

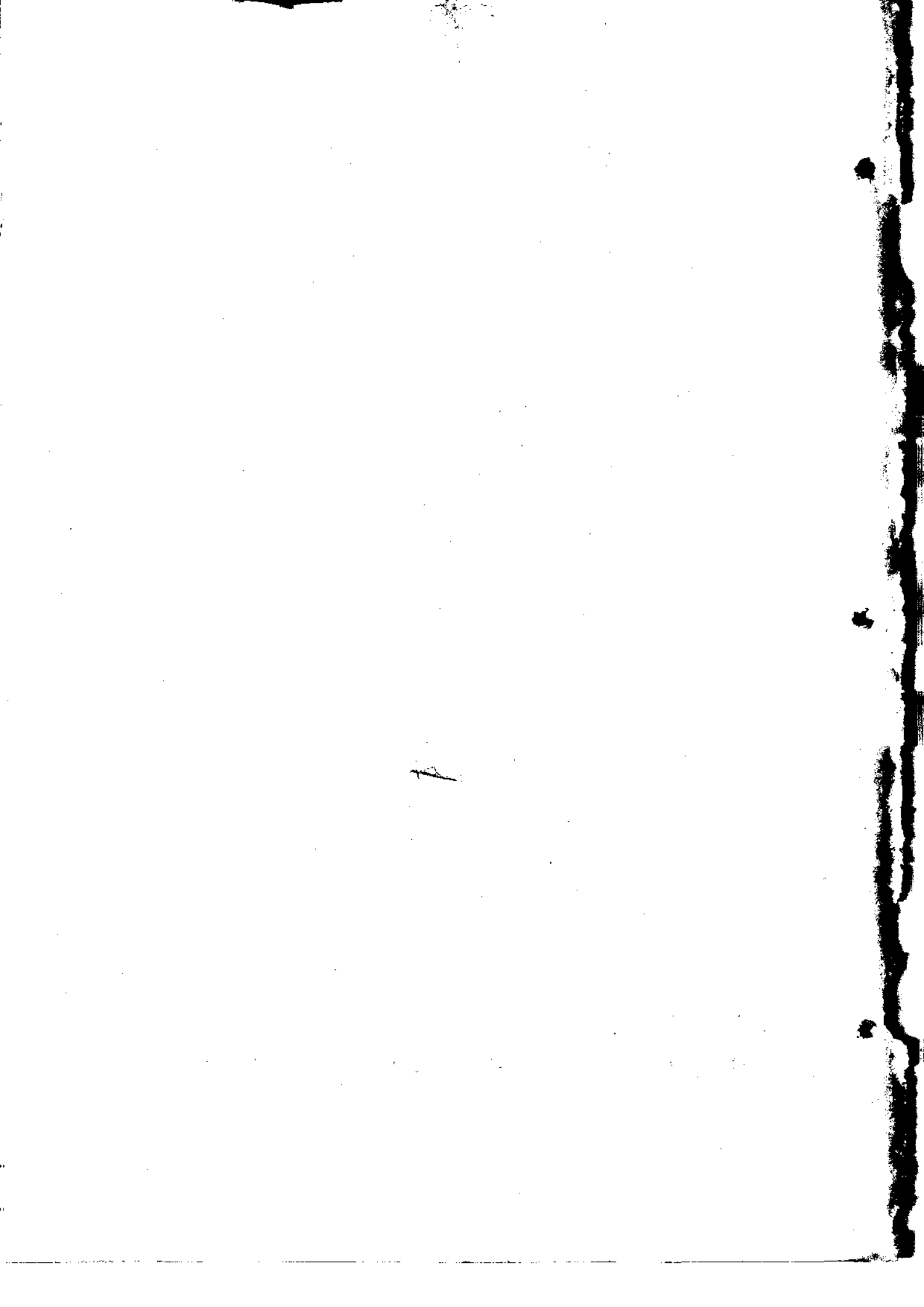
XXXVII Annual Progress Report



भारत अनुप
ICAR

2004

ALL INDIA COORDINATED MAIZE IMPROVEMENT PROJECT
DIRECTORATE OF MAIZE RESEARCH
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INTRODUCTION

Maize has occupied an important place in India due to its potential and greater demand for food, feed and industrial utilization. The total production has surpassed over both sorghum and pearl millet giving it a third place after wheat and rice. The demand for maize grain is increasing every year because of its utilization in poultry, piggery and industrial uses.

During the year 2002-2003 the total area in the country under maize cultivation was 6.66 million hectare against 6.58 million hectare in 2001-02 which was 0.08 million higher than the previous year. The total production during the year was 11.16 million tones compared to the previous year of 13.16 million tones a short fall of 2.0 million tones. The productivity during that year was 1676 kg/ha. against 2081 kg/ha in the in previous year. The increase in the area has been reported from the states of Gujarat, Bihar, A.P., M.P., Rajasthan, Chhatisgarh, Karnataka, Maharashtra, Tamil Nadu and Uttar Pradesh. Decrease in the production was mainly due to late monsoon, prolong dry spell and drought in the peninsular region during kharif and prolong cold during winter season in some states. However, the increase in production from A.P., Chhatisgarh Rajasathan and Maharashtra were also recorded. For 2003 - 04 the estimated area was 7.42million hectare with an increase of 18% from the previous year. The production during the period was 14.72 million tones an increase of 10.0 % while the productivity was 1983 kg/ha with an increase of 20.76% from the previous year.

During the period under report, two early maturing hybrids, Viveke -15 for J & K, Himanchal Pradesh, hills of Uttaranchal and West Bengal and Vivek - 17 for Delhi, Haryana, Punjab, Andhra Pradesh, Maharastra, Karnataka and Tamilnadu were released and notified for cultivation during Kharif season. Besides these one full season hybrid Buland was released for cultivation in rabi season in the state of Andhra Pradesh, Maharastra, Tamilnadu, and Karnataka. In addition one quality protein maize hybrid Amber Skakti - 1 was released for Himanchal Pradesh, Uttaranchal, Bihar, Haryana, Karnataka, Rajasthan and Andhra Pradesh. Two early maturing composites Pratap Makka - 3 and Azad Kamal in white and yellow grain colour were also released for the state of Rajasthan, Gujarat and Madhya Pradesh. One QPM hybrid PMH - 19 was notified for Maharastra. In speciality corn one sweet corn composite namely Win Yellow Sweet Corn was released for Himalayan region of H.P., J & K and Uttaranchal. One baby corn composite VL - 78 was released for across the country for kharif and rabi cultivation.

During kharif 2004, 35 coordinated trials, 18 zonal trials, 56 CIMMYT trials, 2 quality protein maize trials and 3 specialized trials consisting one each for baby corn, pop corn, sweet corn and 8 previous year trials were planted at Sirnagar in 2004 kharif, at various research centers of the project. In full season advance evaluation trial 7

hybrids along with 4 checks were tested. Mean yield ranged from 5818 to 6943 kg/ha for the hybrid Robust and MCH II respectively in zone III. In zone V 2 hybrids with 4 checks were tested. Mean grain yield ranged from 7805 to 9953 kg/ha for Robust and NECH - 117 respectively. In medium maturing trial, 8 hybrids with 2 checks were tested. Mean yield ranged from 4334 to 7175 kg/ha for EC 3121 and Seedtec - 1081 respectively. In zone V, 3 hybrids along with 2 checks were tested. The mean yield ranged from 6588 to 9701 kg/ha for the hybrid X - 26 and Seedtec - 1081 respectively.

In early maturing trial, 5 hybrids with 4 checks were tested in zone-II. The mean grain yield ranged from 4189 (PMZ -138) to 5115 kg/h (J H -3851). In zone - III, three hybrids were tested. The yield ranged from 4913 to 5290 kg/ha for X - 2182 and MCH - 6 respectively. In zone IV seven hybrids along with 4 checks were tested. The yield ranged from 6713 (MCH - 6) and 11162 (JKMH - 810) respectively. In Zone- V six hybrids with four checks were tested and yield ranged from 5028 to 6189 kg/ha respectively for MCH - 6 and JKMH - 810. In extra early maturity trial in Zone - III only one hybrid was tested which yielded 4327 kg/ha against the check Surya which was 4072 kg/ha.

Concerted efforts on development of single cross hybrid for early maturity for kharif, and full season hybrids for rabi under the Mission Mode Project funded by NATP led to release of two early maturing maize hybrids for kharif season and one hybrid in full season, for rabi. Similarly, through QPM project on development of single cross hybrids for quality protein maize and carbohydrate profile which was merged with Mission Mode Project one yellow QPM hybrid Amber Shakti -1 was released.

During the period under report 66.2 quintals of breeder seed was indented including seed requirement from private sector. The total quantity of seed produced against the indent was 109.6 qtls. Some of the inbred lines and composite allocated to Dholi, Belipar, Dharwad and Banswara centers are being produced during the rabi 2004-05.

A total of 337 introductions were received from various countries during the period under report. These consisted of 5 from Bolivia, 27 from Spain, 157 from USA, 28 from Philippines, 1 from Indonesia 16 from Bulgaria, 15 from CIMMYT Mexico, 13 from Thailand, 9 from Sri Lanka, 4 from Columbia, 1 from Uttaranchal and 31 from national collection.

A total of 89 lines of maize germplasm and 32 lines of Quality Protein Maize were screened for resistance against maize stalk borer, *Chilo partellus* (Swinhoe) at Delhi, Udiapur, Ludhiana and Kolhapur by artificially inoculating the plants with black headed stage eggs. Out of 89 lines, 48 lines were evaluated for first year AET and 41 lines for the second year AET. The leaf injury rating were recorded on 1-9 scales and the lines were categorized as resistant (0-3); moderately resistance (3.1-6.0) and susceptible (6.1-9).

In early maturity group, PMZ-138 and MCH-6 were found resistant in the II year of AET while BVM-5, BVM-6, HKH-1176, X-1182D, X-2097, DEH-10303, JKMH-204-1, AH-23021 and AH-01411 were observed resistant in the first year of AET. In medium maturity group, HKH-1203 was recorded resistant in the 2nd year AET, while BH-3443 and PMZ-136 were observed resistant in the 1st year of AET. In full season maturity group, MH-01-1 was found resistant in the 1st year of AET.

Twenty lines in QPM-1 and 13 lines in QPM-2 trials were screened at Delhi and Ludhiana by artificially infesting the plants. Ten lines of QPM-1 and seven lines of QPM-2 were observed to be moderately resistant at Delhi where as 12 lines in QPM-1 and 11 lines in QPM-2 trials were found resistant at Ludhiana.

531 lines which have been screened for *Sesamia inferens* at Hyderabad were selfed for attainment of homogeneity at Delhi centre during "kharif" 2004. Four lines which have been screened four times against *S. inferens* were screened against *C. partellus* and sibbed for recombining the resistance at Delhi.

Different doses of Cruiser 70 WS as seed treatment were tested and compared with Chlorpyrifos and Imidacloprid for the management of termite at Udiapur. Chlorpyrifos @ 4 ml/kg seed gave maximum control followed by Imidacloprid. 3.5 g/kg seed and Cruiser 2 g/kg seed at Udaipur.

The damage caused by Phadka grasshopper in Rajasthan has been reported to be on increase. One spray of Carbaryl at 20 DAG and two sprays of Neem at 30 and 40 DAG gave promising results for the control of this pest.

While studying various management options for *C. partellus* the promising results were showed by spraying Decis @ 400 ml/ha at 7 DAG and one release of *Trichogramma* at 14 DAG. However when the Decis was replaced by one release of *Trichogramma* the results were not much different from the best and at the same time we have pesticide free crop.

Heavy infestation of *C. partellus* has been reported from Karnal (37-61%). Chaffer beetle *Chiloloba acuta* which feed on pollen was reported from Karnal two years back this beetle has also been reported from Karnataka and Belipar of Gorakhpur district by the monitoring teams.

Study on the biotypes of *C. partellus* was initiated in Punjab. The larvae from 4 locations in 15 districts of Punjab were collected with a view to determine if they showed differences in their severity. The cultures of these populations were maintained separately and variety JH 3459 was infested at the vulnerable stage of the plant. The leaf injury rating range from 2.05 to 6.25 on 1-9 scale which showed that severity in the population vary significantly. They have been grouped into two categories as severe and less severe populations.

IPM trials were conducted at Ludhiana, Hyderabad and Udaipur. The farmers obtained higher yield in IPM field as compared with the other farmers. The percent yield gain was 17.6, 26.0 and 8.8 higher at Ludhiana, Hyderabad and Udaipur respectively.

A total of 180 materials in different trials were evaluated against in different maize diseases viz. Maydis leaf blight (MLB), Turcicum leaf blight (TLB), Banded leaf and sheath blight (BLSB), Sorghum downy mildew (SDM), Downy mildew (DM), Brown stripe downy mildew (BSDM), Rajasthan downy mildew (RDM), Post-flowerings stalk rots (PFSR), Common rust and Erwinia stalk rot (ESR). The screenings under different diseases were carried out under artificially inoculated conditions in the various hot spots identified for these diseases. The most promising genotypes with combined resistance to TLB, RDM, BSDM, ESR and Common rust was BIO-22069; to MLB, TLB, BSDM and Common Rust was JH-10655; IC-0301 (SZM 421) resistant to RDM, DM, BSDM, Common Rust and Brown Spot, BIO-31006 against RDM, DM, ESR and Common Rust; PHS-79 (white) against BSDM, ESR, Common Rust and Brown Spot; FH-3277 against RDM, DM, BSDM and Common Rust; L-186 against RDM, DM, ESR and Common Rust; JKMH-1701 against MLB, BSDM and PFSR.

In IET full season maturity group resistant genotypes identified against RDM were NECH-128, MS Pool C7, Prabhat while the genotypes C-302, MH-04-2, AH-31410, TUX POOL C7, JKMH-51, GK-3050, C-555 and X-2406 were resistant to BSDM. Resistant genotypes to ESR were HKH-1215, SMH-3303 (Y), MCH-23, BIO-31006, NECH-128.

In IET medium maturity trials, promising genotypes resistant to DM were V-34, MH-03-2, V-32, JKMH 702 while genotypes AH-31417, L-180, CHH-219, V-32, X-85, SMM-3103, V-33, EC-3138, PMZ-139 and MCH-25. L-186, MZ-150, JKMH-702 and X-85 were resistant to rust while genotypes V-32, AH-31406, X-85 and JKMH were resistant to Brown spot.

In IET early maturity promising resistant genotypes identified against PFSR was ECH-1389 and HKH-1237 while genotypes HKH-1199 and X-2484 were resistant to common rust. Resistant genotypes identified against BSDM were JH-3982, MCH-27 and Kiran. In this group genotypes AH-31405, JH-31013 were resistant to Erwinia stalk rot.

In extra early maturity, genotypes FH-3277, IC-0301 (SZM 421) and FH-3248 were resistant to RDM and DM. Maize genotypes resistant to Brown spot were DEH 105, DEH-107, FH-3288, VL-103, VL-110, CHH-215, IC-030 (SZM 421) while genotypes resistant to common rust were FH-3277 and CHH-212.

In AET early maturity, resistant genotypes to MLB were JH-31005, JH-31036, HKH-1176, JKMH-1701, JH-3851, MPZ-138 while genotypes resistant to PFSR were JH-31005, X-1182 K. Promising resistant entries against RDM in this group were PMZ-135, PMZ-138, MCH-5, MCH-6, JKMH-810 and X-2182. Genotype R-03/702 was resistant to Erwinia stalk rot.

In AET medium maturity, genotype Bio-22069 was resistant to TLB while HKH-1208 was resistant to MLB. Resistant genotypes against PFSR were HKH-1200 and NECH-120 and genotypes X-2005, JKMH-1001, PMZ-131, PMZ-237, X-26 were resistant to RDM.

In AET full-season maturity, genotypes JH-10655, ROBUST were resistant to TLB while MCH-2 was found to be promising against BLSB. Genotypes BH-3313, MH-01-4, PMZ-235, BIO-9681 and SEEDTEC-2324 were resistant to RDM while against BSDM resistant lines identified were JH-10655, BH-3313, MH-01-3, PMZ-235 and MCH-1.

Maize genotype MH-01-4 was resistant to ESR.

Under the ICAR-CIMMYT collaborative activity, "Identification and development of maize genotypes resistant to BLSB", till now more than 3000 genotypes mainly in inbred background have been screened under artificial disease inoculations. Though none of these materials so far have been identified to possess absolute resistance, about 50 materials have shown some level of tolerance to BLSB and these materials are being advanced to upgrade their level of resistance adopting cyclic breeding approach.

Under the survey and surveillance programme in maize growing areas extensive surveys were conducted in Uttaranchal, Rajasthan, Karnataka, Himachal Pradesh, Gujarat, Madhya Pradesh and Maharashtra.

In Uttaranchal Turcicum leaf blight was major biotic constrain whereas Maydis leaf blight incidence was moderate to low and occurred during tasseling and post-flowering stages in the mid hills. Low incidence of Banded leaf & sheath blight, Curuvularia leaf spot and Brown spot, Common rust and Phaeosphaeria leaf spot were also observed. In Rajasthan, Downy mildew (RDM), Maydis leaf blight, Post-flowering stalk rot, Brown spot, Banded leaf & sheath blight, Curuvularia leaf spot, head smut and false smut were recorded from different maize growing areas in severe to mild intensity. The disease survey in the states of Gujarat, Madhya Pradesh, Maharashtra and Karnataka revealed the occurrence of diseases like Maydis leaf blight, Brown spot, Stalk rot, Banded leaf & sheath blight, Curuvularia leaf spot. The disease intensity varied from severe to mild in different locations. In Himachal Pradesh diseases like Erwinia stalk rot, Banded leaf & sheath blight, Brown spot, Maydis leaf blight, Downy mildew were noticed in moderate to low intensity.

In full-season germplasm none of the entry surpassed high yielding check in Zone IV. In Zone V at Udaipur NECH-117 out yielded best check at different nitrogen level tried.

In medium maturity group PMZ-131 out yielded highest yielding check at Bahraich, Dholi and Jashipur. In this group another entry NECH-120 out yielded all the checks at Jashipur and Varanasi in Zone III. In Zone IV BH 2359, HR 41203 and Seedtech-1081 out yielded checks at Karimnagar.

Seedtech-1081 performance was again outstanding in Zone V location also. JH 3851 entry in early maturity group produced highest grain yield at Delhi, Ludhiana and Karnal. Performance of JKMH 810 and MCH-5 was worth noting at Karnal station only. MCH-5, MCH-6, X-2182, PMZ 135, JKMH 810 and BH 2862 out yielded best check at Kolhapur. Similarly, at Udaipur most of entries (JH 3851, X-2182, PMZ-138 and PMZ-135) tested out yielded best check.

In extra-early group experiment carried out did reveal the superiority of test entry over checks.

Experiment conducted at Ludhiana and Almora revealed that different inbred required varying plant densities on account of variation in plant types. For higher productivity of inbred nitrogen requirement also needs to be increased (160-180 kg/ha).

Experiments were conducted this year at Bahraich, Dholi, Kolhapur, Varanasi and at Jorhat stations. Application of 25% nitrogen 10 days after sowing plus 50% at knee high stage + 25% at tasseling alone or in combination with 3% urea spray 45 days after sowing reduced the impact of water logging to a greater extent.

Experiment conducted at Chhindwara and Udaipur revealed beneficial effect of thiourea spray (0.2%) at pre-tasseling stage and silking stage for combating drought. Similar experiment at Srinagar revealed beneficial effect of priming seed with 0.1% thiourea in reducing the impact of drought.

Paired row of maize at 50 cm in combination with 3 rows of groundnut was very remunerating proposition at Ambikapur. Intercropping sweet corn with cowpea was most profitable followed by okra at Jashipur. Maize+cucumber followed by peas was most profitable cropping system at Kangra. Maize+cowpea and Maize+soybean intercrops were very promising at Karnal. Intercropping sweet corn with marigold (1:2) was found to be profitable at Chhindwara. Sweet corn + green gram intercropping at Udaipur was found profitable.

Application of FYM in combination with nitrogen was found to take care of nutrient requirement of maize at Delhi, Chhindwara, Kangra and at Udaipur.

Three hundred and thirty eight inbred lines/population for drought stress CML 442, CML 341 and few other were very tolerant to moisture stress. For excess soil moisture stress, single cross like CML 327 x WL 36, WL 36 x CML 425, CM 118 x CML 311 were outstanding crosses with very little yield penalty under water logged conditions.

TABLE NO. I : MEAN MAXIMUM AND MINIMUM TEMPERATURE °C DURING 2006 AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bajaura	Mean Max 0 C	16.5	20.6	27.8	29.9	32.2	32.3	32.7	29.7	31.0	24.0	15.7	-
	Mean Min 0 C	2.3	3.0	6.5	10.2	12.9	16.5	20.2	19.9	17.2	9.1	3.9	-
Kangra	Mean Max 0 C	16.3	18.6	28.5	32.1	36.1	31.7	30.9	29.6	31.2	26.5	23.9	-
	Mean Min 0 C	5.5	7.2	10.7	15.6	17.8	19.1	22.7	22.4	21.1	14.6	9.6	-
Ludhiana	Mean Max 0 C	-	-	-	-	39.4	35.9	35.8	32.9	34.3	29.7	-	-
	Mean Min 0 C	-	-	-	-	23.3	25.1	27.2	26.0	23.7	17.1	-	-
Pantnagar	Mean Max 0 C	17.5	23.2	31.4	36.1	36.7	33.9	32.1	32.3	31.8	29.5	26.3	-
	Mean Min 0 C	7.5	8.8	13.4	19.0	22.0	24.3	24.7	25.2	23.5	16.7	11.0	-
Kanpur	Mean Max 0 C	-	-	-	-	-	36.3	34.1	33.2	33.8	31.6	-	-
	Mean Min 0 C	-	-	-	-	-	26.4	26.4	26.2	25.2	19.4	-	-
Varanasi	Mean Max 0 C	-	-	-	-	-	35.4	33.6	33.0	33.9	31.8	-	-
	(Normal)	-	-	-	-	-	39.0	33.6	32.4	32.7	32.5	-	-
	Mean Min 0 C	-	-	-	-	-	26.3	26.7	26.2	25.9	20.5	-	-
Dholi	(Normal)	-	-	-	-	-	28.2	26.2	26.8	25.0	20.7	-	-
	Mean Max 0 C	18.5	25.2	32.3	33.1	35.3	33.5	31.7	32.8	33.0	31.1	28.3	-
	(Normal)	22.8	25.6	31.3	36.0	36.6	35.5	32.5	32.6	32.3	32.0	39.0	-
Jashipur	Mean Min 0 C	9.5	11.2	17.4	22.0	24.3	26.1	26.7	27.7	26.5	21.4	14.5	-
	(Normal)	7.7	9.8	14.4	20.3	23.0	24.6	24.1	24.0	23.6	20.7	13.5	-
	Mean Max 0 C	23.5	26.9	35.5	36.4	37.7	32.8	30.1	28.3	29.0	27.7	27.1	-
Ambikapur	Mean Min 0 C	13.2	15.4	21.8	24.7	28.7	27.5	25.3	25.3	24.4	21.4	16.8	-
	Mean Max 0 C	22.4	26.7	34.2	36.7	39.8	32.0	30.0	28.5	30.0	24.3	-	-
	(Normal)	23.4	26.7	31.4	36.2	38.6	33.5	29.4	29.1	29.5	29.4	26.8	23.6
Nandya	Mean Min 0 C	9.9	10.7	17.3	22.5	26.2	23.6	22.2	23.5	22.8	17.4	-	-
	(Normal)	9.2	12.8	16.4	22.4	25.8	24.4	23.4	23.0	21.8	18.2	13.4	9.4
	Mean Max 0 C	-	-	-	-	-	30.7	29.6	29.6	29.8	29.8	29.1	-
Arabhavi	Mean Min 0 C	-	-	-	-	-	19.7	19.5	19.1	19.2	17.5	16.1	-
	Mean Max 0 C	30.2	30.3	35.0	37.3	32.7	28.6	28.3	26.4	27.4	27.2	24.4	20.4
	(Normal)	29.4	30.9	33.1	35.1	34.4	29.1	28.2	28.5	29.2	30.0	29.3	28.2
Coimbatore	Mean Min 0 C	19.0	20.7	24.8	27.1	25.9	24.8	24.6	23.6	23.0	18.9	15.6	10.6
	(Normal)	9.3	10.2	16.0	18.2	19.9	20.9	19.9	19.1	18.3	14.7	20.0	16.2
	Mean Max 0 C	30.7	32.4	35.8	35.7	30.9	30.6	31.2	31.5	31.6	29.9	28.3	-
Udaipur	(Normal)	29.4	31.8	34.5	35.2	34.2	31.6	30.1	30.1	31.6	30.9	29.2	-
	Mean Min 0 C	19.0	18.3	20.8	24.1	22.9	22.5	22.6	22.1	22.3	21.7	20.8	-
	(Normal)	17.9	18.5	20.5	23.8	23.2	22.1	22.2	22.2	21.8	21.4	20.2	-
Janswara	Mean Max 0 C	-	-	-	-	39.6	38.6	33.2	29.6	32.7	31.8	-	-
	Mean Min 0 C	-	-	-	-	25.5	26.4	24.8	23.1	21.7	20.3	-	-
Janswara	Mean Max 0 C	-	-	-	39.5	39.1	35.9	33.2	28.8	34.1	33.6	-	-
	Mean Min 0 C	-	-	-	24.3	27.1	26.7	25.7	24.4	24.5	19.5	-	-

TABLE NO. II : MEAN PER CENT RELATIVE HUMIDITY DURING 2004 Kharif AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bajaura	70.5	65.0	55.5	57.0	56.0	63.5	65.5	77.0	68.0	71.0	67.0	-
Kangra	64.5	52.0	43.8	41.3	93.0	64.5	71.5	74.1	69.4	63.9	66.5	-
Ludhiana	-	-	-	-	49.0	56.0	68.0	81.0	70.0	72.0	-	-
Pantnagar	95.0	91.0	84.0	87.0	69.0	80.0	89.0	89.0	91.0	87.0	90.0	-
Kanpur	-	-	-	-	-	66.5	75.8	83.3	78.2	73.5	-	-
Varanasi	-	-	-	-	-	66.9	77.3	80.2	77.0	67.8	-	-
(NORMAL)	-	-	-	-	-	56.6	77.0	80.0	78.1	66.2	-	-
Dholi	89.0	84.0	83.0	79.0	80.0	84.0	88.0	85.0	88.0	88.0	88.0	-
(NORMAL)	68.0	46.0	44.0	54.0	49.0	64.0	74.0	72.0	68.0	54.0	45.0	-
Ambikapur	64.0	50.0	38.0	35.0	34.0	65.0	82.0	87.0	80.0	69.0	-	-
(NORMAL)	63.0	59.0	48.0	35.0	38.0	66.0	83.0	85.0	81.0	71.0	61.0	63.0
Mandya (0730 hrs)	-	-	-	-	-	84.0	87.0	90.0	86.0	89.0	90.0	-
(1400 hrs)	-	-	-	-	-	50.0	48.0	53.0	48.0	44.0	46.0	-
Arabhavi	55.0	52.2	45.6	47.8	57.3	70.5	74.5	79.1	73.5	69.8	61.7	56.6
(Normal)	57.7	53.5	45.0	50.2	56.8	69.9	75.6	59.5	56.2	70.0	64.1	59.1
Coimbatore	86.0	80.0	80.0	87.0	89.0	83.0	84.0	85.0	88.0	91.0	91.0	-
(Normal)	61.0	55.0	50.0	54.0	55.0	56.0	55.0	62.0	53.0	73.0	73.0	-
Udaipur					19.0	40.0	54.0	73.0	60.0	57.0	-	-
MIN												
MAX					38.0	63.0	75.0	88.0	83.0	93.0	-	-
Banswara	-	-	-	64.0	64.0	75.0	85.0	94.0	85.0	79.0	-	-

TABLE NO. III : TOTAL RAINFALL (mm) RECORDED DURING 2004 AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bajaura	121.7	31.1	-	66.5	101.9	30.3	108.7	152.1	13.2	155.0	5.0	-
Kangra	130.2	14.6	-	33.8	86.4	203.2	471.0	753.7	56.7	205.0	3.8	-
Ludhiana	-	-	-	-	52.8	55.4	32.7	225.4	2.6	23.0	-	-
Pantnagar	26.2	3.4	-	19.0	61.2	140.4	336.8	560.2	115.6	85.0	-	-
Kanpur	-	-	-	-	-	119.2	275.0	98.0	203.0	23.0	-	-
Varanasi	-	-	-	-	-	153.2	166.8	194.8	45.6	8.2	-	-
(Normal)	-	-	-	-	-	86.8	293.3	336.9	227.5	49.1	-	-
Dholi	40.0	30.0	0.0	60.0	133.0	185.0	520.0	110.0	11.5	0.0	0.0	-
(Normal)	10.7	13.4	5.8	158.0	108.0	153.0	346.2	294.0	233.0	74.0	12.7	-
Jashipur	-	-	-	34.8	42.0	265.4	275.6	381.6	325.4	88.6	-	-
(Normal)	13.2	21.7	15.5	44.3	88.6	363.6	267.8	380.3	195.9	75.3	12.3	7.6
Ambikapur	30.8	0.0	0.0	10.2	1.2	60.8	303.9	405.7	122.4	43.0	-	-
(Normal)	30.8	15.0	24.0	12.2	15.8	286.5	472.7	334.9	238.2	56.1	18.6	17.6
Mandya	-	-	-	-	-	17.0	85.0	17.0	255.8	159.9	18.4	-
Arabhavi	-	-	-	39.3	57.2	104.1	41.6	23.4	47.0	40.2	13.5	-
(Normal)	-	-	0.4	17.6	66.0	99.1	74.3	46.2	91.8	107.7	14.8	3.6
Coimbatore	10.0	-	0.5	107.2	167.3	51.8	46.4	27.0	96.9	288.8	155.8	-
(Normal)	14.0	9.2	17.0	52.7	66.5	42.8	68.8	30.1	68.0	146.0	118.0	-
Udaipur	-	-	-	-	-	64.6	85.0	284.8	152.0	47.8	-	-
Banswara	-	-	-	-	15.0	132.6	207.1	756.2	25.5	18.5	-	-

TABLE NO. IV : WIND VELOCITY KM/HOUR DURING 2004 AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Almora	-	-	-	-	-	-	-	-	-	-	-	-
Ludhiana	-	-	-	-	5.3	6.8	7.0	4.0	3.5	2.9	-	-
Pantnagar	3.0	3.2	4.5	5.6	7.1	6.5	5.0	4.8	3.5	2.3	1.5	-
Kanpur	-	-	-	-	-	9.3	7.2	7.8	4.6	3.0	-	-
Varanasi	-	-	-	-	-	9.2	7.0	6.1	4.0	2.8	-	-
(Normal)	-	-	-	-	-	6.1	6.0	5.5	5.5	2.6	-	-
Dholi	2.9	2.5	3.7	6.9	5.8	7.3	7.8	7.3	4.8	3.7	1.8	-
Ambikapur	2.0	2.6	4.8	5.7	6.4	8.4	5.0	3.6	3.1	2.0	-	-
(Normal)	2.5	3.5	4.4	5.2	6.0	6.7	5.0	3.5	2.9	2.4	2.2	2.4
Coimbatore	6.4	6.4	7.6	6.5	9.2	15.6	13.2	14.8	7.9	6.6	6.1	-
(Normal)	5.4	5.5	7.6	4.6	3.7	13.4	12.7	12.2	6.0	2.5	2.5	-
Udaipur	-	-	-	-	7.4	7.5	7.2	3.8	1.4	0.8	-	-
Banswara	-	-	-	6.6	10.7	11.4	8.1	8.5	3.2	2.2	-	-

TABLE NO V : MEAN HOURS OF SUNSHINE DURING 2004 KHARIF AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Bajaura	4.5	7.0	8.5	7.2	9.3	6.8	7.1	5.9	7.9	6.6	6.7	-
Ludhiana	-	-	-	-	10.9	8.2	7.9	7.3	8.9	7.4	-	-
Pantnagar	3.9	7.3	9.4	8.0	9.3	7.3	4.4	6.1	7.3	8.2	6.7	-
Varanasi	-	-	-	-	-	6.1	5.1	5.7	6.7	8.0	-	-
(Normal)	-	-	-	-	-	8.2	5.1	6.0	6.5	8.0	-	-
Dholi	5.1	8.3	8.5	8.4	8.8	6.3	4.0	7.0	5.3	7.3	8.1	-
Ambikapur	8.3	10.5	9.5	12.2	11.7	8.6	4.0	3.8	5.2	8.6	-	-
(Normal)	8.7	8.9	9.2	9.3	9.5	5.6	3.7	3.7	5.5	7.5	8.7	8.4
Coimbtore	7.8	9.4	9.8	8.7	4.6	6.6	5.2	6.7	5.3	5.7	5.0	-
(Normal)	8.7	9.5	9.9	8.6	8.2	5.8	4.6	5.8	5.2	6.3	6.1	-
Udaipur	-	-	-	-	10.8	8.2	6.3	3.1	7.8	7.0	-	-
Banswara	-	-	-	10.6	9.3	7.6	3.9	2.4	8.2	8.9	-	-

TABLE NO. VI : MEAN EVAPORATION/TRANSPIRATION (mm) DURING KHARIF 2004 AT VARIOUS RESEARCH CENTRES AT DIRECTORATE OF MAIZE RESEARCH

CENTRE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
Ludhiana	-	-	-	-	10.8	-	6.9	4.2	4.7	2.8	-	-
Pantnagar	1.1	1.9	4.7	7.5	8.3	6.4	4.8	4.3	3.8	2.9	1.9	-
Kanpur	-	-	-	-	-	6.3	5.8	3.8	6.5	2.9	-	-
Varanasi	-	-	-	-	-	5.3	3.9	3.7	3.7	2.8	-	-
(Normal)	-	-	-	-	-	8.2	4.6	3.4	3.4	3.3	-	-
Dholi	0.8	1.7	3.8	4.2	5.4	3.9	2.8	3.7	3.3	2.8	2.1	-
Ambikapur	2.5	3.9	6.2	8.1	9.9	6.3	3.9	2.4	2.5	2.4	-	-
(Normal)	2.7	4.2	6.7	9.2	10.8	7.1	4.1	3.5	3.5	3.4	2.9	2.6
Coimbtore	4.1	5.0	6.4	5.7	4.3	5.3	5.5	6.0	4.4	3.9	3.0	-
(Normal)	4.3	5.1	6.2	6.6	6.7	5.8	5.1	6.4	5.6	4.6	3.1	-
Udaipur	-	-	-	-	13.1	10.4	6.8	4.2	4.1	4.2	-	-
Banswara	-	-	-	8.3	1.2	2.3	2.2	2.3	1.7	0.7	-	-

TABLE VII : LOCATIONS AND SOIL CHARACTERISTICS OF THE VARIOUS RESEARCH CENTRES AT DIRECTORATE OF WATER RESEARCH

Sl No	CENTRE	LATITUDE	LONGITUDE	ALTITUDE (M)	SOIL TYPE	PH
1.	Srinagar	34.06 N	74.51'E	1652	Silty clay loam	-
2.	Almora	29.36 N	79.40'E	1250	Clay loam	5.8
3.	Auli	30.31 N	79.34' - 10 E	2680	Sandy loam	6.7-7.1
4.	Bajaura	32.2 N	77.0'E	1090	Sandy loam	6.5
5.	Salooni	-	-	1768	Silty loam	6.3
6.	Dhaura Kuan	30.5 N	77.5'E	456	Sandy loam	6.7
7.	Jorhat	26.46 N	94.16'E	91	Sandy loam	5.7
8.	Kalimpong	27 N	88'E	1070	Sandy loam	-
9.	Kalyani	23.5 N	89'E	9.75	Sandy loam	-
10.	Delhi	28.38 N	77.12'E	226.1	Loam to sandy loam	7.5-8.5
11.	Ludhiana	30.45 N	75.40'E	247		7.8
12.	Udaipur	24.55 N	73.41'E	572	Loam to sandy loam	8.2-8.4
13.	Banswara	23.5 N	73.58'E	218	Plaustrertt	-
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	26.51	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.	Wagenahalli	12.22 N	76.42'E	762	Sandy loam to gravel	5.4
26.	Mandya	12 N	76'E	695	Light red sandy loam	-
27.	Varanasi	25.20 N	83.0 E	128.93	Sandy loam loam	6.0
28.	Babraich	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	7.5

TABLE NO. VIII

AREA UNDER MAIZE IN DIFFERENT STATES OF INDIA
DURING 2001-02 TO 2002-03 .

