	WINPOP-28-3	2.0	3.4	40.0

Table: 17 Assessment of yield loss due to FSR caused by *Fusarium moniliforme* under artificial inoculation condition in the experimental field during Kharif 2009 at Udaipur.

	Protected (Kharif-09)					Unprotected (Kharif-09)				
	Disease data	Yield of 5 rows in Kg/plot	Yield in Kg/ha	Loss in yield Kg	Percent loss	Disease data	Yield of 5 rows in Kg/plot	Yield in Kg/ha		
R-1	3.5	1.900	2111.10	722.20	34.20	5.6	1.250	1388.90		
R-2	2.5	2.000	2222.20	555.50	25.00	6.5	1.500	1666.70		
R-3	3.3	2.250	2500.00	1222.20	48.88	4.8	1.150	1277.80		
R-4	2.4	1.800	2000.00	916.70	45.83	5.5	0.975	1083.30		
R-5	3.0	1.975	2194.40	636.80	29.12	6.6	1.400	1555.60		
R-6	2.7	1.675	1861.10	722.20	38.80	6.5	1.025	1136.90		
R-7	1.8	2.050	2277.80	472.20	18.54	5.5	1.625	1805.60		
R-8	2.5	1.950	2166.70	805.60	37.18	4.8	1.225	1361.10		
R-9	2.5	1.750	1944.40	944.40	48.57	5.9	0.900	1000.00		
		Mean	2141.97				Mean	1364.20		
							S.D.(Pooled)	0.113		
							T- value	2.262		
								Significant at 5% = yes		

Table: 18 Assessment of yield loss due to maize leaf blight caused by *Exserohilum turcicum* in different genotypes at Arabhavi.

S.No	Hybrid	Disease grade (1-5 scale)	Plant ht. (cm)	Cob ht. (cm)	Cob length (cm)	Cob diameter (cm)	100 seed wt (g)	grain yield (q/ha)	Percent loss in yield
1	DMH-2	2.0	178.87	87.67	13.03	13.84	36.33	67.81	22.6
	Protected								
	Un Protected	3.8	170	87.67	13.00	13.25	31.33	52.47	
2	EH 434042 (Arjun)	1.5	181	83.33	14.06	13.18	41.33	60.30	7.84
	Protected								
	Un protected	2.8	173	80.66	12.77	13.25	34.66	55.57	
3	Bio 9681	2.2	162	63.67	13.66	13.07	37.33	50.87	16.55
	Protected								
	Un protected	4.2	153	57.66	13.00	12.57	27.66	42.42	

Table: 19 Assessment of yield loss due to PFSR at Hyderabad Centre Kharif, 2009.

Test variety : 30V92
 Treatment : Two
 Design : Paired plot
 No. of Replications : Nine
 Net plot size : 3x3m (5 Rows)

Treatment	PFSR grade (1-9 Scale)	Percent disease control	Average yield (kg/plot)	Percent loss in yield
Protected	4.45	35.41	8.45	20.11
Unprotected	6.89		6.75	

Survey and surveillance 2009

Extensive surveys were conducted under survey and surveillance programme in maize growing areas of Rajasthan, Himachal Pradesh, Karnataka and Tamil Nadu.

In Rajasthan state, a total of 109 fields from 30 places were visited. Most of the major diseases can be seen during the season. During Kharif-09, surveys were conducted in different parts and directions to know the prevalence of the diseases with their intensity. The 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 traces to severe

The incidence of Rajasthan Downy Mildew was found to be severe in Kalaroi, Lohora and moderate in Nai, Fatehnagar. FSR was found to be severe in Choti Undri, Godhana, Lohira, Tula etc. with moderate infection in most of the places surveyed. Maydis leaf blight was uniformly spread in all the areas surveyed with moderate to severe infection. This year because of less average rainfall (524 mm) the intensity of most of the diseases was more. CLS was recorded with severe to moderate in all the fields surveyed. Turicum leaf blight was found to be severe in Kuncholi, while moderate in other places. BSDM occurrence was recorded to be more severe in Kathar to moderate in Kavita, Kadiyan, Tula etc. BLSB remained severe in some pockets like Godhana, Menar and Brown spot was found to be moderate to severe in some places. In the experiments of maize pathology unit under artificial inoculation conditions RDM was found from 0-100% and FSR was of 1.2-8.5(1-9 rating scale) intensity.

In Himanchal Pradesh the maize growing areas of Distt Kullu, Mandi and Sirmour were surveyed. In Distt Sirmour a total of 107 fields from 12 places visited. The prevalent diseases of this area were Turicum leaf blight, Banded leaf and sheath blight, Brown strip Downy Mildew, Erwinia Stalk Rots, Maydis leaf blight, Brown spot and maize rust. The intensity of these diseases varied from locality to locality. The incidence of BLSB and MLB was recorded from severe to moderate in Distt Sirmour whereas the incidence of BSDM and ESR recorded from moderate to traces in same Distt.

In Tamil Nadu, eight places i.e. Nagur, Kallimanthayam, Udumalai, Annuar, Dharapuram, Sencherimalai, Pollachi and Atture comprising 36 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 moderate to severe whereas TLB was recorded in traces. The intensity of Rust was mild.

In Karnataka state five places i.e. Belgaum, Bagalkot, Dharwad, Gadak and Haveri comprising area of 41 hectare, were covered. The disease observations were taken at the grain filling stage. The most prevalent disease of the region was TLB and Downy mildew.

Disease distribution in India as on 2009 K

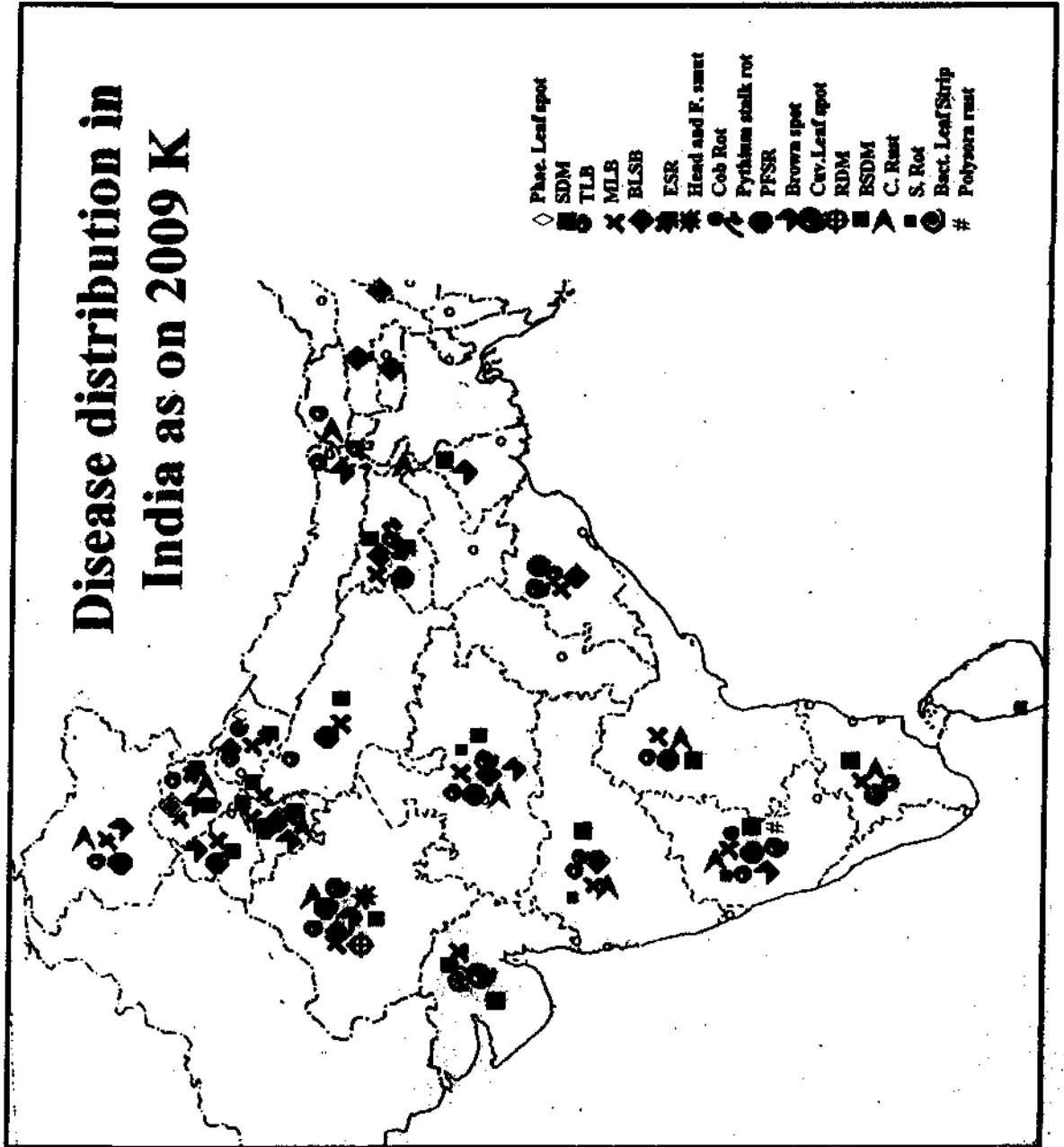


Table: 22 Occurrence of Maize Diseases based on Survey and Surveillance 2009.

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)	+++	++	++	+++				+		++	++		++		
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: 23 Meteorological data (Monthly average) kharif 2009

S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%)		Sunshine Hrs.
			Min	Max		Min	Max	
1	Almora	June	16.8	33.4	1.8	38.7	89.1	7.7
		July	20.9	30.3	30.4	80.8	89.7	5.9
		August	20.5	29.0	46.7	88.5	92.5	5.2
		September	18.2	28.2	53.5	64.9	93.8	5.3
		October	9.2	26.7	18.7	39.8	94.9	7.8
2	Dhaulakuan	June	21.8	39.4	61.4	36.0	61.0	8.9
		July	24.6	32.5	238.8	68.0	91.0	4.7
		August	24.2	31.6	274.2	73.0	93.0	5.3
		September	22.4	30.5	219.0	71.0	92.0	5.8
		October	13.2	29.4	046.0	51.0	91.0	8.9
3	Udaipur	May	26.7	40.6	1.6	18.3	42.5	8.7
		June	25.9	37.4	101.0	35.0	64.2	8.2
		July	24.6	31.6	252.0	73.4	86.8	3.3
		August	23.5	30.3	113.9	74.2	87.5	3.9
		September	22.0	33.8	54.4	51.6	81.8	8.5
		October	16.7	33.5	4.8	28.4	73.7	8.0
4	Hyderabad	June	24.8	36.2	82.0	40.8	72.1	7.4
		July	23.4	32.0	54.0	56.9	80.2	4.2
		August	23.2	31.2	203.7	64.2	81.3	4.6
		September	22.2	31.4	165.5	64.3	90.3	5.7
		October	19.4	31.0	96.0	50.6	84.1	6.7
		November	18.1	29.5	30.2	65.5	82.7	7.0
		December	13.8	28.5	0.0	40.8	85.5	7.8
5	Coimbatore	June	23.6	32.0	0.3	50.0	79.6	7.2
		July	22.8	26.9	2.8	61.9	81.9	3.6
		August	23.0	31.5	1.2	53.2	86.1	6.7
		September	23.0	31.5	3.6	59.1	88.2	6.1
		October	21.8	31.5	7.0	49.1	86.7	3.7
		November	22.1	29.2	5.0	65.6	93.3	8.3
6	Mandya	January	13.6	31.4	-	35.0	90.0	8.0
		February	15.4	34.0	-	30.0	90.0	9.0
		March	18.7	34.1	31.0	34.0	91.0	7.8
		April	21.2	35.4	44.0	34.0	91.0	8.4
		May	21.5	33.6	142.4	41.0	90.0	7.8
		June	20.4	31.5	60.8	46.0	91.0	6.8
		July	20.4	29.2	24.0	56.0	91.0	3.2
		August	20.4	30.3	204.3	51.0	91.0	5.8
		September	20.5	30.0	131.2	52.0	91.0	5.9
		October	18.8	31.0	47.6	49.0	91.0	7.3
		November	19.2	30.9	62.0	50.0	91.0	5.6

S.No	Station Name	Month	Temperature (°C)		Rainfall of Month (mm)	R.H (%) AVG.	Sunshine Hrs.
			Min	Max			
7	Ludhiana	June	25.2	39.9	110.6	45.0	9.9
		July	25.4	33.8	491.1	80.0	7.3
		August	26.9	34.1	118.2	77.0	6.8
		September	23.7	32.7	69.9	77.0	8.4
		October	16.4	31.8	26.2	67.0	8.7
8	Arabhavi	June	21.70	33.30	115.2	76.27	-
		July	22.00	29.00	70.7	83.83	-
		August	22.52	31.09	29.8	61.21	-
		September	22.15	31.38	96.2	78.76	-
		October	21.18	31.63	306.5	72.47	-
		November	17.67	29.70	56.9	78.53	-

Fifty 3rd Annual Progress Report

**Biochemistry
&
Quality**

2009

DIRECTORATE OF MAIZE RESEARCH

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Biochemistry & Quality

1. Evaluation of quality parameters in maize germplasm received from different sources

The protein content of maize kernel depends to a large extent on the endosperm and to a lesser extent on the germ. 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.

A total of 150 inbred lines and hybrids received from different sources were evaluated for protein and tryptophan in protein. The data is presented in Table 1. The range of protein was 8.23 to 17.08 per cent with lowest and highest values being exhibited by the genotypes HKI-164-3(2-1)-1 and WOSC, respectively. About 70 lines were found to be having protein in the range of 8 – 11 per cent, whereas, about 58 lines were having protein in the range of 11 – 12 per cent. Only few lines (22 nos.) were found to contain more than 12 per cent of protein (fig. 1). The range of tryptophan in protein was 0.30 (Vivek Hybrid 27) to 0.94 (HKI-164-3(2-1)-1) per cent. Most of the lines (86 nos.) were found to possess less than 0.6 per cent of tryptophan. About 33 lines were screened for having tryptophan in the range of 0.6 to 0.7 per cent. A similar number of lines were having tryptophan in the range of 0.7 to 0.8 per cent. A very few lines (7 nos.) were found to possess more than 0.8 per cent tryptophan in protein (fig. 2). As many as 54 lines were found to possess more than 9 per cent of protein and more than 0.6 of tryptophan in their protein.

A total of 133 different QPM and normal maize germplasm received from different sources were evaluated for test weight and specific gravity (data presented in Table 1), out of 133, 37 lines were selected for more than 25g/100 grain (Table 1), The range of test weight was 8.16 to 32.99 g/100 grain with lowest and highest values being observed in the genotypes 72584-3 and CLQRCY Q-30 respectively. The range of specific gravity was 0.96 (PEHM 1) to 1.93 (CL Q-G-2507) g/100 grain

Table 1: Evaluation of QPM and normal germplasm for protein & tryptophan analysis

S. No.	Pedigree	Protein (%)	Tryptophan in Protein (%)	Test Weight (g/100 grain)	Specific Gravity
1	HM 4	11.81	0.39	27.60	1.20
2	HM 7	11.59	0.39	20.03	1.27
3	HM 8	11.26	0.36	23.30	1.29
4	HM 9	11.22	0.35	23.30	1.16

5	HM 10	12.30	0.39	27.10	1.19
6	HQPM 1	11.40	0.72	20.03	1.26
7	HQPM 3	11.50	0.70	25.00	1.14
8	HQPM 4	10.81	0.61	27.00	1.13
9	HQPM 7	11.10	0.63	25.40	1.15
10	Shaktiman 3	10.74	0.61	21.20	1.18
11	Shaktiman 4	11.34	0.74	29.90	1.30
12	HQPM 6	10.64	0.64	27.20	1.30
13	HQPM 8	10.34	0.77	26.00	1.30
14	Buland	12.79	0.36	21.00	1.31
15	Vivek Hybrid 25	11.80	0.32	22.50	1.25
16	Vivek Hybrid 27	11.62	0.30	18.90	1.26
17	Prakash	11.72	0.46	23.70	1.19
18	PHM 1	12.28	0.37	28.80	1.15
19	PHM 2	11.74	0.32	22.90	1.27
20	FH 3356	11.47	0.30	26.70	1.16
21	PAU 352	12.24	0.38	26.40	1.26
22	JH 3459	11.59	0.34	24.90	1.31
23	PEHM 1	11.41	0.36	14.80	0.96
24	CLQRCYQ-47-B	12.51	0.30	26.60	1.26
25	CLQRCYQ-30	11.38	0.50	21.30	1.25
26	CLQRCYQ-28	9.50	0.69	32.30	1.24
27	CLQRCYQ-28	11.02	0.63	21.10	1.09
28	CLQRCYQ-41	9.65	0.65	18.80	1.09
29	CLQ 315	11.28	0.51	19.80	1.17
30	LM 14	11.83	0.44	25.10	1.23
31	HKI-1105	11.11	0.45	16.40	1.09
32	HKI-1128	12.34	0.42	14.00	1.09
33	HKI-1128	10.55	0.49	17.50	1.16
34	LM-13-3	12.04	0.45	22.30	1.13
35	CM 124	12.76	0.36	15.60	1.12
36	HKI 17-2	9.85	0.64	19.70	1.23
37	HKI 31-2	9.25	0.77	12.70	1.13
38	HKI-34 (1+2)-1	9.73	0.65	15.20	1.04
39	HKI-162-2	10.98	0.45	16.20	1.33
40	HKI-164-4-(1-3)-2	10.10	0.69	16.90	1.08
41	HKI-164-3(2-1)-1	9.45	0.81	17.30	1.16
42	HKI-164-4-(1-3)-2-2	9.10	0.80	17.40	1.17
43	HKI-164-4-(1-3)	8.75	0.80	13.00	1.17
44	HKI-164-4-(1-3)-2	12.16	0.34	23.70	1.09
45	HKI-164-4-(1-3)-2	10.85	0.71	19.40	1.12
46	HKI-164-3(2-1)-1	8.23	0.94	16.10	1.08
47	HKI-164-D-3-3-2	11.20	0.60	14.30	1.12
48	HKI-164-7-7 ER2	10.00	0.60	17.80	1.14
49	HKI-164-7-6x161	10.10	0.62	19.50	1.13