STATE	KHARIF 2001-02	RABI	SUMMER	TOTAL	KHARIF 2002-03	RABI	SUMMER	TOTAL
1 ANDHRA PRADESH	338.0	91.0	-	429.0	414.0	112.0	-	526.0
2 ARUNACHAL PRADESH	37.6	1.0	-	38.6	39.5	1.0	-	40.5
3 ASSAM	19.6	-	-	19.6	19.8	-	-	19.8
4 BIHAR	246.3	187.4	163.9	597.6	264.7	190.7	164.1	619.5
5 CHATTISGARH	95.2	-	-	95.2	95.2	-	-	95.2
6 GOA	0.2	-	-	0.2	0.2	-	-	0.2
7 GUJARAT	443.5	-	-	443.5	464.5	-	-	464.5
8 HARYANA	18.0	-	-	18.0	16.0	-	-	16.0
9 HIMANCHAL PRADESH	301.3	-	-	301.3	297.0	-	-	297.0
10 JAMMU & KASHMIR	326.5	-	-	326.5	329.5	-	-	329.5
11 JHARKHAND	89.3	0.6	-	89.9	133.1	1.0	-	134.1
12 KARNATAKA	506.0	65.0	9.0	580.0	579.0	60.0	11.0	650.0
13 MADHYA PRADESH	863.0	-	-	863.0	850.1	-	-	850.1
14 MAHARASHTRA	254.5	71.0	-	325.5	301.2	70.0	-	371.2
15 MANIPUR	5.1	-	-	5.1	5.1	-	-	5.1
16 MEGHALAYA	16.9	-	-	16.9	16.9	-	-	16.9
17 MIZORAM	5.5	1.9	-	7.4	6.9	0.6	-	7.5
18 NAGALAND	40.0	-	-	40.0	40.0	-	-	40.0
19 ORISSA	51.0	0.5	-	51.5	42.0	1.1	-	43.1
20 PUNJAB	165.0	-	-	165.0	152.0	-	-	152.0
21 RAJASTHAN	1016.4	1.0	-	1017.4	983.3	0.3	-	983.6
22 SIKKIM	39.6	-	-	39.6	39.3	-	-	39.3
23 TAMIL NADU	32.5	79.8	-	112.3	33.9	83.3	-	117.2
24 TRIPURA	2.1	-	-	2.1	2.3	-	-	2.3
25 UTTAR PRADESH	940.1	-	-	940.1	779.0	-	-	779.0
26 UTTARANCHAL	34.6	-	-	34.6	35.0	-	-	35.0
27 WEST BENGAL	33.3	-	-	33.3	27.7	-	-	27.7
28 DELHI	-	-	-	0.0	-	-	-	0.0
29 OTHERS	-	-	-	0.0	-	-	-	0.0
	5921.1	499.2	172.9	6593.2	5967.2	520.0	175.1	6662.3

TABLE NO. IX

PRODUCTION OF MAIZE IN DIFFERENT STATES OF INDIA
DURING 2001-02 TO 2002-03 .

STATE	KHARIF 2001-02	RABI	SUMMER	TOTAL	KHARIF 2002-03	RABI	SUMMER	TOTAL
1 ANDHRA PRADESH	987.0	472.0	-	1459.0	912.0	574.0	-	1486.0
2 ARUNACHAL PRADESH	51.1	1.4	-	52.5	54.9	1.5	-	56.4
3 ASSAM	13.9	-	-	13.9	14.2	-	-	14.2
4 BIHAR	401.0	622.3	541.2	1564.5	445.3	485.1	376.1	1306.5
5 CHATTISGARH	70.9	-	-	70.9	124.3	-	-	124.3
6 GOA	0.8	-	-	0.8	0.8	-	-	0.8
7 GUJARAT	884.6	-	-	884.6	792.6	-	-	792.6
8 HARYANA	47.0	-	-	47.0	29.0	-	-	29.0
9 HIMANCHAL PRADESH	768.2	-	-	768.2	479.2	-	-	479.2
10 JAMMU & KASHMIR	538.1	-	-	538.1	465.1	-	-	465.1
11 JHARKHAND	112.1	1.8	-	113.9	239.0	2.0	-	241.0
12 KARNATAKA	1329.0	160.0	24.0	1513.0	1225.0	139.0	20.0	1384.0
13 MADHYA PRADESH	1706.1	-	-	1706.1	1500.7	-	-	1500.7
14 MAHARASHTRA	459.1	128.0	-	587.1	629.7	114.0	-	743.7
15 MANIPUR	10.1	-	-	10.1	8.5	-	-	8.5
16 MEGHALAYA	25.2	-	-	25.2	25.9	-	-	25.9
17 MIZORAM	13.7	2.9	-	16.6	13.8	1.1	-	14.9
18 NAGALAND	55.0	-	-	55.0	80.0	-	-	80.0
19 ORISSA	45.9	0.8	-	46.7	40.7	1.7	-	42.4
20 PUNJAB	449.0	-	-	449.0	310.0	-	-	310.0
21 RAJASTHAN	1477.5	2.0	-	1479.5	869.9	0.8	-	870.7
22 SIKKIM	54.4	-	-	54.4	45.9	-	-	45.9
23 TAMIL NADU	52.6	140.6	-	193.2	52.2	139.4	-	191.6
24 TRIPURA	2.1	-	-	2.1	2.2	-	-	2.2
25 UTTAR PRADESH	1513.1	-	-	1513.1	858.0	-	-	858.0
26 UTTARANCHAL	51.0	-	-	51.0	38.0	-	-	38.0
27 WEST BENGAL	86.4	-	-	86.4	55.3	-	-	55.3
28 DELHI	-	-	-	0.0	-	-	-	0.0
29 OTHERS	-	-	-	0.0	-	-	-	0.0
	11204.9	1531.8	565.2	13301.9	9312.2	1458.6	396.1	11166.9

TABLE NO. X

MEAN GRAIN YIELD OF MAIZE IN DIFFERENT STATES OF INDIA
DURING 2001-02 TO 2002-03 .

STATE	KHARIF 2001-02	RABI	SUMMER	TOTAL	KHARIF 2002-03	RABI	SUMMER	TOTAL
1 ANDHRA PRADESH	2920	5187	-	3401	2203	5125	-	2825
2 ARUNACHAL PRADESH	1359	1400	-	1360	1390	1500	-	1393
3 ASSAM	709	-	-	709	717	-	-	717
4 BIHAR	1628	3321	3302	2618	1682	2544	2292	2109
5 CHATTISGARH	745	-	-	745	1306	-	-	1306
6 GOA	4000	-	-	4000	4000	-	-	4000
7 GUJARAT	1995	-	-	1995	1706	-	-	1706
8 HARYANA	2611	-	-	2611	1813	-	-	1813
9 HIMANCHAL PRADESH	2550	-	-	2550	1613	-	-	1613
10 JAMMU & KASHMIR	1648	-	-	1648	1412	-	-	1412
11 JHARKHAND	1255	3000	-	1267	1796	2000	-	1797
12 KARNATAKA	2626	2462	2667	2609	2116	2317	1818	2129
13 MADHYA PRADESH	1977	-	-	1977	1765	-	-	1765
14 MAHARASHTRA	1804	1803	-	1804	2091	1629	-	2004
15 MANIPUR	1980	-	-	1980	1667	-	-	1667
16 MEGHALAYA	1491	-	-	1491	1533	-	-	1533
17 MIZORAM	2491	1526	-	2243	2000	1833	-	1987
18 NAGALAND	1375	-	-	1375	2000	-	-	2000
19 ORISSA	900	1600	-	907	969	1545	-	984
20 PUNJAB	2721	-	-	2721	2039	-	-	2039
21 RAJASTHAN	1454	2000	-	1454	885	2667	-	885
22 SIKKIM	1374	-	-	1374	1168	-	-	1168
23 TAMIL NADU	1618	1762	-	1720	1540	1673	-	1635
24 TRIPURA	1000	-	-	1000	957	-	-	957
25 UTTAR PRADESH	1610	-	-	1610	1101	-	-	1101
26 UTTARANCHAL	1474	-	-	1474	1086	-	-	1086
27 WEST BENGAL	2595	-	-	2595	1996	-	-	1996
28 DELHI	-	-	-	-	-	-	-	0
29 OTHERS	-	-	-	-	-	-	-	0
	1892	3069	3269	2018	1561	2805	2262	1676

STATION BREEDING PROGRAMME

SRINAGAR

- * 21 inbred lines developed at this station were crossed to three testers in a line x tester mating design to study the combining ability and extent of heterosis.
- * For early generation testing of S2 lines for their combining ability 24 lines were crossed to three testers in a line x tester mating design.
- * In population improvement programme in composites C6, C15, Super-1 and C8 were continued.
- * Inbreeding continued in 1337 lines (S1 - S4).
- * Out of 392 S2 lines introduced from CIMMYT 161 were better and they were maintained to next generation.
- * Promising germplasms were maintained .
- * Seed production programme of composites C6, C15 and Super-1 were undertaken.

BAJAURA

- * About 350 indigenous inbred lines (S2-S6) were advanced to next generation through selfing.
- * 43 inbreds received from DMR were evaluated and maintained.
- * 73 QPM inbreds in S4-S5 generation were subjected to one more generation of inbreeding.
- * Seed of 40 composites and 19 experimental hybrids was multiplied by controlled pollination for evaluation in various coordinated, zonal and station trials.
- * Nucleus and breeder seed production programme of released varieties, early composite and Girija Composite was carried out following half-sib progeny selection programme.
- * In Hill Early Yellow Pool (HEY Pool) 250 selected half-sib progenies were grown in isolation in 3: 1 ratio. Inter and intra family selection was carried out and undesirable progenies were detasselled. At harvest 400 ears from selected progenies were kept for evaluation in the next season.
- * Breeding work was initiated for the development of genotype for high altitude areas above 5000 feet MSL under NATP. About 200 local genotypes were evaluated during this season. Some population / composites were also constituted from early maturing material.

KANGRA

- * Development of inbred lines : From the best uniform available advanced breeding material from the coordinated trials is underway. 63 inbred lines (in different stages of selfing S1-S4) were evaluated for desirable traits and are being further advanced at Winter Nursery, Amberpet during rabi 2004-05.

- * Maintenance of germplasm : About 90 lines including inbreds and local germplasms were maintained through controlled pollination during kharif 2004.
- * Nine vigorous inbred lines have been used to develop diallel and evaluated during kharif 2004 along with parents in order to study GCA and identify new single cross hybrids.
- * Development of three way cross hybrids : 22 single cross were selected on the basis of their performance and evaluated with their parents.
- * Under composite development programme of yellow maize five populations are under selection and are being improved following half sib selection.
- * Seed of composite KLM-8 which was under test in zonal trial during kharif 2004 was multiplied through controlled pollination.

LUDHIANA

- * 32 promising early maturity hybrids were resynthesized during Rabi 2003-04 for evaluation during kharif 2004 in station as well as coordinated trials. Nine elite hybrids of QPM were also synthesized for evaluation. 18 waxy hybrids were made and evaluated during the kharif season.
- * Line x tester crosses of 88 normal maize lines of full season maturity and 7 testers were developed. Line x tester of waxy lines was also made. 50 other line x tester crosses were attempted and 37 new early maturity hybrids were successfully developed for evaluation during kharif season.
- * Few white grained and few dwarf yellow grained hybrids were developed.
- * About 1300 inbred lines of short and long duration material in various generations were maintained through selection / advanced. About 280 populations (215 early and 65 long duration) were also maintained through sibbing with mass selection .
- * 250 hybrids of long duration were evaluated in 15 trials at two locations in Punjab.
- * 17 populations of normal maize, forage and sweet corn were evaluated in three separate trials at two locations. Reconstituted pools Tux Pool C7 and MS Pool C7 synthesized during kharif 2002 were maintained through sibbing during kharif 2003.
- * 6 promising early maturing composites and 10 new early maturing composites were multiplied for evaluation during kharif 2004 in different trials.
- * Mass selection was conducted in 17 new germplasm collections for further improvement.
- * 16 promising inbred lines were evaluated during kharif for their response under drought stress condition.

* About 80 hybrids and 28 composites were evaluated during kharif in ten station breeding trials under irrigated and rainfed conditions at Ludhiana (irrigated and rainfed and Ballawal Saunkhari (rainfed only)).

PANTNAGAR

* Maintenance of inbred lines : More than 70 established inbred lines which are formally being used in hybrid development programme are being maintained.

* Development of inbred lines : New inbred lines from indigenous source populations and from CIMMYT Pop 33 and 45 have been developed. In all more than 150 fully established lines shall be available for evaluation in near future.

* Development of three way cross hybrids : More than 150 three way cross hybrids have been developed and evaluated

* Maintenance of germplasm : More than 60 pools, populations, synthetics from indigenous / exotic sources have been maintained.

* Maintenance of landraces / locals from Uttaranchal state: More than 100 collections were maintained which will be evaluated next year.

* Seed production of single cross hybrids and their potential inbred lines ; Large quantities of seed multiplied for the 7 hybrids under test at national / zonal levels.

* Screening of inbred lines for their per se performance as well as for various biotic (BSDM, BLSB) and abiotic (water logging and low nitrogen) stresses.

* Development of QPM and baby corn populations and hybrids

VARANASI

* Development and Evaluation of Inbred Lines: A total of 346 inbred lines (S1 to S4 stage) were planted for evaluation and further inbreeding. These lines belong to various maize germplasm which performs well at the centre. Good and uniform lines were selfed and will be planted in next rabi season for evaluation and further inbreeding.

* Evaluation of introduced inbred lines : A total of 38 inbred lines selected from Introduction Nursery, Hyderabad and planted during rabi 2003-04 at Varanasi. These lines were maintained by sib pollination / selfing. These lines were planted in Kharif 2004 for evaluation and seed multiplication. 6 lines were good and uniform which will be used in crossing programme.

* Eleven U.S. lines received from DMR during Kharif 2003 were planted for evaluation, maintenance and utilization in breeding programme. Good and uniform lines were sib pollinated. However, lines showing variation were further selfed.

* Evaluation and maintenance of elite germplasm / population : A total of eighteen population received from Pantnagar were planted for evaluation with three checks. Promising germplasm will be further used for developing the composite variety.

* Seed multiplication of parents and development of single cross: Seed of parental lines of three experimental single crosses were multiplied by sib pollination. Seed of single crosses were also produced for evaluation in next rabi season.

* Evaluation of experimental single crosses : A total of 52 experimental single crosses along with two checks namely X-3342 and BIO-9681 were evaluated in three replications to identify the promising experimental single crosses.

* Maintenance of CML inbreds: A total of 10 CML inbreds were maintained through sibbing.

DHOLI

* 51 exotic lines from DMR, New Delhi and CIMMYT, Mexico were evaluated and maintained by hand pollination

* 231 inbred lines derived from different heterotic population and pools were advanced and evaluated at S3 stage at inbreeding for further selfing and testing.

* 800 new inbred lines were derived from Dholi Synthetic Local Pool - 1 and 2 for further selfing and testing at S2 stage of inbreeding in ensuing rabi season 2004-05.

* Altogether 14 new promising experimental single cross hybrids were produced and their required seeds had been sent to DMR, New Delhi for inclusion in different stages of testing under coordinated trilas and another four experimental single cross hybrids were sent to DMR, New Delhi for testing under abiotic stress under coordinated trials in kharif 2004.

* Nucleus and breeder seeds of parental lines of QPM hybrids and open pollinated varieties were produced by controlled pollination.

AMBIKAPUR

* Maintenance of germplasm : Total 48 germplasm of maize collected from different parts of Bastar division of Chhattisgarh state have been maintained.

* Maintenance of Inbreds : 16 inbreds obtained from Maize Breeder, BHU, Varanasi have been maintained.

* Development of single cross hybrids : 12 single cross hybrids were developed on the basis of their performance in summer.

* Testing of single cross hybrids : Total 20 single cross hybrids developed last year have been tested this year in replicated yield trial with two checks (Pioneer 30R26 and Pro 4640). None of the single cross hybrids were found significantly superior over the check hybrids.

ARABHAVI

* In the station breeding programme 124 top cross progenies were evaluated to select best combiners for further breeding programmes. These top crosses were in combination with advanced S6 lines with CM - 501. Top 10 lines will be selected to affect diallel crossing programme during the ensuing season. Further 90 S3 progenies from CM-501 were isolated and these will be subjected to early generation testing in the coming season and only superior lines will be advanced for further isolation.

* The full season yellow pool is constituted after 4 cycles of recombination and already 350 S2 lines have been isolated. These 350 S2 lines are top crossed to CM-501 for early generation testing programme.

* The centre has also initiated work on early maturing hybrid development programme. In this direction two populations Renuka (G-25) and Parbhat are used. Parbhat was obtained from DMR. These two have been used for the isolation of new inbred lines. Total 500 selfs were made in each population.

* In sweet corn development programme, Renuka (G-25) an early maturing genotype and Madhuri were used. BC2 progenies are available to affect BC with Madhuri.

* Two three way cross experimental hybrids are in final stage evaluation at different (8) locations in the University. The performance of hybrids is either at par or superior to private hybrids. These two hybrids are also undergoing evaluation in the zonal trials.

KOLHAPUR

* Evaluation of single crosses : During kharif 2004 following station breeding programmes were undertaken.

1. Inter-University trials: Two Inter university trials (one IET of 22 entries and 1 AET of 22 entries) were conducted at three locations Kolhapur, Nagpur and Parbhani.

2. Multilocation trials : One multilocation evaluation trial of 27 promising single crosses was conducted at five within university locations viz. Kolhapur, Gandhinglaj, Karad, Pune and savali Vihir.

3. Station trials : Seven station trials of newly developed single crosses produced by way of different line x tester and diallel crossing programmes were conducted. Out of these four trials of yellow single crosses (122 entries), one of white single crosses (24 entries), one of white QPM (14 entries) and one of yellow QPM (13 entries).

* Inbred development programme : To develop inbred lines, 51 S1 and 27 S3 were grown and promising individual plants have been selected. Similarly selfed ears of promising single crosses from station trials have been obtained.

MONITORING TEAM REPORT

VARANASI

In general crop management and expression of genotype was good. Breeding trials Tr 65- rep 3, Tr 71- rep 4 and Tr 68-rep 1 may be rejected, because they were in bad patches. In trial no. 66, entry no. 13 is very late if compared to others. In trial no. 72, entry no. 1 looked promising. Trial no. 61A, 61B, 67 and 301 all were in different stages and it was not possible to assess the entries visually. In QPM Trial 2, entries 1 and 11 had very poor stand and were rejected.

In Agronomy trials, 4 coordinated trials were planted as per programme given by PI, Agronomy. Three trials of stage III (N x G early, medium and extra early) were planted. It was observed that the low dose was inferior in all the cases, whereas higher doses were better but the differences were apparent. In water logging experiment, under excess moisture conditions (Agronomy), raised bed treatment was observed to be good.

Two trials, one water logging and one normal condition were receive . In water logged conditions some of the entries were observed to suffer due to excess water but one or two plants which were not looking like same are making lot of change if their observations are added. Thus it was advised to Dr. Shahi that the observations on plot basis should be recorded separately.

BLSB and MLB incidence was observed in agronomy trials as well as in some of the breeding trials

AMBIKAPUR

The experiments were well managed. Fields were free from weeds. Some incidence of BLSB, MLB was observed, but due to unfavourable weather disease could not spread.

In trial no. 61, DMR 561 was observed to be very late. In trial no. 65, due to bad patch of soil, 4th replication was rejected. In IETs (TR 61B) some of the entries i.e. DMR 684, DMR 685, DMR 679 and DMR 681 were promising. In Tr 62B, DMR 619, DMR 620 and DMR 615 were promising. In trial no. 67, DMR-354 (early maturity) and in 66 (medium maturity) DMR - 425 were promising entries.

In Agronomy trials, interaction between main and sub factor was not visibly apparent (extra early and early maturity). In extra early maturity group DMR -1 was good at all levels of Nitrogen. In weed management trials, application of Atrazine @ 0.5 kg/ha + earthing at 30 DAS (T6), Pre-emergence application of Atrazine @ 0.75 kg/ha earthing at 30 DAS (T7) were observed better than rest of the treatments for weed control.

In Expt. No. 4, 100% recommended dose of nitrogen with weed management (treatment N4) and 50% of the recommended dose + FYM with weed management were better treatment. In inter-cropping experiment, Expt no. 5, maize in all type of combination was

good, but paired rows of maize with groundnut was apparently a better treatment (T5) than the rest of the combinations.

As informed by the Incharge, about 500 FLDs are planted in 8 districts of the state as per list provided to the monitoring team. The team visited some of the FLDs nearby Ambikapur and FLDs were observed to be very good.

In general this year rain was below normal (30% below normal) which has shown its effect at different stages of crop development. However the experiments had passed through critical stages so not much loss will be there.

Team advised the breeder that he should visit different stations specially, Winter Nursery, Hyderabad) to select the germplasms as per his requirement. The scientists of the station should interact with the concerned scientists of other stations in order to promote technical know how.

KANPUR

In Agronomy, N x G and method of sowing two experiments were conducted. In N x G trials three levels of nitrogen were used (40, 100 and 160 kg/ha) as a main factor, whereas germplasms were as sub-factor. 100 kg N appears to be better and varietal differences may be estimated later on. In method of sowing experiment, best results were visible in ridge sowing with nutrient level of 50 kg basal dose + 2 top dressings.

Breeding experiments in general as informed by the Incharge got a setback at the time of germination due to high temperature and later stages after flowering crop suffered due to drought. Just before the monitoring, the crop lodging due to wind storm and rains. Lodging also occurred due to stress caused by *Macrophomina* and termites.

Trial no. 62A, 65, 66 and QPM were rejected due to poor germination. Rest of the trials was in good condition. Proper attention has not been paid on planning and execution of breeding strategy. In some of the entries a practice of gap filling in breeding trials was observed which is not desirable. Breeder was advised not to follow this practice in future. These gap filled entries which were very late are rejected.

Nodal officer, FLD informed that they have taken up a 491 FLDs in different districts. Monitoring team visited some of the FLDs in Unnao. As informed most of the FLDs were already harvested. Variety used was PRO-311.

PANTNAGAR

In general, team observed good agronomic management. Expression of different trial was good. Some of the visually good looking entries are CHTTEY (Entry no. 325), Tr 65 (Entry no 14 and 12), in Tr 71 (Entry no. 2 and 4). In full season IET 61A and 61B, medium maturity trials 62A and 62B and Tr 66 and Tr 67, marked differences were not visible. In QPM -1 and QPM -2 some of the entries were good. In station trials specially the evaluation

of inbred lines for their yield potential is a good step and team feels that it should be continued in future also.

In breeding programme, emphasis has been laid on development of early maturing hybrids. The team was told about the testing of hybrids in IETs and AETs. A large number of single and three way cross hybrids have been developed. Test crosses have also been developed to evaluate the lines. Breeder and nucleus seed production programme has been taken up for composites and parents of Ganga-2. A large number of inbred lines have been developed which are likely to be evaluated in near future.

Team visited some of the FLD at Tanda Road and on Chorgaliya Road. There appears to be some impact of FLD which was visible on road side and few good maize fields of farmers were also seen.

ALMORA

As informed by Dr. Babu delayed planting was done as onset of monsoon was late. In general crop condition was good. Most of the trials were in dough stage. Just before the visit of monitoring team, torrential rains has caused lodging in some of the experiments, especially in trial QPM-2. Entry number 4 was poor in plant stand, hence rejected. In sweet corn trial, entry no. 7 was very late and at the time of monitoring it has not flowered while others approached to dough stage. Baby corn trial was harvested and its data was recorded.

In breeding programme major emphasis was laid on the development of early maturing hybrids. Special attention is being given to marker aided selection in speciality corn (QPM). A large number of inbred lines have been developed and being tried in different combinations for the development of single cross hybrids. In line evaluation nursery some of the lines were observed to be of great potential. Early generation lines are also being developed.

As informed by the nodal officer, 100 FLDs were allotted but only 30 FLDs were conducted in three blocks of districts Nainital and Uttar Kashi. Monitoring team visited some of the FLDs of Bhimtal block in district Nainital.

IARI, DELHI

All coordinated trials (14) and 4 zonal trials in A block were rejected as there was not proper growth and plant stand due to very poor rainfall. Station trials in block 9B were in good condition and all breeding materials planted in this block were in good condition.

All coordinated trials for MLB and BLSB, 247 lines from TAMNET programme and 2 entries of ICAR-CIMMYT collaborative project for BLSB were inoculated. Trap nursery and other inbred lines were being evaluated for MLB and BLSB, but symptoms were not very clear, as there were no rains for a very long period.

DMR, NEW DELHI

5 coordinated, 3 zonal and 3 CIMMYT trials were sown. All trials were in good condition except one coordinated trial i.e. QPM-1; hence this trial was rejected.

In Physiology programme, total five trials were planted including hybrids (test crosses) and inbred lines for screening against excessive soil moisture stress. Performance of number of F1 hybrids were excellent under excessive soil moisture stress.

In Agronomy trial, objective was to see the agronomic management in excessive soil moisture stress. Various treatments such as method of planting and foliar application of nutrient were applied. Foliar application of nitrogen under ridge planting was found to be least suffered due to excessive moisture.

65 inbred lines and varieties were being increased for future Pathology programmes. An experiment with 7 treatments, 4 replications, 4 rows of two materials is being conducted for the management of PFSR. Another experiment is being conducted to know the efficacy of Potash (3 levels of potash i.e. 0, 40 and 80 kg/ha) with three treatments, 4 replications, and 5 rows of each of two materials. Crop growth and other effects are very good.

In Entomology, 5 coordinated trials were sown for *Chilo partellus* screening. 531 lines are being maintained for homogeneity. Multiple borer resistant lines are developed, screened artificially and maintained.

UCHANI, KARNAL

In Breeding, all trials had good plant stand, good growth and well managed. Four replications and 5 meter row length should be used instead of 3 replications and 3m row length. Plot size should be same for all the centres.

9 Agronomy trials, well managed, good plant stand, data will be recorded as per plan.

Chilo incidence in natural condition was in traces and under artificial condition some hybrids were showing better tolerance than inbreds.

In Pathology, all trials were planted for screening against MLB. Low incidence was recorded under artificial conditions as there was draught from 22.06.04 to 01.08.04.

LUDHIANA

All trials and breeding materials were in excellent condition. Management was also very good. Agronomy trials are well managed and all sorts of effects in all the experiments are very clear. In Entomology trials, *Chilo* incidence in artificial condition are very clear. There was no incidence in natural condition. Incidence of MLB in artificial and natural conditions is very low.

KANGRA

All Breeding trials were planted except two trials due to late receipt. Plant stand in all trials was good except few entries where germination was affected. Good effort has been made for conducting the trials. However efforts should also be made for improving breeding programme as suggested.

3 Agronomy trials were conducted by Agronomy Scientists. (1) Organic production potential of some maize based cropping systems. (2) Development of integrated nutrient management system through organic sources. (3) Inter cropping studies : maize + soybean, maize + cowpeas for grain, maize + cowpeas for green manuring. Data will be recorded. As all trials are in 1st year, results will be concluded on the basis of first year data.

BAJAURA

All breeding trials were planted. Growth and stand in all trials were good except few entries. Management was very good. Management of Pathology was also very good. TLB, MLB and BLSB were found in traces. In Agronomy, only one N x G medium maturity trial was received and planted. There was no clear difference in treatments in this trial. This trial was sown late. It was suggested to plant this trial earlier.

CHHINDWARA

All allotted trials were successfully conducted as per plan Phenotypic expression and treatment differences were clear in all the trials, Crop management was excellent. Date wise data recording was done for all the programmes. Seed production of Jawahar-Makka-8, Jawahar-Makka -12, Jawahar-Makka-216 were undertaken in 0.6 ha for each at ZARS, Mohangaon and KVK, Betul farm, respectively.

Total 25 FLDs are being conducted during Kharif 2004 in different villages of dist. Chhindwara. A field day was organized on 20th Sep 2004 in village "KARABOH" . Monitoring team along with ADR of the station participated in this. The team also visited some FLDs and interacted with farmers. Farmers would like to adopt technologies given by the project.

All coordinated Agronomy trials were planted successfully. Agronomic management was good and treatment variations were visible in most of the trials. Apart from these some experiments based on local specific problems were also undertaken. The performance and treatment variations in these trials were good. In moisture management experiments, there was very good response of Brassinosteroids spray.

GODHRA

All the 32 breeding trials were planted in 2nd - 3rd week of July. Management of the trials was good. But due to

continuous heavy rains and lack of sunshine vegetative growth was not proper. At the time of monitoring stunted plants did not exhibit any significant differentiation. Hence team feels that reportable data could not be generated from these trials. Weather condition was not congenial at all for the plant growth.

3 coordinated and 6 station trials were conducted under Pathology. Since the post of Pathologist is vacant here, the Entomologist did the sowing. There were no significant differences in the integrated management trials of nematode. In general MLB was observed from traces to moderate and in some of the entries its incidence was severe. Bacterial leaf stripe and BSDM was also in traces.

Five station trials were conducted in Entomology, but no observations were recorded from sowing upto 70-71 days of sowing. However the infestation of stem borer was severe in some of the entries. Moderate infestation of Pyrilla, aphids, blister beetle and termites was observed.

In agronomy unit, all 4 N x G and baby corn trials were conducted. Agronomic management was good. It would be possible to harvest some produce from baby corn trials but it would not be possible to get any yield from N x G trials. In addition to these, 5 more trials based on local specific problems were conducted. Amongst these trials treatment variation was visible in INM trials. However other trials failed to show treatment variation. It would be possible to generate better information from the residual studies so the trials may be continued.

150 FLDs were conducted using GM-2, GM-4, GM-6 and Narmada Moti varieties with all inputs. Due to continuous heavy rains and cloudy weather most of the trials were not in a good condition.

BANSWARA

All 20 trials were conducted under maize breeding. But due to heavy rains after the sowing (703 mm) crop remained in water logged condition and did not exhibit proper expression of growth. Hence team feels that reportable data could not be obtained from these trials. Some breeding materials were observed in station hybrid trials. Their performance was satisfactory. In inbred development and maintenance programme, it was advised to remove the off type plants.

Total 8 trials (N x G) early medium and late, INM through organic sources in maize wheat system, moisture management in rainfed maize, IWM in maize wheat system, study on seed priming and Agronomic trial on Pop corn) were sown but due to continuous heavy rains and lack of sunshine most of the experiment except INM seems to be failed due to lack of proper expression.

In all breeding and agronomic trials, leaf spots and MLB were observed severely whereas brown spot and bacterial leaf stripe were trace to moderate. In all the trials, there was sporadic infestation of stem borer and aphids.

Under ISOPOM, a total of 419 FLDs were conducted through ARS, Banswara, Pratapgarh, KVK, Banswara and Durgapur using PEHM-2, Mahi Dhawal, Mahi Kanchan, Navjot, KH 510, ITC 701. Some of the FLDs were visited by the monitoring team. Performance of the FLDs were average. The team participated in field day at "Kundala Basti".

KOLHAPUR

Inter university trial on maize of Maharashtra state planted at Nagpur were visited by the team on 23.09.04. Trials IUT 401, 402, along with MVT and MHT were conducted by Dr. N. V. Sorte, Assoc Prof., Botany, College of Agriculture, Nagpur. Performance of these trials were satisfactory. However strengthening of maize programme is needed along with financial assistance.

In all 18 coordinated maize breeding trials, 2 zonal , 1 CIMMYT and 10 station trials were planted . Performance of all the trials was excellent. However, sweet corn trial failed due to planting in low lying area resulting in water logging and crop failure. Baby corn was not planted. In tr 64, plot no. 6547 and 6548 exhibited poor growth. In Trial no. 67A plot no 7259, 7273 and 7262 showed very poor vigour. In Trial no 67, plot no 6023 showed poor germination. Heavy incidence of TLB and BLSB was observed in trial no. 71 (entry no 5106).

41 FLDs were planted on pre release promising composite MPQ-13. Some of the FLDs were visited by the monitoring team. Performance of the composite in FLDs was good. Farmers response was affirmative.

In agronomy unit, 4 coordinated viz. 3 N x G and one more trials were conducted. Agronomic Performance of medium and full season Agronomic trials were good. Crop growth of early and one Agronomic trial on sweet corn was satisfactory to good. In addition to these, 5 more trials based on local specific problems were conducted. The treatment variation and performance of crop was good in this trial.

Under Entomology, screening of maize germplasm against Chilo under artificial condition. In trial no 75 release of Chilo could not be done due to unavailability of the culture. In Trial no. 75 and 76 planted nicely but a few of the germplasm escaped because of rains at the time of release. Screening against stored grain pests was satisfactory. Function of aerial trap was not satisfactory because insects could not be trapped though its placement in the field was correct.

UDAIPUR

All the 31 breeding trials were successfully conducted. Performance of all the trials was excellent with a good crop management. There were significant differences in genotypes of different maturity. The crop was in grain filling stage at the time of monitoring. Seed production of Pratap Makka-3 was taken.

Breeding materials particularly related to draught tolerance were planted along with the parental lines of experimental hybrids.

Field day (Makka diwas) was organised in vill "Panchdevla" (Chittorgarh) on 15-09-04. Monitoring team actively participated in that. 499 FLDs were planted in four districts including Udaipur, Chittorgarh and Sirohi through DEE and KVK, MPUAT, Udaipur. Performance of FLDs was satisfactory.

In pathology, all coordinated and station trials were planted in between 4th to 30th July against RDM, PFSR diseases. All were timely inoculated artificially with virulent strains of their respective pathogens. Congenial conditions were provided for the development of RDM infection. Besides these BLSB experiment was also conducted under AMBIONET programme. Observation of RDM was recorded twice and as high as 100 % infection was recorded in some entries, whereas 30 entries exhibited high level of field resistance i.e. 0%. PFSR observations are in progress. IPM FLDs were also conducted and all were in good condition. Survey and surveillance programme is in progress.

All the entomology experiments of kharif 2004 viz. screening of germplasm against Chilo sp., screening of inbreds, IPM module evaluation, control of grasshoppers, and testing against termite were conducted as per the plan. All the experiments were excellent and good agronomy was maintained in the experiment. The symptoms of Chilo infestation were very clear as a result of timely release of egg masses in the crop. Observations were recorded timely. Survey for the insect fauna in the region was done regularly.

Under Maize nematology, various experiments viz. evaluation of entries, population dynamics, assessment of avoidable losses in maize caused by H. zea, management of maize cyst nematode through chemicals and plant products and management through seed treatment with plant product are laid out in an infected field having initial inoculum of 1200 larvae / 100 cc soil. The crop stand is excellent and treatment differences are significantly clear in the field.

All agronomy trials were conducted successfully as per programme. The performance of trials were good.

ARABHAVI

27 breeding trials were successfully conducted by ARS, UAS, ARABHAVI centre. All the trials exhibited clear-cut expression and differences among the genotypes. Crop management was good. Seed production of DMH-2 was being taken under University revolving fund. Indented parental seed will be produced in rabi 2004-05. Sweet corn Madhuri and Amber pop corn seeds are also maintained and multiplied in time isolation. X1Y and X2Y heterotic pools were maintained and completed 4 cycles and are ready for supply to cooperating centres.

200 FLDs were planted in nearby villages with hybrid DMH-2. Some of the FLDs were visited by the monitoring team. Team

interacted with the farmers. Farmers were satisfied by the project scientist in dissemination of technologies.

Under Maize pathology, all the 12 coordinated and 6 station trials have been properly laid out and sowing was done at the right time. Standard inoculums for TLB and common rust have been done twice at the appropriate stages. Several entries showed high resistance (5.0) of TLB and some of entries have shown good tolerance (1.0). Observations are in progress. ON a whole, all pathology trials were in excellent condition as far as the inoculum load is concerned. Pathologists also conducted experiment for charcoal stalk rot.

BAHRAICH

Five agronomic experiments were allotted to Bahraich centre. All the 5 were conducted as per schedule. 3 experiments were on N x G of extra early, early and medium maturity group. In the first two, N doses were 40, 60 and 100 kg/ha. In extra early maturity, better performance was exhibited by 1003, 1001 and 1002 at 100 kg/ha. Similar performance was observed in early group also. The best performance was noted in DMR 1093 followed by 1092. In medium maturity, the three doses of nitrogen were 60, 120 and 180 kg/ha. Entry 1042 performed best at 60 kg, While DMR 1044 and 1045 performed at 180 kg/ha. In such cases, soil test values is more important.

Testing of germplasm at excessive moisture condition under agronomic manipulations, ridge sowing followed by raised bed sowing + 3% urea spray at 35th and 52nd das performed best. In organic sources trial, crop sown after burying of Lobia in situ showed best performance followed by maize after incorporation of "Dhaincha".

Out of total 175 FLDs conducted by T.O. KVK, bahraich the team visited few of them. Two varieties BISCO Bumper and Proagro - 4212 were used. Inter cropping with pigeon pea were also sown in two way. One both the crop sown on same day and in other pigeon pea sown after 30 days. The former method showed better result. BISCO Bumper performed better than Proagro - 4212. The overall performance of FLDs was commendable.