50	HKI-164-7-2	9.98	0.67	18.50	1.16
51	HKI-164-7-6x161-2	11.00	0.67	18.20	1.07
52	HKI-193-2-2	11.99	0.62	18.00	1.13
53	HKI-5072-2BT	12.10	0.66	17.50	1.09
54	CML - 165	12.25	0.49	19.00	1.89
55	CML - 167	8.93	0.68	21.50	1.26
56	CML - 171	9.98	0.57	18.30	1.22
57	CML - 172	9.98	0.49	19.40	1.21
58	DMR-QPM-03-113	9.98	0.64	16.60	1.19
59	DMR-QPM-58-26	10.50	0.61	21.20	1.18
60	CML 157	9.19	0.44	20.90	1.16
61	CLQRCYQ-47	10.00	0.38	23.50	1.18
62	CLQRCYQ-47-B	9.29	0.43	22.00	1.1
63	CLQRCYQ-30	11.04	0.31	31.00	1.19
64	CLQRCYQ-41	9.17	0.69	18.90	1.18
65	CLQG-2507	9.29	0.43	19.10	1.93
66	DMR-QPM 58	11.11	0.60	22.50	1.25
67	HKI-193-2-2	8.97	0.33	19.58	1.09
68	CLQRCYQ-47-B	8.62	0.58	22.05	1.16
69	CLQRCYQ-30	9.67	0.51	32.99	1.14
70	DMRQPM-58	9.29	0.66	21.62	1.08
71	Pinnacle	11.00	0.63	20.00	1.25
72	DHM 111	11.03	0.61	28.40	1.29
73	MASQPM CM-137-2985-3	10.35	0.41	25.20	1.40
74	MASQPM CM-138-2989-2	10.92	0.30	20.20	1.15
75	MASQPM CM-150-2992-3	13.00	0.31	15.20	1.08
76	MASQPM CM-140-2999-3	12.78	0.40	11.50	1.15
77	MASQPM CM-151-3004-1	9.44	0.54	24.50	1.23
78	HKI-193-1-2961	8.35	0.77	18.20	1.21
79	DMRQPM-58-MAP-174	11.86	0.39	27.40	1.25
80	DMRQPM-28-MAP-175 (3135)	11.47	0.58	21.40	1.34
81	VOL-1-MAP-118-(3185)	11.19	0.41	20.50	1.14
82	VOL-5-MAP-161 (3097)	11.45	0.40	17.00	1.21
83	CM-212-MAP-176 (3142)	10.60	0.48	21.60	1.20
84	CM-140-MAP-106	10.62	0.48	12.00	1.20
85	HOP II 2601	12.02	0.57	17.30	1.08
86	SHD-IER6 2627	9.32	0.60	27.90	1.27
87	HKI-536 (CHECK)	13.39	0.34	26.50	1.10

88	HQPM 1	10.16	0.68	18.84	1.35
89	Prakash	10.61	0.34	21.55	1.35
90	Vivek Hybrid 17	8.98	0.37	27.70	1.16
91	African Tall	9.00	0.40	28.08	1.28
92	HM 5	10.78	0.37	31.22	1.20
93	HQPM 5	9.67	0.66	29.58	1.24
94	CML - 73	10.30	0.38	24.14	1.20
95	CML - 259	11.43	0.29	25.05	1.30
96	CML - 41	10.98	0.33	26.86	1.23
97	CML - 101	10.24	0.38	31.17	1.29
98	V 341	9.24	0.52	21.77	1.33
99	HKI-163	9.04	0.67	17.05	1.07
100	HKI-193	9.67	0.80	18.69	1.33
101	WIN-POP	13.67	0.34	14.85	1.06
102	WOSC	13.64	0.40	14.47	1.03
103	Hybrid-9471	9.67	0.47	24.24	1.35
104	2568	11.50	0.41	13.66	1.36
105	2575	11.49	0.41	15.08	1.25
106	2577	9.12	0.50	21.59	1.34
107	72291-5	9.31	0.55	20.49	1.27
108	72313-1	9.70	0.65	19.36	1.07
109	72318-10	10.71	0.57	17.43	1.24
110	72324-9-13	9.05	0.55	22.84	1.20
111	72329-2	9.50	0.64	15.66	1.30
112	72460-1	11.61	0.31	16.03	1.23
113	72508-7	9.35	0.58	15.65	1.11
114	72582-14	10.07	0.33	13.56	1.12
115	72584-3	15.19	0.33	8.16	1.08
116	72817-2	11.94	0.30	21.99	1.09
117	72827-2	11.35	0.32	25.92	1.17
118	DHM-111 (Biocontrol)	11.38	0.65	27.50	1.15
119	DHM-111 Non toxin salt (A.Bicarbonate)	11.10	0.33	27.50	1.25
120	DHM-111 Non toxin (<i>A.flavus</i>)	11.51	0.60	26.20	1.31
121	DHM-111 check	11.16	0.47	29.10	1.21
122	Pinnacle (Biocontrol)	11.79	0.43	18.80	1.18
123	Pinnacle Non toxin salt (A.Bicarbonate)	11.81	0.56	20.00	1.25
124	Pinnacle Non toxin (<i>A.flavus</i>)	11.65	0.56	17.60	1.26
125	Pinnacle- check	11.90	0.55	24.00	1.20
126	Control-DHM-111	10.76	0.31	29.20	1.22
127	Malviya Makka	10.47	0.40	25.40	1.15
128	Navjot	9.91	0.45	16.10	1.00

129	Parkash	9.17	0.46	15.40	1.10
130	HQPM-1	9.10	0.69	22.80	1.14
131	HQPM-5	9.49	0.66	28.20	1.08
132	X 1280	9.03	0.39	31.00	1.55
133	Bio 9681	9.19 _{ss}	0.44	24.70	1.02
134	Sagam L-1	11.06	0.61		
135	Sagam L-2	11.22	0.71		
136	Sagam L-3	10.67	0.75		
137	Pratap Makka 5	11.55	0.39		
138	QPM 9	10.69	0.71		
139	PMH 3	12.49	0.41		
140	HM 5	12.13	0.40		
141	R 1	13.48	0.33		
142	R 2	12.69	0.32		
143	QPM R 1	12.50	0.73		
144	QPM R 2	12.08	0.78		
145	Navalram	10.34	0.70		
146	Kapilesh Kunwar	9.75	0.80		
147	Shankar Shah	10.82	0.87		
148	Ganesh Kunwar	11.04	0.85		
149	HQPM 1	11.05	0.77		
150	Shaktiman IV	11.15	0.76		

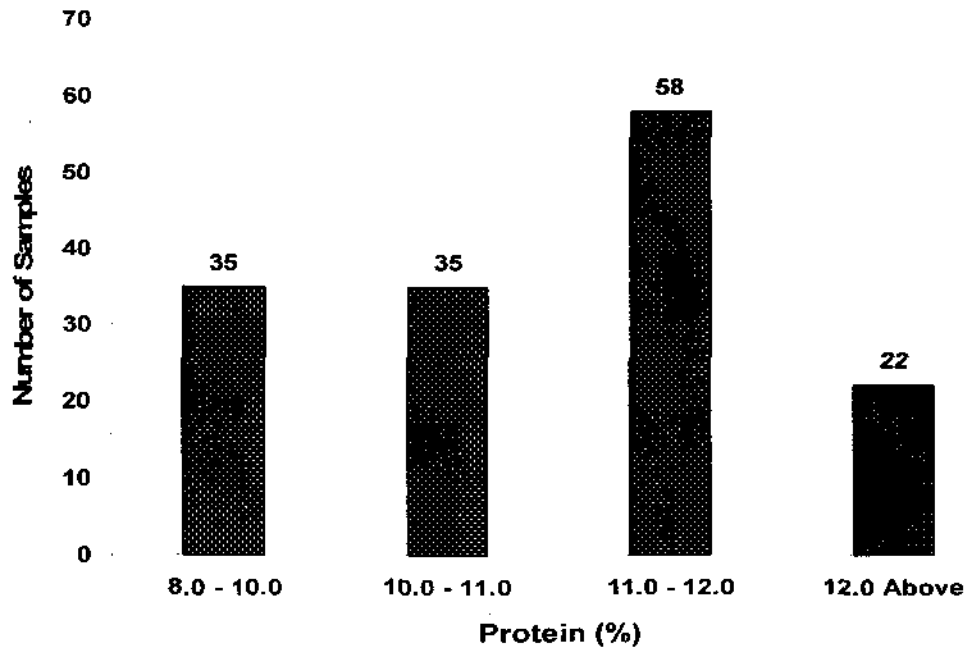


Fig1: Distribution of lines for protein content

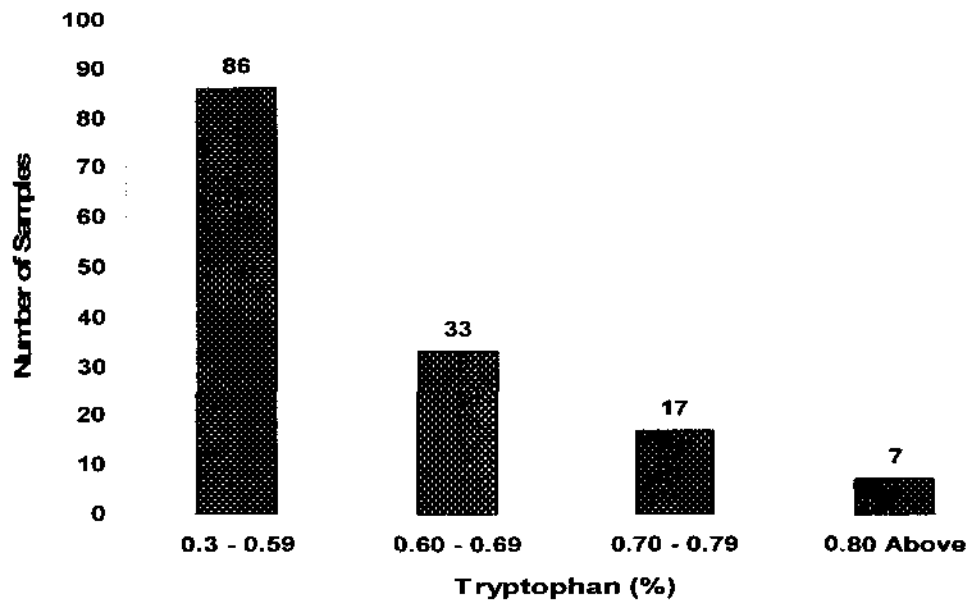


Fig 2: Distribution of lines for tryptophan conten

2. Evaluation of maize germplasm received from different sources for lysine estimation

A total of 38 samples were analyzed for lysine content. The range of lysine varied from 1.03 (R1) to 3.51 (Shankar Shah) per cent. As may as 20 lines were having lysine in the range 1 to 2 per cent. About 13 lines were having lysine in the range of 2 to 3 per cent, whereas, only 5 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 received from different sources for lysine estimation

S. No.	Pedigree	Protein (%)	Try in protein (%)	Lysine in protein (%)
1	HM 4	11.81	0.39	1.14
2	HM 7	11.59	0.39	1.18
3	HM 8	11.26	0.36	1.42
4	HM 9	11.22	0.35	1.57
5	HM 10	12.30	0.39	1.30
6	HQPM 1	11.40	0.72	2.60
7	HQPM 3	11.50	0.70	2.54
8	HQPM 4	10.81	0.61	2.96
9	HQPM 7	11.10	0.63	2.25
10	Shaktiman 3	10.74	0.61	2.28
11	Shaktiman 4	11.34	0.74	2.50
12	HQPM 6	10.64	0.64	2.28
13	HQPM 8	10.34	0.77	2.58
14	Buland	12.79	0.36	1.41
15	Vivek Hybrid 25	11.80	0.32	1.53
16	Vivek Hybrid 27	11.62	0.30	1.56
17	Prakash	11.72	0.46	1.72
18	PHM 1	12.28	0.37	1.30
19	PHM 2	11.74	0.32	1.54
20	FH 3356	11.47	0.30	1.58
21	PAU-352	12.24	0.38	1.82
22	JH 3459	11.59	0.34	1.74
23	PEHM 1	11.41	0.36	1.77
24	Sagam L-1	11.06	0.61	2.40
25	Sagam L-2	11.22	0.71	3.00
26	Sagam L-3	10.67	0.75	3.50
27	Pratap Makka 5	11.55	0.39	1.39
28	QPM 9	10.69	0.71	3.12
29	PMH 3	12.49	0.41	1.79
30	HM 5	12.13	0.40	1.67
31	R 1	13.48	0.33	1.03

32	R 2	12.69	0.32	1.26
33	QPM R-1	12.50	0.73	2.31
34	QPM R-2	12.08	0.78	2.57
35	Navalram	10.34	0.70	2.57
36	Kapilesh Kunwar	9.75	0.80	2.96
37	Shankar Shah	10.82	0.87	3.51
38	Ganesh Kunwar	11.04	0.85	3.23

Table 3: Most promising lines

S. No.	Pedigree	Protein (%)	Try in Protein (%)	Lysine in Protein (%)
1	HQPM 1	11.10	0.72	2.60
2	HQPM 3	11.50	0.70	2.54
3	HQPM 4	10.81	0.61	2.96
4	HKI-193	10.23	0.75	2.90
5	Shaktiman 4	11.15	0.76	2.50
6	HQPM 8	10.34	0.74	2.58
7	QPM-R-1	12.50	0.73	2.31
8	QPM-R-2	12.08	0.78	2.57
9	HKI-164-4-(1-3)-2-2	9.10	0.80	3.50
10	HKI-164-3(2-1)-1	9.45	0.81	3.64

3. Evaluation of maize germplasm received from different sources for oil estimation

The oil content of the maize kernel comes mainly from the germ. Maize oil 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 a waste product in glucose factories and corn mills, however, nowadays there is a great demand for high oil corn by these industries. Therefore, breeding for higher and better oil corn is an important aspect of maize development program.

A total of 133 different QPM and normal maize germplasm received from different sources were analyzed for oil content. The data is presented in Table 4. The range of oil content varied from 3.01 (Pratap Makka 5) to 12.09 (WOSC) per cent, Most of lines were in the range of 3 to 5 per cent, whereas only 7 lines were found to contain more than 6 per cent oil. Some most promising lines for oil content are given in Table 5.

Table 4: Evaluation of QPM and normal germplasm received from different sources for oil estimation

S. No.	Pedigree	Oil on dry wt. basis (%)
1	HM 4	3.52
2	HM 7	3.25
3	HM 8	3.55
4	HM 9	3.79
5	HM 10	4.00
6	HQPM 1	3.37
7	HQPM 3	4.22
8	HQPM 4	3.34
9	HQPM 7	4.25
10	Shaktiman 3	3.37
11	Shaktiman 4	3.76
12	HQPM 6	5.36
13	HQPM 8	4.60
14	Buland	3.87
15	Vivek Hybrid 25	3.54
16	Vivek Hybrid 27	3.30
17	Prakash	3.72
18	PHM 1	3.50
19	PHM 2	3.74
20	FH 3356	3.49
21	PAU 352	4.42
22	JH 3459	3.96
23	PEHM 1	4.98
24	Sagam L-1	3.39

25	Sagam L-2	3.33
26	Sagam L-3	3.45
27	Pratap Makka 5	3.01
28	QPM 9	3.78
29	PMH 3	4.40
30	HM 5	3.87
31	Navalram	4.51
32	Kapilesh Kunwar	4.70
33	Shankar Shah	5.91
34	Ganesh Kunwar	5.20
35	CLQRCYQ-47-B	3.80
36	CLQRCYQ-30	3.90
37	CLQRCYQ-28	5.42
38	CLQRCYQ-28	5.50
39	CLQRCYQ-41	5.25
40	CLQ-315	5.51
41	LM 14	5.73
42	HKI-1105	4.71
43	HKI-1128	4.95
44	HKI-1128	4.52
45	LM-13-3	4.95
46	CM-124	6.46
47	HKI-17-2	6.06
48	HKI-31-2	5.87
49	HKI-34 (1+2)-1	4.49
50	HKI-162-2	6.18
51	HKI-164-4-(1-3)-2	5.87
52	HKI-164-3(2-1)-1	5.07
53	HKI-164-4-(1-3)-2-2	3.60
54	HKI-164-4-(1-3)	3.30
55	HKI-164-4-(1-3)-2	3.20
56	HKI-164-4-(1-3)-2	6.0
57	HKI-164-3(2-1)-1	4.78
58	HKI-164-D-3-3-2	4.96
59	HKI-164-7-7 ER2	5.72
60	HKI-164-7-6x161	4.95
61	HKI-164-7-2	5.05
62	HKI-164-7-6x161-2	4.20
63	HKI-193-2-2	5.26
64	HKI-5072-2BT	5.80
65	CML-165	6.0
66	CML-167	5.46
67	CML-171	5.70
68	CML-172	6.60
69	DMR-QPM-03-113	5.84