BELIPAR

All the trials were examined by the monitoring team. All the experiments were conducted well. The crop in some of the trials were weak due to draught and bad soil.

DHOLI

All the breeding trials were upto the mark. In trial No. 72, plot no. 5001, in trial 71 plot no. 5404 were exceptionally good in AET 2nd year. But in QPM-2, DMR-4 in plot no. 7708 germination did not occur hence it might be deleted. The CIMMYT trials were planted and were in flowering stage.

Two trials of QPM were received for screening against *Chilo partellus* under natural conditions, Since, the sowing was done on 2nd July, the natural infestation was poor. The germination was affected as heavy rains immediately followed the sowing. It is suggested that the seed is made available by the 2nd fortnight of May so that the natural infestation is good enough for the screening.

In Agronomy, four coordinated experiments were allotted, out of which three were done on three nitrogen doses on different maturity period, germplasm. In extra early maturity, three lines 1001, 1002 and 1003 were tested at three levels of N i.e. 40, 100 and 160 kg/ha. Best entry was DMR 1001 at 10 Kg. In early group, 8 entries with four replication at same N doses were conducted. In this trial DMR 1091 followed by 1092, 1094 and 1098 showed better performance at 100 kg. N3 (160 kg N/ha) did not show good performance in early and extra early maturity groups. In medium maturity, the three doses of nitrogen were 60, 120 and 180 kg/ha in the 4 replications. Entry 1042 followed by 1042 and 1044 performed best at 120 kg. At N3 (180 kg/ha), the plants lodged. It was felt by the monitoring team that moderate doses of nitrogen like 70, 90 and 110 kg/ha should be tested as both extreme doses did not do well.

Under maize pathology, a total of 13 trials (11 related to the screening against MLB under artificial inoculation condition and 2 under trap nursery and IPM) were planted on 11th July 2004. The 11 trials were 61A, 61B, 62A, 62B, 63, 64, 75, 76, 77, QPM-1 and QPM -2. CML-186 was the susceptible check, which indicated the disease pressure of more than 4 at the rating scale of 1-5. Overall performance of most of the trials was good and properly followed with recommended package of practices. Trials of IPM conducted in farmer's field was damaged badly by water logging condition created by devastated flood in the area.

Both QPM trials trials were good at PUSA. In white hybrid trial 2464 x CML 150 was better than the other crosses. In yellow hybrid trials 2237 x CML 161 and 2335 x 2825 were better than the others.

KUSMAUT

The monitoring team visited Kusmaut farm and examined the trials. Good crop management was followed in all the trials, however in three trials very poor plant stand was noticed reportedly by heavy damage done by rats soon after sowing. In trial no 71 the entry DMR 151 was observed better than the others. In Trial no. 72 DMR 101 and in trial no. 70 DMR 192 showed better performance.

The staff was advised to control the rats and pests.

JASHIPUR

Agronomy: 3 coordinated trials were allotted to the center viz. N x G early maturity, N x G extra early maturity and N x G medium

maturity. In N x G medium maturity trials five entries namely DMR 1041, 1042, 1043, 1044 and 1045 were tested at 60, 120 and 180 kg / ha N level replicated thrice. As the soil test value of the centre rated in low organic matter category, hence the response was best at higher dose i.e. 180 kg. Entries DMR 1045 followed by 1042 and 1043 performed good.

N x G extra early maturity and N x G early maturity group nitrogen levels were 40, 100 and 160 kg/ ha entries being 3 and 8, respectively. In extra early DMR 1001 followed by 1003 and 1002 showed better performance at 100 Kg/ha N. Similar was the trend in early maturity, where DMR 1092 followed by 1094 and 1098 showed better performance at 100 Kg/ha N.

In station trial sweet corn intercropped with four vegetable crops such as lady finger, radish, cowpea and green chaulai were tested in 1:1 and 1:2 ratio. In this trial radish and green chaulai were harvested and there two i.e. okra and cowpea are still being harvested. The monitoring team suggested to use improved varieties in place of local varieties in intercrops.

Breeding : All the trials planted at the station showed good to average expression of the genotype except trial no. 64, pop corn, baby corn and QPM-1. These were rejected due to very poor plant population and growth. In trial no. 70 - entry no. 2, trial no. 71- entry no. 3 and 1, trial no. 72 - entry no. 1 performed better than others. In 67A , entry no. 3 was late. Entry no. 4 and 11 in QPM-2 showed very poor germination which may be deleted.

Pathology : In the screening of germplasm by artificial inoculation against MLB following entries showed resistance and susceptibility

Trial	Entries showing resistance	Entries showing susceptibility
No.		
61A	1, 2, 7, 16, 17, 19	3
61B	2, 3, 17, 20	10
62A	5, 11, 12, 18, 20	3, 9
62B	1, 8, 9, 14	5, 6, 7, 16
63	18, 19, 20, 22, 23, 25	4, 10, 33
64	4, 5, 6, 14, 19, 21, 22	4
75	1, 2, 4, 29, 34, 35, 39, 40, 41, 44	19, 51, 52
76	7, 18, 22, 31, 32	3, 27, 35
77	1, 9, 11, 15, 17	7

In disease trap nursery, 15 inbreds were evaluated under natural condition. MLSB, BLSB and Cervularia leaf spot were observed as major diseases. In IPM trials, out of 8 treatments Kusum oil cake at sowing followed by Mancozeb spray after disease appearance showed best management of MLB and BLSB.

FLDs: Jashipur centre conducted FLDs in 63 acres involving 8 clusters in three blocks in Mayurbhanj district as reported by the station team. 12 acres were visited by the monitoring team.

Seven varieties were used, out of which better performance was indicated by "Navjot" followed by "Pusa Comp-2" and 'Parbhat.' Farmers of most of the villages were very enthusiastic and the conditions of FLDs was excellent. The team suggested to promote 'Pragati composite' for future. The liaison between station team and farmers was very good.

HYDERABAD

ARS, Amberpet conducted all allotted trials. However, trial 67, 67A, 68, QPM-1 and QPM-2 failed due to waterlogging and poor germination. Weed management was not satisfactory.

KARIMNAGAR

ARS, Karimnagar conducted all allotted trials. By and large trials were in good condition except extra early trials where crop failed due to lack of rain at critical stages.

COIMBTORE

Monitoring team visited the Coimbtore centre on 22nd and 23rd Sep 2004. This station conducted all the allotted coordinated trials. Crop in general was in good condition. This station also conducted zonal and station trials. Baby corn trial was already harvested. Monitoring team was of opinion that breeding programme should be further improved.

FLDs were visited by the team and these trials were in excellent stage. Crop was in pre tasseling stage. During the meeting with Director, school of Genetics it emerged that maize is replacing cotton in some regions of the state.

Downy mildew nursery was very effective and screening done may be treated reliable. TLB was observed to be very severe and some entries were totally burnt. However several entries showed good tolerance.

MANDYA

Monitoring team visited Mandya station on 24th Sep 2004. Crop condition and management of trials was good. However, blocking of trials was not done properly apparently to save space. Natural outbreak of downy mildew was severe but some entries showed good tolerance. Station scientists made repeated request for a bore well.

NAGENHALLI

All the trials 61A, 61B, 62A, 62B, 63, 64, 75, 76 and 77 were planted. Evaluation of inbred lines and multilocation trials were conducted. Crop was in good condition. Disease reaction and recording was proper. Some good lines for downy mildew were found. Good management was there.

PROAGRO, BANGLORE

The monitoring team visited Proagro, Bangalore on 26th Sep 04. This station conducted 4 coordinated trials viz. 61A, 61B, 63 and 71. All trials were well managed. Plant stand was near perfect. TLB outbreak was quite severe and downy mildew screening was being done effectively.

MONSANTO, BANGLORE

They conducted 10 trials and management of trials was very good. Blocking of trials was not proper. Downy mildew occurred in very severe form and some entries were extremely susceptible. In Trial 61B, entry no. 22 had poor germination in two replications.

ZUARI SEEDS, BANGLORE

Zuari seeds conducted four trials viz. 61A, 61B, 69 and 71. Crop was in excellent condition. Lay out was proper. Station trials were very impressive and some hybrids appeared to have high yield potential.

TRIAL NO. 61A ZONE IET FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4

LOCATION

BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI,
 DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BELIPAR, VARANASI,
 DHOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR,
 ARBHAVI, MANDYA KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA,
 CHHINDWARA, KANCHAN GANGA, SEEDTEC, EMERGENT GENETIC, SONS SEED,
 NATH SEED, SPIC, PHS, GANGA KAVERI, ZAUZRI SEED, KAVERI SEED,
 SYNGENTA, MONSANTO, NATURE GREAT SEED, JK AGRI, BIO SEED'S, PROAGRO,
 NAGARJUNA, KRISHI DHAN

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H - 10733	DMR - 631	LUDHIANA	7019	7033	7057	7093
2	PRO - 311 (CHECK)	DMR - 632	PROAGRO	7012	7034	7061	7092
3	A H - 31413	DMR - 633	DELHI	7006	7028	7055	7083
4	H K H - 1215	DMR - 634	KARNAL	7024	7038	7071	7095
5	M H 04 - 1	DMR - 635	DHOLI	7002	7045	7054	7084
6	MS POOL C7	DMR - 636	LUDHIANA	7015	7041	7072	7082
7	S M H - 3303 (Y)	DMR - 637	SHAKTHI SEEDS	7025	7026	7066	7098
* 8	G S - 721	DMR - 638	NATURE GREAT SEED	7021	7039	7073	7091
* 9	N M H - 1122	DMR - 639	NATH SEED	7001	7032	7062	7076
*10	VIPL - 1903	DMR - 640	NAGARJUNA SEED	7018	7049	7051	7077
11	M C H - 23	DMR - 641	MONSANTO	7020	7040	7067	7097
*12	P R O - 365	DMR - 642	PROAGRO	7008	7048	7068	7087
13	C - 302	DMR - 643	SPIC	7004	7029	7070	7094
14	B I O - 31006	DMR - 644	BIO SEED'S	7023	7030	7053	7086
15	N E C H - 128	DMR - 645	SYNGENTA	7011	7044	7056	7080
*16	X - 5 L 40	DMR - 646	KANCHAN GANGA	7005	7042	7052	7078
17	P H S - 25 (Y)	DMR - 647	PHS	7009	7036	7063	7079
*18	BISCO - 1024	DMR - 648	BISCO	7016	7037	7064	7081
*19	SEEDTEC - 1044	DMR - 649	SEEDTEC	7014	7027	7065	7100
20	P M Z - 140	DMR - 650	EMERGENT GENETIC	7007	7046	7060	7099
*21	Z M H - 1921	DMR - 651	ZUARI SEEDS	7010	7043	7074	7090
22	M H 04 - 3	DMR - 652	DHOLI	7022	7050	7058	7088
CHECKS:							
23	BIO - 9681	DMR - 653	BIO SEED'S	7017	7035	7075	7085
24	PARBHAT	DMR - 654	LUDHIANA	7003	7047	7069	7089
25	SEEDTEC - 2324	DMR - 655	SEEDTEC	7013	7031	7059	7096

PATHOLOGY

DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL
 NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA
 COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 61B ZONE IET FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA, KANCHAN GANGA, SEEDTEC, EMERGENT GENETIC, SONS SEED, NATH SEED, SPIC, PHS, GANGA KAVERI, ZUZRI SEED, KAVERI SEED, SYNGENTA, MONSANTO, NATURE GREAT SEED, JK AGRI, BIO SEED'S, PROAGRO, NAGARJUNA, KRISHI DHAN

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	H K H - 1179	DMR - 661	KARNAL	7123	7135	7175	7194
2	J H - 10858	DMR - 662	LUDHIANA	7116	7131	7152	7200
3	M H 04 - 2	DMR - 663	DHOLI	7102	7147	7171	7199
4	A H - 31410	DMR - 664	DELHI	7103	7126	7167	7198
5	TUX POOL C7	DMR - 665	LUDHIANA	7114	7137	7157	7182
* 6	Z M H - 1837	DMR - 666	ZUARI SEEDS	7111	7140	7154	7184
* 7	S G M H - 103	DMR - 667	SONA SEED	7121	7129	7164	7191
8	J K M H - 51	DMR - 668	JK AGRI	7105	7143	7174	7185
9	G K - 3050	DMR - 669	GANGA KAVERI	7124	7142	7170	7179
10	PARAS JANAK	DMR - 670	EMERGENT GENETIC	7109	7136	7159	7192
11	C - 555	DMR - 671	SPIC	7119	7138	7172	7180
12	B I O - 31030	DMR - 672	BIO SEED'S	7108	7134	7155	7181
*13	N M H - 1133	DMR - 673	NATH SEED	7106	7145	7163	7197
*14	BISCO - 1014	DMR - 674	BISCO	7120	7139	7162	7190
15	X - 2406	DMR - 675	KANCHAN GANGA	7117	7149	7156	7189
*16	VIPL - 1807 (W)	DMR - 676	NAGARJUNA SEED	7110	7132	7165	7178
17	N E C H - 129	DMR - 677	SYNGENTA	7115	7148	7166	7176
18	KAVERI - 244	DMR - 678	KAVERI SEEDS	7113	7127	7168	7193
19	M C H - 24	DMR - 679	MONSANTO	7104	7150	7169	7195
*20	SEEDTEC - 1034	DMR - 680	SEEDTEC	7125	7146	7161	7188
*21	KDMH-3875	DMR - 681	KRISHIDHAN SEED	7107	7141	7153	7186
CHECKS:							
22	PRO - 311	DMR - 682	PROAGRO	7112	7133	7173	7196
23	BIO - 9681	DMR - 683	BIO SEED'S	7101	7130	7158	7187
24	PARBHAT	DMR - 684	LUDHIANA	7118	7144	7151	7177
25	SEEDTEC - 2324	DMR - 685	SEEDTEC	7122	7128	7160	7183

PATHOLOGY DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL, NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA, COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 62 A IET MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION

BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI, DELHI, KARNAL LUDHIANA, PANTNAGAR, KANPUR, BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA, KANCHAN GANGA, J K AGRI, VIBHA SEED, MONSANTO, SYNGENTA, KAVERI SEED, PHS, SONA SEED, EMERGENT GENETIC, SEEDTEC, NAGARJUNA SEED

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	A H - 31417	DMR - 571	DELHI	6815	6828	6849	6879
2	V - 34	DMR - 572	VARANASI	6803	6842	6852	6867
3	L - 180	DMR - 573	BAJAURA	6814	6826	6860	6885
4	CHH - 219	DMR - 574	CHHINDWARA	6821	6825	6862	6869
5	J H - 10877	DMR - 575	LUDHIANA	6805	6835	6848	6884
6	L - 186	DMR - 576	BAJAURA	6802	6838	6850	6883
7	H K H - 1191	DMR - 577	KARNAL	6811	6823	6859	6881
8	M H - 03-2	DMR - 578	DHOLI	6809	6836	6857	6870
9	V - 32	DMR - 579	VARANASI	6806	6840	6847	6874
10	A H - 31406	DMR - 580	DELHI	6810	6844	6858	6876
*11	SGMH - 104	DMR - 581	SONA SEEDS	6807	6841	6861	6886
*12	N E C H - 130	DMR - 582	SYNGENTA	6812	6831	6846	6878
13	X - 85	DMR - 583	KANCHAN GANGA	6819	6827	6865	6871
14	PMZ - 150	DMR - 584	EMERGENT GENETIC	6817	6839	6851	6887
*15	SEEDTEC - 2044	DMR - 585	SEEDTEC	6818	6829	6845	6872
*16	BISCO - 2024	DMR - 586	BISCO	6822	6834	6856	6875
17	J K M H - 702	DMR - 587	JK AGRI	6808	6830	6853	6888
*18	V M H - 206	DMR - 588	VIBHA SEEDS	6801	6837	6863	6873
*19	VIPL - 1505	DMR - 589	NAGARJUNA SEED	6816	6843	6855	6882
20	S M H - 3103	DMR - 590	SHAKTHI SEEDS	6804	6833	6866	6880
CHECK:-							
21	KH 510	DMR - 591	KANCHANGA	6820	6824	6854	6877
22	NAVJOT	DMR - 592	LUDHIANA	6813	6832	6864	6868

PATHOLOGY DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL, NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA, COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 62B 1BT MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI, DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR, BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, CHHINDWARA, KANCHAN GANGA, J K AGRI, VIBHA SEED, MONSANTO, SYNGENTA, KAVERI SEED, PHS, SOMA SEED, EMERGENT GENETIC, SEEDTEC, NAGARJUNA SEED

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	M H - 03-1	DMR - 601	DHOLI	6912	6927	6968	6982
2	V - 33	DMR - 602	VARANASI	6916	6938	6950	6971
3	H K H - 1188	DMR - 603	KARNAL	6923	6944	6965	6977
4	L - 185	DMR - 604	BAJAURA	6913	6939	6956	6974
5	E C - 3138	DMR - 605	UDAIPUR	6910	6925	6951	6984
6	CHH - 218	DMR - 606	CHHINDWARA	6919	6945	6962	6989
7	A H - 31408	DMR - 607	DELHI	6901	6930	6954	6976
8	H K H - 1211	DMR - 608	KARNAL	6905	6932	6966	6979
9	A H - 31403	DMR - 609	DELHI	6917	6946	6947	6991
10	P H S - 79 (WHITE)	DMR - 610	PHS	6907	6934	6967	6978
*11	J K M H - 1472	DMR - 611	JK AGRI	6911	6928	6948	6973
12	P M Z - 139	DMR - 612	EMERGENT GENETIC	6904	6941	6953	6972
*13	SEEDTEC - 2034	DMR - 613	SEEDTEC	6918	6931	6949	6980
*14	VIPL - 1504 (W)	DMR - 614	NAGARJUNA SEED	6903	6936	6960	6981
*15	BISCO - 2014	DMR - 615	BISCO	6908	6924	6952	6990
*16	X - 612 (W)	DMR - 616	KANCHAN GANGA	6902	6937	6964	6975
*17	S S F X-2456	DMR - 617	SSF	6921	6926	6959	6986
18	M C H - 25	DMR - 618	MONSANTO	6922	6929	6961	6970
19	KAVERI - 2727	DMR - 619	KAVERI SEEDS	6915	6933	6955	6988
*20	BIO - 31001	DMR - 620	BIO SEED'S	6909	6940	6958	6992
*21	Y M H - 4	DMR - 621	YAGANTI SEED	6906	6935	6963	6985
	CHECK:-						
22	KH 510	DMR - 622	KANCHANGA	6920	6942	6957	6983
23	NAVJOT	DMR - 623	LUDHIANA	6914	6943	6969	6987

PATHOLOGY DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL
 NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA
 COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 63 ZONE IET EARLY MATURITY

YEAR 2004 KHARIF

NO OF ROWS 2

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI, DELHI, KARNAL LUDHIANA, PANTNAGAR, KANPUR, BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA, POC CHHINDWARA, SEEDTEC, EMERGENT GENETIC, SONA SEED, MONSANTO, VIBHA SEED, JK AGRI, KANCHANGANGA, PROAGRO,

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H - 31013	DMR - 531	LUDHIANA	6613	6663	6691	6734
2	J H - 3982	DMR - 532	LUDHIANA	6631	6649	6702	6710
3	J H - 31041	DMR - 533	LUDHIANA	6628	6640	6699	6716
4	J C - 3272	DMR - 534	LUDHIANA	6621	6650	6673	6733
5	L - 201	DMR - 535	BAJAURA	6627	6646	6692	6722
6	F H - 3273	DMR - 536	ALMORA	6620	6645	6705	6727
7	F H - 3289	DMR - 537	ALMORA	6619	6638	6681	6715
8	E H - 1389	DMR - 538	UDAIPUR	6615	6656	6690	6737
9	E H - 1485	DMR - 539	UDAIPUR	6606	6652	6695	6720
10	B V M - 4-1	DMR - 540	BIRISA	6634	6641	6687	6711
11	B V M - 8	DMR - 541	BIRISA	6622	6648	6698	6725
12	H K H - 1199	DMR - 542	KARNAL	6630	6658	6703	6709
13	H K H - 1237	DMR - 543	KARNAL	6629	6666	6701	6713
14	A H - 31405	DMR - 544	DELHI	6609	6665	6675	6721
15	A H - 31415	DMR - 545	DELHI	6607	6647	6685	6723
*16	SEEDTEC - 3034	DMR - 546	SEEDTEC	6608	6668	6694	6724
*17	SEEDTEC - 3044	DMR - 547	SEEDTEC	6633	6636	6700	6738
*18	BISCO - 3014	DMR - 548	BISCO	6617	6664	6693	6719
*19	BISCO - 3024	DMR - 549	BISCO	6618	6643	6679	6740
20	PMZ - 146	DMR - 550	EMERGENT GENETIC	6604	6661	6688	6718
*21	S G M H - 105	DMR - 551	SONA SEEDS	6635	6637	6683	6706
22	M C H - 26	DMR - 552	MONSANTO	6605	6667	6674	6732
23	M C H - 27	DMR - 553	MONSANTO	6603	6653	6678	6714
*24	V M H - 224	DMR - 554	VIBHA SEEDS	6623	6662	6704	6736
25	J K M H - 10	DMR - 555	JK AGRI	6610	6655	6697	6707
*26	J K M H - 204	DMR - 556	JK AGRI	6611	6639	6676	6729
*27	S S F X- 2476	DMR - 557	SSF	6632	6669	6684	6728
28	X - 2484	DMR - 558	KANCHAN GANGA	6626	6651	6672	6726

TRIAL NO. 63 (CONT.)

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
*29	X - 2489	DMR - 559	KANCHAN GANGA	6612	6644	6682	6708
*30	PRO - 366	DMR - 560	PROAGRO	6625	6657	6686	6717
31	X - 1363 B	DMR - 561	POC	6616	6642	6671	6739
	CHECKS:						
32	X - 3342	DMR - 562	POC	6602	6670	6677	6735
33	MAHI KANCHAN	DMR - 563	UDAIPUR	6614	6660	6696	6730
34	KIRAN	DMR - 564	LUDHIANA	6624	6654	6680	6712
35	PARKASH	DMR - 565	LUDHIANA	6601	6659	6689	6731
*36	Y M H - 5	DMR - 566	YAAGANTI SEED	6601A	6659A	6689A	6731A

PATHOLOGY

DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL
 NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA
 COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 64 ZONE IET EXTRA EARLY MATURITY

YEAR 2004 KHARIF

NO OF ROWS 2

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING

SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT,
 HARAPANI, DELHI, KARNAL LUDHIANA, PANTNAGAR, KANPUR,
 BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT, JASHIPUR,
 AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA,
 KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA, GODHRA,
 CHHINDWARA, J K AGRI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	D E H - 105	DMR - 501	PANTNAGAR	6509	6536	6552	6580
2	D E H - 107	DMR - 502	PANTNAGAR	6519	6541	6570	6585
3	D E H - 111	DMR - 503	PANTNAGAR	6514	6545	6562	6573
4	F H - 3245	DMR - 504	ALMORA	6513	6528	6571	6578
5	F H - 3248	DMR - 505	ALMORA	6510	6537	6572	6575
6	F H - 3277	DMR - 506	ALMORA	6507	6544	6567	6591
7	F H - 3288	DMR - 507	ALMORA	6517	6533	6564	6574
8	V L - 103	DMR - 508	ALMORA	6511	6540	6565	6576
9	V L - 105	DMR - 509	ALMORA	6515	6546	6568	6589
10	V L - 108	DMR - 510	ALMORA	6521	6526	6569	6596
11	V L - 109	DMR - 511	ALMORA	6520	6547	6555	6588
12	V L - 110	DMR - 512	ALMORA	6518	6531	6563	6577
13	V L - 111	DMR - 513	ALMORA	6508	6532	6550	6584
14	J H - 31053	DMR - 514	LUDHIANA	6501	6534	6556	6592
15	CHH - 212	DMR - 515	CHHINDWARA	6505	6535	6566	6579
16	CHH - 215	DMR - 516	CHHINDWARA	6524	6530	6549	6586
17	I C - 0301 (SZM 421)	DMR - 517	GODHRA	6503	6529	6557	6587
*18	SEEDTEC 4034	DMR - 518	SEEDTEC	6512	6542	6559	6582
*19	SEEDTEC 4044	DMR - 519	SEEDTEC	6522	6539	6561	6590
*20	BISCO - 4014	DMR - 520	BISCO	6516	6527	6558	6581
*21	BISCO - 4024	DMR - 521	BISCO	6502	6538	6553	6595
*22	J K M H - 82 CHECKS :-	DMR - 522	J K AGRI	6504	6543	6554	6593
23	HIM - 129	DMR - 523	ALMORA	6523	6548	6560	6583
24	SURYA	DMR - 524	PANTNAGAR	6506	6525	6551	6594

PATHOLOGY

DELHI, DHOLI, JASHIPUR, LUDHIANA, UDAIPUR, KARNAL
 NAGENAHALLI, BAJAURA, HYDERABAD, ARBHAVI, MANDYA
 COIMBATORE, DHAULAKUAN, PANTNAGAR, ALMORA, GODHRA, POONCH

TRIAL NO. 65 AET 1st YEAR ZONE 2 FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING LUDHIANA, KARNAL, DELHI, PANTNAGAR, KANPUR

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 10655	2	DMR - 451	LUDHIANA	6310	6323	6342	6360
2	JC 1441 C3 FS	2	DMR - 452	LUDHIANA	6301	6320	6341	6351
3	B H - 3301	2	DMR - 453	HYDERABAD	6313	6328	6335	6346
4	B H - 3313	2	DMR - 454	HYDERABAD	6306	6327	6336	6359
5	B H - 3316	2	DMR - 455	HYDERABAD	6307	6319	6343	6348
6	M H - 01 - 1	2	DMR - 456	DHOLI	6312	6325	6338	6349
7	M H - 01 - 2	2	DMR - 457	DHOLI	6305	6318	6334	6355
8	M H - 01 - 3	2	DMR - 458	DHOLI	6311	6324	6345	6354
9	M H - 01 - 4	2	DMR - 459	DHOLI	6315	6326	6333	6350
*10	M C H - 13	2	DMR - 460	PARRYMONSANTO	6304	6330	6339	6347
11	P M Z - 235	2	DMR - 461	EMERGENT GENETIC	6302	6322	6331	6358
CHECKS:								
12	PRO - 311	2	DMR - 462	PROAGRO	6309	6329	6337	6357
13	BIO - 9681	2	DMR - 463	BIO SEED'S	6303	6317	6344	6352
14	SEEDTEC - 2324	2	DMR - 464	SEEDTEC	6308	6321	6340	6356
15	PARBHAT	2	DMR - 465	LUDHIANA	6314	6316	6332	6353

TRIAL NO. 65 AET 1st YEAR ZONE 3 FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR
 AMBIKAPUR, KUSHMOHOT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	MH - 01 - 1	3	DMR - 471	DHOLI	6363	6374	6380	6387
2	MH - 01 - 2	3	DMR - 472	DHOLI	6361	6373	6384	6391
3	MH - 01 - 3	3	DMR - 473	DHOLI	6367	6376	6379	6390
4	MH - 01 - 4	3	DMR - 474	DHOLI	6368	6369	6383	6386
CHECKS:								
5	PPO - 311	3	DMR - 475	PROAGRO	6365	6370	6377	6388
6	BIO - 9681	3	DMR - 476	BIO SEED'S	6362	6372	6381	6385
7	SEEDTEC - 2324	3	DMR - 477	SEEDTEC	6366	6371	6378	6392
8	PRABHAT	3	DMR - 478	LUDHIANA	6364	6375	6382	6389

TRIAL NO. 65 AET 1st YEAR ZONE 4 FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR
 COIMBATORE, BIO SEEDS, MONSANTO, EMERGENT GENETIC

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 10655	4	DMR - 481	LUDHIANA	6410	6421	6432	6450
2	JC 1441 C3 FS	4	DMR - 482	LUDHIANA	6404	6422	6436	6440
3	B H - 3315	4	DMR - 483	HYDERABAD	6412	6414	6435	6451
4	M H - 01 - 1	4	DMR - 484	DHOLI	6411	6425	6433	6441
5	M H - 01 - 2	4	DMR - 485	DHOLI	6413	6418	6428	6443
6	M H - 01 - 3	4	DMR - 486	DHOLI	6407	6423	6431	6448
7	M H - 01 - 4	4	DMR - 487	DHOLI	6409	6426	6429	6446
* 8	M C H - 13	4	DMR - 488	PARRY MONSAN.	6408	6415	6427	6447
9	P M Z - 235	4	DMR - 489	EMERGENT GEN.	6406	6420	6438	6452
CHECKS:								
10	PRO - 311	4	DMR - 490	PROAGRO	6403	6424	6437	6442
11	BIO - 9681	4	DMR - 491	BIO SEED'S	6401	6417	6439	6445
12	SEEDTEC - 2324	4	DMR - 492	SEEDTEC	6405	6416	6434	6444
13	PARBHAT	4	DMR - 493	LUDHIANA	6402	6419	6430	6449

TRIAL NO. 66 AET 1st YEAR ZONE -1, 2 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI,
 SIKKIM, DELHI, LUDHIANA PANTNAGAR, KANPUR, KARNAL

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J C - 1459	1, 2	DMR - 401	LUDHIANA	6106	6114	6135	6141
2	B H - 3443	1, 2	DMR - 402	HYDERABAD	6108	6122	6133	6140
3	P M Z - 136	1, 2	DMR - 403	EMERGENT GENT.	6101	6120	6128	6139
* 4	N M H - 1034	1, 2	DMR - 404	NATH SEEDS	6103	6121	6130	6143
5	KAVERI - 2288	1, 2	DMR - 405	KAVERI	6105	6124	6129	6142
* 6	N E C H - 126	1, 2	DMR - 406	SYNGENTA	6110	6119	6132	6148
* 7	N E C H - 127	1, 2	DMR - 407	SYNGENTA	6112	6113	6127	6145
8	B I O - 22069	1, 2	DMR - 408	BIO SEED'S	6111	6118	6134	6137
9	X - 2005	1, 2	DMR - 409	KANCHAN GANGA	6107	6116	6131	6147
10	S M H - 3758	1, 2	DMR - 410	SHAKHTI SEEDS	6102	6123	6136	6138
CHECKS:								
11	KH 510	1, 2	DMR - 411	KANCHAN GANGA	6104	6117	6125	6144
12	NAVJOT	1, 2	DMR - 412	LUDHIANA	6109	6115	6126	6146

TRIAL NO. 66 AET 1st YEAR ZONE 3 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR,
 AMBIKAPUR, KUSHMOHOT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	L - 134	3	DMR - 421	BAJAURA	6153	6164	6177	6178
2	E H - 30969	3	DMR - 422	UDAIPUR	6152	6168	6171	6182
3	H K H - 1200	3	DMR - 423	KARNAL	6154	6165	6173	6184
4	A H - 24008	3	DMR - 424	DELHI	6157	6167	6172	6180
5	B I O - 22069	3	DMR - 425	BIO SEED'S	6155	6163	6170	6181
* 6	B I O - 22045	3	DMR - 426	BIO SEED'S	6151	6166	6174	6185
* 7	VIPL - 1501	3	DMR - 427	NAGARJUNA	6156	6161	6176	6186
CHECKS:								
8	KH 510	3	DMR - 428	KANCHAN GANGA	6158	6160	6175	6179
9	NAVJOT	3	DMR - 429	LUDHIANA	6159	6162	6169	6183

TRIAL NO. 66 AET 1st YEAR ZONE 4 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

HYDERABAD, KARIMNAGAR, ARBEVI, MANDYA,
 KOLHAPUR, COIMBATORE, EMERGENT GENETIC,
 BIO SEED'S, KANCHAN GANGA, NAGARJUNA

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	E H - 31079	4	DMR - 431	UDAIPUR	6209	6214	6232	6240
2	H K H - 1200	4	DMR - 432	KARNAL	6208	6212	6231	6241
3	A H - 23071	4	DMR - 433	DELHI	6206	6218	6223	6237
4	A H - 017045	4	DMR - 434	DELHI	6210	6213	6227	6235
5	A H - 24008	4	DMR - 435	DELHI	6207	6221	6229	6243
6	P M Z - 136	4	DMR - 436	EMERGENT GENETIC	6201	6219	6224	6238
7	B I O - 22069	4	DMR - 437	BIO SEED'S	6211	6216	6233	6239
8	X - 2005	4	DMR - 438	KANCHAN GANGA	6205	6217	6230	6234
* 9	VIPL - 1501	4	DMR - 439	NAGARJUNA	6204	6220	6225	6244
CHECKS:								
10	KH 510	4	DMR - 440	KANCHAN GANGA	6203	6222	6226	6242
11	NAVJOT	4	DMR - 441	LUDHIANA	6202	6215	6228	6236

TRIAL NO. 66 AET 1st YEAR ZONE 5 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

UDAIPUR (2), BANSWARA (2), GODHRA (3), CHHINDWARA (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	A H - 017045	5	DMR 442	DELHI	6252	6264	6270	6276
2	A H - 017051	5	DMR 443	DELHI	6253	6262	6267	6272
* 3	Z M H - 111	5	DMR 444	ZUARI SEEDS	6257	6261	6265	6278
* 4	Z M H - 1821	5	DMR 445	ZUARI SEEDS	6254	6260	6266	6277
5	P M Z - 136	5	DMR 446	EMERGENT GENETIC	6255	6259	6269	6274
CHECKS:								
6	KH 510	5	DMR 447	KANCHAN GANGA	6251	6263	6268	6273
7	NAVJOT	5	DMR 448	LUDHIANA	6256	6258	6271	6275

TRIAL NO. 67A AET 1st YEAR EARLY MATURITY, ZONE - 1,3,4
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT,
 BARAPANI, BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT,
 JASHIPUR, AMBIKAPUR, HYDERABAD, KARIMNAGAR, ARHAVI,
 MANDYA, KOLHAPUR, COIMBATORE

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	BVM - 5	DMR - 701	RANCHI	7255	7265	7271	7275
2	BVM - 6	DMR - 702	RANCHI	7258	7264	7268	7278
3	X - 1182 D	DMR - 703	POC	7251	7260	7269	7282
4	X - 1182 K	DMR - 704	POC	7256	7263	7274	7279
CHECKS :-							
5	X - 3342	DMR - 705	POC	7257	7261	7267	7276
6	KIRAN	DMR - 706	LUDHIANA	7252	7262	7273	7280
7	MAHI KANCHAN	DMR - 707	UDAIPUR	7253	7259	7270	7281
8	PARKASH	DMR - 708	LUDHIANA	7254	7266	7272	7277

TRIAL NO. 67 AET 1st YEAR EARLY MATURITY, ZONE - 1
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA,
 JORHAT, BARAPANI, SIKKIM

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3259	1	DMR - 321	ALMORA	5806	5814	5829	5844
2	J H - 31005	1	DMR - 322	LUDHIANA	5811	5812	5825	5839
3	J H - 31036	1	DMR - 323	LUDHIANA	5809	5818	5828	5838
4	H K H - 1176	1	DMR - 324	KARNAL	5805	5820	5830	5836
* 5	SGMH - 101	1	DMR - 325	SONA SEEDS	5807	5817	5827	5834
6	J K M H - 1701	1	DMR - 326	JK AGRI	5801	5815	5824	5843
7	X - 2097	1	DMR - 327	KANCHAN GANGA	5804	5821	5833	5837
CHECKS :-								
8	X - 3342	1	DMR - 328	POC	5808	5816	5826	5841
9	KIRAN	1	DMR - 329	LUDHIANA	5810	5822	5831	5835
10	MAHI KANCHAN	1	DMR - 330	UDAIPUR	5803	5813	5832	5840
11	PARKASH	1	DMR - 331	LUDHIANA	5802	5819	5823	5842

TRIAL NO. 67 AET 1st YEAR EARLY MATURITY, ZONE - 2
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING DELHI, LUDHIANA, (2) PANTNAGAR, (2) KANPUR, (2) KARNAL, (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3259	2	DMR - 341	ALMORA	5852	5861	5872	5887
2	H K H - 1176	2	DMR - 342	KARNAL	5854	5866	5877	5884
* 3	SGMH - 101	2	DMR - 343	SONA SEEDS	5858	5863	5875	5889
4	KAVERI - 2020	2	DMR - 344	KAVERI SEEDS	5857	5862	5878	5882
5	J K M H - 1701	2	DMR - 345	JK AGRI	5855	5870	5876	5881
* 6	BIO - 20171	2	DMR - 346	BIO SEEDS	5856	5869	5880	5885
CHECKS :-								
7	X - 3342	2	DMR - 347	POC	5853	5864	5871	5890
8	KIRAN	2	DMR - 348	LUDHIANA	5860	5865	5873	5886
9	MAHI KANCHAN	2	DMR - 349	UDAIPUR	5851	5868	5874	5883
10	PARKASH	2	DMR - 350	LUDHIANA	5859	5867	5879	5888

TRIAL NO. 67 AET 1st YEAR ZONE 3 EARLY MATURITY, ZONE - 3
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BELIPAR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KUSHMOHOT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3259	3	DMR - 351	ALMORA	5909	5918	5923	5940
2	J H - 31036	3	DMR - 352	LUDHIANA	5905	5912	5928	5944
3	H K H - 1176	3	DMR - 353	KARNAL	5907	5916	5933	5943
* 4	Z M H - 1415	3	DMR - 354	ZUARI SEEDS	5904	5920	5930	5939
* 5	SGMH - 101	3	DMR - 355	SONA SEEDS	5901	5922	5931	5941
6	J K M H - 1701	3	DMR - 356	JK AGRI	5910	5919	5924	5937
7	X - 2097	3	DMR - 357	KANCHAN GANGA	5903	5921	5925	5938
CHECKS :-								
8	X - 3342	3	DMR - 358	POC	5908	5914	5927	5935
9	KIRAN	3	DMR - 359	LUDHIANA	5902	5917	5932	5942
10	MAHI KANCHAN	3	DMR - 360	UDAIPUR	5911	5915	5929	5934
11	PARKASH	3	DMR - 361	LUDHIANA	5906	5913	5926	5936

TRIAL NO. 67 AET 1st YEAR EARLY MATURITY, ZONE - 4
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING HYDERABAD, KARIMNAGAR, ARHAVI, MANDYA, KOLHAPUR, COIMBATORE, MONSANTO, SONA SEEDS, BISCO, JK AGRI, BIO SEED'S, KANCHAN GANGA, KAVERI SEEDS

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3246	4	D M R - 371	ALMORA	6003	6032	6049	6062
2	R - 03/702	4	D M R - 372	KANPUR	6014	6026	6055	6058
3	J H - 31005	4	D M R - 373	LUDHIANA	6019	6024	6047	6075
4	J H - 3964	4	D M R - 374	LUDHIANA	6016	6025	6046	6071
5	A H - 24007	4	D M R - 375	DELHI	6008	6021	6041	6073
6	A H - 01411	4	D M R - 376	DELHI	6017	6038	6051	6067
* 7	BISCO - 1881	4	D M R - 377	BISCO SEED	6013	6034	6040	6074
* 8	BISCO - 2435	4	D M R - 378	BISCO SEED	6002	6028	6043	6059
* 9	SGMH - 101	4	D M R - 379	SONA SEEDS	6007	6030	6039	6072
10	KAVERI - 2020	4	D M R - 380	KAVERI SEEDS	6010	6020	6057	6063
11	M C H - 15	4	D M R - 381	MONSANTO	6005	6035	6042	6064
12	J K M H - 1701	4	D M R - 382	JK AGRI	6001	6036	6045	6065
*13	J K M H - 062	4	D M R - 383	JK AGRI	6004	6031	6052	6060
*14	BIO - 20171	4	D M R - 384	BIO SEEDS	6012	6029	6054	6076
15	X - 2097	4	D M R - 385	KANCHAN GANGA	6009	6022	6053	6066
CHECKS :-								
16	X - 3342	4	D M R - 386	POC	6015	6033	6050	6061
17	KIRAN	4	D M R - 387	LUDHIANA	6011	6023	6056	6069
18	MAHI KANCHAN	4	D M R - 388	UDAIPUR	6018	6037	6044	6068
19	PARKASH	4	D M R - 389	LUDHIANA	6006	6027	6048	6070

TRIAL NO. 67 AET 1st YEAR, EARLY MATURITY, ZONE - 5
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING UDAIPUR, (2) BANSWARA, (2) GODHRA, (2) CHHINDWARA (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 31036	5	DMR - 391	LUDHIANA	5954	5970	5977	5989
* 2	Z M H - 1415	5	DMR - 392	ZUARI SEEDS	5953	5967	5979	5988
* 3	Z M H - 1408	5	DMR - 393	ZUARI SEEDS	5951	5969	5975	5983
* 4	SGMH - 101	5	DMR - 394	SONA SEEDS	5960	5961	5973	5986
5	J K M H - 1701	5	DMR - 395	JK AGRI	5957	5965	5976	5990
6	X - 2097	5	DMR - 396	KANCHAN GANGA	5955	5962	5971	5984
CHECKS :-								
7	X - 3342	5	DMR - 397	POC	5952	5968	5972	5987
8	KIRAN	5	DMR - 398	LUDHIANA	5959	5964	5974	5982
9	MAHI KANCHAN	5	DMR - 399	UDAIPUR	5956	5963	5980	5981
10	PARKASH	5	DMR - 400	LUDHIANA	5958	5966	5978	5985

TRIAL NO. 68 ZONE IET EXTRA EARLY MATURITY, ZONE - 1
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, JORHAT, BARAPANI, SIKKIM

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3211	1	DMR - 251	ALMORA	5604	5607	5613	5620
2	B V M - 7	1	DMR - 252	RANCHI	5601	5609	5612	5616
CHECKS :								
3	HIM - 129	1	DMR - 253	ALMORA	5603	5606	5615	5619
4	SURYA	1	DMR - 254	PANTNAGAR	5605	5608	5611	5617
5	KIRAN	1	DMR - 255	LUDHIANA	5602	5610	5614	5618

TRIAL NO. 68 ZONE IET EXTRA EARLY MATURITY, ZONE - 2
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING DELHI, KARNAL, LUDHIANA, PANTNAGAR, KANPUR

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	F H - 3211	2	DMR - 261	ALMORA	5624	5633	5637	5648
2	B V M - 7	2	DMR - 262	RANCHI	5625	5629	5641	5647
3	H K H - 1183	2	DMR - 263	KARNAL	5626	5630	5639	5642
4	A H - 23021	2	DMR - 264	DELHI	5623	5634	5636	5645
5	A H - 23025	2	DMR - 265	DELHI	5627	5628	5638	5644
CHECKS:								
6	HIM - 129	2	DMR - 266	ALMORA	5622	5631	5635	5646
7	SURYA	2	DMR - 267	PANTNAGAR	5621	5632	5640	5643

TRIAL NO. 68 ZONE IET EXTRA EARLY MATURITY, ZONE - 3
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BELIPAR, VARANASI, DHOLI, RANCHI, KUSHMOHOT,
 JASHIPUR, AMBIKAPUR

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B V M - 7	3	DMR - 271	RANCHI	5655	5656	5663	5669
2	A H - 23021	3	DMR - 272	DELHI	5651	5660	5664	5667
CHECKS:								
3	HIM - 129	3	DMR - 273	ALMORA	5653	5657	5665	5666
4	SURYA	3	DMR - 274	PANTNAGAR	5654	5658	5662	5668
5	KIRAN	3	DMR - 275	LUDHIANA	5652	5659	5661	5670

TRIAL NO. 68 ZONE IET EXTRA EARLY MATURITY, ZONE - 4
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	D E H - 10103	4	DMR - 281	PANTNAGAR	5705	5712	5724	5737
2	D E H - 10303	4	DMR - 282	PANTNAGAR	5702	5713	5730	5742
3	D E H - 10503	4	DMR - 283	PANTNAGAR	5706	5721	5723	5738
4	D E H - 11303	4	DMR - 284	PANTNAGAR	5701	5716	5725	5743
5	F H - 3211	4	DMR - 285	ALMORA	5707	5722	5731	5740
6	B V M - 7	4	DMR - 286	RANCHI	5709	5714	5728	5734
7	H K H - 1183	4	DMR - 287	KARNAL	5703	5720	5729	5741
8	A H - 23025	4	DMR - 288	DELHI	5708	5715	5727	5744
9	A H - 23035	4	DMR - 289	DELHI	5711	5719	5733	5735
CHECKS:								
10	HIM - 129	4	DMR - 290	ALMORA	5704	5718	5732	5739
11	SURYA	4	DMR - 291	PANTNAGAR	5710	5717	5726	5736

TRIAL NO. 68 ZONE IET EXTRA EARLY MATURITY, ZONE - 5
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	D E H - 10103	5	DMR - 301	PANTNAGAR	5757	5763	5783	5786
2	F H - 3211	5	DMR - 302	ALMORA	5756	5769	5777	5785
3	B V M - 7	5	DMR - 303	RANCHI	5759	5768	5775	5787
4	J K M H - 204-1	5	DMR - 304	JK AGRI	5761	5766	5774	5784
5	H K H - 1183	5	DMR - 305	KARNAL	5753	5767	5781	5788
6	A H - 23021	5	DMR - 306	DELHI	5760	5770	5780	5794
7	A H - 23025	5	DMR - 307	DELHI	5758	5772	5773	5793
8	A H - 23035	5	DMR - 308	DELHI	5755	5764	5776	5790
9	A H - 23039	5	DMR - 309	DELHI	5751	5765	5782	5792
CHECKS:								
10	HIM - 129	5	DMR - 310	ALMORA	5752	5762	5778	5791
11	SURYA	5	DMR - 311	PANTNAGAR	5754	5771	5779	5789

TRIAL NO. 69 AET 2nd YEAR ZONE 4 FULL SEASON MATURITY

YEAR 2004 KHARIF

NO OF ROWS 6
ROW LENGTH 5 mt
NO OF REP. 4
LOCATION :
BREEDINGHYDERABAD, KARIMNAGAR, ARHAVI, MANDYA, KOLHAPUR
COIMBATORE, BISCO SEED, EMERGENT GENETIC, MONSANTO

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
* 1	BISCO - 902	4	DMR - 231	BISCO SEED	5559	5570	5574	5586
2	ROBUST	4	DMR - 232	EMERGENT GENETIC	5554	5562	5576	5585
3	M C H - 1	4	DMR - 233	MONSANTO	5557	5561	5578	5589
4	M C H - 2	4	DMR - 234	MONSANTO	5560	5568	5572	5588
* 5	M C H - 3	4	DMR - 235	PARRY MONSANTO	5558	5566	5577	5584
* 6	M C H - 4	4	DMR - 236	PARRY MONSANTO	5553	5569	5579	5590
	CHECKS:							
7	PARBHAT	4	DMR - 237	LUDHIANA	5556	5563	5575	5587
8	BIO - 9681	4	DMR - 238	BIO SEED'S	5552	5564	5573	5581
9	PRO - 311	4	DMR - 239	PROAGRO	5551	5565	5580	5583
10	SEEDTEC - 2324	4	DMR - 240	SEEDTEC	5555	5567	5571	5582

TRIAL NO. 69 AET 2nd YEAR ZONE 5 FULL SEASON MATURITY

YEAR 2004 KHARIF

NO OF ROWS 6
ROW LENGTH 5 mt
NO OF REP. 4
LOCATION :
BREEDING

UDAIPUR, (2) BANSWARA, (2) GODHRA, (3) CHHINDWARA (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	ROBUST	5	DMR - 221	EMERGENT GENETIC	5505	5512	5516	5519
2	NECH - 117	5	DMR - 222	SYNGENTA	5504	5509	5513	5524
	CHECKS:							
3	PARBHAT	5	DMR - 223	LUDHIANA	5501	5511	5518	5521
4	BIO - 9681	5	DMR - 224	BIO SEED'S	5506	5508	5515	5522
5	SEEDTEC - 2324	5	DMR - 225	SEEDTEC	5502	5507	5514	5523
6	PRO - 311	5	DMR - 226	PROAGRO	5503	5510	5517	5520

TRIAL NO. 70 AET 2nd YEAR, ZONE 1, MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING SRINAGAR, JAMMU, ALMORA, BAJAURA, KANGRA,
 JORHAT, BARAPANI, SIKKIM

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	P M Z - 131	1	DMR - 196	EMERGENT GENETIC	5353	5360	5362	5370	5373	5379
*2	Z M H - 2021	1	DMR - 197	ZUARI SEEDS	5352	5357	5365	5368	5371	5378
*3	Z M H - 2027	1	DMR - 198	ZUARI SEEDS	5351	5358	5363	5366	5374	5380
CHECKS:										
4	NAVJOT	1	DMR - 199	LUDHIANA	5355	5356	5361	5367	5372	5376
5	KH 510	1	DMR - 200	KANCHAN GANGA	5354	5359	5364	5369	5375	5377

* IF THE SEED IS RECEIVED LATE FOR PLANTING IN ZONE 1 ,
 KINDLY KEEP THE TRIAL SEFELY AND PLANT NEXT YEAR ON TIME .

TRIAL NO. 70 AET 2nd YEAR ZONE - 3 MEDIUM MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR, KUSEMOHOT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	H K H - 1208	3	DMR - 191	KARNAL	5401	5410	5412	5416	5424	5427
2	P M Z - 131	3	DMR - 192	EMERGENT GENETIC	5404	5408	5415	5420	5422	5428
3	NECH - 120	3	DMR - 193	SYNGENTA	5403	5407	5414	5418	5421	5430
CHECKS:										
4	NAVJOT	3	DMR - 194	LUDHIANA	5402	5406	5413	5419	5425	5429
5	KH 510	3	DMR - 195	KANCHAN GANGA	5405	5409	5411	5417	5423	5426

TRIAL NO. 70 AET 2nd YEAR ZONE - 4 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING HYDERABAD, KARIMNAGAR, ARBHAVI, MANDYA, KOLHAPUR, COIMBATORE, SEEDTEC, JK AGRI, EMERGENT GENETIC, ZUARI SEEDS, PARRY MONSANTO, KANCHAN GANGA

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	E C - 3121	4	DMR - 201	UDAIPUR	5442	5462	5480	5490
2	B H - 2359	4	DMR - 202	HYDERABAD	5444	5459	5485	5487
3	H K H - 1203	4	DMR - 203	KARNAL	5445	5463	5479	5486
4	H K H - 1208	4	DMR - 204	KARNAL	5450	5468	5482	5493
* 5	J K M H - 1001	4	DMR - 205	JK AGRI	5452	5470	5483	5489
* 6	BISCO - 201	4	DMR - 206	BISCO SEED	5449	5460	5471	5498
7	SEEDTEC - 1081	4	DMR - 207	SEEDTEC	5454	5465	5478	5497
* 8	SEEDTEC - 168	4	DMR - 208	SEEDTEC	5441	5469	5473	5491
9	P M Z - 131	4	DMR - 209	EMERGENT GENETIC	5443	5461	5481	5499
10	P M Z - 237	4	DMR - 210	EMERGENT GENETIC	5455	5458	5484	5495
* 11	Z M H - 2027	4	DMR - 211	ZUARI SEEDS	5453	5457	5476	5500
* 12	M C H - 7	4	DMR - 212	PARRY MONSANTO	5446	5466	5472	5492
13	X - 26	4	DMR - 213	KANCHAN GANGA	5448	5467	5477	5496
CHECKS:								
14	NAVJOT	4	DMR - 214	LUDHIANA	5447	5464	5474	5488
15	KH 510	4	DMR - 215	KANCHAN GANGA	5451	5456	5475	5494

TRIAL NO. 70 AET 2nd YEAR ZONE - 5 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING UDAIPUR, (2) BANSWARA, (2) GODHRA, (3) CHHINDWARA (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
* 1	J K M H - 1001	5	DMR - 181	JK AGRI	5303	5315	5330	5332
* 2	BISCO - 201	5	DMR - 182	BISCO SEED	5310	5312	5324	5340
3	SEEDTEC - 1081	5	DMR - 183	SEEDTEC	5301	5319	5326	5335
* 4	SEEDTEC - 168	5	DMR - 184	SEEDTEC	5302	5318	5329	5331
5	P M Z - 237	5	DMR - 185	EMERGENT GENETIC	5306	5320	5322	5339
* 6	Z M H - 2027	5	DMR - 186	ZUARI SEEDS	5305	5313	5328	5337
* 7	NECH - 119	5	DMR - 187	SYNGENTA	5304	5317	5323	5334
8	X - 26	5	DMR - 188	KANCHANGANGA	5309	5314	5325	5336
CHECKS:								
9	NAVJOT	5	DMR - 189	LUDHIANA	5307	5311	5327	5338
10	KH 510	5	DMR - 190	KANCHANGANGA	5308	5316	5321	5333

TRIAL NO. 71 AET 2nd YEAR ZONE - 2 EARLY MATURITY
 YEAR 2003 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP: 4
 LOCATION :

BREEDING: DELHI, (2) LUDHIANA, (2) PANTNAGAR, (2) KANPUR, (2) KARNAL, (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 3851	2	DMR - 161	LUDHIANA	5255	5270	5274	5287
2	P M Z - 138	2	DMR - 162	EMERGENT GENETIC	5259	5265	5283	5293
3	M C H - 5	2	DMR - 163	MONSANTO	5253	5262	5277	5285
4	J K M H - 810	2	DMR - 164	JK AGRI	5261	5266	5278	5288
* 5	BISCO - 204	2	DMR - 165	BISCO	5252	5269	5275	5294
6	X - 2182	2	DMR - 166	KANCHAN GANGA	5254	5271	5279	5291
* 7	PRO - 358	2	DMR - 167	PROAGRO	5251	5268	5282	5286
CHECKS:								
8	X - 3342	2	DMR - 168	POC	5260	5267	5281	5284
9	PARKASH	2	DMR - 169	LUDHIANA	5258	5264	5276	5289
10	KIRAN	2	DMR - 170	LUDHIANA	5256	5263	5280	5290
11	MAHI KANCHAN	2	DMR - 171	UDAIPUR	5257	5272	5273	5292

TRIAL NO. 71 AET 2nd YEAR ZONE - 3 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING

BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR
 KUSHMOHOT, JORHAT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 3851	3	DMR - 151	LUDHIANA	5205	5220	5226	5238
* 2	P A C - 71006	3	DMR - 152	ADVANTA	5208	5211	5229	5236
3	M C H - 6	3	DMR - 153	MONSANTO	5209	5213	5221	5240
* 4	BISCO - 204	3	DMR - 154	BISCO SEED	5202	5214	5225	5237
5	X - 2182	3	DMR - 155	KANCHAN GANGA	5206	5217	5228	5233
* 6	PRO - 357	3	DMR - 156	PROAGRO	5210	5215	5223	5235
CHECKS :-								
7	KIRAN	3	DMR - 157	LUDHIANA	5204	5218	5224	5239
8	MAHI KANCHAN	3	DMR - 158	UDAIPUR	5203	5212	5227	5232
9	X - 3342	3	DMR - 159	POC	5207	5216	5230	5234
10	PARKASH	3	DMR - 160	LUDHIANA	5201	5219	5222	5231

TRIAL NO. 71 AET ZONE 2nd YEAR ZONE - 4 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP: 4
 LOCATION :
 BREEDING

HYDRABAD, KARIMNAGAR, ARHAVI, (2) MANDYA, KOLHAPUR, (2)
 COIMBATORE, (2) BISCO SEED, EMERGENT GENETICS, ZUARI SEED,
 MONSANTO, JK AGRI, KANCHAN GANGA, PROAGRO

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	B H - 2862	4	DMR - 131	HYDRABAD	5105	5127	5136	5152
* 2	BISCO - 204	4	DMR - 132	BISCO	5111	5119	5145	5147
3	P M Z - 135	4	DMR - 133	EMERGENT GENETIC	5109	5118	5132	5154
4	P M Z - 138	4	DMR - 134	EMERGENT GENETIC	5113	5125	5140	5149
* 5	Z M H - 2052	4	DMR - 135	ZUARI SEEDS	5110	5122	5141	5155
* 6	Z M H - 2054	4	DMR - 136	ZUARI SEEDS	5101	5128	5142	5148
7	M C H - 5	4	DMR - 137	MONSANTO	5112	5117	5139	5151
8	M C H - 6	4	DMR - 138	MONSANTO	5102	5116	5137	5157
9	J K M H - 810	4	DMR - 139	JK AGRI	5108	5130	5135	5159
10	X - 2182	4	DMR - 140	KANCHAN GANGA	5103	5124	5131	5153
* 11	PRO - 358	4	DMR - 141	PROAGRO	5115	5123	5133	5158
	CHECKS:							
12	KIRAN	4	DMR - 142	LUDHIANA	5106	5120	5138	5156
13	MAHI KANCHAN	4	DMR - 143	UDAIPUR	5107	5129	5143	5150
14	X - 3342	4	DMR - 144	POC	5104	5126	5144	5160
15	PARKASH	4	DMR - 145	LUDHIANA	5114	5121	5134	5146

TRIAL NO. 71 AET 2nd YEAR ZONE - 5 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING UDAIPUR, (2) BANSWARA, (2) GODHRA, (3) CHHINDWARA (2)

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION			
					R1	R2	R3	R4
1	J H - 3851	5	DMR - 111	LUDHIANA	5053	5064	5074	5083
* 2	BISCO - 204	5	DMR - 112	BISCO	5051	5065	5067	5089
3	P M Z - 135	5	DMR - 113	EMERGENT GENETIC	5041	5056	5079	5090
4	P M Z - 138	5	DMR - 114	EMERGENT GENETIC	5048	5060	5068	5091
* 5	Z M H - 2054	5	DMR - 115	ZUARI SEEDS	5052	5063	5073	5084
6	M C H - 6	5	DMR - 116	MONSANTO	5042	5061	5071	5088
7	J K M H - 810	5	DMR - 117	JK AGRI	5043	5054	5078	5086
8	X - 2182	5	DMR - 118	KANCHAN GANGA	5045	5057	5076	5081
* 9	PRO - 358	5	DMR - 119	PROAGRO	5044	5062	5072	5082
	CHECKS :-							
10	KIRAN	5	DMR - 120	LUDHIANA	5047	5055	5075	5085
11	MAHI KANCHAN	5	DMR - 121	UDAIPUR	5046	5058	5069	5092
12	X - 3342	5	DMR - 122	POC	5049	5066	5070	5087
13	PARKASH	5	DMR - 123	LUDHIANA	5050	5059	5077	5080

TRIAL NO. 72 AET 2nd YEAR ZONE - 3 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 6
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING BELIPUR, VARANASI, DHOLI, RANCHI, JASHIPUR, AMBIKAPUR
 KUSHMOHOT, JORHAT

ENT NO	PEDIGREE	ZONE	CODE	ORIGIN	REPLICATION					
					R1	R2	R3	R4	R5	R6
1	F H - 3210	3	DMR - 101	ALMORA	5001	5005	5009	5010	5014	5018
	CHECKS :-									
2	HIM - 129	3	DMR - 102	ALMORA	5002	5004	5008	5012	5013	5017
3	SURYA	3	DMR - 103	PANTNAGAR	5003	5006	5007	5011	5015	5016

TRIAL NO. 75 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2
A E T 1st YEAR (EARLY MATURITY)					
1	F H - 3259	DMR - 1601	ALMORA	7352	7369
2	J H - 31005	DMR - 1602	LUDHIANA	7313	7378
3	J H - 31036	DMR - 1603	LUDHIANA	7335	7372
4	J H - 3964	DMR - 1604	LUDHIANA	7338	7382
5	H K H - 1176	DMR - 1605	KARNAL	7350	7376
6	A H - 24007	DMR - 1606	DELHI	7327	7402
7	A H - 01411	DMR - 1607	DELHI	7302	7404
8	R - 03/702	DMR - 1608	KANPUR	7315	7389
9	BVM - 5	DMR - 1609	RANCHI	7319	7379
10	BVM - 6	DMR - 1610	RANCHI	7343	7383
11	X - 1182 D	DMR - 1611	POC	7326	7380
12	X - 1182 K	DMR - 1612	POC	7331	7397
*13	SGMH - 101	DMR - 1613	SONA SEEDS	7329	7386
14	JK M H - 1701	DMR - 1614	JK AGRI	7336	7394
15	X - 2097	DMR - 1615	KANCHAN GANGA	7339	7400
*16	BIO - 20171	DMR - 1616	BIO SEED'S	7342	7365
*17	Z M H - 1415	DMR - 1617	ZUARI SEEDS	7318	7366
*18	Z M H - 1408	DMR - 1618	ZUARI SEEDS	7344	7391
A E T 1st YEAR (EXTRA EARLY MATURITY)					
19	D E H - 10103	DMR - 1619	PANTNAGAR	7307	7373
20	D E H - 10303	DMR - 1620	PANTNAGAR	7309	7390
21	D E H - 10503	DMR - 1621	PANTNAGAR	7312	7405
22	D E H - 11303	DMR - 1622	PANTNAGAR	7345	7396
23	F H - 3211	DMR - 1623	ALMORA	7304	7387
24	B V M - 7	DMR - 1624	RANCHI	7351	7393
25	J K M H - 204-1	DMR - 1625	JK AGRI	7347	7357
26	H K H - 1183	DMR - 1626	KARNAL	7305	7375
27	A H - 23021	DMR - 1627	DELHI	7310	7355
28	A H - 23025	DMR - 1628	DELHI	7322	7367
29	A H - 23035	DMR - 1629	DELHI	7303	7385
30	A H - 23039	DMR - 1630	DELHI	7301	7371

(CONT.)

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2
A E T 2nd YEAR (EARLY MATURITY)					
31	J H - 3851	DMR - 1631	LUDHIANA	7334	7374
32	B H - 2862	DMR - 1632	HYDERABAD	7340	7399
*33	BISCO - 204	DMR - 1633	BISCO SEED	7332	7398
34	P M Z - 135	DMR - 1634	EMERGENT GENETIC	7349	7388
35	P M Z - 138	DMR - 1635	EMERGENT GENETIC	7328	7360
*36	Z M H - 2052	DMR - 1636	ZUARI SEEDS	7325	7406
*37	Z M H - 2054	DMR - 1637	ZUARI SEEDS	7353	7381
*38	P A C - 71006	DMR - 1638	ADVANTA	7323	7359
39	M C H - 5	DMR - 1639	MONSANTO	7341	7395
40	M C H - 6	DMR - 1640	MONSANTO	7306	7364
41	J K M H - 810	DMR - 1641	JK AGRI	7348	7401
42	X - 2182	DMR - 1642	KANCHAN GANGA	7346	7370
*43	PRO - 358	DMR - 1643	PROAGRO	7316	7384
*44	PRO - 357	DMR - 1644	PROAGRO	7337	7361
EXTRA EARLY MATURITY					
45	F H - 3210	DMR - 1645	ALMORA	7308	7356
CHECKS:					
46	KIRAN	DMR - 1646	LUDHIANA	7333	7358
47	MAHI KANCHAN	DMR - 1647	UDAIPUR	7317	7362
48	X - 3342	DMR - 1648	POC	7314	7377
49	PARKASH	DMR - 1649	LUDHIANA	7321	7354
50	HIM - 129	DMR - 1650	ALMORA	7311	7363
51	SURYA	DMR - 1651	PANTNAGAR	7324	7392
52	C M - 500	DMR - 1652	Dr. P.Kumar	7330	7368
53	LOCAL	DMR - 1653	-	7320	7403

LOCATION

PATHOLOGY

ALMORA, BAJAURA, DHAULAKUAN, DELHI, LUDHIANA, KARNAL
PANTNAGAR, DHOLI, JASHIPUR, HYDERABAD, KARIMNAGAR, ARHAVI,
COIMBATORE, UDAIPUR, GODHRA, NAGENAHALLI, MANDYA,

ENTOMOLOGY

UDAIPUR, DELHI, LUDHIANA, KARNAL, HYDERABAD, KOLHAPUR

NEMATOLOGY

UDAIPUR

SOIL SCIENCE

PANTNAGAR

TRIAL NO. 76 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2

A E T 1st YEAR (MEDIUM MATURITY)

1	B H - 3443	DMR-1701	HYDERABAD	7535	7563
2	L - 134	DMR-1702	BAJAURA	7523	7571
3	E H - 30969	DMR-1703	UDAIPUR	7506	7562
4	E H - 31079	DMR-1704	UDAIPUR	7522	7541
5	H K H - 1200	DMR-1705	KARNAL	7505	7561
6	A H - 017045	DMR-1706	DELHI	7511	7565
* 7	FILLER	DMR-1707	DELHI	7537	7558
8	A H - 23071	DMR-1708	DELHI	7528	7557
9	A H - 24008	DMR-1709	DELHI	7527	7574
10	P M Z - 136	DMR-1710	EMERGENT GENETIC	7536	7568
*11	N M H - 1034	DMR-1711	NATH SEEDS	7538	7547
*12	N E C H - 127	DMR-1712	SYNGENTA	7515	7542
*13	BIO - 22045	DMR-1713	BIO SEED'S	7510	7569
14	BIO - 22069	DMR-1714	BIO SEED'S	7529	7540
15	X - 2005	DMR-1715	KANCHAN GANGA	7519	7546
*16	VIPL - 1501	DMR-1716	NAGARJUNA	7502	7544
*17	Z M H - 111	DMR-1717	ZUARI SEEDS	7525	7576
*18	Z M H - 1821	DMR-1718	ZUARI SEEDS	7532	7553

A E T 2nd YEAR (MEDIUM MATURITY)

19	E C - 3121	DMR-1719	UDAIPUR	7518	7545
20	B H - 2359	DMR-1720	HYDERABA	7516	7549
21	H K H - 1203	DMR-1721	KARNAL	7517	7564
22	H K H - 1208	DMR-1722	KARNAL	7508	7550
23	J K M H - 1001	DMR-1723	JK AGRI	7504	7548
*24	BISCO - 201	DMR-1724	BISCO SEEDS	7533	7555
25	SEEDTEC - 1081	DMR-1725	SEEDTEC	7520	7570
*26	SEEDTEC - 168	DMR-1726	SEEDTEC	7512	7566
27	P M Z - 131	DMR-1727	EMERGENT GENETIC	7531	7556
28	P M Z - 237	DMR-1728	EMERGENT GENETIC	7521	7539
*29	Z M H - 2021	DMR-1729	ZUARI SEEDS	7509	7543
*30	Z M H - 2027	DMR-1730	ZUARI SEEDS	7503	7551
*31	NECH - 119	DMR-1731	SYNGENTA	7524	7559
32	NECH - 120	DMR-1732	SYNGENTA	7534	7567
*33	M C H - 7	DMR-1733	MONSANTO	7501	7552
34	X - 26	DMR-1734	KANCHAN GANGA	7507	7575

(CONT.)

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2
CHECKS:					
35	NAVJOT	DMR-1735	LUDHIANA	7530	7573
36	KH 510	DMR-1736	KANCHAN GANGA	7514	7560
37	C M - 500	DMR-1737	Dr. P. Kumar	7526	7554
38	LOCAL	DMR-1738	-	7513	7572

LOCATION

PATHOLOGY ALMORA, BAJAURA, DHAULAKUAN, DELHI, LUDHIANA, KARNAL
PANTNAGAR, DHOLI, JASHIPUR, HYDERABAD, KARIMNAGAR, ARSHAVI,
COIMBATORE, UDAIPUR, GODHRA, NAGENAHALLI, MANDYA,

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

SOIL SCIENCE PANTNAGAR

TRIAL NO. 77 FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 2

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION	
				R1	R2

A E T 1st YEAR (FULL SEASON MATURITY)

1	J H - 10655	DMR - 1501	LUDHIANA	7218	7229
2	JC 1441 C3 FS	DMR - 1502	LUDHIANA	7206	7232
3	B H - 3301	DMR - 1503	HYDERABAD	7208	7230
4	B H - 3313	DMR - 1504	HYDERABAD	7212	7242
5	B H - 3315	DMR - 1505	HYDERABAD	7224	7244
6	B H - 3316	DMR - 1506	HYDERABAD	7214	7231
7	M H - 01 - 1	DMR - 1507	DHOLI	7223	7243
8	M H - 01 - 2	DMR - 1508	DHOLI	7219	7235
9	M H - 01 - 3	DMR - 1509	DHOLI	7203	7240
10	M H - 01 - 4	DMR - 1510	DHOLI	7225	7233
*11	M C H - 13	DMR - 1511	MONSANTO	7202	7238
12	P M Z - 235	DMR - 1512	EMERGENT GENETIC	7215	7239

A E T 2nd YEAR (FULL SEASON MATURITY)

*13	BISCO - 902	DMR - 1513	BISCO SEEDS	7201	7234
14	ROBUST	DMR - 1514	EMERGENT GENETIC	7222	7228
15	NECH - 117	DMR - 1515	SYNGENTA	7220	7237
16	M C H - 1	DMR - 1516	MONSANTO	7205	7226
17	M C H - 2	DMR - 1517	MONSANTO	7221	7227
*18	M C H - 3	DMR - 1518	PARRY MONSANTO	7211	7250
*19	M C H - 4	DMR - 1519	PARRY MONSANTO	7216	7245
CHECKS:					
20	PARBHAT	DMR - 1520	LUDHIANA	7210	7247
21	BIO - 9681	DMR - 1521	BIOSEED'S	7207	7241
22	PRO - 311	DMR - 1522	PROAGRO	7217	7249
23	SEEDTEC - 2324	DMR - 1523	SEEDTEC	7204	7236
24	C M - 500	DMR - 1524	Dr. P.Kumar	7213	7246
25	LOCAL (SUSEPTABLE CHECK)	DMR - 1525	-	7209	7248

LOCATION

PATHOLOGY

ALMORA, BAJAURA, DHAULAKUAN, DELHI, LUDHIANA, KARNAL
 PANTNAGAR, DHOLI, JASHIPUR, HYDERABAD, KARIMNAGAR, ARBHAVI,
 COIMBATORE, UDAIPUR, GODHRA, NAGENAHALLI, MANDYA, NAGENAHALLY

ENTOMOLOGY

NEMATOLOGY

SOIL SCIENCE

UDAIPUR, DELHI, LUDHIANA, KARNAL, HYDERABAD, KOLHAPUR
 UDAIPUR
 PANTNAGAR

TRIAL NO. QPM 1 TRIAL
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION

BREEDING ALMORA, BAJAURA, DELHI (DMR), LUDHIANA, PANTNAGAR, KANPUR,
 KARNAL, VARANASI, DHOLI, JASHIPUR, HYDERABAD, KOLHAPUR,
 ARBHAVI, UDAIPUR, CHHINDWARA

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	D QPMC - 3 (Y)	DMR QPM - 21	PANTNAGAR	7607	7631	7643	7675
2	D QPMC - 4 (W)	DMR QPM - 22	PANTNAGAR	7616	7640	7644	7665
3	BVM - 8	DMR QPM - 23	RANCHI	7619	7636	7658	7667
4	BQPMH -41	DMR QPM - 24	HYDERABAD	7601	7626	7648	7679
5	BQPMH -43	DMR QPM - 25	HYDERABAD	7606	7621	7649	7676
6	BQPMH -46	DMR QPM - 26	HYDERABAD	7613	7630	7642	7671
7	BQPMH -50	DMR QPM - 27	HYDERABAD	7610	7625	7652	7666
8	BQPMH -51	DMR QPM - 28	HYDERABAD	7617	7624	7656	7680
9	BQPMH -52	DMR QPM - 29	HYDERABAD	7614	7638	7660	7663
10	BQPMH -53	DMR QPM - 30	HYDERABAD	7604	7634	7641	7672
11	BAJQPM - 5	DMR QPM - 31	BAJAJURA	7603	7637	7659	7670
12	HQPM - 4	DMR QPM - 32	KARNAL	7602	7628	7654	7669
13	HQPM - 5	DMR QPM - 33	KARNAL	7611	7635	7657	7662
14	DMRQPM-17-x0-x0 X DMRQPM-58-x0-x0	DMR QPM - 34	HYD/2028X27	7605	7627	7646	7668
15	DMRQPM-17-x0-x0 X DMRQPM-03-101	DMR QPM - 35	HYD/2033X34	7615	7633	7647	7674
16	DMRQPM-17-x0-x0 X DMRQPM-03-106	DMR QPM - 36	HYD/2035X36	7609	7639	7645	7673
17	DMRQPM-75-x0-x0 X DMRQPM-17-x0-x0 CHECKS:	DMR QPM - 37	HYD/2029X30	7608	7632	7651	7661
18	SHAKTIMAN - 1	DMR QPM - 38	DELHI	7618	7629	7650	7677
19	PRO - 311	DMR QPM - 39	PROAGRO	7620	7623	7655	7664
20	SHAKTI-1	DMR QPM - 40	DELHI	7612	7622	7653	7678

PATHOLOGY: LUDHIANA, DHOLI, HYDERABAD, DELHI (DMR)

ENTOMOLOGY: LUDHIANA, DHOLI, HYDERABAD, DELHI (DMR)

TRIAL NO. QPM 2 TRIAL

YEAR 2003 KHARIF

NO OF ROWS 2

ROW LENGTH 5 mt

NO OF REP. 4

LOCATION

BREEDING ALMORA, BAJAURA, DELHI (DMR), LUDHIANA, PANTNAGAR, KANPUR ,
KARNAL, VARANASI, DHOLI, JASHIPUR, HYDERABAD, KOLHAPUR,
ARBHAVI, UDAIPUR, CHHINDWARA

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	HQPM - 1	DMR QPM - 1	KARNAL	7706	7717	7727	7749
2	HQPM - 2	DMR QPM - 2	KARNAL	7705	7716	7735	7743
3	HQPM - 3	DMR QPM - 3	KARNAL	7701	7726	7731	7741
4	B - QPM - 31	DMR QPM - 4	HYDERABAD	7708	7719	7733	7750
5	B - QPM - 32	DMR QPM - 5	HYDERABAD	7702	7720	7729	7747
6	B - QPM - 33	DMR QPM - 6	HYDERABAD	7710	7725	7734	7745
7	JH QPM - 41	DMR QPM - 7	LUDHIANA	7709	7714	7730	7744
8	JH QPM - 83	DMR QPM - 8	LUDHIANA	7712	7721	7732	7740
9	JH QPM - 155	DMR QPM - 9	LUDHIANA	7704	7724	7736	7748
10	JH wx - 29	DMR QPM - 10	LUDHIANA	7711	7722	7738	7752
	CHECKS:						
11	SHAKTIMAN - 1	DMR QPM - 11	DELHI	7707	7715	7737	7751
12	PRO - 311	DMR QPM - 12	PROAGRO	7713	7718	7739	7742
13	SHAKTI-1	DMR QPM - 13	DELHI	7703	7723	7728	7746

PATHOLOGY: LUDHIANA, DHOLI, HYDERABAD, DELHI (DMR)

ENTOMOLOGY LUDHIANA, DHOLI, HYDERABAD, DELHI (DMR)

TRIAL NO. BABY CORN
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING ALMORA, BAJAURA, DELHI (DMR), DELHI, LUDHIANA, PANTNAGAR
 DHOLI, JASHIPUR, HYDERABAD, COIMBATORE, KOLHAPUR,
 UDAIPUR, BANSWARA

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	F H - 3259	BABY -1	ALMORA	7807	7813	7820	7832
2	F H - 3161	BABY -2	ALMORA	7801	7811	7818	7825
3	V L - 78	BABY -3	ALMORA	7805	7815	7817	7828
4	D B C - 1	BABY -4	PANTNAGAR	7803	7816	7821	7830
5	I C - 9006	BABY -5	GODERA	7804	7809	7822	7829
6	HIM - 129	BABY -6	ALMORA	7808	7810	7819	7831
7	PARKASH	BABY -7	LUDHIANA	7802	7814	7823	7827
8	X - 3342	BABY -8	POC	7806	7812	7824	7826

TRIAL NO. SWEET CORN
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING ALMORA, BAJAURA, POONCH, DELHI (DMR), DELHI, LUDHIANA, PANTNAGAR,
 DHOLI, JASHI, HYDERABAD, KOLHAPUR, COIMBATORE, UDAIPUR, BANSWARA

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	JC (SWEET CORN) - 1	SWEET - 1	LUDHIANA	7855	7861	7871	7873
2	V L - 15	SWEET - 2	ALMORA	7857	7860	7865	7876
3	ZA WIN ORANG SWEET	SWEET - 3	WINT NUR	7853	7859	7869	7872
4	ZA WIN SWEET CORN - I	SWEET - 4	WINT NUR	7854	7863	7866	7877
5	ZA WIN YELLOW SWEET CORN	SWEET - 5	WINT NUR	7856	7858	7867	7875
6	ZA WIN Su HYBRID I *	SWEET - 6	WINT NUR	7851	7862	7870	7878
7	MADHURI	SWEET - 7	HYDERABAD	7852	7864	7868	7874

TRIAL NO. POP CORN
 YEAR 2004 KHARIF
 NO OF ROWS 4
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION ALMORA, BAJAURA, POONCH, DELHI (DMR), DELHI, LUDHIANA, KARNAL,
 DHOLI, BELIPAR, JASHIPUR, HYDERABAD, COIMBATORE, KOLHAPUR,
 UDAIPUR, BANSWARA CHINDWARA,

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION					
				R1	R2	R3	R4	R5	R6
1	ZA WIN POP I	POP - 1	WINT NUR	7905	7910	7913	7919	7923	7927
2	ZA WIN POP II	POP - 2	WINT NUR	7901	7907	7911	7920	7922	7928
3	ZA WIN POP III	POP - 3	WINT NUR	7904	7908	7912	7916	7925	7926
4	ZA WIN POP IV	POP - 4	WINT NUR	7903	7909	7915	7917	7921	7930
5	AMBER POP CORN	POP - 5	HYDERABAD	7902	7906	7914	7918	7924	7929

SEND 200 gm OF EACH PLOT FOR POPING AFTER HARVEST .