70	DMR-QPM-58-26	5.50
71	CML-157	5.81
72	CLQRCYQ-47	3.40
73	CLQRCYQ-47-B	4.49
74	CLQ-RCYQ-30	4.45
75	CLQ-RCYQ-41	3.83
76	CLQ-G-2507	5.40
77	DMR-QPM 58	4.90
78	HKI-193-2-2	3.70
79	CLQRCYQ-47-B	3.00
80	CLQRCY Q-30	3.50
81	DMR-QPM-58	4.70
82	HKI-3322	4.44
83	Temp.Trop high oil QPM	4.44
84	HQPM 1	3.45
85	Shaktiman IV	3.13
86	Pinnacle	4.06
87	DHM 111	4.19
88	HQPM 1	4.54
89	Prakash	4.18
90	Vivek Hybrid 17	4.34
91	African Tall	5.14
92	HM 5	3.58
93	HQPM 5	4.85
94	CML-73	3.10
95	CML-259	4.00
96	CML-41	5.12
97	CML-101	3.65
98	V-341	3.46
99	HKI-163	3.83
100	HKI-193	5.48
101	WIN - POP	3.26
102	WOSC	12.09
103	Hybrid-9471	3.78
104	2568	3.74
105	2575	4.25
106	2577	4.67
107	72291-5	5.61
108	72313-1	3.92
109	72318-10	4.62
110	72324-9-13	4.38
111	72329-2	4.50
112	72460-1	3.65
113	72508-7	4.93
114	72582-14	4.00

115	72584-3	4.50
116	72817-2	4.28
117	72827-2	4.31
118	DHM 111 (Biocontrol)	4.98
119	DHM 111 Non toxin salt (A.Bicarbonate)	3.55
120	DHM 111 Non toxin (<i>A.flavus</i>)	3.52
121	DHM 111 check	4.22
122	Pinnacle (Biocontrol)	5.54
123	Pinnacle Non toxin salt (A.Bicarbonate)	4.16
124	Pinnacle Non toxin (<i>A.flavus</i>)	3.87
125	Pinnacle- check	4.41
126	Control DHM 111	4.00
127	Malviya Makka	4.27
128	Navjot	4.20
129	Parkash	4.13
130	HQPM 1	4.97
131	HQPM 5	4.62
132	X-1280	4.03
133	Bio 9681	3.10

Table 5: Most promising lines with higher oil content

S. No.	Pedigree	Oil on dry wt. basis (%)
1	CM 124	6.24
2	HKI-17-2	6.06
3	HKI-162-2	6.18
4	HKI-164-4-(1-3)-2	6.00
5	CML - 165	6.00
6	CML - 172	6.60
7	WOSC	12.09

4. Evaluation of maize germplasm received from different sources for sugar estimation

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 3 per cent of the kernel weight with sucrose as the major component. Higher levels of monosaccharide and disaccharides are present in maturing kernels. At 2 weeks after pollination the sugar content is relatively high, while starch is low. As the kernel matures, the sugar declines and the starch increases. The relatively higher levels of reducing sugar and sucrose are possibly the reason why immature common maize and even more, sweet corn maize, are so well liked by the people.

A total of 149 inbred and maize germplasm lines received from different sources were analyzed for sugar content (Table 6). The range of sugar varied from 3.14 to 20.40 per cent with lowest and highest values being observed by the genotypes FH- 3356 and CUBA-379, respectively. However, most of the genotypes were found to be having sugar in the range of 3 to 6 per cent. Out of 149, 27 lines were found to possess more than 6 per cent sugar. Some most promising lines with higher sugar content are presented in Table 7.

Table 6: Evaluation of QPM and normal germplasm for sugar estimation

S. No.	Pedigree	Sugar (%)
1	HM 4	3.34
2	HM 7	3.34
3	HM 8	3.52
4	HM 9	3.47
5	HM 10	3.73
6	HQPM 1	4.73
7	HQPM 3	4.41
8	HQPM 4	3.89
9	HQPM 7	5.34
10	Shaktiman 3	3.54
11	Shaktiman 4	4.11
12	HQPM 6	4.56
13	HQPM 8	3.49
14	Buland	3.85
15	Vivek Hybrid 25	3.33
16	Vivek Hybrid 27	3.41
17	Prakash	3.50
18	PHM 1	3.78
19	PHM 2	3.51
20	FH 3356	3.14
21	PAU 352	3.47
22	JH 3459	3.28
23	PEHM 1	3.69
24	Sagam L-1	4.70
25	Sagam L-2	4.42
26	Sagam L-3	3.66

27	Pratap Makka 5	3.45
28	QPM 9	4.13
29	PMH 3	3.59
30	HM 5	4.29
31	Navalram	4.45
32	Kapilesh Kunwar	6.97
33	Shankar Shah	5.19
34	Ganesh Kunwar	8.66
35	CLQRCYQ-47-B	4.70
36	CLQRCYQ-30	5.24
37	CLQRCYQ-28	4.41
38	CLQRCYQ-28	4.67
39	CLQRCYQ-41	4.12
40	CLQ-315	4.48
41	LM 14	5.27
42	HKI-1105	4.35
43	HKI-1128	4.86
44	HKI-1128	4.61
45	LM-13-3	5.60
46	CM 124	5.06
47	HKI-17-2	3.77
48	HKI-31-2	6.36
49	HKI-34 (1+2)-1	3.93
50	HKI-162-2	3.46
51	HKI-164-4-(1-3)-2	5.48
52	HKI-164-3(2-1)-1	7.75
53	HKI-164-4-(1-3)-2-2	5.61
54	HKI-164-4-(1-3)	4.89
55	HKI-164-4-(1-3)-2	5.70
56	HKI-164-4-(1-3)-2	8.01
57	HKI-164-3(2-1)-1	8.36
58	HKI-164-D-3-3-2	4.53
59	HKI-164-7-7 ER2	4.96
60	HKI-164-7-6x161	5.90
61	HKI-164-7-2	4.95
62	HKI-164-7-6x161-2	5.39
63	HKI-193-2-2	6.06
64	HKI-5072-2BT	4.12
65	CML - 165	3.90
66	CML - 167	3.48
67	CML - 171	3.64
68	CML - 172	3.72
69	DMR-QPM 03-113	4.87
70	DMR-QPM 58-26	4.10
71	CML-157	3.83
72	CL-QRCYQ-47	6.03
73	CLQRCYQ-47-B	4.48

74	CLQ-RCYQ-30	4.90
75	CLQ-RCYQ-41	5.70
76	CLQ-G-2507	4.08
77	DMR-QPM 58	5.24
78	HKI-193-2-2	3.99
79	CLQRCYQ-47-B	4.51
80	CLQRCY Q30	5.17
81	DMR-QPM 58	4.76
82	HSSW (HS)C1 F3 (SH2SH2)	8.40
83	Insec 2 (k4)	12.46
84	Insec 2 (k4) 'Insee 2 (k4)	8.87
85	Mas madu (sh2 sh2)	12.46
86	NSS2 W9301 A (SH2SH2)	8.71
87	Sweet Corn INsec (k4)	7.60
88	Min Sweet Corn	7.13
89	WSCI XNSS2W9301A	7.24
90	1 Priya X NSS@ W 9301 A	8.71
91	951-3	6.32
92	951-7	6.92
93	Dulce Amanillo (susu) Dulee Blanco(susu)	14.26
94	Min Sweet	10.20
95	CUBA 379	20.40
96	DMSC 3	11.78
97	DDMSC-4-1 DR 10	9.04
98	DMSC 16	5.64
99	DMSC 16	4.53
100	HQPM 1	3.76
101	Shaktiman IV	3.78
102	Pinnacle	4.18
103	DHM 111	3.95
104	HQPM 1	3.41
105	Prakash	4.18
106	Vivek Hybrid 17	5.21
107	African Tall	5.34
108	HM 5	5.04
109	HQPM 5	3.97
110	CML - 73	5.16
111	CML - 259	5.54
112	CML - 41	5.31
113	CML - 101	4.86
114	V 341	4.03
115	HKI-163	5.70
116	HKI-193	7.75
117	WIN - POP	5.68
118	WOSC	13.42
119	Hybrid-9471	4.88
120	2568	4.53

121	2575	4.22
122	2577	4.06
123	72291-5	5.80
124	72313-1	3.74
125	72318-10	3.85
126	72324-9-13	3.29
127	72329-2	3.44
128	72460-1	3.74
129	72508-7	4.17
130	72582-14	4.71
131	72584-3	6.51
132	72817-2	4.53
133	72827-2	3.85
134	DHM 111 (Biocontrol)	3.88
135	DHM 111 Non toxin salt (A.Bicarbonate)	3.95
136	DHM 111 Non toxin (<i>A.flavus</i>)	4.03
137	DHM 111 check	3.98
138	Pinnacle (Biocontrol)	4.08
139	Pinnacle Non toxin salt (A.Bicarbonate)	4.05
140	Pinnacle Non toxin (<i>A.flavus</i>)	4.18
141	Pinnacle- check	4.18
142	Control DHM 111	3.90
143	Malviya Makka	3.70
144	Navjot	3.06
145	Parkash	3.31
146	HQPM 1	3.37
147	HQPM 5	3.97
148	X 1280	4.10
149	Bio 9681	4.28

Table 7: Most promising lines with higher sugar content

S. No.	Pedigree	Sugar (%)
1	Insec 2 (k4)	12.46
2	Mas Madu (sh2 sh2)	12.46
3	Dulce Amanillo (susu) Dulee Blaneo(susu)	14.26
4	Min Sweet	10.20
5	CUBA 379	20.40
6	DMSC	11.78
7	WOSC	13.42

5. Evaluation of maize germplasm for starch and carbohydrates estimation received from different sources

The major chemical component of maize kernel is starch, which provides around 70 per cent of kernel weight. Starch is defined as the polymeric carbohydrate consisting of glucose unit joined together through α - D (1- 4) glucoside bonds. The starch in maize is made up of two glucose polymers, amylose, an essential linear molecule and amylopectin a branched form. Corn endosperm contains in an appropriate ratio of three parts of amylopectin to one part of amylose. Waxy maize contains a starch that is 100 per cent amylopectin. An endosperm mutant called amylose extender induces an increase in the amylose proportion of the starch upto 50 per cent and higher.