TRIAL NO. 201 FULL SEASON MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION BREEDING LUDHIANA, PANTNAGAR, KARNAL, KANPUR, DELHI

ENT	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	JH - 10871	DMR-701	LUDHIANA	8005	8024	8037	8043
2	HKH - 1168	DMR-702	KARNAL	8012	8015	8031	8051
3	HKH - 1201	DMR-703	KARNAL	8014	8019	8032	8044
4	HKH - 1220	DMR-704	KARNAL	8011	8016	8035	8055
5	A H - 31409	DMR-705	DELHI	8007	8026	8034	8050
6	A H - 31039	DMR-706	DELHI	8009	8025	8030	8047
7	V - 1808	DMR-707		8008	8018	8040	8046
8	NMH - 1270	DMR-708	NATH SEEDS	8004	8023	8041	8054
9	ZMH - 1911	DMR-709	ZUARI SEEDS	8013	8021	8033	8053
10	SGMH - 106	DMR-710		8001	8028	8036	8052
	CHECKS:						
11	PRO - 311	DMR-711	PROAGRO	8006	8027	8029	8056
12	BIO - 9681	DMR-712	BIO SEEDS	8003	8022	8038	8048
13	SEEDTEC - 2324	DMR-713	SEEDTEC	8002	8017	8042	8045
14	PAREHAT	DMR-714	LUDHIANA	8010	8020	8039	8049

TRIAL NO. 202 MEDIUM MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENGTH 5 mt
 NO OF REP. 4
 LOCATION
 BREEDING LUDHIANA, PANTNAGAR, KARNAL, KANPUR, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	COMP. R - 2004 - 2	DMR-721	KANPUR	8114	8120	8139	8152
2	JH- 10824	DMR-722	LUDHIANA	8116	8124	8142	8150
3	JH- 10841	DMR-723	LUDHIANA	8110	8118	8135	8160
4	JH- 10853	DMR-724	LUDHIANA	8102	8127	8147	8157
5	HKH - 1129	DMR-725	KARNAL	8111	8122	8148	8163
6	HKH - 1178	DMR-726	KARNAL	8105	8119	8140	8158
7	HKH - 1189	DMR-727	KARNAL	8104	8131	8137	8161
8	HKH - 1211	DMR-728	KARNAL	8107	8130	8138	8151
9	A H - 31019	DMR-729	DELHI	8113	8125	8134	8164
10	A H - 31041	DMR-730	DELHI	8106	8121	8136	8149
11	A H - 31053	DMR-731	DELHI	8115	8123	8146	8159
12	ZMH - 1614	DMR-732	ZUARI SEEDS	8103	8117	8145	8154
13	VIPL - 1506	DMR-733	NAGARJUNA	8109	8132	8143	8153
14	NMH - 1102	DMR-734	NATH SEEDS	8101	8129	8144	8162
	CHECKS:-						
15	K H - 510	DMR-735	KANCHAN GANGA	8112	8120	8141	8156
16	NAVJOT	DMR-736	LUDHIANA	8108	8126	8133	8155

TRIAL NO. 203 EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION LUDHIANA, PANTNAGAR, KANPUR , KARNAL, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	JH - 31052	DMR-741	LUDHIANA	8208	8224	8245	8263
2	JH - 31045	DMR-742	LUDHIANA	8219	8236	8240	8271
3	JC - 3287	DMR-743	LUDHIANA	8206	8238	8249	8269
4	JC - 3288	DMR-744	LUDHIANA	8210	8223	8250	8262
5	JC - 3289	DMR-745	LUDHIANA	8203	8227	8256	8273
6	HKH - 1172	DMR-746	KARNAL	8211	8230	8251	8261
7	HKH - 1186	DMR-747	KARNAL	8217	8228	8239	8272
8	COM. R-2004-1	DMR-748	KANPUR	8204	8229	8244	8268
9	A H - 31003	DMR-749	DELHI	8215	8220	8252	8274
10	A H - 31047	DMR-750	DELHI	8209	8232	8243	8259
11	A H - 31051	DMR-751	DELHI	8213	8231	8253	8267
12	VIPL - 1301	DMR-752	NAGARJUNA	8202	8237	8248	8264
13	NMH - 1076	DMR-753	NATH SEEDS	8214	8222	8246	8265
14	KDMH - 3851	DMR-754	KRISHI DHAN	8205	8225	8257	8266
15	ZMH - 1410	DMR-755	ZUARI SEEDS	8212	8235	8242	8260
16	PARKASH	DMR-756	LUDHIANA	8201	8221	8247	8258
17	X - 3342	DMR-757	POC	8218	8233	8254	8275
18	MAHI KANCHAN	DMR-758	UDAIPUR	8216	8226	8241	8276
19	PEHM - 3	DMR-759	DELHI	8207	8234	8255	8270

TRIAL NO. 204 EXTRA EARLY MATURITY
 YEAR 2004 KHARIF
 NO OF ROWS 2
 ROW LENTH 5 mt
 NO OF REP. 4
 LOCATION LUDHIANA, PANTNAGAR, KANPUR , KARNAL, DELHI

ENT NO	PEDIGREE	CODE	ORIGIN	REPLICATION			
				R1	R2	R3	R4
1	J H - 31046	DMR-761	LUDHIANA	8305	8312	8316	8319
2	J H - 31050	DMR-762	LUDHIANA	8302	8307	8315	8322
3	A H - 31021	DMR-763	DELHI	8301	8310	8314	8324
4	A H - 31037	DMR-764	DELHI	8303	8311	8318	8320
5	HIM - 129	DMR-765	ALMORA	8304	8308	8317	8321
6	SURYA	DMR-766	PANTNAGAR	8306	8309	8313	8323

AGRONOMIC TRIAL : - N x G YEAR 2004 KHARIF

FULL SEASON MATURITY ZONE - 4

S NO	PEDIGREE	ZONE	CODE
* 1	BISCO - 902	4	DMR - 1011
2	ROBUST	4	DMR - 1012
3	M C H - 1	4	DMR - 1013
4	M C H - 2	4	DMR - 1014
* 5	M C H - 3	4	DMR - 1015
* 6	M C H - 4	4	DMR - 1016
7	PARBHAT	4	DMR - 1017
8	BIO - 9681	4	DMR - 1018
9	SEEDTEC - 2324	4	DMR - 1019

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

FULL SEASON MATURITY ZONE - 5

S NO	PEDIGREE	ZONE	CODE
1	ROBUST	5	DMR - 1021
2	NECH - 117	5	DMR - 1022
3	PARBHAT	5	DMR - 1023
4	BIO - 9681	5	DMR - 1024
5	SEEDTEC - 2324	5	DMR - 1025

ZONE - 5

UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

MEDIUM MATURITY ZONE - 1

S NO	PEDIGREE	ZONE	CODE
1	P M Z - 131	1	DMR - 1031
* 2	Z M H - 2021	1	DMR - 1032
* 3	Z M H - 2027	1	DMR - 1033
4	NAVJOT	1	DMR - 1034
5	KH 510	1	DMR - 1035

ZONE - 1

BAJAURA, SRINAGAR, JORHAT, ALMORA

M E D I U M M A T U R I T Y Z O N E - 3

S NO	PEDIGREE	ZONE	CODE
1	H K H - 1208	3	DMR - 1041
2	P M Z - 131	3	DMR - 1042
3	NECH - 120	3	DMR - 1043
4	NAVJOT	3	DMR - 1044
5	KH 510	3	DMR - 1045

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI

M E D I U M M A T U R I T Y Z O N E - 4

S NO	PEDIGREE	ZONE	CODE
1	E C - 3121	4	DMR - 1051
2	B H - 2359	4	DMR - 1052
3	H K H - 1203	4	DMR - 1053
4	H K H - 1208	4	DMR - 1054
* 5	J K M H - 1001	4	DMR - 1055
* 6	BISCO - 201	4	DMR - 1056
7	SEEDTEC - 1081	4	DMR - 1057
* 8	SEEDTEC - 168	4	DMR - 1058
9	P M Z - 131	4	DMR - 1059
10	P M Z - 237	4	DMR - 1060
* 11	Z M H - 2027	4	DMR - 1061
* 12	M C H - 7	4	DMR - 1062
13	NAVJOT	4	DMR - 1063
14	KH 510	4	DMR - 1064
15	X - 26	4	DMR - 1065

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

M E D I U M M A T U R I T Y Z O N E - 5

S NO	PEDIGREE	ZONE	CODE
* 1	J K M H - 1001	5	DMR - 1071
* 2	BISCO - 201	5	DMR - 1072
3	SEEDTEC - 1081	5	DMR - 1073
* 4	SEEDTEC - 168	5	DMR - 1074
5	P M Z - 237	5	DMR - 1075
* 6	Z M H - 2027	5	DMR - 1076
* 7	NECH - 119	5	DMR - 1077
8	NAVJOT	5	DMR - 1078
9	KH 510	5	DMR - 1079
10	X - 26	4	DMR - 1080

ZONE - 5

UDAIPUR, BANSWARA, GODHRA, CHHINDWARA

EARLY MATURITY ZONE - 2

S NO	PEDIGREE	ZONE	CODE
1	J H - 3851	2	DMR - 1081
2	P M Z - 138	2	DMR - 1082
3	J K M H - 810	2	DMR - 1083
4	M C H - 5	2	DMR - 1084
* 5	BISCO - 204	2	DMR - 1085
6	MAHI KANCHAN	2	DMR - 1086
7	PARKASH	2	DMR - 1087
8	X - 2182	2	DMR - 1088
* 9	PRO - 358	2	DMR - 1089

ZONE - 2

LUDHIANA, DELHI, KANPUR, KARNAL

EARLY MATURITY ZONE - 3

S NO	PEDIGREE	ZONE	CODE
1	J H - 3851	3	DMR - 1091
* 2	P A C - 71006	3	DMR - 1092
3	M C H - 6	3	DMR - 1093
* 4	BISCO - 204	3	DMR - 1094
5	MAHI KANCHAN	3	DMR - 1095
6	PARKASH	3	DMR - 1096
7	X - 2182	3	DMR - 1097
* 8	PRO - 357	3	DMR - 1098

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI, AMBIKAPUR

EARLY MATURITY ZONE - 4

S NO	PEDIGREE	ZONE	CODE
1	B H - 2862	4	DMR - 1101
* 2	BISCO - 204	4	DMR - 1102
3	P M Z - 135	4	DMR - 1103
4	P M Z - 138	4	DMR - 1104
* 5	Z M H - 2052	4	DMR - 1105
* 6	Z M H - 2054	4	DMR - 1106
7	M C H - 5	4	DMR - 1107
8	M C H - 6	4	DMR - 1108
9	J K M H - 810	4	DMR - 1109
10	MAHI KANCHAN	4	DMR - 1110
11	PARKASH	4	DMR - 1111
12	X - 2182	4	DMR - 1112
* 13	PRO - 358	4	DMR - 1113

ZONE - 4

ARBHAVI, KARIMNAGAR, KOLHAPUR

E A R L Y M A T U R I T Y Z O N E - 5

S NO	PEDIGREE	ZONE	CODE
1	J H - 3851	5	DMR - 1121
* 2	BISCO - 204	5	DMR - 1122
3	P M Z - 135	5	DMR - 1123
4	P M Z - 138	5	DMR - 1124
* 5	Z M H - 2054	5	DMR - 1125
6	M C H - 6	5	DMR - 1126
7	J K M H - 810	5	DMR - 1127
8	MAHI KANCHAN	5	DMR - 1128
9	PARKASH	5	DMR - 1129
10	X - 2182	5	DMR - 1130
* 11	PRO - 358	5	DMR - 1131

ZONE - 5

UDAIPUR, BANSWARA, GODHRA, CHINDWARA

E X T R A E A R L Y M A T U R I T Y Z O N E - 3

S NO	PEDIGREE	ZONE	CODE
1	F H - 3210	3	DMR - 1001
2	HIM - 129	3	DMR - 1002
3	SURYA	3	DMR - 1003

ZONE - 3

DHOLI, JASHIPUR, BAHARAICH, VARANASI, AMBIKAPUR

* ENTRY DATA NOT INCLUDED IN REPORT.

BREEDER'S SEED PRODUCTION IN KHARIF 2004

Name of the crop- maize

S. No.	Name of the state	Name of the producing centre	Name of the variety	DAC indent Qtls	Actual alloca. as per BSP-I (Qtls)	Production Qtls	Deficit (-) Surplus (+) target
1	UP	Pantnagar	D 931 (Gaurav)	0.65	0.65	NR	-
			Sweta	0.42	0.42	1.96	1.54
			kanchan	0.55	0.55	5.40	4.85
			Surya	0.54	0.54	2.69	2.15
			Amar (D- 941)	1.28	1.28	1.26	-0.02
			CM 400	2.76	2.76	0.49	-2.27
			CM 300	1.22	1.22	1.60	0.38
			CM 600	0.85	0.85	5.40	4.55
2	Punjab	Ludhiana	Navjot	2.13	2.13	3.17	1.04
			Ageti-76	0.12	0.12	1.80	1.68
			Vijay Composite	1.37	1.37	2.00	0.63
			CM-143	0.08	0.08	9.80	9.72
			CM-144	0.04	0.04	0.84	0.80
			CM-139	4.00	4.00	4.40	0.40
			CM-140	2.00	2.00	2.00	0.00
			Keshari	0.16	0.16	1.28	1.12
3	Rajasthan	Banswara	Mahi Dhawal	0.22	0.22	NR	-
			Mahi Kanchan	0.22	0.22	NR	-
4	MP	Chhindwara	JM -8	1.20	1.20	12.00	10.80
			JM -216	2.00	2.00	20.00	18.00
5	AP	Hyderabad	CM 120	0.69	0.69	0.80	0.11
			CM 118	0.36	0.36	0.50	0.14
			CM 119	0.70	0.70	0.80	0.10
			CM 208	0.32	0.32	0.50	0.18
			CM 211	0.10	0.10	0.25	0.15
			CM 131	0.10	0.10	0.20	0.10
			CM- 132	0.05	0.05	0.10	0.05
			CM-133	0.05	0.05	0.05	0.00
6	Bihar	Dholi	CML-142	1.99	1.99	R	-
			CML 150	0.68	0.68	R	-
			CML 186	2.64	2.64	R	-
			CML- 176	2.61	2.61	R	-

S. No.	Name of the state	Name of the producing centre	Name of the variety	DAC indent Qtls	Actual alloca. as per BSP-I (Qtls)	Production Qtls	Deficit (-) Surplus (+) target
7	UP	Balipar	CML-142	1.99	1.99	NR	-
			CML 150	0.68	0.68	NR	-
			CML 186	2.64	2.64	NR	-
8	Uttarancha	Almora	CM 212	0.08	0.08	0.20	0.12
			CM-141	0.04	0.04	0.21	0.17
9	Karnataka	Dharwad	CM-111	0.41	0.41	0.50	0.09
			CM 500	0.07	0.07		-
			CM 501	0.77	0.77	1.00	0.23
			CM 202	1.24	1.24	2.00	0.76
			KDMI-4	0.32	0.32	0.70	0.38
			KDMI-10	0.16	0.16	0.80	0.64
			DMH-2- Female	0.30	0.30	NR	-
				0.24	0.24	NR	-
10	Delhi	Delhi	CM-136	0.51	0.51	0.03	-0.48
			CM-137#	10.07	10.07	7.00	-3.07
			CM-135	0.38	0.38		-
			CM-138#	5.02	5.02	5.02	0.00
			CM-213	0.16	0.16	0.70	0.54
			CM-142	0.28	0.28	0.50	0.22
11	Delhi	DMR	NLD White	7.40	7.40	R	-
			Shakti-1	0.09	0.09	0.2	0.11
12	J&K	Srinagar	Super-1	0.05	0.05	6.00	5.95
13	UP	Kanpur	Azad Uttam	0.25	0.25	4.50	4.25
14	Gujarat	Godhra	Narmada moti	0.95	0.95	0.99	0.04
			Total	66.2	66.2	109.6	43.44

R = RABI
NR = NOT REPORTED

BREEDING

ORIGINAL

CO-ORDINATED TRIALS

- 1 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES AT BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, VARANASI, KUSHMOHOT, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA, KARIMNAGAR, ARHAVI, PROAGRO BANGALORE, MONSANTO BANGALORE, MANDYA, COIMBATORE, UDAIPUR, CHHINDIWARA IN IET TRIAL No. TR61A DURING KHARIF (2004). 1 - 31
- 2 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT BAJAURA, LUDHIANA, KARNAL, KANPUR, VARANASI, JASHIPUR, AMBICAPUR, JK AGRI HYDERABAD, BAKARAM KANCHAN GANGA, KARIMNAGAR, ARHAVI, PROAGRO BANGALORE, MONSANTO BANGLORE, ZUARI SEED'S, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET TRIAL No. TR61B DURING KHARIF (2004). 32 - 62
- 3 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT BAJAURA, KANGRA, LUDHIANA, KARNAL, VARANASI, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA, JK SEED HYDERABAD, KAVERI SEED'S HYDERABAD, KARIMNAGAR, MONSANTO BANGLORE, COIMBATORE, UDAIPUR, SONA SEED AHAMADABAD, CHHINDIWARA IN IET, TRIAL No. TR62A DURING KHARIF (2004). 63 - 78
- 4 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT AT BAJAURA, KANGRA, KARNAL, KANPUR, VARANASI, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA, KAVERI SEEDS HYDERABAD, KARIMNAGAR, ARHAVI, MONSANTO BANGLORE, MANDYA, COIMBATORE, UDAIPUR, IN IET, TRIAL No. TR62B DURING KHARIF (2004) 79 - 92
- 5 PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFEENT ZONES AT ALMORA, BAJAURA, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, VARANASI, DHOLI, JASHIPUR, AMBICAPUR, HYDERABAD, BAKARAM KANCHAN GANGA, KARIMNAGAR, ARHAVI, PROAGRO BANGALORE, MONSANTO BANGLORE, MANDYA, COIMBATORE, UDAIPUR, CHHINDIWARA IN IET, TRIAL No. TR63 DURING KHARIF (2004). 93 - 130
- 6 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT ALMORA, BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, AMBICAPUR, HYDERABAD, KARIMNAGAR, ARHAVI, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET TRIAL No. TR64 DURING KHARIF (2004). 131 - 161
- 7 PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-II, AT LUDHIANA, KARNAL, PANTNAGAR AET 1st YEAR, IN TRIAL No. TR65Z2 DURING KHARIF (2004). 162 - 164

TABLE NO.	C O N T E N T S	PAGE NO.
8	PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBIKAPUR IN IET TRIAL No. TR65Z3 DURING KHARIF (2004).	165 - 170
9	PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-IV, AT KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, IN IET, TRIAL No. TR65Z4 DURING KHARIF (2004).	171 - 175
10	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-I&II, AT BAJAURA, KANGRA, LUDHIANA, KARNAL, IN AWT 1st YEAR, TRIAL No. TR66Z12 DURING KHARIF (2004).	176 - 180
11	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-III. AT BELIPAR GORAKHPUR, VARANASI, DHOLI, JASHIPUR, AMBIKAPUR IN AET 1st YEAR, TRIAL No. TR66Z3 DURING KHARIF (2004).	181 - 184
12	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-IV, AT BAKARAM KANCHAN GANGA, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, IN AET 1st YEAR, TRIAL No. TR66Z4 DURING KHARIF (2004).	185 - 189
13	PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-V, AT UDAIPUR, GODHRA (KHEDBRAMHA), CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR66Z5 DURING KHARIF (2004).	190 - 192
14	PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFRENT ZONEZ, AT ALMORA, BAJAURA, KANGRA, BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBIKAPUR, KARIMNAGAR, ARBHAVI, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN AET 1st YEAR, TRIAL No. TR67A DURING KHARIF (2004).	193 - 211
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PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES AT BAJAURA, KANGRA, LUDHLANA, KARNAL, PANTNAGAR, KANPUR, VARANASI, KUSHMOHOT, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA, KARIMNAGAR, ARBHAVI, PROAGRO BANGALORE, MONSANTO BANGALORE, MANDYA, COIMBATORE, UDAIPUR, CHHINDIWARA IN IET TRIAL NO. TR61A DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1		ZN 2					
		BAJA	R	KANG	R	MEAN	R	LUDH	R	KARN	R	PANT	R	KANP	R	PANT	R	MEAN	R
1	J H - 10733	3989	20	5746	11	4868	11	8088	15	6434	8	6336	15	7792	7	6336	15	7162	11
2	A H - 31413	4507	11	3395	23	3951	22	6911	24	4812	24	5592	22	7117	11	5592	22	6108	23
3	H K H - 1215	4625	7	3985	20	4305	20	4703	25	4210	10	4463	25	7828	6	4463	25	5801	22
4	M H 04 - 1	2858	25	3710	22	3284	25	7254	23	5254	20	5668	21	6356	18	5668	21	6133	22
5	MS POOL C7	4441	12	3971	21	4206	21	9489	10	6160	12	5466	23	7886	4	5466	23	7250	9
6	S M H - 3303 (Y)	4547	8	5728	12	5137	10	9103	11	6446	5	4904	24	7828	5	4904	24	7070	15
7	M C H - 23	4534	9	4459	17	4497	18	10002	15	7580	14	7186	9	7614	8	7186	9	8096	8
8	C - 302	3813	23	7372	2	5592	5	9708	9	6009	14	6258	16	7061	13	6258	16	7259	18
9	B I O - 31006	5031	3	7367	3	6199	1	9951	6	5838	18	6065	18	8158	3	6065	18	7503	6
10	N E C H - 128	4168	15	6356	7	5262	9	9882	7	6003	15	6816	11	6103	23	6816	11	7201	10
11	P H S - 25 (Y)	4370	13	6203	8	5286	8	10488	3	6444	6	7304	8	6153	21	7304	8	7597	4
12	P M Z - 140	4520	10	4856	16	4688	15	7752	19	6439	7	7625	4	6533	17	7625	4	7087	14
13	M H 04 - 3	5424	1	4195	19	4809	13	7814	16	5228	21	5783	19	8558	1	5783	19	6846	19
CHECKS:																			
14	PARBHAT	3881	22	3344	24	3613	24	7776	18	6037	13	5687	20	6967	15	5687	20	6616	21
15	SEEDTEC - 2324	4136	16	5555	13	4845	12	8426	14	6178	11	7664	3	6997	14	7664	3	7316	7
16	PRO - 311	5156	2	5929	10	5542	6	9873	8	4824	23	7376	6	6142	22	7376	6	7054	16
17	BIO - 9681	4741	4	4204	18	4473	19	7629	21	5051	22	7333	7	6819	16	7333	7	6708	20
	MEAN YIELD=	4305		5390		4847		8634		6005		6550		7031		6550		7055	
	MEAN STAND	27		22		24		37		26		34		36		34		33	
	C.D. AT 5%=	671		1638		1154		1468		231		1798		682		1798		1045	
	C.V. %	9.50		18.52		-		12.07		2.34		19.48		5.91		19.48		-	
	F (Prob)	.000		.000		-		.000		.000		.000		.000		.000		-	
	PLOT SIZE=	4.80		3.60		-		5.20		4.50		7.50		6.00		7.50		-	
AGRONOMY DATA:																			
	SOWING DATE (2004)	25-06		20-06		-		27-06		20-06		24-06		24-06		24-06		-	
	HARVEST DATE (2004)	19-10		3-10		-		4-10		24-09		3-10		26-09		3-10		-	
	IRRIGATION NOS	2		-		-		7		4		-		-		-		-	
	FERTILIZER APPLIED	N 120		80		-		150		150		120		80		120		-	
		P 60		60		-		60		60		60		40		60		-	
		K 40		40		-		30		40		-		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20.0%) : DHOL 34.2% : HYDE 29.5% : KOLH 23.1%

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		VARA	R	KUSH	R	JASH	R	AMBI	R	MEAN	R				
1	J H - 10733	4638	23	4125	9	4617	15	5741	22	4780	20				
2	A H - 31413	4133	25	3122	25	3527	25	5135	25	3979	25				
3	H K H - 1215	4289	24	3170	24	4086	20	5996	20	4385	24				
4	M H 04 - 1	5095	21	3307	23	4243	18	5357	23	4500	22				
5	MS POOL C7	5385	17	3947	15	4637	14	5985	21	4989	19				
6	S M H - 3303 (Y)	5398	16	4490	3	5068	8	7584	5	5635	18				
7	M C H - 23	6636	3	5506	1	6194	2	7140	10	6369	1				
8	C - 302	5663	11	4347	5	4289	17	6575	16	5218	15				
9	B I O - 31006	6840	2	3970	14	5260	7	7354	8	5856	5				
10	N E C H - 128	5910	10	4165	8	6989	1	6550	17	5903	4				
11	P H S - 25 (Y)	6857	1	4215	7	5974	4	7365	7	6103	2				
12	P M Z - 140	5198	20	3411	20	4293	16	7584	6	5121	16				
13	M H 04 - 3	4640	22	3576	17	3926	24	6111	19	4563	21				
CHECKS:															
14	PARBHAT	5215	19	3469	19	3976	23	5196	24	4464	23				
15	SEEDTEC - 2324	6156	7	4734	2	4920	11	7835	3	5911	3				
16	PRO - 311	6301	5	3980	12	4238	19	6758	13	5319	13				
17	BIO - 9681	5650	12	3312	22	4054	21	7909	2	5231	14				
	MEAN YIELD=	5636		3940		4830		6740		5287					
	MEAN STAND	35		30		31		34		33					
	C.D. AT 5% =	577		1111		307		982		744					
	C.V. % =	6.24		20.01		4.51		10.34		-					
	F (Prob) =	.000		.002		.000		.000		-					
	PLOT SIZE=	7.50		7.50		6.00		7.50		-					
AGRONOMY DATA:															
	SOWING DATE (2004)	7-07		11-07		3-07		5-07		-					
	HARVEST DATE (2004)	11-10		26-10		21-10		-		-					
	IRRIGATION NOS	2		2		-		-		-					
	FERTILIZER APPLIED N	120		120		120		100		-					
	P	60		60		60		60		-					
	K	40		40		60		40		-					

TABLE NO. 1 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4			
		BAKA	R	KARI	R	ARBH	R	PROA	R	BANG MONS	R	MAND	R	COIM	R	MEAN	R
1	J H - 10733	8405	20	5632	19	6015	15	8476	22	6272	23	7376	18	4327	22	6643	21
2	A H - 31413	7773	24	4922	21	5270	22	6436	24	5657	24	6086	25	3055	25	5600	24
3	H K H - 1215	6853	25	4781	24	2083	25	-	-	1686	25	6191	24	4457	20	4342	25
4	M H 04 - 1	8443	19	4585	25	5629	19	8870	20	6613	21	7087	21	4388	21	6517	22
5	MS POOL C7	9272	13	5791	15	5996	16	9193	19	6853	19	7701	16	4990	11	7114	18
6	S M H - 3303 (Y)	9360	10	6651	4	6610	7	10149	12	8512	15	9243	9	4495	17	7860	11
7	M C H - 23	8951	16	6284	8	5244	23	8746	21	9486	8	11204	1	6069	2	7998	9
8	C - 302	9468	7	6102	13	6779	5	11506	4	9238	10	7966	14	4485	19	7935	10
9	B I O - 31006	9750	5	6416	7	6078	14	9309	17	9132	11	7121	20	4846	14	7522	15
10	N E C H - 128	9933	4	5701	18	6164	12	10401	11	8837	14	9498	5	6064	3	8086	8
11	P H S - 25 (Y)	9451	8	7041	1	6183	11	10127	13	9681	7	9872	4	5606	5	8280	5
12	P M Z - 140	7961	23	5255	20	5279	21	9525	16	6585	22	7293	19	5230	9	6733	20
13	M H 04 - 3	8743	18	4826	23	5167	24	9300	18	6988	18	7835	15	4494	18	6765	19
CHECKS:																	
14	PARBHAT	8222	21	4829	22	5883	17	7676	23	6756	20	7040	22	4249	23	6379	23
15	SEEDTEC - 2324	9183	14	6588	6	6719	6	11496	5	10232	4	9480	6	5300	7	8428	3
16	PRO - 311	9316	11	6764	3	5878	18	10799	6	10463	3	9023	10	5004	10	8178	6
17	BIO - 9681	8958	15	5791	16	6502	9	10405	10	8358	16	7685	17	4657	15	7479	16
	MEAN YIELD=	9064		5909		6041		9567		8351		8342		4903		7454	
	MEAN STAND	31		38		39		31		40		35		26		34	
	C.D. AT 5%=	1445		1148		1689		1157		1117		1463		661		1240	
	C.V. %	11.31		13.79		19.84		7.07		9.50		10.69		9.58		-	
	F (Prob)	.000		.000		.000		.000		.000		.000		.000		-	
	PLOT SIZE=	6.00		6.00		7.50		5.53		7.50		7.00		4.80		-	
AGRONOMY DATA:																	
	SOWING DATE (2004)	1-07		23-07		1-07		7-07		20-07		24-07		29-06		-	
	HARVEST DATE (2004)	20-10		10-11		16-11		-		22-11		8-12		28-10		-	
	IRRIGATION NOS	7		-		8		-		13		6		9		-	
	FERTILIZER APPLIED N	120		180		150		150		-		150		135		-	
	P	60		60		75		60		-		75		63		-	
	K	50		40		38		40		-		40		50		-	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha)				AT 15% MOISTURE				
		UDAI	R	CHHI	R	ZN 5	MEAN	R	MEAN	R
J H	- 10733	3961	15	5549	19	4755	17	5975	20	
A H	- 31413	2635	22	3305	25	2970	24	4915	24	
H K	- 1215	977	25	4655	22	2816	25	4502	25	
M H	04 - 1	3200	20	4628	23	3914	23	5397	23	
MS	POOL C7	4722	9	5923	14	5323	13	6200	18	
S M	H - 3303 (Y)	3227	19	5383	20	4305	21	6564	14	
M C	H - 23	2534	23	7988	3	5261	14	7019	7	
C	- 302	4573	11	6465	12	5519	10	6720	11	
B I	O - 31006	5053	6	6854	9	5953	6	6863	9	
N E	C H - 128	6018	2	8838	1	7428	1	7073	4	
P H	S - 25 (Y)	4192	13	6774	10	5483	11	7068	5	
P M	Z - 140	1596	24	7158	7	4377	20	6005	19	
M H	04 - 3	3821	17	5638	17	4730	19	5898	21	
CHECKS:										
PARBHAT		3771	18	4570	24	4171	22	5502	22	
SEEDTEC	- 2324	5272	5	6522	11	5897	7	7021	6	
PRO	- 311	4527	12	5186	21	4856	16	6712	12	
BIO	- 9681	4891	7	5771	16	5331	12	6301	16	
MEAN YIELD=		4104		6256		5180		6400		
MEAN STAND		33		37		35		33		
C.D. AT 5%		843		1429		1136		1075		
C.V. %		14.59		16.22		-		-		
F (Prob)		.000		.000		-		-		
PLOT SIZE=		6.00		5.60		-		-		
AGRONOMY DATA:										
SOWING DATE	{ 2004 }	1-07		30-06		-		-		
HARVEST DATE	{ 2004 }	11-10		25-10		-		-		
IRRIGATION NOS		-		-		-		-		
FERTILIZER APPLIED		N 120		120		-		-		
		P 60		60		-		-		
		K -		40		-		-		

TABLE NO. 1 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE PRO - 311										
SI NO	PEDIGREE	BAJA	KANG	ZN 1 MEAN	LUDH	KARN	PANT	KANP	ZN 2 MEAN	
1	J H - 10733	-	-	-	-	33.37	-	26.87	1.54	
2	A H - 31413	-	-	-	-	28.73	-	15.88	-	
3	H K H - 1215	-	-	-	-	8.91	-	27.46	-	
4	M H 04 - 1	-	-	-	-	27.69	-	3.48	-	
5	MS POOL C7	-	-	-	-	33.63	-	28.40	2.78	
6	S M H - 3303 (Y)	-	-	-	1.31	57.14	-	27.46	0.23	
7	M C - 23	-	-	-	-	24.57	-	23.97	14.77	
8	C - 302	24.35	-	0.91	-	21.03	-	14.97	2.91	
9	B I O C H - 31006	24.27	-	11.86	0.78	24.44	-	32.84	6.37	
10	N P H S - 128	-	-	-	0.09	33.58	-	0.18	2.09	
11	P M Z - 25 (Y)	4.62	-	-	6.22	33.49	3.38	6.38	7.70	
12	P M Z - 140	-	-	-	-	8.38	-	39.35	0.48	
13	M H 04 - 3	5.20	-	-	-	-	-	-	-	
CHECKS:										
14	PARBHAT	-	-	-	-	25.14	-	13.43	-	
15	SEEDTEC - 2324	-	-	-	-	28.07	3.90	13.93	3.72	
16	PRO - 311	-	-	-	-	4.71	-	11.04	-	
17	BIO - 9681	-	-	-	-	-	-	-	-	
GRAIN YIELD & SUPERIORITY OVER THE PRO - 311										
SI NO	PEDIGREE	VARA	KUSH	JASH	AMBI	ZN 3 MEAN	KANC BAKA	KARI	ARBH	
1	J H - 10733	-	3.65	8.94	-	-	-	-	2.33	
2	A H - 31413	-	-	-	-	-	-	-	-	
3	H K H - 1215	-	-	-	-	-	-	-	-	
4	M H 04 - 1	-	-	0.11	-	-	-	-	-	
5	MS POOL C7	-	-	9.42	-	-	-	-	-	
6	S M H - 3303 (Y)	-	12.82	19.58	12.22	5.93	0.48	-	2.00	
7	M C - 23	5.31	38.33	46.16	5.65	19.73	-	-	12.44	
8	C - 302	-	9.22	1.20	-	-	-	-	-	
9	B I O C H - 31006	8.55	4.64	24.13	8.82	10.09	1.63	-	15.31	
10	N P H S - 128	-	4.64	64.92	-	10.98	4.66	-	3.40	
11	P M Z - 25 (Y)	8.82	5.91	40.98	8.98	14.73	6.63	4.09	4.86	
12	P M Z - 140	-	-	1.31	12.22	-	1.45	-	5.18	
13	M H 04 - 3	-	-	-	-	-	-	-	-	
CHECKS:										
14	PARBHAT	-	18.95	16.09	15.93	11.13	-	-	0.09	
15	SEEDTEC - 2324	-	-	-	-	-	-	-	14.30	
16	PRO - 311	-	-	-	-	-	-	-	-	
17	BIO - 9681	-	-	-	17.03	-	-	-	10.61	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311										OV'L MEAN
		PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN			
1	J H - 10733	-	-	-	-	-	-	7.01	-	-	-	-
2	A H - 31413	-	-	-	-	-	-	-	-	-	-	-
3	H K H - 1215	-	-	-	-	-	-	-	-	-	-	-
4	M H 04 - 1	-	-	-	-	-	-	-	-	-	-	-
5	MS POOL C7	-	-	-	-	-	-	-	-	-	-	-
6	S M H - 3303 (Y)	-	-	2.43	-	-	4.30	14.23	9.60	4.57	-	-
7	M C H - 23	-	-	24.17	21.27	-	-	3.81	8.34	0.11	-	-
8	C H - 302	-	-	-	-	-	-	54.04	13.65	2.24	-	-
9	B I O - 31006	-	-	-	-	-	-	24.68	22.59	5.38	-	-
10	N E C H - 128	-	-	5.26	21.18	-	1.01	32.17	13.65	0.11	-	-
11	P H S - 25 (Y)	-	-	9.41	12.02	1.25	11.62	70.44	52.96	5.38	-	-
12	M Z - 140	-	-	-	4.52	-	32.93	30.64	12.91	5.30	-	-
13	M H 04 - 3	-	-	-	-	-	-	38.05	-	-	-	-
14	CHECKS:	-	-	-	-	-	-	8.72	-	-	-	-
15	PARBHAT	-	-	-	-	-	-	-	-	-	-	-
16	SEEDTEC - 2324	6.46	-	5.07	5.90	3.06	16.45	25.78	21.43	4.59	-	-
17	PRO - 311	-	-	-	-	-	-	-	-	-	-	-
17	BIO - 9681	-	-	-	-	-	8.03	11.29	9.77	-	-	-

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681										ZN 2 MEAN
		BAJA	KANG	ZN 1 MEAN	LU DH	KARN	PANT	KANP				
1	J H - 10733	-	36.68	8.83	6.02	26.45	-	-	14.26	7.50	-	-
2	A H - 31413	-	-	-	-	-	-	-	4.36	-	-	-
3	H K H - 1215	-	-	-	-	-	-	-	14.79	-	-	-
4	M H 04 - 1	-	-	-	-	-	-	-	-	-	-	-
5	MS POOL C7	-	-	-	-	-	-	-	-	-	-	-
6	S M H - 3303 (Y)	-	36.23	14.86	24.38	21.99	-	-	15.64	8.50	-	-
7	M H - 23	-	6.07	0.54	19.32	4.98	-	-	14.79	6.35	-	-
8	C H - 302	-	75.35	25.03	31.11	27.37	-	-	11.65	22.68	-	-
9	B I O - 31006	-	75.23	38.60	27.25	53.01	-	-	3.54	9.21	-	-
10	N E C H - 128	6.11	51.18	17.64	30.43	21.24	-	-	19.63	11.80	-	-
11	P H S - 25 (Y)	-	47.53	18.19	29.53	22.87	-	-	-	8.77	-	-
12	M Z - 140	-	15.50	4.81	37.47	29.74	-	-	-	14.39	-	-
13	M H 04 - 3	14.39	-	7.53	1.61	31.02	3.99	-	-	7.44	-	-
14	CHECKS:	-	-	-	2.43	0.09	-	-	25.50	1.35	-	-
15	PARBHAT	-	-	-	-	-	-	-	-	-	-	-
16	SEEDTEC - 2324	-	32.13	8.33	1.92	23.60	-	-	2.16	0.28	-	-
17	PRO - 311	8.74	41.01	23.91	10.44	23.27	4.52	-	2.61	9.88	-	-
17	BIO - 9681	-	-	-	29.41	-	0.60	-	-	4.85	-	-

TABLE NO. 1 (CONT.)

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 2		ZN 3	
	BAJA	KANG	ZN 1 MEAN	LJUDH	KARN	KANP	MEAN	VARA	KUSH	JASH	AMBI	MEAN	MEAN	
1 J H - 10733	69.3	53.7	61.5	52.8	55.0	54.7	54.1	53.0	53.5	53.8	54.5	53.7	53.7	
2 A H - 31413	65.7	50.3	58.0	49.5	49.3	50.7	49.8	45.7	48.3	48.5	47.0	47.4	47.4	
3 H K H - 1215	69.3	59.7	64.5	55.0	56.0	59.3	56.8	53.3	53.3	54.0	52.0	53.1	53.1	
4 M H 04 - 1	69.0	57.7	63.3	54.5	53.7	57.0	55.1	48.7	52.5	53.0	53.3	51.9	51.9	
5 MS POOL C7	66.3	53.7	60.0	50.5	52.3	55.0	52.6	49.7	50.3	50.8	52.8	50.9	50.9	
6 S M H - 3303 (Y)	72.0	53.7	62.8	51.3	52.3	53.7	52.4	49.7	50.8	51.0	51.5	50.7	50.7	
7 M C H - 23	68.3	57.0	62.7	54.3	54.7	55.0	54.6	50.3	52.3	51.0	53.5	51.8	51.8	
8 C - 302	65.3	51.0	58.2	48.5	51.3	51.3	50.4	46.0	48.0	49.5	50.0	48.4	48.4	
9 B I O - 31006	66.0	50.7	58.3	49.5	52.3	54.7	52.2	47.0	51.0	51.3	52.8	50.5	50.5	
10 N E C H - 128	69.0	59.7	64.3	52.3	54.0	52.0	52.8	50.7	51.3	51.5	53.8	51.8	51.8	
11 P H S - 25 (Y)	66.7	52.7	59.7	51.8	52.7	51.7	52.0	50.0	52.3	50.3	51.5	51.0	51.0	
12 P M Z - 140	67.0	57.0	62.0	54.8	55.7	51.0	53.8	51.7	52.3	51.3	53.3	52.1	52.1	
13 M H 04 - 3	66.7	51.0	58.8	51.0	53.7	52.0	52.2	50.3	52.8	53.3	53.3	52.4	52.4	
CHECKS:														
14 PARBHAT	68.0	55.0	61.5	52.3	52.3	51.3	52.0	49.0	52.3	52.0	52.5	51.4	51.4	
15 SEEDTEC - 2324	66.7	57.7	62.2	52.0	54.7	51.3	52.7	51.0	51.8	51.3	53.5	51.9	51.9	
16 PRO - 311	67.7	53.7	60.7	52.0	53.3	54.0	53.1	51.7	52.0	50.8	53.8	52.0	52.0	
17 BIO - 9681	64.7	53.7	59.2	49.0	51.0	51.7	50.6	48.3	49.3	50.3	49.8	49.4	49.4	
MEAN LOCATION	67.9	54.7	61.3	52.0	53.3	53.3	52.8	49.9	51.5	51.2	52.2	51.2	51.2	
C.D. AT 5% =	4.8	1.8	3.3	1.5	0.7	1.4	1.2	1.8	1.7	1.6	1.4	1.6	1.6	
C.V. % =	4.3	2.0	-	2.0	0.8	1.6	-	2.2	2.3	2.2	1.9	-	-	
F (Prob)	.029	.000	-	.000	.000	.000	-	.000	.000	.000	.000	-	-	

TABLE NO. 1 (CONT.)

SL NO	PEDIGREE	DAYS TO 50% POLLEN SHED										OV'L MEAN	
		KANC	BAKA	KARI	ARBH	BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI		CHHI
1	J H - 10733	53.3	57.8	60.8	59.3	58.3	52.0	57.5	57.0	52.8	57.0	54.9	56.0
2	A H - 31413	51.0	57.0	58.0	53.7	54.3	48.0	52.3	53.5	50.8	53.3	52.0	51.8
3	H K H - 1215	53.8	56.5	62.5	-	57.0	54.3	54.8	56.5	54.8	57.3	56.0	56.6
4	M H 04 - 1	53.3	57.3	62.0	59.0	58.8	50.7	56.3	56.7	54.3	57.3	55.8	56.0
5	MS POOL C7	52.3	58.3	60.5	58.7	56.3	51.7	56.5	56.3	52.8	55.8	54.3	54.7
6	S M H - 3303 (Y)	52.0	56.3	59.3	58.7	56.5	51.7	56.3	55.8	51.8	54.5	53.1	54.6
7	M C H - 23	52.5	56.3	61.0	58.3	57.0	50.3	57.5	56.1	53.5	55.3	54.4	55.4
8	C - 302	50.8	57.3	58.0	54.7	54.3	48.3	53.5	53.8	51.5	52.0	51.8	52.3
9	B I O - 31006	50.8	57.3	58.3	55.3	55.3	50.0	54.8	54.5	52.8	53.0	52.9	53.5
10	N E C H - 128	51.8	56.3	60.3	60.0	58.0	50.3	57.8	56.3	54.8	56.3	55.5	55.5
11	P H S - 25 (Y)	51.5	56.8	59.5	58.3	56.5	50.7	56.0	55.6	53.3	53.5	53.4	54.2
12	P M Z - 140	52.8	57.8	61.3	58.0	57.3	51.0	56.8	56.4	55.5	56.3	55.9	55.6
13	M H 04 - 3	53.8	56.5	61.0	60.0	57.5	53.0	58.0	57.1	53.8	55.8	54.8	55.2
CHECKS:													
14	PARBHAT	52.8	57.8	60.5	58.0	57.3	49.7	57.3	56.2	53.3	56.0	54.6	54.8
15	SEEDTEC - 2324	52.8	56.8	59.5	56.0	56.5	50.3	57.3	55.6	55.5	54.0	54.8	54.9
16	PRO - 311	52.3	58.0	60.5	59.0	56.8	52.3	56.5	56.5	54.3	54.0	54.1	55.1
17	BIO - 9681	50.3	57.8	58.3	55.7	53.5	49.3	55.5	54.3	52.5	52.0	52.3	52.9
MEAN LOCATION													
C.D. AT 5%		1.4	1.8	1.8	1.4	1.3	2.5	0.9	1.6	1.2	1.5	1.4	-
C.V. %		1.9	2.2	2.2	1.5	1.7	3.0	1.2	-	1.6	1.9	-	-
F (Prob)		.000	.199	.000	.000	.000	.002	.000	-	.000	.000	-	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING					ZN 1		ZN 2		ZN 3			
		BAJA	KANG	MEAN	LU DH	KARN	PANT	KAMP	MEAN	VARA	KUSH	JASH	AMBI	MEAN
1	J H - 10733	71.3	58.7	65.0	53.8	57.3	57.3	59.7	57.0	57.0	54.5	57.8	57.8	56.8
2	A H - 31413	69.0	56.0	62.5	50.8	52.3	51.3	55.0	52.3	52.0	50.0	52.3	51.0	51.3
3	H K H - 1215	72.7	65.3	69.0	56.3	58.0	58.5	64.7	59.4	57.7	55.0	57.0	57.8	56.9
4	M H 04 - 1	72.7	62.7	67.7	56.3	56.7	57.5	61.3	57.9	53.3	54.3	56.3	58.0	55.5
5	MS POOL C7	68.7	58.3	63.5	51.8	54.3	55.0	60.0	55.3	55.7	52.0	54.0	55.8	54.4
6	S M H - 3303 (Y)	75.0	58.7	66.8	52.5	55.3	55.5	59.3	55.7	54.7	52.5	53.8	53.8	53.7
7	M C H - 23	71.7	62.3	67.0	56.0	57.0	56.8	59.3	57.3	55.3	53.5	54.3	57.5	55.1
8	C - 302	69.3	55.7	62.5	49.8	53.7	53.0	55.7	53.0	50.3	49.0	52.5	53.0	51.2
9	B I O - 31006	68.3	55.0	61.7	51.0	54.7	54.3	59.3	54.8	51.7	52.3	54.5	55.5	53.5
10	N E C H - 128	71.7	64.7	68.2	53.5	57.0	57.5	57.0	56.3	55.0	52.0	54.5	57.8	54.8
11	P H S - 25 (Y)	69.0	57.3	63.2	53.0	54.7	54.3	56.7	54.6	54.0	53.3	53.8	54.0	53.8
12	P M Z - 140	69.7	62.3	66.0	56.3	57.7	57.3	55.7	56.7	55.7	53.8	54.0	56.5	55.0
13	M H 04 - 3	70.0	56.0	63.0	52.3	56.7	56.8	57.3	55.8	56.7	54.0	56.5	57.5	56.2
CHECKS:														
14	PARBHAT	71.0	60.0	65.5	53.5	54.3	57.5	56.3	55.4	57.0	54.5	55.5	56.5	55.9
15	SEEDTEC - 2324	70.3	62.3	66.3	53.8	56.7	56.5	56.3	55.8	54.0	52.8	54.5	56.8	54.5
16	PRO - 311	69.7	58.3	64.0	53.3	55.7	55.3	58.7	55.7	55.7	53.5	53.8	57.0	55.0
17	BIO - 9681	66.7	58.7	62.7	50.0	53.0	52.3	56.0	52.8	52.7	49.8	54.0	52.5	52.2
	MEAN LOCATION	70.8	59.8	65.3	53.4	55.7	55.6	58.1	55.7	54.7	52.7	54.4	55.7	54.4
	C.D. AT 5%	5.6	1.9	3.8	1.6	0.8	2.1	1.4	1.5	2.0	1.6	1.5	2.0	1.8
	C.V. %	4.8	1.9	-	2.2	0.9	2.7	1.4	-	2.2	2.2	2.0	2.6	-
	F (Prob)	.054	.000	-	.000	.000	.000	.000	-	.000	.000	.000	.000	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING										OV'L MEAN	
		KANC	BAKA	KARI	AREH	BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI		CHHI
1	J H - 10733	53.7	61.0	60.5	60.0	59.3	53.7	59.8	58.3	54.0	57.5	55.8	58.1
2	A H - 31413	52.0	60.8	58.0	55.0	55.3	51.0	56.0	55.4	52.8	56.3	54.5	54.6
3	H K H - 1215	53.3	60.0	66.8	-	60.0	57.3	58.5	59.3	60.5	59.5	60.0	59.9
4	M H 04 - 1	54.0	61.8	63.5	61.0	59.8	52.0	59.3	58.8	58.8	59.0	58.9	58.8
5	MS POOL C7	53.0	61.8	61.5	60.0	57.3	53.3	59.5	58.0	54.5	57.0	55.8	57.0
6	S M H - 3303 (Y)	52.3	59.3	60.5	60.0	57.5	53.7	59.3	57.5	53.8	56.5	55.1	57.0
7	M C H - 23	53.0	59.0	63.0	60.0	58.0	53.3	61.0	58.2	58.0	58.0	58.0	58.3
8	C - 302	50.3	62.5	58.5	55.7	55.3	50.0	55.5	55.4	53.0	52.8	52.9	54.5
9	B I O - 31006	50.7	61.0	59.3	56.3	56.3	51.7	58.8	56.3	54.5	56.0	55.3	55.8
10	N E C H - 128	52.7	60.3	61.5	60.7	59.0	51.3	60.8	58.0	58.3	57.0	57.6	58.0
11	P H S - 25 (Y)	52.0	60.8	61.5	59.7	57.5	52.7	58.3	57.5	55.0	55.8	55.4	56.5
12	P M Z - 140	52.7	61.8	61.8	59.0	58.5	52.3	58.8	57.8	60.0	57.5	58.8	57.9
13	M H 04 - 3	54.0	60.0	61.8	61.3	58.5	54.7	61.3	58.8	59.0	58.0	58.5	58.0
CHECKS:													
14	PARBHAT	52.7	61.3	62.8	60.0	58.3	51.0	61.3	58.2	57.3	58.8	58.0	57.9
15	SEEDTEC - 2324	53.3	60.0	59.5	57.0	57.5	52.0	60.3	57.1	58.8	55.8	57.3	57.3
16	PRO - 311	52.3	62.0	60.8	60.3	57.8	54.0	58.5	58.0	57.3	55.5	56.4	57.3
17	BIO - 9681	50.3	61.0	57.8	56.3	54.5	50.7	57.5	55.4	54.3	52.8	53.5	54.8
MEAN LOCATION													
C.D. AT 5%		1.2	2.5	1.9	1.6	1.4	2.8	1.0	1.8	1.6	1.5	1.6	-
C.V. %		1.6	2.9	2.2	1.7	1.7	3.3	1.2	-	2.0	1.9	-	-
F (Prob)		.000	.074	.000	.000	.000	.003	.000	-	.000	.000	-	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK										ZN 2		ZN 3	
		BAJA	KANG	MEAN	LUDH	KARN	KANP	MEAN	VARA	JASH	AMBI	MEAN	AMBI	MEAN	
1	J H - 10723	112.0	90.7	101.3	86.3	88.7	89.3	88.1	88.0	91.8	90.3	90.0	90.3	90.0	
2	A H - 31413	107.3	90.0	98.7	84.3	83.7	86.3	84.8	85.5	88.0	87.0	86.8	87.0	86.8	
3	H K H - 1215	114.7	95.7	105.0	88.8	88.7	93.0	90.1	87.0	92.3	92.0	90.4	92.0	90.4	
4	M H 04 - 1	114.3	95.7	105.0	90.3	85.7	87.0	87.6	87.5	92.8	91.8	90.7	91.8	90.7	
5	MS POOL C7	113.3	95.0	104.2	90.0	84.7	91.7	88.8	89.5	92.5	90.3	90.8	90.3	90.8	
6	S M H - 3303 (Y)	113.0	94.7	103.8	87.8	86.3	92.0	88.7	86.0	91.8	88.8	88.8	88.8	88.8	
7	M C H - 23	114.7	97.7	106.2	90.0	88.0	92.7	90.2	90.5	93.0	91.5	91.7	91.5	91.7	
8	C - 302	108.0	95.0	101.5	82.8	83.7	89.0	85.1	84.5	89.8	87.5	87.3	87.5	87.3	
9	B I O - 31006	110.0	90.7	100.3	87.0	85.3	91.0	87.8	85.0	90.5	91.8	89.1	91.8	89.1	
10	N E C H - 128	114.3	94.7	104.5	89.0	85.7	84.3	86.3	86.5	92.8	91.3	90.2	91.3	90.2	
11	P H S - 25 (Y)	113.3	94.7	104.0	87.0	84.0	85.7	85.6	90.0	91.5	88.8	90.1	88.8	90.1	
12	P M Z - 140	113.3	97.3	105.3	91.5	88.3	82.3	87.4	88.0	90.8	91.5	90.1	91.5	90.1	
13	M H 04 - 3	110.7	95.0	102.8	92.0	88.7	93.7	91.4	87.5	93.3	91.8	90.8	91.8	90.8	
CHECKS:															
14	PARBHAT	112.0	95.3	103.7	88.3	85.0	87.3	86.9	89.5	93.3	89.8	90.8	89.8	90.8	
15	SEEDTEC - 2324	109.3	94.7	102.0	87.0	84.3	85.3	85.6	86.5	92.3	90.3	89.7	90.3	89.7	
16	PRO - 311	112.3	91.0	101.7	86.3	86.0	87.0	86.4	87.5	91.5	88.5	89.2	88.5	89.2	
17	BIO - 9681	109.0	91.0	100.0	81.5	84.3	84.3	83.4	88.5	92.5	88.0	89.7	88.0	89.7	
MEAN LOCATION															
C.D. AT 5% =		4.7	0.7	2.7	2.8	1.3	6.9	3.7	1.2	1.7	2.0	1.6	2.0	1.6	
C.V. % =		2.5	0.5	-	2.3	0.9	4.8	-	0.8	1.3	1.6	-	1.3	1.6	
F (Prob)		.036	.000	-	.000	.000	.010	-	.000	.000	.000	-	.000	.000	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT							
		KARI	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	HARVEST BAJA KANG	ZN 1 MEAN	
1	J H - 10723	105.0	92.8	92.7	104.8	98.8	89.3	87.0	88.1	93.5	25.8	18.2	22.0
2	A H - 31413	104.5	89.8	90.7	101.0	96.5	77.8	81.3	79.5	89.8	24.4	18.2	21.3
3	H K H - 1315	103.8	83.0	95.7	103.5	96.5	72.8	93.5	83.1	93.2	25.0	18.5	21.7
4	M H 04 - 1	105.5	98.0	95.3	104.0	100.7	83.8	86.5	85.1	94.1	26.1	20.4	23.3
5	MS POOL 07	105.0	95.0	96.0	104.5	100.1	84.5	92.3	88.4	94.6	23.6	18.1	20.8
6	S M H - 3303 (Y)	103.5	97.5	94.0	104.3	99.8	81.8	87.3	84.5	93.5	26.5	23.4	24.9
7	M C H - 23	102.3	98.3	94.7	106.0	100.3	76.5	93.5	85.0	94.9	29.1	17.3	23.2
8	C - 302	106.0	95.8	90.7	100.5	98.2	81.5	84.0	82.8	91.3	23.0	15.2	19.1
9	B I O - 31006	104.3	98.0	94.0	103.8	100.0	82.0	87.3	84.6	92.9	27.2	17.6	22.4
10	N E C H - 128	103.5	99.5	95.0	105.8	100.9	85.5	93.5	89.5	94.4	26.3	17.2	21.7
11	P H S - 25 (Y)	104.3	95.3	94.0	103.3	99.2	82.0	88.3	85.1	93.0	23.7	16.9	20.3
12	P M Z - 140	106.0	92.3	95.0	103.8	99.3	75.0	91.5	83.3	93.3	32.5	14.4	23.5
13	M H 04 - 3	103.5	100.8	96.7	106.3	101.8	84.0	93.8	88.9	95.5	20.8	21.4	21.1
CHECKS:													
14	PARSHAT	105.0	95.3	95.3	106.3	100.5	82.3	88.5	85.4	93.8	24.1	19.1	21.6
15	SEEDTEC - 2324	103.0	100.5	92.0	105.3	100.2	85.3	87.3	86.3	93.1	27.8	17.6	22.7
16	PRO - 311	105.0	95.0	93.3	103.5	99.2	84.0	86.5	85.3	92.7	25.4	15.1	20.2
17	BIO - 9681	104.3	98.5	93.7	102.5	99.7	81.5	82.0	81.8	91.5	24.3	19.4	21.8
MEAN LOCATION		104.2	96.8	93.9	104.0	99.7	82.3	88.4	85.3	93.3	26.1	18.0	22.1
C.D. AT 5%		2.6	3.4	3.6	1.0	2.6	2.0	2.3	2.2	-	3.4	6.8	5.1
C.V. %		1.7	2.5	2.3	0.7	-	1.7	1.9	-	-	7.9	22.8	-
F (Prob)		.091	.000	.048	.000	-	.000	.000	-	-	.000	.770	-

TABLE NO. 1 (CONT.)

S1 NO PEDIGREE	MOISTURE & AT HARVEST										ZN 3 MEAN	ARBH	BANG PROA	BANG MONS	MAND	ZN 4 MEAN
	LU DH	PANT	ZN 2 MEAN	VARA	KUSH	JASH	ZN 3 MEAN	ARBH	BANG PROA	BANG MONS						
1 J H - 10733	25.5	33.0	29.3	34.4	23.9	20.6	26.3	18.2	26.2	24.2	19.8	22.1				
2 A H - 31413	23.5	31.0	27.3	31.4	18.7	19.9	23.3	16.7	25.3	22.5	19.1	20.9				
3 H K H - 1215	33.8	38.7	36.3	32.5	25.9	20.1	26.1	15.3	-	16.3	19.6	17.1				
4 M H 04 - 1	29.8	33.3	31.6	31.3	21.5	20.6	24.5	17.3	28.7	24.5	20.1	22.7				
5 MS POOL C7	23.7	34.1	28.9	35.2	25.6	19.8	26.9	18.5	31.3	22.3	19.8	22.9				
6 S M H - 3303 (Y)	22.9	35.9	29.4	35.5	27.0	19.4	27.3	17.2	30.2	23.6	19.7	22.7				
7 M C H - 23	22.9	38.1	30.5	39.2	26.6	22.0	29.3	21.0	31.6	25.0	19.3	24.2				
8 C - 302	22.9	30.7	26.8	33.8	23.3	21.0	26.0	17.5	28.5	23.5	19.3	22.2				
9 B I O - 31006	27.0	33.9	30.4	30.2	25.5	18.9	24.9	18.5	32.4	24.6	20.7	24.0				
10 N E C H - 128	28.8	35.3	32.0	34.7	27.5	18.8	27.0	20.5	33.2	22.9	19.4	24.0				
11 P H S - 25 (Y)	29.5	35.6	32.6	36.8	29.0	19.1	28.3	18.8	33.1	23.6	20.1	23.9				
12 P M Z - 140	39.2	25.6	32.4	37.3	25.0	21.4	27.9	20.0	28.9	23.9	19.7	23.1				
13 M H 04 - 3	30.0	38.5	34.3	32.8	25.6	20.8	26.4	17.5	29.2	23.7	19.2	22.4				
CHECKS:																
14 PARBHAT	29.8	31.7	30.7	34.8	24.3	21.8	26.9	18.4	30.2	24.0	19.4	23.0				
15 SEEDTEC - 2324	39.0	34.2	36.6	34.8	27.5	20.9	27.7	19.0	33.3	25.3	20.6	24.6				
16 PRO - 311	29.5	30.4	30.0	35.9	26.4	22.4	28.2	19.3	31.0	22.4	20.7	23.3				
17 BIO - 9681	29.5	30.0	29.8	33.4	24.5	23.0	26.9	19.4	28.6	24.4	19.2	22.9				
MEAN LOCATION	28.9	33.9	31.4	35.0	25.5	20.7	27.1	18.7	30.8	23.3	19.6	23.1				
C.D. AT 5% =	4.6	2.6	3.6	0.5	1.5	0.5	0.8	1.6	2.8	2.6	1.7	2.2				
C.V. % =	11.4	5.4	-	0.9	4.1	1.8	-	6.2	5.6	7.9	5.3	-				
F (Prob)	.000	.000	-	.000	.000	.000	-	.000	.000	.000	.562	-				

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			ZIN 3 MEAN				
		UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	BAJA	ZN 1		KANP	VARA	KUSH	JASH
1	J H - 10733	15.1	15.1	15.1	23.1	2.8	2.8	1.8	2.5	1.0	2.5	1.9
2	A H - 31413	15.4	17.6	16.5	21.8	3.3	3.3	1.5	2.9	3.3	2.5	2.5
3	H K H - 1215	15.5	23.6	19.6	23.7	2.3	3.0	3.0	2.9	2.0	2.5	2.6
4	M H 04 - 1	15.1	18.8	17.0	23.7	3.0	3.0	1.8	2.9	2.0	2.4	2.3
5	MS POOL C7	15.5	20.0	17.8	23.6	2.8	2.7	1.8	2.9	2.0	2.3	2.2
6	S M H - 3303 (Y)	15.3	19.4	17.4	24.3	2.7	3.2	1.8	2.6	1.8	2.2	2.1
7	M C H - 23	15.5	21.1	18.3	25.3	2.3	2.8	1.5	2.5	1.0	2.2	1.8
8	C - 302	15.4	18.0	16.7	22.5	3.0	2.7	1.8	2.6	1.8	2.3	2.1
9	B I O - 31006	15.6	19.4	17.5	24.0	2.8	2.8	1.5	2.8	1.8	2.3	2.1
10	N E C H - 128	15.4	19.4	17.4	24.6	2.8	2.5	1.8	2.5	1.0	2.4	1.9
11	P H S - 25 (Y)	15.4	20.8	18.0	24.8	2.7	3.0	1.8	2.6	1.0	2.5	2.0
12	P M Z - 140	15.3	20.4	17.8	24.9	2.3	2.7	1.8	3.1	2.0	2.3	2.3
13	M H 04 - 3	15.5	19.6	17.6	24.2	2.7	3.0	2.3	3.1	3.0	2.3	2.7
CHECKS:												
14	PARBHAT	11.6	17.8	14.7	23.6	2.8	2.7	2.5	3.0	3.0	2.5	2.8
15	SEEDTEC - 2324	15.3	20.0	17.7	25.8	2.5	2.8	1.8	2.5	1.5	2.2	2.0
16	PRO - 311	14.6	19.4	17.0	24.0	2.7	3.0	2.5	3.1	1.0	2.4	2.3
17	BIO - 9681	15.5	16.9	16.2	23.7	2.8	3.2	2.5	2.9	2.0	2.1	2.4
MEAN LOCATION												
C.D. AT 5%		0.2	1.0	0.6	-	0.4	0.7	0.3	0.4	0.4	0.3	0.4
C.V. %		1.1	3.7	-	-	9.0	14.8	11.3	9.2	16.7	9.3	-
F (Prob)		.000	.000	-	-	.002	.774	.000	.001	.000	.021	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *										OV'L MEAN
		KARI	ARBH	MONS	BANG	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	
1	J H - 10733	2.3	2.5	2.5	2.5	2.7	3.8	2.7	2.6	1.3	1.9	2.4
2	A H - 31413	2.0	2.5	3.0	3.0	2.3	3.0	2.6	2.6	2.0	2.3	2.6
3	H K H - 1215	2.3	3.0	4.0	4.0	2.3	3.0	2.9	2.9	1.8	2.3	2.7
4	M H 04 - 1	2.8	2.5	1.8	1.8	2.7	3.0	2.5	2.5	1.3	1.9	2.4
5	MS POOL C7	2.8	2.3	3.0	3.0	2.7	3.0	2.7	2.4	1.3	1.8	2.4
6	S M H - 3303 (Y)	2.3	2.0	2.5	2.5	2.3	3.0	2.4	2.5	1.5	2.0	2.3
7	M C H - 23	2.0	2.3	1.8	1.8	2.3	3.0	2.3	2.8	1.3	2.0	2.1
8	C - 302	2.0	2.3	2.0	2.0	2.3	3.0	2.3	2.5	1.3	1.9	2.3
9	B I O - 31006	2.0	2.3	2.0	2.0	2.7	3.0	2.4	2.4	1.8	2.1	2.3
10	N E C H - 128	2.0	2.5	2.0	2.0	2.0	3.0	2.3	2.5	1.5	2.0	2.2
11	P H S - 25 (Y)	2.5	2.3	2.8	2.8	2.3	3.0	2.6	2.5	1.5	2.0	2.3
12	P M Z - 140	2.0	2.0	2.8	2.8	2.3	3.0	2.4	2.8	1.5	2.1	2.3
13	M H 04 - 3	3.0	2.3	1.5	1.5	3.0	4.0	2.8	2.6	1.3	1.9	2.6
CHECKS:												
14	PARBHAT	2.5	2.5	2.5	2.5	3.0	4.0	2.9	2.5	1.0	1.8	2.7
15	SEEDTEC - 2324	2.0	2.0	1.5	1.5	2.0	3.0	2.1	2.5	2.0	2.3	2.2
16	PRO - 311	2.0	2.0	2.8	2.8	2.3	3.0	2.4	2.6	1.8	2.2	2.4
17	BIO - 9681	2.5	2.0	1.8	1.8	2.3	3.0	2.3	2.5	1.3	1.9	2.4
MEAN LOCATION												
C.D. AT 5% =		0.8	0.2	0.9	0.9	0.8	0.1	0.6	0.2	0.3	0.2	-
C.V. % =		24.0	5.4	30.8	30.8	20.1	3.1	-	5.0	13.2	-	-
F (Prob)		.002	.000	.000	.000	.279	.000	-	.000	.000	-	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *										MAND	
		ZN 1	ZN 2	BAJA	KANP	VARA	KUSH	JASH	AMBI	ZN 3	KARI		ARBH
1	J H - 10733	2.8	2.8	1.8	2.1	2.0	2.6	2.1	1.8	2.8	3.0	3.3	
2	A H - 31413	3.0	3.0	2.3	2.4	3.8	2.7	2.8	1.0	2.8	3.3	2.0	
3	H K H - 1215	2.8	2.8	3.3	2.4	2.3	2.5	2.6	2.3	3.5	4.5	2.7	
4	M H 04 - 1	2.7	3.0	1.5	2.4	2.3	2.5	2.1	1.5	2.8	2.8	3.0	
5	MS POOL C7	2.7	3.0	2.3	2.4	1.8	2.3	2.2	1.8	2.3	3.0	2.7	
6	S M H - 3303 (Y)	2.5	3.0	2.3	2.1	2.0	2.3	2.2	1.8	2.8	2.0	2.7	
7	M C H - 23	2.7	3.2	2.3	2.0	1.0	2.3	1.9	1.5	2.3	1.3	2.3	
8	C - 302	2.8	2.8	1.8	2.1	2.0	2.3	2.0	2.0	2.5	1.5	3.0	
9	B I O - 31006	2.8	2.8	2.0	2.3	1.0	2.3	1.9	1.0	2.3	1.0	2.7	
10	N E C H - 128	2.7	3.0	2.0	2.0	1.0	2.4	1.9	1.3	2.0	2.0	2.3	
11	P H S - 25 (Y)	2.7	3.2	1.8	2.3	1.5	2.6	2.0	1.5	2.8	1.5	2.7	
12	P M Z - 140	2.3	2.8	2.8	2.6	2.0	2.2	2.4	1.3	2.0	2.5	2.7	
13	M H 04 - 3	2.5	3.0	2.8	2.8	2.5	2.3	2.6	2.3	3.0	2.5	3.3	
CHECKS:													
14	PARBHAT	2.8	3.3	2.8	2.5	2.5	2.7	2.6	2.3	2.5	2.8	2.0	
15	SEEDTEC - 2324	2.8	2.7	2.3	2.0	1.5	2.1	2.0	1.5	2.5	1.3	2.7	
16	PRO - 311	2.5	3.2	2.0	2.6	2.0	2.5	2.3	1.8	3.0	1.0	2.7	
17	BIO - 9681	2.8	3.2	1.8	2.4	2.0	2.3	2.1	2.5	2.8	2.0	3.0	
MEAN LOCATION													
C.D. AT 5%		0.5	0.7	0.3	0.4	0.5	0.4	0.4	0.8	0.2	0.7	0.8	
C.V. %		11.7	13.5	7.3	11.5	19.6	11.5	-	31.4	5.7	23.5	19.1	
F (Prob)		.817	.530	.000	.002	.000	.035	-	.000	.000	.000	.118	

TABLE NO. 1 (CONT.)