A total of 90 different QPM & normal maize germplasm received from different sources, were analyzed for starch content (data presented in Table 8). The range of starch varied from 58.94 to 72.72 per cent with lowest and highest values being observed in the genotype HKI-31-2 and Buland, respectively. Out of ninety, forty-two lines were found to be having more than 70 per cent of starch (Table 9).

Data in Table 10 presents the values of waxy and amylose extender lines for carbohydrate profile. A total of 31 different waxy and amylose extender lines received from different sources were analyzed for starch, amylose in starch and amylopectin in starch. The range of amylose in starch varied from 2.81 to 55.82 per cent with lowest and highest values being observed in the genotypes EC 620071 and African Tall: White dent, respectively. Amylopectin content in starch ranges from 44.18 (African Tall: White dent) to 97.19 (EC 620071) per cent. As many as 15 lines were found to be having > 80% amylopectin in starch.

Table 8: Evaluation of QPM and normal germplasm received from different sources for starch estimation

S. No.	Pedigree	Starch (%)
1	HM 4	70.30
2	HM 7	71.24
3	HM 8	70.32
4	HM 9	69.70
5	HM 10	71.33
6	HQPM 1	69.34
7	HQPM 3	68.80
8	HQPM 4	67.73
9	HQPM 7	67.91
10	Shaktiman 3	68.54
11	Shaktiman 4	69.56
12	HQPM 6	68.44
13	HQPM 8	67.67
14	Buland	72.72
15	Vivek Hybrid 25	71.34
16	Vivek Hybrid 27	71.16

17	Prakash	71.46
18	PHM 1	70.81
19	PHM 2	70.36
20	FH 3356	71.18
21	PAU 352	71.03
22	JH 3459	70.04
23	PEHM 1	69.71
24	CLQRCYQ-47-B	69.22
25	CLQRCYQ-30	66.21
26	CLQRCYQ-28	70.11
27	CLQRCYQ-28	68.75
28	CLQRCYQ-41	70.42
29	CLQ 315	70.71
30	LM 14	68.30
31	HKI-1105	70.26
32	HKI-1128	71.06
33	HKI-1128	69.50
34	LM-13-3	69.84
35	CM 124	67.71
36	HKI-17-2	69.33
37	HKI-31-2	58.94
38	HKI-34 (1+2)-1	70.42
39	HKI-162-2	69.91
40	HKI-164-4-(1-3)-2	69.29
41	HKI-164-3(2-1)-1	69.18
42	HKI-164-4-(1-3)-2-2	65.46
43	HKI-164-4-(1-3)	61.69
44	HKI-164-4-(1-3)-2	67.71
45	HKI-164-4-(1-3)-2	70.33
46	HKI-164-3(2-1)-1	69.35
47	HKI-164-D-3-3-2	72.00
48	HKI-164-7-7 ER2	71.00
49	HKI-164-7-6x161	69.48
50	HKI-164-7-2	69.37
51	HKI-164-7-6x161-2	62.45
52	HKI-193-2-2	69.88
53	HKI-5072-2BT	64.22
54	CML - 165	69.46
55	CML - 167	69.33
56	CML - 171	68.70
57	CML - 172	68.21
58	DMR-QPM 03-113	69.80
59	DMR-QPM 58-26	70.20
60	CML - 157	68.08
61	CL-QRCYQ-47	70.72

62	CLQRCYQ-47-B	69.67
63	CLQ-RCYQ-30	66.96
64	CL Q-RCYQ-41	66.21
65	CL Q-G-2507	69.03
66	DMR-QPM 58	66.21
67	HKI-193-2-2	72.23
68	CLQRCYQ-47-B	72.33
69	CLQRCY Q30	67.71
70	DMR-QPM 58	72.23
71	HQPM 1	69.25
72	Shaktiman IV	68.71
73	Pinnacle	70.65
74	DHM-111	70.54
75	DHM-111 (Biocontrol)	70.70
76	DHM-111 Non toxin salt (A.Bicarbonate)	70.80
77	DHM-111 Non toxin (<i>A.flavus</i>)	70.16
78	DHM-111-check	71.17
79	Pinnacle (Biocontrol)	71.04
80	Pinnacle Non toxin salt (A.Bicarbonate)	71.45
81	Pinnacle Non toxin (<i>A.flavus</i>)	70.70
82	Pinnacle- check	70.40
83	Control DHM-111	70.18
84	Malviya Makka	70.82
85	Navjot	68.56
86	Parkash	69.87
87	HQPM 1	70.53
88	HQPM 5	69.79
89	X 1280	71.27
90	Bio 9681	70.46

Table 9: Germplasm having more than 70 per cent starch content

S. No.	Pedigree	Starch (%)
1	HM 4	70.30
2	HM 7	71.24
3	HM 8	70.32
4	HM 10	72.72
5	Buland	72.72
6	Vivek Hybrid 25	71.34
7	Vivek Hybrid 27	71.16
8	Prakash	71.46
9	PHM 1	70.81
10	PHM 2	70.36
11	FH 3356	71.18

12	PAU 352	71.03
13	JH 3459	70.04
14	CLQRCYQ - 28	70.11
15	CLQRCYQ - 41	70.42
16	CLQ 315	70.71
17	HKI-1105	70.26
18	HKI-1128	71.06
19	HKI-34 (1+2)-1	70.42
20	HKI-164-4-(1-3)-2	70.33
21	HKI-164-D-3-3-2	72.00
22	HKI-164-7-7 ER2	71.00
23	DMR QPM-58-26	70.20
24	CL-QRCYQ-47	70.72
25	HKI-193-2-2	72.23
26	CLQRCYQ-47-B	72.33
27	DMR-QPM 58	72.23
28	Pinnacle	70.65
29	DHM 111	70.54
30	DHM 111 (Biocontrol)	70.70
31	DHM 111 Non toxin salt (A.Bicarbonate)	70.80
32	DHM 111 Non toxin (<i>A.flavus</i>)	70.16
33	DHM 111-check	71.17
34	Pinnacle (Biocontrol)	71.04
35	Pinnacle Non toxin salt (A.Bicarbonate)	71.45
36	Pinnacle Non toxin (<i>A.flavus</i>)	70.70
37	Pinnacle check	70.40
38	Control DHM 111	70.18
39	Malviya Makka	70.82
40	HQPM 1	70.53
41	X 1280	71.27
42	Bio 9681	70.46

Table 10: Evaluation of waxy and amylose extender lines for carbohydrate profile

S. No	Pedigree	Starch (%)	Amylose (%)	Amylose in starch (%)	Amylopectin in starch (%)
1	WSKHOTH AI-1-WAXY-1-1	64.75	12.56	19.40	80.60
2	HYDO5 R/204-1	67.38	10.95	16.25	83.75
3	HKI 3322	66.50	2.95	4.36	95.64
4	EC 620055	64.05	2.68	4.18	95.82
5	EC 620057	69.51	2.68	3.56	96.44
6	EC 620058	70.40	2.82	4.01	95.99
7	EC 620061	69.79	2.40	3.43	96.57

8	EC 620062	68.32	4.43	6.48	93.52
9	EC 620063	69.58	9.43	13.55	86.45
10	EC 620064	69.00	3.25	4.71	95.29
11	EC 620068	69.41	10.95	15.78	84.22
12	EC 620071	65.37	1.84	2.81	97.19
13	PLAIN Starch	100	14.73	14.73	85.27
14	Soluble Starch (modified)	100	13.40	13.40	86.60
15	Sample control	99.9	15.19	15.21	84.79
16	HQPM 1	70.59	28.71	40.67	59.33
17	Prakash	70.93	35.32	49.84	50.16
18	Vivek Hybrid 17	72.00	37.48	53.36	46.64
19	African Tall	72.50	39.20	55.82	44.18
20	HM 5	71.13	35.85	50.40	49.60
21	HQPM 5	69.04	30.67	44.42	55.58
22	CML - 73	71.99	35.31	49.05	50.95
23	CML - 259	73.00	33.73	47.37	52.63
24	CML - 41	70.37	32.18	45.73	54.27
25	CML - 101	71.69	38.62	53.87	46.13
26	V 341	72.23	35.85	51.05	48.95
27	HKI-163	70.00	23.05	33.76	66.24
28	HKI-193	74.20	26.37	38.66	61.34
29	WIN - POP	74.69	26.83	39.06	60.94
30	WOSC	53.84	13.94	29.89	70.11
31	Hybrid-9471	75.06	25.45	35.46	64.54

Table 11. Some most promising lines with higher amylopectin in starch content

S. No	Pedigree	Amylopectin in starch (%)
1	HKI 3322	95.64
2	EC 620055	95.82
3	EC 620057	96.44
4	EC 620058	95.99
5	EC 620061	96.57
6	EC 620062	93.52
7	EC 620064	95.29
8	EC 620071	97.19

6. Evaluation of QPM and normal germplasm for carotenoid and β -carotene estimation

Carotenoids and β -carotene:

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 154 different QPM and normal maize germplasm received from different sources were evaluated for carotenoids and β -carotene. Out of 154, 28 lines were found to possess more than 25 $\mu\text{g/g}$ carotenoid content and only 12 lines were having 5 or more than 5 $\mu\text{g/g}$ β -carotene content. The carotenoid content ranges from 0.28 (72460-1) to 34.13 (MAP 128) $\mu\text{g/g}$ whereas the range of β -carotene was 0.08 to 9.91 $\mu\text{g/g}$ with lowest values being observed in MAP 129 and highest in the genotype MASQPM CM-138-2989-2.