S1 NO	PEDIGREE	EAR ASPECT *			HUSK COVER *			ZN 3						
		COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	BAJA	ZN 1	KANP	ZN 2	VARA	JASH	AMBI
1	J H - 10733	2.8	2.7	2.5	1.8	2.1	2.5	2.0	2.3	1.8	1.3	2.6	1.9	
2	A H - 31413	3.0	2.4	2.4	1.8	2.1	2.6	2.5	2.7	1.8	3.0	2.5	2.4	
3	H K H - 1215	3.0	3.2	3.0	1.5	2.3	2.8	2.2	2.8	2.0	2.0	2.5	2.2	
4	M H 04 - 1	3.0	2.6	2.1	1.3	1.7	2.4	2.3	3.0	1.8	2.0	2.5	2.1	
5	MS POOL C7	3.0	2.5	2.2	1.3	1.7	2.3	2.3	3.0	2.0	1.8	2.4	2.0	
6	S M H - 3303 (Y)	3.0	2.4	2.5	1.3	1.9	2.3	2.3	2.5	1.8	1.8	2.3	1.9	
7	M C H - 23	2.0	1.9	2.8	1.0	1.9	2.0	2.0	2.8	1.8	1.3	2.2	1.7	
8	C - 302	3.0	2.4	2.3	1.5	1.9	2.3	2.2	2.7	1.8	1.5	2.2	1.8	
9	B I O - 31006	3.0	2.0	2.1	1.3	1.7	2.0	2.2	2.5	1.8	1.5	2.5	1.9	
10	N E C H - 128	2.0	1.9	1.9	1.0	1.5	2.0	2.2	2.3	2.3	1.0	2.4	1.9	
11	P H S - 25 (Y)	2.0	2.1	2.5	1.5	2.0	2.2	2.2	3.3	2.0	1.5	2.5	2.0	
12	P M Z - 140	2.0	2.1	3.2	1.0	2.1	2.3	2.0	2.7	2.5	1.5	2.2	2.1	
13	M H 04 - 3	3.0	2.8	2.3	1.5	1.9	2.6	2.0	2.5	2.8	2.0	2.7	2.5	
CHECKS:														
14	PARBHAT	3.0	2.5	2.3	1.5	1.9	2.5	2.2	2.8	2.3	2.0	2.3	2.2	2.2
15	SEEDTEC - 2324	3.0	2.2	2.1	1.0	1.5	2.1	2.2	2.5	1.5	1.0	2.2	1.6	
16	PRO - 311	3.0	2.3	2.2	1.8	2.0	2.3	2.2	2.7	2.0	1.3	2.6	1.9	
17	BIO - 9681	3.0	2.7	2.3	1.5	1.9	2.4	2.2	2.8	2.0	1.8	2.0	1.9	
MEAN LOCATION														
C.D. AT 5% =		0.1	0.5	0.3	0.3	0.3	-	0.4	0.6	0.3	0.6	0.3	0.4	-
C.V. % =		3.7	-	10.5	13.3	-	-	9.9	14.4	9.3	25.7	10.3	-	-
F (Prob)		.000	-	.000	.000	-	-	.147	.291	.000	.000	.000	-	-

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	HUSK COVER *				MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	UNIFORMITY*	
		KARI	ARBH	BANG MONS	UDAI								ZN 1	ZN 2
1	J H - 10733	1.8	2.5	2.8	2.3	2.8	2.4	2.5	1.5	2.0	2.2	2.8	2.7	
2	A H - 31413	1.5	2.5	2.3	2.0	3.0	2.3	2.6	2.0	2.3	2.4	2.8	2.7	
3	H K H - 1215	1.8	3.0	2.0	2.0	3.0	2.3	3.0	1.5	2.3	2.3	2.0	3.0	
4	M H 04 - 1	1.8	2.8	2.5	2.0	3.0	2.4	2.5	1.5	2.0	2.3	3.0	2.7	
5	MS POOL C7	1.8	2.5	2.0	2.7	3.0	2.4	2.5	1.8	2.1	2.3	2.8	3.0	
6	S M H - 3303 (Y)	1.8	2.5	2.3	2.7	3.0	2.4	2.5	1.8	2.1	2.3	2.8	3.2	
7	M C H - 23	1.8	2.8	2.5	2.3	2.0	2.3	2.8	1.5	2.1	2.1	2.5	3.0	
8	C - 302	2.0	2.3	2.8	2.0	3.0	2.4	2.4	1.3	1.8	2.2	2.8	2.7	
9	B I O - 31006	1.5	2.0	2.3	2.3	3.0	2.2	2.7	1.3	2.0	2.1	2.8	2.8	
10	N E C H - 128	1.0	2.0	2.5	2.3	2.0	2.0	2.5	1.0	1.8	2.0	2.5	2.7	
11	P H S - 25 (Y)	1.8	2.3	2.0	2.3	3.0	2.3	2.6	1.5	2.0	2.2	2.7	3.2	
12	P M Z - 140	1.3	2.0	2.0	2.3	2.0	1.9	2.7	1.0	1.8	2.0	2.0	2.7	
13	M H 04 - 3	2.0	2.3	2.8	2.0	3.0	2.4	2.5	1.5	2.0	2.3	2.3	2.8	
CHECKS:														
14	PARBHAT	1.8	2.5	2.0	2.0	3.0	2.3	2.6	1.8	2.2	2.3	2.8	3.0	
15	SEEDTEC - 2324	1.3	2.0	2.0	2.0	3.0	2.0	2.5	1.5	2.0	2.0	2.3	2.3	
16	PRO - 311	1.5	2.0	2.3	2.3	3.0	2.2	2.5	1.8	2.1	2.2	2.3	3.2	
17	BIO - 9681	1.8	2.0	2.3	2.3	3.0	2.3	2.7	1.5	2.1	2.2	2.7	3.0	
MEAN LOCATION														
C.D. AT 5%		0.6	0.1	0.5	0.6	0.1	0.4	0.2	0.3	0.3	-	0.5	0.6	
C.V. %		25.8	4.5	16.7	17.3	3.7	-	6.8	15.5	-	-	11.2	12.5	
F (Prob)		.123	.000	.001	.537	.000	-	.003	.000	-	-	.000	.324	

TABLE NO. 1 (CONT.)

S1 NO	PEDIGREE	UNIFORMITY *										OV'L MEAN			
		VARA	JASH	AMBI	ZN 3 MEAN	KARI	ARBH	MONS	BANG	MAND	COIM		ZN 4 MEAN	UDAI	CHHI
1	J H - 10733	1.8	2.0	2.6	2.1	2.0	2.3	4.0	2.3	2.8	2.7	2.5	1.5	2.0	2.4
2	A H - 31413	1.8	3.3	2.3	2.4	1.8	2.0	4.0	2.0	3.0	2.5	2.6	1.8	2.2	2.5
3	H K H - 1215	1.8	2.5	2.6	2.3	1.0	2.5	4.8	2.7	4.0	3.0	2.8	1.0	1.9	2.5
4	M H 04 - 1	2.0	3.0	2.3	2.5	3.0	3.0	3.0	3.0	3.0	3.0	2.5	1.3	1.9	2.6
5	MS POOL C7	2.3	2.3	2.3	2.3	2.8	2.8	3.5	3.0	4.0	3.2	2.5	1.3	1.9	2.7
6	S M H - 3303 (Y)	1.8	2.3	2.2	2.1	2.0	2.8	2.0	2.3	3.0	2.4	2.6	1.5	2.0	2.4
7	M C H - 23	1.3	1.3	2.3	1.6	2.0	2.0	1.0	2.0	3.0	2.0	2.7	1.0	1.9	2.0
8	C - 302	1.8	2.5	2.2	2.1	1.8	2.5	1.8	2.7	4.0	2.5	2.5	1.5	2.0	2.4
9	B I O - 31006	1.3	2.0	2.5	1.9	2.5	2.3	1.3	2.3	3.0	2.3	2.4	1.3	1.8	2.2
10	N E C H - 128	1.8	1.0	2.3	1.7	1.5	2.0	1.0	2.3	4.0	2.2	2.5	1.0	1.8	2.0
11	P H S - 25 (Y)	1.8	1.8	2.7	2.0	3.0	2.8	2.0	2.3	3.0	2.6	2.6	1.0	1.8	2.4
12	P M Z - 140	1.3	2.0	2.3	1.9	1.0	2.0	2.0	2.0	3.0	2.0	2.6	1.0	1.8	2.0
13	M H 04 - 3	1.8	3.0	2.5	2.4	2.5	2.0	2.3	2.3	4.0	2.6	2.5	1.3	1.9	2.4
CHECKS:															
14	PARBHAT	2.3	2.8	2.3	2.4	2.5	3.0	3.0	3.0	4.0	3.1	2.5	1.5	2.0	2.7
15	SEEDTEC - 2324	1.8	1.8	2.1	1.9	1.0	2.0	1.0	2.0	2.0	1.6	2.5	1.0	1.8	1.8
16	PRO - 311	2.3	1.5	2.5	2.1	2.5	2.0	1.5	2.3	3.0	2.3	2.5	1.3	1.9	2.2
17	BIO - 9681	2.3	2.8	2.3	2.4	3.3	2.5	2.5	2.3	3.0	2.7	2.5	1.5	2.0	2.5
MEAN LOCATION															
C.D. AT 5% =		0.3	0.6	0.3	0.4	0.9	0.2	0.7	0.7	0.1	0.5	0.2	0.3	0.2	-
C.V. % =		10.2	21.3	10.3	-	29.1	7.6	22.7	18.4	3.1	-	4.8	17.3	-	-
F (Prob)		.000	.000	.003	-	.000	.000	.000	.047	.000	-	.036	.000	-	-

TABLE NO. 1 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)			BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV/L MEAN
		BAKA	KARE	PROA								
1	J H - 10733	76	84	96	145	103	76	97	118	104	111	103
2	A H - 30013	75	68	80	123	93	72	85	105	79	92	93
3	H K H - 1215	75	67	-	114	103	68	85	85	90	88	83
4	M H 04 - 1	89	78	109	156	102	98	105	128	111	119	111
5	MS POOL C7	93	82	97	144	104	79	100	119	101	110	102
6	S M H - 3303 (Y)	86	76	81	143	108	78	95	114	96	105	100
7	M C H - 23	80	76	75	130	107	79	91	116	111	114	100
8	C - 302	73	76	77	120	93	76	86	99	84	91	89
9	B I O - 31006	78	70	75	121	105	72	87	98	83	90	87
10	N E C H - 128	70	71	78	140	101	78	90	105	100	103	95
11	P H S - 25 (Y)	86	89	89	148	97	78	98	113	81	97	99
12	P M Z - 140	79	60	63	103	91	79	79	90	84	87	80
13	M H 04 - 3	78	68	87	141	98	75	91	95	99	97	93
CHECKS:												
14	PARBHAT	80	82	91	146	95	79	95	120	98	109	101
15	SEEDTEC - 2324	78	69	74	131	94	72	86	95	96	96	88
16	PRO - 311	81	79	84	140	101	81	94	105	93	99	98
17	BIO - 9681	83	76	78	130	104	78	91	104	91	98	91
MEAN LOCATION												
C.D. AT 5%		15.5	12.1	13.8	13.8	14.4	7.6	12.9	9.1	12.2	10.6	-
C.V. %		13.7	11.4	10.1	7.3	8.8	7.0	-	6.0	9.1	-	-
F (Prob)		.058	.002	.000	.000	.630	.000	-	.000	.000	-	-

TABLE NO. 1 (CONT.)

Sl NO	PEDIGREE	EAR NO. / PLANT											OV'L MEAN	
		KANG	LUDH	VARA	KUSH	AMBI	BAKA	KARI	BANG MONS	MAND	COIM	UDAI		CHHI
1	J H - 10733	1.00	0.99	1.01	1.04	1.03	1.00	0.92	0.97	0.98	0.94	0.91	0.96	0.98
2	A H - 31413	1.04*	1.00	0.97	1.00	0.99	1.00	0.97	1.00	0.92	0.88	0.90	0.97	0.97
3	H K H - 1215	1.03	0.97	0.87	0.94	0.99	1.00	0.95	1.01	0.95	0.98	0.93	0.95	0.96
4	M H 04 - 1	1.00	1.11	1.11	1.06	1.05	1.06	0.96	0.99	0.96	0.95	0.91	0.98	1.01
5	MS POOL C7	0.99	0.98	1.01	1.07	1.02	1.00	0.93	0.82	1.00	0.95	0.77	0.91	0.95
6	S M H - 3303 (Y)	0.98	0.98	0.96	0.97	1.02	1.00	1.00	0.99	1.03	0.94	0.89	0.90	0.97
7	M C H - 23	0.99	1.11	0.90	0.98	1.06	1.00	0.97	0.97	1.04	0.99	0.85	0.95	0.98
8	C - 302	0.98	0.97	0.95	1.14	1.01	1.00	0.90	0.97	0.97	0.92	0.88	0.96	0.97
9	B I O - 31006	1.00	1.02	1.02	0.97	1.04	1.00	0.97	0.93	1.03	0.96	0.84	0.94	0.98
10	N E C H - 128	0.93	1.06	0.98	1.09	1.01	1.04	0.92	0.98	0.97	0.94	0.87	0.99	0.98
11	P H S - 25 (Y)	1.00	1.07	0.92	0.97	1.04	1.03	0.99	0.97	1.00	0.97	0.87	0.93	0.98
12	P M Z - 140	1.00	1.03	0.86	1.01	1.06	1.00	1.00	0.98	1.03	0.95	0.94	0.98	0.99
13	M H 04 - 3	0.98	1.00	0.94	1.02	1.10	1.04	0.94	1.01	0.95	0.97	0.87	0.93	0.98
CHECKS:														
14	PARBHAT	0.95	1.01	0.88	0.98	1.11	1.00	1.01	0.87	1.00	0.97	0.76	0.96	0.96
15	SEEDTEC - 2324	1.00	1.08	0.98	0.95	1.05	1.00	0.93	1.03	0.99	1.01	0.70	0.98	0.97
16	PRO - 311	1.00	1.00	0.92	0.87	1.01	1.00	1.07	0.96	0.98	0.94	0.91	0.92	0.96
17	BIO - 9681	1.00	1.00	1.03	1.11	1.03	1.00	1.00	1.00	1.02	1.05	0.91	1.01	1.01
MEAN LOCATION														
C.D. AT 5%														
C.V. %														
F (Prob)														

TABLE NO. 1 (CONT.)

SL NO	PEDIGREE	PLANT HEIGHT (cm)				BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
		KA NC	KARI	PROA	BANG								
1	J H - 16733	209	176	224	266	212	148	206	251	186	219	207	
2	A H - 31413	209	165	215	248	195	141	195	235	175	205	199	
3	H K H - 1215	199	152	-	164	203	130	169	195	164	179	170	
4	M H 04 - 1	229	171	252	275	206	172	217	258	193	225	221	
5	MS POOL C7	224	181	238	266	213	164	214	255	195	225	212	
6	S M H - 3303 (Y)	224	191	249	278	217	165	220	255	203	229	216	
7	M C H - 23	215	155	215	268	220	162	206	245	208	226	214	
8	C - 302	220	182	236	266	201	159	211	258	188	223	212	
9	B I O - 31006	214	169	216	263	210	151	204	243	185	214	201	
10	N E C H - 128	210	152	231	274	212	156	206	234	190	212	204	
11	P H S - 25 (Y)	233	196	261	278	220	174	227	281	198	239	228	
12	P M Z - 140	211	139	210	258	192	145	192	230	181	206	189	
13	M H 04 - 3	203	167	242	268	204	148	205	233	183	208	202	
CHECKS:													
14	PARBHAT	218	187	247	274	204	156	214	278	193	235	218	
15	SEEDTEC - 2324	203	158	201	263	187	137	191	223	176	199	189	
16	PRO - 311	210	170	220	265	210	162	206	245	183	214	204	
17	BIO - 9681	223	173	236	270	210	166	213	263	196	229	213	
MEAN LOCATION													
C.D. AT 5%		19.0	10.7	17.8	9.4	34.0	9.0	16.6	14.4	14.3	14.4	-	
C.V. %		6.2	4.5	4.7	2.6	10.2	4.1	-	4.1	5.4	-	-	
F (Prob)		.001	.000	.000	.000	.673	.000	-	.000	.000	-	-	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	H. turcicum *				H. may. *				BLSB *			
		ZN 1 BAJA	BANG PROA	BANG MONS	ZN 4 MEAN	OV'L MEAN	JASH	KANG	ZN 1 KANG	ZN 3 JASH	OV'L MEAN		
J H - 10733		2.0	4.0	3.0	3.5	3.0	1.9	1.3	3.0	2.2			
1 A H - 31413		1.7	4.0	3.5	3.8	3.1	3.1	2.7	3.8	3.3			
2 H K H - 1215		1.5	-	3.8	3.8	2.6	2.4	1.3	3.3	2.3			
3 M H 04 - 1		1.8	3.0	3.0	3.0	2.6	3.0	2.0	3.5	2.8			
4 MS POOL C7		1.8	3.7	3.8	3.7	3.1	2.9	1.7	2.8	2.3			
5 S M H - 3303 (Y)		1.3	2.0	3.0	2.5	2.1	1.5	1.3	2.5	1.9			
6 M C H - 23		1.5	2.0	2.8	2.4	2.1	2.0	1.0	2.5	1.8			
7 C - 302		1.7	2.3	3.5	2.9	2.5	2.6	1.7	3.0	2.3			
8 B I O - 31006		1.7	2.0	2.8	2.4	2.1	3.0	1.7	3.0	2.3			
9 N E C H - 128		1.8	3.7	3.8	3.7	3.1	2.5	1.7	3.0	2.3			
10 P H S - 25 (Y)		1.3	2.3	3.0	2.7	2.2	2.0	1.0	2.5	1.8			
11 P M Z - 140		1.5	2.7	2.8	2.7	2.3	2.6	2.7	3.3	3.0			
12 M H 04 - 3		2.0	3.0	2.3	2.6	2.4	3.0	2.3	2.8	2.6			
13 CHECKS:													
PARBHAT		1.7	3.3	3.0	3.2	2.7	2.9	1.0	3.2	2.1			
14 SEEDTEC - 2324		1.3	2.7	2.8	2.7	2.3	2.4	1.0	3.3	2.2			
15 PRO - 311		1.5	3.0	2.8	2.9	2.4	2.0	1.7	2.7	2.2			
16 B I O - 9681		1.5	3.0	3.3	3.1	2.6	2.8	1.3	3.3	2.3			
17 MEAN LOCATION		1.6	2.8	3.1	2.9	2.5	2.5	1.7	3.0	2.3			
C.D. AT 5% =		0.6	0.6	0.6	0.6	-	0.5	1.2	0.5	-			
C.V. %		22.1	12.8	14.9	-	-	14.5	45.3	12.7	-			
F (Prob)		.270	.000	.000	-	-	.000	.276	.000	-			

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	STAND AT HARVEST										
		BAJA	KANG	LU DH	KARN	PANT	KANP	VARA	KUSH	JASH	AMBI	
1	J H - 10733	24	25	33	19	28	37	33	31	31	31	
2	A H - 31413	24	21	35	27	34	35	34	31	31	29	
3	H K H - 1215	21	19	27	25	24	35	33	27	30	34	
4	M H 04 - 1	26	16	36	29	30	36	30	29	31	35	
5	MS POOL C7	27	22	36	24	37	36	32	32	32	35	
6	S M H - 3303 (Y)	28	23	38	25	36	35	36	36	32	36	
7	M C H - 23	27	22	39	27	38	37	39	34	30	35	
8	C - 302	30	25	36	29	36	37	35	32	31	36	
9	B I O - 31006	30	23	40	27	34	36	39	31	31	35	
10	N E C H - 128	20	22	32	28	21	37	29	30	31	33	
11	P H S - 25 (Y)	31	23	39	27	41	36	38	37	32	35	
12	P M Z - 140	32	20	38	30	41	36	35	36	32	36	
13	M H 04 - 3	30	20	38	24	33	36	33	25	32	33	
CHECKS:												
14	PARBHAT	24	21	34	29	31	37	38	28	30	33	
15	SEEDTEC - 2324	19	20	40	27	41	36	35	32	30	36	
16	PRO - 311	32	23	41	26	42	38	34	22	32	35	
17	BIO - 9681	27	23	36	27	38	36	31	31	32	34	
MEAN LOCATION												
	C.D. AT 5%	6.0	3.8	3.6	3.3	10.4	2.4	4.5	6.9	3.0	3.3	
	C.V. %	13.7	10.6	7.0	7.5	21.6	4.1	7.9	16.0	6.8	6.8	
	F (Prob)	.001	.000	.000	.000	.001	.362	.001	.009	.937	.006	

TABLE NO. 1 (CONT.)

SI NO	PEDIGREE	STAND AT HARVEST								OV'L MEAN	
		KANC	BAKA	KARI	ARBH	PROA	BANG MONS	MAND	COIM		UDAI
1	J H - 10733	31	35	36	30	33	34	21	31	34	30
2	A H - 31413	29	33	40	33	35	32	26	34	36	32
3	H K E - 1215	19	36	28	-	40	38	23	26	28	28
4	M H 04 - 1	30	36	37	32	41	30	28	30	34	31
5	MS POOL C7	34	37	38	33	40	34	26	36	41	33
6	S M H - 3303 (Y)	34	39	41	33	41	40	30	34	42	35
7	M C H - 23	33	39	45	34	41	35	29	38	34	35
8	C - 302	30	39	44	33	40	39	27	37	36	34
9	B I O - 31006	32	39	32	34	41	34	28	40	39	34
10	N E C H - 128	26	36	32	25	40	28	27	28	38	30
11	P H S - 25 (Y)	35	40	42	33	39	40	29	37	38	35
12	P M Z - 140	36	41	45	33	40	37	25	36	34	35
13	M H 04 - 3	29	40	39	32	39	33	23	29	38	32
CHECKS:											
14	PARBHAT	32	38	40	32	41	34	27	33	35	32
15	SEEDTEC - 2324	34	41	41	33	41	39	24	37	36	34
16	PRO - 311	34	38	40	33	42	37	31	27	38	34
17	BIO - 9681	33	37	39	32	40	34	28	34	36	33
MEAN LOCATION											
C.D. AT 5% =		4.3	4.3	8.7	3.1	3.7	6.4	3.3	6.6	5.7	-
C.V. % =		10.0	7.9	15.8	5.8	6.6	10.9	8.8	14.1	11.0	-
F (Prob)		.000	.005	.028	.001	.006	.008	.000	.003	.004	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) .
(DELETED 8 ENTRIES .)

TABLE NO. 2

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT
 BAJAURA, LUDHIANA, KARNAL, KANPUR, VARANASI, JASHIPUR, AMBICAPUR, JK AGRICULTURE HYDERABAD,
 BAKARAM, KANCHAN GANGA, KARIMNAGAR, ARBHAVI, PROAGRO BANGALORE, MONSANTO BANGALORE,
 ZUARI SEED'S MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET TRIAL NO. TR61B
 DURING KHARIF (2004).

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 2	
		BATA	R	LUDH	R	KARN	R	KANP	R	MEAN	R		
1	W K H - 1179	4473	21	4350	25	5992	11	5320	18	5221	18	5221	25
2	H H - 10858	4311	23	9762	15	6193	9	5297	15	7155	15	7155	5
3	H H - 04 - 2	4378	22	8676	15	6693	4	5297	19	6889	13	6889	13
4	H H - 31410	4509	20	5778	24	5122	23	5187	21	5362	24	5362	24
5	UX POOL C7	4578	17	8828	14	5280	22	5665	11	6594	18	6594	18
6	J K M H - 51	6046	27	9598	8	5500	20	5910	2	7004	11	7004	11
7	G K - 3050	4298	17	6932	22	5500	18	4932	25	5627	23	5627	23
8	PARAS JANAK	4662	17	9295	10	5311	21	5610	12	6739	15	6739	15
9	C - 555	5133	10	10185	1	3921	12	5177	22	7094	6	7094	6
10	B I O - 31030	5161	19	9464	9	6499	6	5811	5	7258	3	7258	3
11	X E C H - 2406	4684	16	9163	11	6231	8	5754	6	7049	8	7049	8
12	A E C H - 129	5413	4	9789	15	6831	3	5599	13	7406	2	7406	2
13	KAVERI - 244	5256	7	8628	16	5807	13	5688	9	6708	16	6708	16
14	M C H - 24	5173	8	9874	4	5625	17	5720	8	7073	7	7073	7
CHECKS:													
15	BIO - 9681	5005	12	7774	21	6165	10	5732	7	6557	20	6557	20
16	PARBHAT	4026	25	7816	20	4765	25	5020	24	5867	22	5867	22
17	SEEDTEC - 2324	5758	2	8889	13	6367	7	5588	14	6948	12	6948	12
18	PRO - 311	5336	6	9685	7	5533	19	5833	4	7017	9	7017	9
	MEAN YIELD=	4937		8608		5943		5579		6710		6710	
	MEAN STAND	28		37		25		33		32		32	
	C.D. AT 5% =	777		1516		400		1046		987		987	
	C.V. % =	9.59		12.50		4.10		11.42		-		-	
	F (Prob)	.000		.000		.000		.140		-		-	
	PLOT SIZE=	4.80		5.20		4.50		6.00		-		-	
AGRONOMY DATA:													
	SOWING DATE (2004)	26-06		27-06		20-06		24-06		-		-	
	HARVEST DATE (2004)	25-10		4-10		24-09		4-10		-		-	
	IRRIGATION NOS	2		7		4		-		-		-	
	FERTILIZER APPLIED	N 120		150		150		80		-		-	
		P 60		60		60		40		-		-	
		K 40		30		40		40		-		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : PANT 24.6% ;
 DHOL 54.3% ; KUSH 21.1% ; HYDE 36.0%

TABLE NO. 2 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						ZN 3	
		VARA	R	JASH	R	AMBI	R	MEAN	R
1	H K H - 1179	4456	24	4346	24	5531	24	4778	24
2	J H H - 10858	5813	12	6119	8	6037	19	5990	14
3	M H 04 - 2	5780	13	6096	9	5796	21	5891	16
4	A H H - 31410	4454	25	4645	22	5149	25	4749	25
5	TUX POOL C7	5773	14	5506	17	5727	23	5669	20
6	J K M H - 51	6640	15	5486	18	6663	13	6263	10
7	G K - 3050	5991	9	4620	23	5741	22	5451	22
8	PARAS JANAK	5267	18	5440	19	6535	15	5748	19
9	C - 555	6749	4	5970	10	6576	14	6432	7
10	B I O - 31030	5329	16	5780	13	7112	6	6074	12
11	X - 2406	5868	11	6664	2	7553	4	6695	12
12	N E C H - 129	7794	1	7391	1	7829	1	7671	1
13	KAVERI - 244	6829	3	5548	16	7335	15	6570	3
14	M C H - 24	4821	23	6185	6	6706	11	5904	15
CHECKS:									
15	BIO - 9681	5951	10	5906	11	6986	7	6281	8
16	PARBHAT	5228	19	5279	20	5868	20	5459	21
17	SEEDTEC - 2324	6425	6	5273	21	7827	2	6509	5
18	PRO - 311	6025	8	6131	7	6680	12	6279	9
	MEAN YIELD =	5770		5721		6592		6028	
	MEAN STAND	34		31		35		34	
	C.D. AT 5% =	531		446		1087		688	
	C.V. % =	5.61		5.53		11.70		-	
	F (Prob)	.000		.000		.000		-	
	PLOT SIZE =	7.50		6.00		7.50		-	
AGRONOMY DATA:									
	SOWING DATE (2004)	7-07		3-07		5-07		-	
	HARVEST DATE (2004)	12-10		21-10		-		-	
	IRRIGATION NOS	2		-		-		-	
	FERTILIZER APPLIED N	120		120		100		-	
	P	60		60		60		-	
	K	40		60		40		-	

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681												
		COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV/L MEAN	JASH	AMBI	ZN 3 MEAN			
1	H K H - 1179	9.17	-	-	17.33	3.95	-	-	-	-	8.94	0.72	-	-
2	J H H - 10858	-	-	-	-	-	-	-	-	-	-	-	-	-
3	M H H - 2	-	-	-	-	-	-	-	-	-	-	-	-	-
4	A H H - 31410	-	-	-	-	-	-	-	-	-	-	-	-	-
5	TUX POOL C7	2.21	-	-	9.44	34.91	-	-	-	-	25.41	11.00	-	-
6	J K M H - 51	17.43	5.13	12.12	2.45	-	-	-	-	-	-	-	-	-
7	G K - 3050	-	18.92	7.93	0.06	-	-	-	-	-	-	-	-	-
8	PARAS JANAK	16.51	6.09	6.51	-	34.18	-	-	-	-	21.46	5.29	-	-
9	C - 555	22.29	15.61	7.93	-	23.79	-	-	-	-	0.77	5.44	-	-
10	B I O - 31030	19.05	4.21	6.51	-	19.20	-	-	-	-	9.96	2.15	-	-
11	X N E C H - 129	18.50	10.17	10.13	34.16	12.68	-	-	-	-	20.69	9.51	-	-
12	N E C H - 129	61.48	19.24	28.12	31.66	38.58	-	-	-	-	36.00	24.72	-	-
13	KAVERI - 244	26.99	4.01	9.41	-	38.29	-	-	-	-	13.86	7.79	-	-
14	M C H - 24	1.72	16.78	4.81	-	27.08	-	-	-	-	10.93	4.17	-	-
15	BIO - 9681	-	-	-	-	-	-	-	-	-	-	-	-	-
16	PARBHAT	-	-	-	-	-	-	-	-	-	-	-	-	-
17	SEEDTEC - 2324	20.95	-	17.22	31.75	29.19	-	-	-	-	30.15	14.49	-	-
18	PRO - 311	6.10	2.21	6.32	0.22	5.87	-	-	-	-	3.76	5.22	-	-

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT									
		BAJA	LUDH	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN	
1	H K H - 1179	11.10	25.74	5.97	5.97	21.95	11.19	15.90	2.87	9.73	
2	J H H - 10858	7.09	29.96	9.76	9.76	17.41	10.55	15.47	-	7.91	
3	M H H - 2	8.73	40.44	5.52	5.52	-	-	-	-	-	
4	A H H - 31410	11.99	7.49	3.31	3.31	-	-	-	-	-	
5	TUX POOL C7	13.72	10.99	12.85	12.85	12.39	10.41	4.30	-	3.85	
6	J K M H - 51	50.16	15.53	17.73	17.73	19.38	27.00	3.93	-	14.74	
7	G K - 3050	6.75	5.30	-	-	-	14.59	-	-	-	
8	PARAS JANAK	15.80	11.45	11.76	11.76	14.85	0.75	3.05	-	5.29	
9	C - 555	27.50	24.26	3.13	3.13	20.92	29.08	13.09	-	17.83	
10	B I O - 31030	28.20	36.39	15.75	15.75	23.71	1.93	19.49	-	11.27	
11	X N E C H - 129	16.35	30.76	14.62	14.62	20.15	12.24	26.23	-	22.65	
12	N E C H - 129	34.45	43.35	11.53	11.53	26.23	49.08	40.00	-	40.54	
13	KAVERI - 244	30.55	21.87	13.30	13.30	14.32	30.61	5.00	-	20.37	
14	M C H - 24	28.49	18.05	13.94	13.94	20.55	-	17.16	-	8.16	
15	BIO - 9681	24.32	29.38	14.19	14.19	11.76	13.81	11.87	-	15.06	
16	PARBHAT	-	-	-	-	-	-	-	-	-	
17	SEEDTEC - 2324	43.01	33.60	11.30	11.30	18.42	22.90	-	-	19.24	
18	PRO - 311	32.53	16.10	16.18	16.18	19.59	15.24	16.13	-	13.83	

TABLE NO. 2 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC - 2324										OV'L MEAN	
		MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	ZN 3 MEAN				
1	H K H - 1179	-	-	-	-	-	-	-	-	-	-	-	-
2	J H - 10858	-	-	0.19	-	-	-	-	-	-	-	-	-
3	M H 04 - 2	15.02	-	-	-	-	-	-	-	-	-	-	-
4	A H - 31410	-	-	-	-	-	-	-	-	-	-	-	-
5	TUX POOL C7	5.26	-	-	-	-	-	-	-	4.42	-	-	-
6	J K M H - 51	1.37	-	9.30	-	-	-	-	-	-	-	-	-
7	G K - 3050	2.23	-	10.30	-	-	-	-	-	-	-	-	-
8	PARAS JANAK	2.67	-	23.64	-	-	-	-	-	3.86	-	-	-
9	C - 555	16.13	1.11	20.20	-	-	-	-	-	-	-	-	-
10	B I O - 31030	-	-	8.34	-	-	-	-	-	-	-	-	-
11	X E C H - 2406	11.33	-	14.55	-	1.83	-	-	-	-	-	-	-
12	N E C H - 129	49.06	33.51	13.57	9.30	-	-	-	-	7.27	4.50	8.94	-
13	KAVERI - 244	31.42	5.00	8.14	-	-	-	-	-	7.04	-	-	-
14	M C H - 24	11.60	-	21.42	-	-	-	-	-	-	-	-	-
CHECKS:													
15	BIO - 9681	-	-	3.97	-	-	-	-	-	-	-	-	-
16	PARBHAT	-	-	-	-	-	-	-	-	-	-	-	-
17	SEEDTEC - 2324	-	-	-	-	-	-	-	-	-	-	-	-
18	PRO - 311	3.74	-	6.27	-	-	-	-	-	-	-	-	-

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311										ZN 3 MEAN	
		BAJA	LUDH	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI				
1	H K H - 1179	-	-	-	-	-	-	-	-	-	-	-	-
2	J H - 10858	-	0.80	8.30	-	1.97	-	-	-	-	-	-	-
3	M H 04 - 2	-	-	11.93	-	-	-	-	-	-	-	-	-
4	A H - 31410	-	-	20.96	-	-	-	-	-	-	-	-	-
5	TUX POOL C7	-	-	-	-	-	-	-	-	-	-	-	-
6	J K M H - 51	-	-	-	1.33	-	-	-	-	-	-	-	-
7	G K - 3050	13.30	-	-	-	-	-	10.21	-	-	-	-	-
8	PARAS JANAK	-	-	-	-	-	-	-	-	-	-	-	-
9	C - 555	-	5.16	7.03	-	-	-	-	-	-	-	2.44	-
10	B I O - 31030	-	-	17.47	-	-	-	-	-	-	-	-	-
11	X E C H - 2406	-	-	12.63	-	-	-	-	-	-	-	-	-
12	N E C H - 129	1.45	1.08	23.47	-	3.44	-	-	-	8.70	6.46	6.63	-
13	KAVERI - 244	-	-	4.97	-	0.47	-	-	-	20.55	13.06	22.18	-
14	M C H - 24	-	1.96	1.68	-	5.56	-	-	-	-	17.20	4.65	-
CHECKS:													
15	BIO - 9681	-	-	11.44	-	0.81	-	-	-	-	0.89	0.38	-
16	PARBHAT	-	-	-	-	-	-	-	-	-	-	-	-
17	SEEDTEC - 2324	7.91	-	15.08	-	-	-	6.64	-	-	4.58	0.03	-
18	PRO - 311	-	-	-	-	-	-	-	-	-	17.17	3.66	-

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% POLLEN SHED										
		ZN 1		ZN 2		ZN 3		HYDE		KANC		
		BAJA	INDI	KARN	KANP	MEAN	VARA	JASH	AMBI	MEAN	JKAG	BAKA
1	H K H - 1179	67.3	54.5	55.7	56.3	55.5	52.7	53.3	54.5	53.5	57.3	53.8
2	J H - 10858	65.0	51.8	53.3	55.7	53.6	49.3	50.5	53.8	51.2	56.5	51.8
3	M H 04 - 2	65.7	51.0	52.7	54.0	52.6	48.7	52.5	53.0	51.4	54.0	52.8
4	A H - 31410	60.7	49.0	50.7	59.7	53.1	47.0	50.5	49.5	49.0	52.0	50.0
5	TUX POOL C7	66.0	50.0	52.0	61.0	54.3	50.0	51.0	53.3	51.4	53.8	52.3
6	J K M H - 51	65.3	51.8	53.7	59.0	54.8	51.0	49.5	52.8	51.1	53.5	51.5
7	G K - 3050	63.0	50.8	51.0	58.0	53.3	50.0	49.3	49.8	49.7	52.3	50.8
8	PARAS JANAK	70.0	55.3	56.3	57.3	56.3	52.0	51.3	53.5	52.3	54.5	51.3
9	C - 555	68.3	52.8	53.7	55.0	53.8	51.0	50.3	53.5	51.6	54.8	52.0
10	B I O - 31030	62.7	49.0	51.0	55.0	51.7	48.7	49.0	51.8	49.8	51.8	50.5
11	X - 2406	66.3	51.5	53.3	59.0	54.6	50.3	49.3	53.5	51.0	54.5	52.0
12	N E C H - 129	71.3	53.0	55.7	55.0	54.6	50.0	50.5	54.8	51.8	55.8	52.5
13	KAVERI - 244	69.0	54.3	55.7	61.0	57.0	49.7	51.3	53.5	51.5	55.8	51.0
14	M C H - 24	70.3	53.3	54.3	60.0	55.9	51.3	51.3	54.3	52.3	54.3	51.5
CHECKS:												
15	BIO - 9681	63.3	48.0	50.7	54.7	51.1	48.7	48.8	50.0	49.1	52.5	51.0
16	PARBHAT	67.0	53.3	52.3	59.0	54.9	49.3	51.8	52.5	51.2	55.5	51.5
17	SEEDTEC - 2324	67.0	51.5	54.3	60.7	55.5	51.7	49.5	53.8	51.6	54.0	51.5
18	PRO - 311	64.3	52.0	54.3	56.0	54.1	51.0	48.0	52.3	50.4	54.0	52.0
MEAN LOCATION												
	C.D. AT 5%	1.8	1.3	0.8	0.9	1.0	1.8	2.0	1.3	1.7	1.1	1.0
	C.V. %	1.6	1.7	0.9	1.0	-	2.1	2.8	1.7	-	1.5	1.4
	F (Prob)	.000	.000	.000	.000	-	.000	.000	.000	-	.000	.000

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED										ZIN 4 MEAN	UDAI	CHHI	ZIN 5 MEAN	OV'L MEAN
		KARI	ARBH	PROA	BANG	BANG	MONS	MAND	COIM	KOLH	ZIN 4 MEAN					
1	H K H - 1179	53.8	66.0	-	57.3	59.7	56.3	62.3	58.5	55.5	58.5	57.0	57.4			
2	J H - 10858	55.8	63.0	57.7	56.0	57.7	55.3	60.3	57.1	55.0	56.3	55.6	55.8			
3	M H 04 - 2	55.3	61.8	58.0	58.3	58.3	54.5	59.3	56.9	55.0	56.3	55.6	55.6			
4	A H - 31410	56.0	60.3	54.3	54.8	54.0	54.0	57.7	54.8	54.5	54.3	54.4	53.8			
5	TUX POOL C7	55.3	63.5	58.7	56.8	58.3	57.0	61.0	57.4	55.0	56.3	55.6	56.2			
6	J K M H - 51	56.5	62.0	57.7	57.3	58.7	56.8	59.7	57.1	56.0	57.5	56.8	56.1			
7	G K - 3050	55.5	61.5	55.3	54.8	57.7	54.0	59.0	55.6	54.8	56.3	55.5	54.6			
8	PARAS JANAK	54.8	61.8	57.7	57.0	58.3	56.0	62.0	57.0	57.5	58.0	57.8	56.9			
9	C - 555	55.5	62.5	57.3	57.3	58.0	57.0	59.7	57.1	55.3	58.8	57.0	56.3			
10	B I O - 31030	55.5	60.8	53.7	55.5	56.0	53.8	58.0	55.0	54.5	52.3	53.4	53.8			
11	X - 2406	55.5	62.5	58.0	57.0	58.0	56.0	59.7	57.0	56.0	57.0	56.5	56.1			
12	N E C H - 129	56.8	63.8	59.7	58.0	59.3	56.8	61.0	58.2	55.3	57.5	56.4	57.0			
13	KAVERI - 244	56.3	62.3	57.7	56.8	58.3	55.8	61.0	57.2	56.0	58.3	57.1	56.9			
14	M C H - 24	55.3	63.3	61.3	58.0	59.3	56.5	61.3	57.9	57.0	56.3	56.6	57.2			
CHECKS:																
15	BIO - 9681	56.0	60.0	56.7	54.0	58.3	54.3	59.0	55.8	54.0	54.3	54.1	54.1			
16	PARBHAT	56.3	63.0	57.0	58.3	59.3	56.3	60.0	57.5	54.8	56.8	55.8	56.3			
17	SEEDTEC - 2324	55.5	62.0	56.3	56.0	58.7	56.8	60.3	56.8	54.5	56.5	55.5	56.1			
18	PRO - 311	56.3	63.8	58.7	56.5	59.3	57.0	61.0	57.6	54.8	56.5	55.6	56.0			
MEAN LOCATION																
C.D. AT 5%		1.8	1.9	1.5	1.1	2.7	0.9	1.9	1.5	1.2	1.5	1.4	-			
C.V. %		2.2	2.2	1.6	1.4	2.9	1.2	1.9	-	1.6	1.9	-	-			
F (Prob)		.697	.000	.000	.000	.011	.000	.000	-	.000	.000	-	-			

TABLE NO. 2 (CONT.)