Table 12: Evaluation of QPM and normal germplasm received from different sources for carotenoid and β -carotene estimation

S. No.	Pedigree	Carotenoid ($\mu\text{g/g}$)	β -Carotene ($\mu\text{g/g}$)
1	HM 4	30.19	2.49
2	HM 7	23.08	1.57
3	HM 8	29.33	2.27
4	HM 9	23.73	2.23
5	HM 10	24.00	6.84
6	HQPM 1	19.34	1.17
7	HQPM 3	24.00	1.83
8	HQPM 4	31.05	4.55
9	HQPM 7	25.81	4.77
10	Shaktiman 3	28.17	1.83
11	Shaktiman 4	28.52	2.02
12	HQPM 6	31.05	1.26
13	HQPM 8	29.33	1.26
14	Buland	30.62	1.83
15	Vivek Hybrid 25	16.05	1.08
16	Vivek Hybrid 27	22.26	2.02

17	Prakash	28.95	1.45
18	PHM 1	19.98	1.07
19	PHM 2	32.33	2.75
20	FH 3356	21.94	1.64
21	PAU 352	31.48	8.60
22	JH 3459	31.91	7.23
23	PEHM 1	25.81	2.62
24	Sagam L-1	1.52	0.27
25	Sagam L-2	0.75	0.27
26	CLQRCYQ-47-B	12.49	1.04
27	CLQRCYQ-30	25.81	1.40
28	CLQRCYQ-28	16.70	0.51
29	CLQRCYQ-28	12.45	0.34
30	CLQRCYQ-41	5.54	0.60
31	CLQ 315	0.51	0.17
32	LM 14	12.91	1.40
33	HKI-1105	18.81	6.96
34	HKI-1128	10.77	1.22
35	HKI-1128	15.22	1.31
36	LM-13-3	18.26	0.68
37	CM 124	25.60	0.86
38	HKI-17-2	27.40	1.95
39	HKI-31-2	21.68	0.86
40	HKI-34 (1+2)-1	24.24	---
41	HKI-162-2	17.73	0.31
42	HKI-164-4-(1-3)-2	17.21	0.31
43	HKI-164-3(2-1)-1	22.64	0.51
44	HKI-164-4-(1-3)-2-2	16.04	0.68
45	HKI-164-4-(1-3)	11.72	0.68
46	HKI-164-4-(1-3)-2	2.16	1.40
47	HKI-164-4-(1-3)-2	1.96	1.04
48	HKI-164-3(2-1)-1	2.39	0.68
49	HKI-164-D-3-3-2	1.42	0.60
50	HKI-164-7-7 ER2	0.84	0.34
51	HKI-164-7-6x161	2.93	4.16
52	HKI-164-7-2	1.16	2.14
53	HKI-164-7-6x161-2	21.59	0.86
54	HKI-193-2-2	2.20	1.04
55	HKI 5072-2BT	16.70	3.02
56	CML - 165	22.32	2.53
57	CML - 167	16.70	3.95
58	CML - 171	7.66	1.86
59	CML - 172	6.58	0.86
60	DMR QPM 03-113	1.43	0.60
61	DMR QPM 58-26	31.00	3.74

62	CML - 157	2.02	0.31
63	CL-QRCYQ-47	6.94	0.60
64	CLQRCYQ-47-B	3.42	0.69
65	CLQ-RCYQ-30	18.40	1.31
66	CL Q-RCYQ-41	9.25	0.68
67	CL Q-G-2507	12.03	0.69
68	DMR QPM 58	19.94	0.87
69	HKI-193-2-2	10.37	0.87
70	CLQRCYQ-47-B	7.16	0.87
71	CLQRCY Q30	18.27	1.68
72	DMR QPM 58	23.60	1.59
73	MASQPM CM-137 2985-3	25.81	7.48
74	MASQPM CM-138 2989-2	24.76	9.91
75	MASQPM CM-150 2992-3	19.65	8.55
76	MASQPM CM140 2999-3	28.13	5.74
77	MASQPM CM151 3004-1	18.40	5.09
78	HKI 193-1 2961	10.70	0.17
79	DMRQPM-58 MAP 174	32.32	1.59
80	DMRQPM-28 MAP 175 (3135)	12.24	3.39
81	VOL-1-MAP-118 (3185)	18.40	3.39
82	VOL-5-MAP-161 (3097)	17.80	0.87
83	CM-212-MAP-76 (3142)	18.40	0.87
84	CM-140-MAP-106	19.02	0.68
85	HQPM I	13.02	0.86
86	Prakash	20.29	0.86
87	Vivek Hybrid 17	13.82	0.60
88	African Tall	0.56	0.17
89	HM 5	9.43	0.17
90	HQPM 5	22.94	1.04
91	CML -73	29.33	2.53
92	CML - 259	2.44	0.17
93	CML - 41	13.54	1.49
94	CML - 101	1.91	0.34
95	V 341	11.98	1.13
96	HKI-163	14.64	1.49
97	HKI-193	10.46	0.77
98	WIN - POP	21.26	0.68
99	WOSC	8.08	0.25
100	Hybrid-9471	19.33	1.10
101	2568	0.56	---
102	2575	28.17	0.51
103	2577	1.43	0.17
104	72291-5	18.53	1.04
105	72313-1	10.77	0.34
106	72318-10	13.35	0.51
107	72324-9-13	0.84	0.34
108	72329-2	16.70	0.50

109	72460-1	0.28	0.25
110	72508-7	17.73	3.74
111	72582-14	9.18	2.14
112	72584-3	11.18	0.60
113	72817-2	15.45	0.60
114	72827-2	9.56	0.68
115	MAP-101	19.29	0.51
116	MAP-107	27.14	1.04
117	MAP-108	22.57	6.34
118	MAP-112	18.14	1.22
119	MAP-114	19.62	5.51
120	MAP-116	8.55	1.40
121	MAP-118	2.96	4.82
122	MAP-121	15.50	1.04
123	MAP-124	19.02	1.10
124	MAP-130	18.71	3.53
125	MAP-137	19.02	1.31
126	MAP-142	20.29	3.53
127	MAP-144	21.59	1.77
128	MAP-145	22.26	1.13
129	MAP-146	1.51	0.25
130	MAP-147	23.29	0.51
131	MAP-148	24.35	3.53
132	MAP-151	20.29	0.86
133	MAP-152	14.63	0.77
134	MAP-163	28.90	1.95
135	MAP-165	25.46	1.13
136	MAP-167	23.64	1.04
137	MAP-168	13.82	0.34
138	MAP-176	23.99	4.60
139	MAP-102	19.64	1.31
140	MAP-103	22.26	2.24
141	MAP-105	21.59	1.77
142	MAP-109	19.95	1.77
143	MAP-111	22.26	5.51
144	MAP-113	23.64	1.58
145	MAP-115	16.04	1.95
146	MAP-117	20.60	4.27
147	MAP-120	22.94	0.8
148	MAP-122	11.72	2.72
149	MAP-123	22.26	0.34
150	MAP-125	19.02	0.77
151	MAP-126	25.46	0.17
152	MAP-127	6.94	0.60
153	MAP-128	34.13	0.34
154	MAP-129	20.29	0.08

7. Electrophoretic analysis of zein protein in maize germplasm

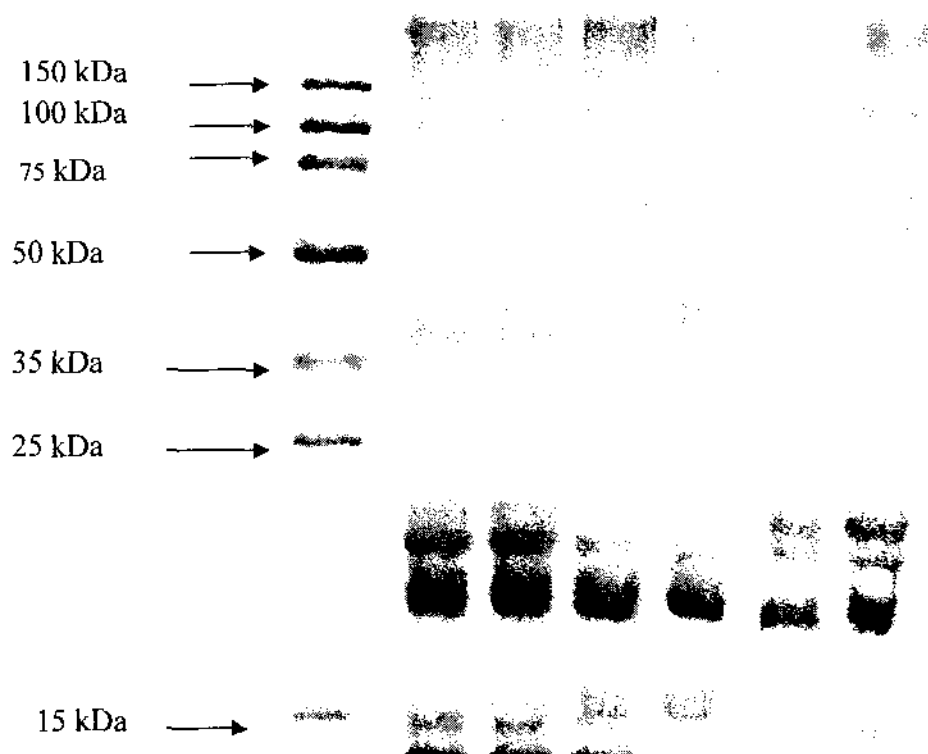


Fig. 3: SDS PAGE profile of zein protein from maize cultivars

- Lane 0: Standard molecular marker
- Lane 1: HM 4
- Lane 2: HM 7
- Lane 3: HQPM 1
- Lane 4: HQPM 4
- Lane 5: Sweet Corn (Win Orange)
- Lane 6: Sweet Corn (Hybrid).

Total zein protein of cultivar was extracted by the method of Bryan et al., (2003). The zein protein profile was almost similar in normal maize (HM 4, HM 7) and Sweet Corn maize except low abundance of α zein protein (19 kDa) in sweet corn. The normal maize cultivars have abundance of α zein protein (19 kDa, 22 kDa) as shown in lane 1 & 2 of fig 4. Whereas both QPM cultivars have abundance of γ zein protein (16 kDa) and lacking of 22 kDa α zein protein as shown in lane 3 & 4 of fig 4.

8. Biochemical characterization of normal and insect infested maize germplasm

Biochemical and physical properties of 16 germplasm belonging to different grain types were studied before and after infestation by *Sitotroga cerealella*. Starch, tryptophan, oil, sugar and carotene content were found to be reduced after infestation (Table 15- 20). The amylose and percentage of protein increase due to presence of insect body fragments and frass (Table 13 - 14).

Table 13: Evaluation of normal and insect infested maize germplasm for protein

S. No.	Pedigree	Protein (%)	
		Before Infection	After Infection
1	HQPM-1	10.16	10.18
2	PRAKASH	10.61	11.02
3	VIVEK HYBRID -17	8.98	9.01
4	AFRICAN TALL	9.00	9.11
5	HM-5	10.78	10.79
6	HQPM-5	9.67	9.69
7	CML-73	10.30	10.33
8	CML-259	11.43	11.48
9	CML-41	10.98	11.22
10	CML-101	10.24	10.47
11	V-341	9.24	9.67
12	HKI-163	9.04	9.52
13	HKI-193	9.67	9.75
14	WINPOP	13.67	13.80
15	WOSC	13.64	14.65
16	HYBRID-9415	9.67	10.33

Table 14: Evaluation of normal and insect infested maize germplasm for amylose in starch

S. No.	Pedigree	Amylose in starch (%)	
		Before Infection	After Infection
1	HQPM-1	28.71	35.45
2	PRAKASH	35.32	41.63
3	VIVEK HYBRID -17	37.48	32.30
4	AFRICAN TALL	39.20	35.44
5	HM-5	35.85	37.62
6	HQPM-5	30.67	34.37
7	CML-73	35.31	38.77
8	CML-259	33.73	39.91
9	CML-41	32.18	33.85
10	CML-101	38.62	37.10
11	V-341	35.85	41.09

12	HKI-163	23.05	30.28
13	HKI-193	26.37	36.53
14	WINPOP	26.83	39.91
15	WOSC	13.94	20.30
16	HYBRID-9415	25.45	30.28

Table 15: Evaluation of normal and insect infested maize germplasm for starch

S. No.	Pedigree	Starch (%)	
		Before Infection	After Infection
1	HQPM-1	70.59	66.86
2	PRAKASH	70.93	67.90
3	VIVEK HYBRID -17	72.00	71.67
4	AFRICAN TALL	72.50	70.92
5	HM-5	71.13	67.04
6	HQPM-5	69.04	67.49
7	CML-73	71.99	69.85
8	CML-259	73.00	72.14
9	CML-41	70.37	70.05
10	CML-101	71.69	71.61
11	V-341	72.23	71.32
12	HKI-163	70.00	68.85
13	HKI-193	74.20	72.02
14	WINPOP	74.69	72.26
15	WOSC	53.84	50.16
16	HYBRID-9415	75.06	72.14

Table 16: Evaluation of normal and insect infested maize germplasm for tryptophan in protein

S. No.	Pedigree	Tryptophan in protein (%)	
		Before Infection	After Infection
1	HQPM-1	0.68	0.60
2	PRAKASH	0.34	0.35
3	VIVEK HYBRID -17	0.37	0.31
4	AFRICAN TALL	0.40	0.34
5	HM-5	0.37	0.35
6	HQPM-5	0.66	0.31
7	CML-73	0.38	0.38
8	CML-259	0.29	0.32
9	CML-41	0.33	0.33
10	CML-101	0.38	0.37
11	V-341	0.52	0.46
12	HKI-163	0.67	0.61
13	HKI-193	0.80	0.75

14	WINPOP	0.34	0.44
15	WOSC	0.40	0.51
16	HYBRID-9415	0.47	0.43

Table 17: Evaluation of normal and insect infested maize germplasm for sugar

S. No.	Pedigree	Sugar (%)	
		Before Infection	After Infection
1	HQPM-1	4.42	2.70
2	PRAKASH	4.18	1.62
3	VIVEK HYBRID -17	5.21	1.96
4	AFRICAN TALL	5.34	3.10
5	HM-5	5.04	2.76
6	HQPM-5	5.75	2.86
7	CML-73	5.16	2.49
8	CML-259	5.54	2.43
9	CML-41	5.31	2.23
10	CML-101	4.86	2.78
11	V-341	4.03	2.39
12	HKI-163	5.70	2.23
13	HKI-193	7.75	2.16
14	WINPOP	5.86	1.62
15	WOSC	13.42	3.18
16	HYBRID-9415	4.88	1.94

Table 18: Evaluation of normal and insect infested maize germplasm for oil

S. No.	Pedigree	Oil on dry basis (%)	
		Before Infection	After Infection
1	HQPM-1	4.54	4.53
2	PRAKASH	4.18	3.78
3	VIVEK HYBRID -17	4.34	2.97
4	AFRICAN TALL	5.14	5.05
5	HM-5	3.58	3.27
6	HQPM-5	4.85	4.56
7	CML-73	3.10	2.66
8	CML-259	4.00	3.83
9	CML-41	5.12	4.47
10	CML-101	2.65	1.96
11	V-341	3.46	2.76
12	HKI-163	3.83	2.89
13	HKI-193	5.48	5.00
14	WINPOP	3.26	2.97
15	WOSC	12.09	11.88
16	HYBRID-9415	3.78	3.25

Table 19: Evaluation of normal and insect infested maize germplasm for carotenoid

S. No.	Pedigree	Carotenoid ($\mu\text{g/g}$)	
		Before Infection	After Infection
1	HQPM-1	13.02	10.96
2	PRAKASH	20.29	18.41
3	VIVEK HYBRID -17	13.82	14.09
4	AFRICAN TALL	0.56	0.38
5	HM-5	0.94	0.57
6	HQPM-5	22.94	19.65
7	CML-73	29.33	24.72
8	CML-259	2.40	0.94
9	CML-41	13.54	12.75
10	CML-101	1.91	1.13
11	V-341	11.98	10.71
12	HKI-163	14.84	14.37
13	HKI-193	10.46	6.49
14	WINPOP	21.26	17.50
15	WOSC	8.08	6.49
16	HYBRID-9415	19.33	15.76

Table 20: Evaluation of normal and insect infested maize germplasm for carotene

S. No.	Pedigree	β -carotene ($\mu\text{g/g}$)	
		Before Infection	After Infection
1	HQPM-1	2.15	1.93
2	PRAKASH	2.15	2.82
3	VIVEK HYBRID -17	1.11	2.59
4	AFRICAN TALL	0.42	0.64
5	HM-5	0.42	0.42
6	HQPM-5	2.59	2.82
7	CML-73	6.32	1.49
8	CML-259	0.42	0.26
9	CML-41	3.72	1.93
10	CML-101	0.85	0.42
11	V-341	2.82	2.59
12	HKI-163	3.72	3.27
13	HKI-193	1.93	1.06
14	WINPOP	1.71	2.15
15	WOSC	0.64	1.27
16	HYBRID-9415	2.76	1.60