SI No	PEDIGREE	DAYS TO 50% SILKING										
		ZN 1 BAJA	LUDH	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN	HYDE JKAG	KANC BAKA
1	H K H - 1179	71.0	55.8	57.7	62.3	58.6	58.3	56.0	58.0	57.4	58.5	53.8
2	J H - 10858	67.3	52.8	56.3	59.7	56.3	54.3	53.0	57.3	54.9	57.8	52.8
3	M H 04 - 2	68.3	52.8	55.3	60.0	56.0	54.3	55.8	57.0	55.7	57.0	53.3
4	A H - 31410	64.0	50.0	53.7	63.3	55.7	54.0	53.3	52.0	53.1	53.5	50.5
5	TUX POOL C7	68.3	51.0	54.7	66.0	57.2	56.7	54.0	56.5	55.7	54.8	52.3
6	J K M H - 51	67.7	53.5	56.7	64.0	58.1	56.0	52.5	55.5	54.7	54.8	52.5
7	G K - 3050	66.0	52.0	53.3	63.0	56.1	54.7	52.0	53.0	53.2	53.0	51.3
8	PARAS JANAK	72.3	56.5	58.3	63.7	59.5	56.3	54.0	58.0	56.1	55.8	51.5
9	C - 555	71.7	54.0	56.7	59.0	56.6	57.3	52.8	56.0	55.4	55.8	52.5
10	B I O - 31030	66.0	50.0	53.3	60.0	54.4	54.0	51.8	54.8	53.5	53.8	51.3
11	X - 2406	68.3	52.8	56.3	63.0	57.4	56.0	52.3	57.3	55.2	55.8	52.8
12	N E C H - 129	73.3	54.0	57.7	60.0	57.2	53.7	53.5	58.0	55.1	56.5	53.0
13	KAVERI - 244	71.3	55.5	57.7	65.0	59.4	56.3	54.8	56.8	55.9	57.3	51.8
14	M C H - 24	72.7	54.3	57.0	65.0	58.8	56.7	54.3	58.0	56.3	55.8	52.3
CHECKS:												
15	BIO - 9681	65.7	49.0	52.7	59.7	53.8	53.3	51.8	52.3	52.4	54.0	51.8
16	PARBHAT	70.0	54.5	55.3	63.0	57.6	56.0	55.3	55.3	55.5	57.5	52.0
17	SEEDTEC - 2324	70.0	53.0	56.3	66.3	58.6	56.7	52.3	57.8	55.6	56.0	52.5
18	PRO - 311	67.3	53.0	57.0	60.0	56.7	55.7	51.3	55.5	54.1	54.8	52.8
MEAN LOCATION												
C.D. AT 5%		2.1	1.3	0.9	1.1	1.1	2.1	2.1	2.1	2.1	1.3	1.3
C.V. %		1.8	1.7	0.9	1.1	-	2.3	2.8	2.7	-	1.6	1.8
F (Prob)		.000	.000	.000	.000	-	.000	.000	.000	-	.000	.000

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% SILKING				KOLH	COIM	MAND	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
		KARI	ARBH	PROA	BANG MONS									
1	H K H - 1179	59.0	70.8	-	60.0	61.3	59.8	65.0	61.0	59.3	60.5	59.9	60.4	
2	J H - 10858	57.3	65.8	59.0	57.0	60.0	58.5	61.7	58.9	56.8	57.8	57.3	58.0	
3	M H 04 - 2	59.0	64.3	59.3	59.3	60.3	57.5	61.3	59.0	58.0	59.0	58.5	58.4	
4	A H - 31410	59.3	62.3	55.7	55.8	57.0	57.0	59.3	56.7	56.3	56.0	56.1	56.3	
5	TUX POOL C7	57.8	65.5	60.0	57.8	60.7	60.0	62.7	59.0	57.3	58.5	57.9	58.6	
6	J K M H - 51	60.0	63.5	58.7	58.3	60.7	58.8	61.7	58.8	58.3	58.8	58.5	58.4	
7	G K - 3050	58.0	64.0	56.7	55.8	61.3	58.0	60.3	57.6	56.3	57.8	57.0	57.0	
8	PARAS JANAK	57.3	63.3	59.3	58.0	61.3	58.8	63.7	58.8	59.3	59.8	59.5	59.3	
9	C - 555	58.8	64.5	58.3	58.3	60.7	60.0	61.7	58.9	58.3	60.8	59.5	58.7	
10	B I O - 31030	59.8	62.5	55.7	56.5	59.0	56.8	60.0	57.2	55.8	54.5	55.1	56.4	
11	X - 2406	58.3	64.5	60.0	58.0	60.7	59.0	61.7	59.0	59.0	58.3	58.6	58.5	
12	N E C H - 129	61.3	65.8	60.7	59.0	61.7	58.8	63.0	60.0	58.0	60.0	59.0	59.3	
13	KAVERI - 244	57.0	63.8	58.7	57.8	59.3	59.0	61.3	58.4	58.8	60.3	59.5	59.0	
14	M C H - 24	59.0	64.8	62.0	59.0	61.7	58.0	63.0	59.5	57.8	57.3	57.5	59.3	
CHECKS:														
15	BIO - 9681	59.0	61.8	57.7	55.0	59.3	56.3	59.3	57.1	56.5	55.5	56.0	56.1	
16	PARBHAT	59.5	67.3	58.7	59.3	61.3	61.0	62.0	59.8	59.3	59.0	59.1	59.2	
17	SEEDTEC - 2324	57.8	62.8	57.3	57.0	61.3	60.0	61.0	58.4	57.8	58.8	58.3	58.6	
18	PRO - 311	59.3	64.5	60.0	57.5	61.7	58.5	64.0	59.2	58.0	57.0	57.5	58.2	
MEAN LOCATION														
	C.D. AT 5% =	3.1	2.3	1.5	1.1	2.9	1.1	1.8	1.8	1.2	1.4	1.3	-	
	C.V. % =	3.7	2.5	1.5	1.3	2.9	1.3	1.7	-	1.5	1.6	-	-	
	F (Prob)	.497	.000	.000	.000	.075	.000	.000	-	.000	.000	-	-	

TABLE NO. 2 (CONT.)

SI No	PEDIGREE	DAYS TO 50% DRY HUSK										ZN 2		ZN 3		HYDE	
		BAJA	LU DH	KARN	KANP	VARA	JASH	AMBI	MEAN	MEAN	MEAN	MEAN	JKAG	KARI			
1	H K H - 1179	111.3	86.5	88.0	92.3	88.9	88.7	93.5	91.5	91.2	97.5	101.5					
2	J H - 10858	106.0	86.5	85.7	91.7	87.9	88.0	90.5	91.8	90.1	93.3	98.8					
3	M H 04 - 2	112.7	88.3	82.7	94.7	88.5	87.0	95.5	90.3	90.9	90.0	101.3					
4	A H - 31410	103.7	84.0	82.3	97.0	87.8	88.0	92.8	88.5	89.8	89.0	102.3					
5	TUX POOL C7	110.7	86.5	83.0	91.0	86.8	88.7	91.0	91.5	90.4	92.5	100.8					
6	J K M H - 51	113.3	89.0	84.3	97.3	90.2	87.0	94.3	89.5	90.3	92.8	103.0					
7	G K - 3050	105.3	82.8	82.0	95.3	86.7	88.0	89.5	88.5	88.7	86.8	101.0					
8	PARAS JANAK	112.0	91.5	86.3	97.7	91.8	88.7	93.0	92.0	91.2	91.8	100.0					
9	C - 555	111.3	88.3	88.0	95.7	90.6	88.7	91.5	89.8	90.0	91.3	100.5					
10	B I O - 31030	104.7	83.3	81.7	99.0	88.0	87.7	92.8	90.3	90.2	89.3	102.5					
11	X - 2406	113.3	85.8	88.7	95.0	89.8	88.0	91.3	91.5	90.3	89.0	98.3					
12	N E C H - 129	108.3	87.0	87.7	95.3	90.0	88.3	93.8	89.8	90.6	92.0	102.5					
13	KAVERI - 244	157.7	89.0	88.3	97.0	91.4	89.0	92.8	91.5	91.1	92.5	101.5					
14	M C H - 24	116.0	90.5	85.3	92.0	89.3	87.0	97.0	92.0	92.0	92.0	101.8					
CHECKS:																	
15	BIO - 9681	106.0	83.5	81.7	92.3	85.8	87.0	89.5	88.8	88.4	89.3	101.8					
16	PARBHAT	109.7	87.5	87.3	93.0	89.3	88.3	93.3	88.8	90.1	94.8	101.3					
17	SEEDTEC - 2324	113.3	85.0	85.0	94.7	88.2	88.3	91.8	93.8	91.3	91.8	100.5					
18	PRO - 311	108.3	84.8	86.7	92.7	88.0	88.7	91.5	91.8	90.6	89.8	101.5					
MEAN LOCATION																	
	C.D. AT 5%	25.6	3.1	0.8	1.9	1.9	1.3	1.8	2.5	1.9	3.0	3.1					
	C.V. %	13.9	2.5	0.6	1.2	-	0.9	1.4	2.0	-	2.3	2.1					
	F (Prob)	.255	.000	.000	.000	-	.003	.000	.001	-	.000	.231					

TABLE NO. 2 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK										ZN 5 MEAN	OV'L MEAN
	BANG	MONS	ZUAR	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN		
1 H K H - 1179*	92.5	105.3	90.7	104.8	99.7	98.8	77.8	95.0	86.4	94.8		
2 J H - 10858	99.5	103.0	90.3	103.5	97.0	97.9	86.5	86.8	86.6	93.7		
3 M H 04 - 2	94.8	104.8	88.7	102.5	96.3	96.9	88.5	93.5	91.0	94.5		
4 A H - 31410	93.3	104.8	90.3	102.0	95.0	96.7	86.0	88.0	87.0	92.9		
5 TUX POOL C7	98.5	101.0	90.3	105.0	97.7	98.0	87.5	91.0	89.3	94.2		
6 J K M H - 51	101.5	101.8	90.7	103.8	95.0	98.3	87.5	94.3	90.9	95.3		
7 G K - 3050	95.8	103.8	90.0	103.0	95.0	96.5	86.5	89.0	87.8	92.6		
8 PARAS JANAK	101.0	100.3	90.3	103.8	98.3	97.9	90.3	95.0	92.6	95.7		
9 C - 555	99.0	102.8	90.7	104.5	96.3	97.9	84.3	94.0	89.1	94.8		
10 B I O - 31030	97.0	104.0	90.7	101.8	95.7	97.3	87.5	89.0	88.3	93.5		
11 X - 2406	99.0	102.8	90.3	104.0	97.0	97.2	91.5	90.8	91.1	94.8		
12 N E C H - 129	99.5	102.8	90.3	103.8	99.0	98.5	87.8	92.8	90.3	95.0		
13 KAVERI - 244	99.0	101.8	91.0	104.0	96.7	98.1	84.8	93.3	89.0	98.1		
14 M C H - 24	99.0	102.8	91.0	103.0	97.0	98.1	87.5	94.5	91.0	95.5		
CHECKS:												
15 BIO - 9681	96.5	103.5	89.7	101.3	94.3	96.6	84.8	89.0	86.9	92.4		
16 PARBHAT	97.5	103.0	90.7	106.0	98.0	98.7	86.5	91.0	88.8	94.8		
17 SEEDTEC - 2324	99.5	101.5	91.0	105.0	95.0	97.8	86.5	94.0	90.3	94.8		
18 PRO - 311	95.3	104.3	90.0	103.5	97.7	97.4	86.5	89.5	88.0	93.9		
MEAN LOCATION												
C.D. AT 5% =	2.4	2.1	1.5	1.1	2.3	2.2	1.0	1.5	1.2	-		
C.V. % =	1.7	1.5	1.0	0.8	1.4	-	0.8	1.1	-	-		
F (Prob)	.000	.000	.418	.000	.000	-	.000	.000	-	-		

TABLE NO. 2 (CONT.)

S1 NO PEDIGREE	MOISTURE & AT HARVEST										ZN 3		ZN 4	
	ZN 1	ZN 2	VARA	JASH	MEAN	JKAG	ARBH	PROA	BANG	MONS	ZUAR	MAND	KOLH	MEAN
1 H K H - 1179	30.5	22.8	36.1	21.6	28.9	19.5	17.9	-	13.5	27.0	18.6	21.4	19.6	
2 J H - 10858	30.5	24.7	33.1	19.9	26.5	14.6	21.9	24.7	23.0	25.4	19.4	23.9	21.8	
3 M H 04 - 2	32.4	23.2	31.3	19.3	25.3	14.1	17.1	24.1	20.8	22.8	19.0	20.9	19.8	
4 A H - 31410	31.0	22.2	28.5	19.2	23.9	15.6	18.0	23.8	21.7	20.4	19.9	22.6	20.3	
5 TUX POOL C7	29.2	22.6	30.3	21.0	25.6	16.5	23.6	25.5	23.4	25.7	20.6	23.9	22.7	
6 J K M H - 51	29.6	25.3	32.7	19.4	26.0	17.5	21.6	28.2	25.0	24.2	19.9	19.0	22.2	
7 G K - 3050	30.5	23.1	31.3	18.8	25.0	14.8	16.6	26.1	22.6	24.6	19.3	20.0	20.6	
8 PARAS JANAK	31.3	27.0	35.0	19.1	27.0	15.8	19.3	27.6	26.4	26.5	19.9	19.0	22.1	
9 C - 555	30.7	24.6	33.8	21.3	27.5	16.2	20.2	26.9	26.8	23.8	20.2	24.0	22.6	
10 B I O - 31030	28.2	22.9	29.3	19.3	24.3	13.8	19.4	24.0	22.2	24.1	18.6	21.5	20.5	
11 X - 2406	28.9	24.8	31.4	19.7	25.5	17.0	20.1	28.4	26.6	26.0	20.4	21.2	22.8	
12 N E C H - 129	31.8	23.5	30.7	19.3	25.0	16.6	23.8	28.3	25.4	25.8	21.6	23.5	23.6	
13 KAVERI - 244	31.5	25.6	34.6	18.6	26.6	17.9	19.8	26.5	25.5	24.1	18.0	20.5	21.8	
14 M C H - 24	30.7	24.2	30.2	18.5	24.4	16.1	22.4	24.3	23.0	27.0	19.2	21.1	21.9	
CHECKS:														
15 BIO - 9681	27.5	22.9	32.2	19.8	26.0	15.6	17.2	26.2	21.5	24.1	20.0	22.4	21.0	
16 PARBHAT	28.8	23.3	32.3	19.3	25.8	15.8	20.0	26.1	23.3	24.8	19.2	22.7	21.7	
17 SEEDTEC - 2324	29.1	23.9	32.8	19.8	26.3	15.0	21.0	25.6	24.8	24.3	20.6	21.8	21.9	
18 PRO - 311	28.1	24.1	31.0	19.8	25.4	16.5	20.9	26.7	20.9	24.5	18.9	22.0	21.5	
MEAN LOCATION	30.3	23.9	32.5	19.5	26.0	16.2	20.5	26.4	22.9	24.5	19.6	21.8	21.7	
C.D. AT 5%	1.8	1.5	0.7	0.4	0.6	0.3	1.6	3.4	2.3	3.2	2.9	3.2	2.4	
C.V. %	3.6	4.5	1.3	1.6	-	1.2	5.5	7.9	7.2	9.3	9.0	8.9	-	
F (Prob)	.000	.000	.000	.000	-	.000	.000	.108	.000	.001	.807	.021	-	

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			ZN 3 MEAN			
		UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	BAJA	ZN 1 KAMP		VARA	JASH	AMBI
1	H K H - 1179	19.9	20.9	20.4	22.5	2.3	2.5	2.5	2.0	2.5	2.3
2	J H - 10858	20.1	20.6	20.4	23.2	2.2	2.3	1.8	1.0	2.5	1.8
3	M H 04 - 2	16.4	18.9	17.6	21.6	2.7	2.7	1.5	1.0	2.4	1.6
4	A H - 31410	18.8	19.5	19.1	21.6	2.3	2.7	1.8	2.0	2.5	2.1
5	TUX POOL C7	21.0	21.5	21.3	23.4	2.7	2.7	2.0	1.3	2.4	1.9
6	J K M H - 51	20.1	22.8	21.5	23.5	2.2	2.7	1.8	1.3	2.5	1.8
7	G K - 3050	17.7	18.5	18.1	21.8	2.2	2.5	2.3	1.0	2.4	1.9
8	PARAS JANAK	19.9	22.4	21.1	23.8	2.2	3.0	1.8	1.3	2.5	1.9
9	C - 555	18.6	21.6	20.1	23.7	2.3	2.8	2.0	1.3	2.3	1.8
10	B I O - 31030	16.8	18.9	17.8	21.5	2.2	3.2	2.8	2.0	2.2	2.3
11	X - 2406	19.9	21.3	20.5	23.5	2.3	2.5	1.8	1.3	2.3	1.8
12	N E C H - 129	16.0	20.6	18.3	23.6	2.0	2.5	1.8	1.0	2.4	1.7
13	KAVERI - 244	16.2	21.9	19.0	23.1	2.2	2.2	1.8	1.0	2.5	1.8
14	M C H - 24	19.8	22.4	21.1	23.0	2.3	2.5	2.0	1.5	2.6	2.0
CHECKS:											
15	BIO - 9681	17.0	19.7	18.3	22.0	2.5	2.5	1.5	1.0	2.2	1.6
16	PARBHAT	17.3	20.7	19.0	22.6	2.5	2.5	1.8	2.0	2.4	2.0
17	SEEDTEC - 2324	20.6	20.8	20.7	23.1	2.2	3.0	2.0	2.0	2.3	2.1
18	PRO - 311	19.0	20.7	19.9	22.5	2.2	2.7	1.8	1.0	2.5	1.8
MEAN LOCATION											
C.D. AT 5% =		0.3	0.6	0.5	-	0.5	0.6	0.2	0.4	0.3	0.3
C.V. % =		1.3	2.2	-	-	12.5	14.4	6.2	21.9	8.4	-
F (Prob)		.000	.000	-	-	.334	.413	.000	.000	.099	-

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	PLANT ASPECT *										OV'L MEAN	
		KARI	ARBH	MONS	ZUAR	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI		ZN 5 MEAN
1	H K H - 1179	3.5	3.0	3.0	3.0	2.3	4.0	2.0	3.0	4.2	1.5	2.9	2.7
2	J H - 10858	2.5	3.0	1.8	2.5	2.3	3.0	1.8	2.4	1.9	1.0	1.4	2.1
3	M H 04 - 2	2.8	2.8	3.0	2.5	2.7	3.0	3.0	2.8	2.5	1.3	1.9	2.4
4	A H - 31410	2.8	2.8	3.3	2.5	2.7	4.0	2.5	2.9	3.0	1.8	2.4	2.6
5	TUX POOL C7	2.5	2.5	2.0	3.0	2.3	3.0	2.0	2.5	2.8	1.3	2.0	2.3
6	J K M H - 51	2.0	2.8	1.3	3.5	2.0	2.0	2.0	2.2	1.9	1.0	1.4	2.0
7	G K - 3050	2.3	2.5	2.3	3.3	2.3	3.0	1.7	2.5	1.9	1.5	1.7	2.2
8	PARAS JANAK	2.0	2.5	1.5	3.5	2.7	2.0	2.2	2.3	2.7	1.0	1.9	2.2
9	C - 555	1.8	2.3	1.8	3.0	3.0	2.0	2.0	2.3	2.9	1.3	2.1	2.2
10	B I O - 31030	2.5	2.5	2.3	3.3	2.0	2.0	1.8	2.3	1.7	1.0	1.3	2.2
11	X - 2406	2.0	2.5	1.3	3.0	2.3	2.0	2.2	2.2	1.9	1.0	1.5	2.0
12	N E C H - 129	1.0	2.0	1.8	3.5	2.0	3.0	2.3	2.2	1.9	1.0	1.5	2.0
13	KAVERI - 244	1.8	2.0	1.8	3.8	2.3	3.0	2.2	2.4	2.4	1.0	1.7	2.1
14	M C H - 24	1.3	2.3	1.8	3.8	2.7	2.0	1.8	2.2	2.2	1.0	1.6	2.1
CHECKS:													
15	BIO - 9681	2.0	2.5	2.5	3.0	2.3	3.0	2.3	2.5	2.4	1.0	1.7	2.2
16	PARBHAT	2.5	3.0	2.0	2.5	2.7	3.8	2.8	2.8	2.7	1.0	1.9	2.4
17	SEEDTEC - 2324	2.3	2.0	2.0	3.8	2.0	3.0	2.2	2.5	1.7	1.0	1.4	2.2
18	PRO - 311	3.0	2.3	2.8	3.8	2.3	2.0	2.2	2.6	2.3	1.0	1.7	2.3
MEAN LOCATION													
C.D. AT 5%		0.9	0.2	0.9	0.7	0.7	0.1	0.8	0.6	0.3	0.1	0.2	-
C.V. %		26.8	6.3	31.1	15.7	18.6	3.7	21.7	-	7.5	8.1	-	-
F (Prob)		.000	.000	.000	.000	.091	.000	.226	-	.000	.000	-	-

TABLE NO. 2 (CONT.)

SI NO PEDIGREE	EAR ASPECT *										
	ZN 1		ZN 2		ZN 3		BANG		MAND		
	BAJA	KANP	VARA	JASH	AMBI	MEAN	KARI	ARBH	MONS	ZUAR	
1 H K H - 1179	2.5	2.5	2.8	2.0	2.5	2.4	2.8	3.3	4.3	3.0	3.7
2 J H - 10858	2.5	2.5	2.0	1.3	2.5	1.9	1.3	3.0	2.5	3.3	2.3
3 M H 04 - 2	2.7	2.7	2.3	2.0	2.5	2.3	2.3	3.0	2.8	2.8	3.0
4 A H - 31410	2.5	2.7	2.8	2.0	2.5	2.4	1.5	2.5	3.5	3.0	2.7
5 TUX POOL C7	2.5	2.7	2.8	2.0	2.4	2.4	1.3	2.8	2.5	3.3	3.3
6 J K M H - 51	2.3	2.2	2.0	1.8	2.5	2.1	1.8	2.5	1.8	3.0	2.0
7 G K - 3050	2.3	2.7	2.8	2.0	2.5	2.4	3.3	2.8	2.8	4.0	2.3
8 PARAS JANAK	2.3	2.7	2.8	2.0	2.6	2.5	1.3	2.5	1.5	3.0	2.7
9 C - 555	2.3	2.8	2.3	2.0	2.3	2.2	1.0	2.8	1.5	3.5	2.3
10 B I O - 31030	2.3	3.0	2.8	2.0	2.4	2.4	2.3	2.5	1.8	3.5	2.7
11 X - 2406	2.3	2.8	2.3	1.3	2.3	1.9	2.5	2.3	1.5	3.5	2.7
12 N E C H - 129	2.5	2.7	2.0	1.0	2.4	1.8	1.0	2.0	1.0	4.0	1.7
13 KAVERI - 244	2.5	2.5	1.8	2.0	2.6	2.1	1.0	2.5	1.0	3.0	2.3
14 M C H - 24	2.5	2.3	2.8	1.5	2.3	2.2	1.0	2.3	1.5	3.5	2.3
CHECKS:											
15 BIO - 9681	2.3	2.3	2.3	1.5	2.4	2.0	2.3	2.8	2.5	3.0	3.3
16 PARBHAT	2.5	2.3	2.3	2.3	2.3	2.3	2.8	3.0	3.0	3.0	3.0
17 SEEDTEC - 2324	2.3	3.0	2.3	1.5	2.3	2.0	1.5	2.0	1.0	4.0	2.3
18 PRO - 311	2.5	2.7	1.8	1.5	2.5	1.9	2.5	3.0	1.3	3.5	3.0
MEAN LOCATION											
C.D. AT 5% =	0.4	0.7	0.2	0.5	0.3	0.3	0.8	0.2	0.7	0.8	0.9
C.V. % =	10.7	16.3	5.5	20.0	9.6	-	29.0	5.5	25.0	16.0	21.4
F (Prob)	.662	.751	.000	.000	.838	-	.000	.000	.000	.021	.009

TABLE NO. 2 (CONT.)

Sl No	PEDIGREE	EAR ASPECT *				HUSK COVER *				Zn 3 MEAN				
		COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	ZN 1 BAJA		ZN 2 KANP	VARA	JASH	AMBI
1	H K H - 1179	3.0	2.2	3.2	3.8	1.5	2.7	2.8	1.8	2.7	2.3	1.8	2.7	2.2
2	J H - 10858	3.0	1.8	2.5	1.7	1.3	1.5	2.2	2.0	2.5	1.8	1.0	2.5	1.8
3	M H 04 - 2	3.0	2.0	2.7	2.8	1.3	2.0	2.5	2.3	2.8	2.8	2.8	2.5	2.7
4	A H - 31410	3.0	2.0	2.6	2.8	1.3	2.0	2.5	2.2	2.5	2.0	2.3	2.5	2.3
5	TUX POOL C7	3.0	2.0	2.6	2.4	1.3	1.8	2.4	2.0	2.5	2.0	1.5	2.5	2.0
6	J K M H - 51	2.0	1.7	2.1	2.0	1.0	1.5	2.0	2.2	2.3	1.8	1.8	2.5	2.0
7	G K - 3050	3.0	1.8	2.8	1.7	1.0	1.4	2.5	2.0	2.7	2.3	1.8	2.5	2.2
8	PARAS JANAK	2.0	1.7	2.1	1.7	1.0	1.3	2.1	1.8	3.2	2.5	1.3	2.7	2.1
9	C - 555	3.0	1.7	2.3	2.9	1.3	2.1	2.3	1.7	2.3	1.8	1.8	2.3	1.9
10	B I O - 31030	3.0	1.7	2.5	1.9	1.0	1.5	2.3	2.2	2.7	2.3	1.8	2.5	2.1
11	X - 2406	3.0	1.7	2.4	1.5	1.3	1.4	2.2	2.0	2.7	2.3	1.3	2.2	1.9
12	N E C H - 129	2.0	1.8	1.9	1.7	1.0	1.3	1.9	1.8	2.8	1.8	1.0	2.5	1.7
13	KAVERI - 244	2.0	1.7	1.9	2.9	1.0	2.0	2.1	2.0	2.5	2.0	1.0	2.5	1.8
14	M C H - 24	2.0	1.7	2.0	2.3	1.0	1.7	2.1	2.2	2.0	2.3	1.0	2.6	1.9
CHECKS:														
15	BIO - 9681	2.0	1.7	2.5	2.4	1.5	2.0	2.3	2.2	2.7	2.3	1.5	2.3	2.0
16	PARBHAT	2.8	2.3	2.8	2.6	1.5	2.0	2.5	2.0	2.7	2.3	2.0	2.5	2.3
17	SEEDTEC - 2324	2.0	1.8	2.1	2.3	1.0	1.6	2.1	2.0	3.0	1.8	1.0	2.2	1.6
18	PRO - 311	3.0	1.7	2.6	2.2	1.5	1.8	2.3	2.0	2.3	2.8	2.0	2.5	2.4
MEAN LOCATION														
C.D. AT 5%		0.1	0.5	0.6	0.5	0.2	0.3	-	0.4	0.8	0.4	0.6	0.3	0.4
C.V. %		3.7	17.0	-	15.6	9.1	-	-	10.6	17.9	10.1	26.9	9.7	-
F (Prob)		.000	.362	-	.000	.000	-	-	.240	.773	.000	.000	.143	-

TABLE NO. 2 (CONT.)

Sl No	PEDIGREE	HUSK COVER *					ZN 4					ZN 5	
		KARI	ARBH	BANG MONS	ZUAR	MAND	COIM	KOLH	MEAN	UDAI	CHHI	MEAN	OV'L
1	H K H - 1179	2.0	2.5	2.0	3.3	2.3	3.0	2.3	2.5	1.8	1.5	1.6	2.3
2	J H - 10858	2.0	2.0	2.0	3.5	2.3	3.0	2.0	2.4	1.6	1.3	1.4	2.1
3	M H 04 - 2	2.5	2.5	2.8	2.8	2.3	3.0	2.2	2.6	1.8	1.8	1.8	2.5
4	A H - 31410	1.8	2.5	2.3	3.0	2.7	3.0	2.2	2.5	2.2	1.0	1.6	2.3
5	TUX POOL C7	1.8	2.0	2.0	3.5	2.0	3.0	1.8	2.3	2.0	1.3	1.6	2.1
6	J K M H - 51	2.0	2.0	2.3	3.5	2.3	2.0	2.2	2.3	1.5	1.0	1.3	2.1
7	G K - 3050	2.0	2.5	2.0	3.8	2.0	3.0	2.0	2.5	1.8	1.5	1.6	2.3
8	PARAS JANAK	2.0	2.0	2.3	3.8	2.3	2.0	2.2	2.4	1.7	1.0	1.4	2.2
9	C - 555	1.8	2.3	2.0	4.0	2.0	3.0	1.8	2.4	1.5	1.0	1.3	2.1
10	B I O - 31030	2.8	2.5	2.0	3.8	2.3	3.0	2.2	2.6	1.7	1.0	1.3	2.3
11	X - 2406	2.5	2.0	2.0	3.3	2.0	3.0	2.0	2.4	1.6	1.3	1.5	2.1
12	N E C H - 129	1.3	2.0	2.3	4.0	2.0	2.0	2.0	2.2	1.5	1.0	1.3	2.0
13	KAVERI - 244	1.5	2.0	2.0	3.5	2.0	2.0	2.2	2.2	2.1	1.3	1.7	2.0
14	M C H - 24	1.3	2.0	3.0	3.5	2.7	2.0	1.3	2.3	1.7	1.3	1.5	2.0
CHECKS:													
15	BIO - 9681	2.0	2.3	2.5	3.0	2.0	2.0	1.8	2.2	1.9	1.0	1.5	2.1
16	PARBHAT	2.0	2.8	2.3	3.5	2.0	2.8	2.0	2.5	1.7	1.3	1.5	2.3
17	SEEDTEC - 2324	1.8	2.0	2.0	4.0	2.0	2.0	2.0	2.3	1.9	1.0	1.5	2.0
18	PRO - 311	2.0	2.0	2.3	4.0	2.3	3.0	1.7	2.5	1.6	1.3	1.4	2.3
MEAN LOCATION													
	C.D. AT 5%	0.6	0.3	0.5	0.6	0.7	0.1	0.6	0.5	0.3	0.3	0.3	-
	C.V. %	23.2	8.6	16.2	12.0	21.1	3.7	17.7	-	12.2	14.9	-	-
	F (Prob)	.001	.000	.004	.001	.840	.000	.155	-	.000	.000	-	-

TABLE NO. 2 (CONT.)

SI NO PEDIGREE	UNIFORMITY *										ZUAR
	ZN 1	ZN 2	ZN 3	AMBI	MEAN	KARI	ARBH	MONS	BANG	ZUAR	
	BAJA	KAMP	VARA	JASH	AMBI	MEAN	KARI	ARBH	MONS	BANG	ZUAR
1 H K H - 1179	1.5	2.5	1.0	2.0	2.4	1.8	1.5	2.0	4.8	2.7	2.7
2 J H - 10858	2.2	2.7	2.3	1.3	2.6	2.0	2.3	3.0	1.8	2.8	2.8
3 M H 04 - 2	2.3	2.5	1.8	2.8	2.6	2.4	2.3	2.5	2.8	2.8	2.8
4 A H - 31410	2.2	2.5	1.8	3.0	2.7	2.5	2.0	2.3	4.0	2.5	2.5
5 TUX POOL C7	2.5	2.7	2.3	2.0	2.5	2.2	2.5	2.8	2.0	3.0	3.0
6 J K M H - 51	2.0	2.7	2.3	1.8	2.5	2.2	1.8	2.3	1.5	3.8	3.8
7 G K - 3050	2.2	2.8	1.8	2.3	2.6	2.2	2.0	2.5	2.0	3.5	3.5
8 PARAS JANAK	2.2	2.8	1.8	1.5	2.5	1.9	1.5	2.3	1.3	3.5	3.5
9 C - 555	2.0	2.3	1.8	2.3	2.3	2.1	1.8	2.3	1.3	3.0	3.0
10 B I O - 31030	1.7	2.8	2.8	2.5	2.3	2.5	1.8	2.3	2.5	3.3	3.3
11 X - 2406	2.5	2.7	2.5	1.5	2.3	2.1	1.8	2.5	1.8	2.8	2.8
12 N E C H - 129	1.8	2.7	2.3	1.3	2.5	2.0	1.0	2.0	1.0	3.5	3.5
13 KAVERI - 244	2.0	2.5	2.3	2.0	2.4	2.2	1.8	2.0	1.0	3.8	3.8
14 M C H - 24	1.8	2.3	1.8	1.3	2.7	1.9	1.0	2.0	1.5	3.5	3.5
CHECKS:											
15 B I O - 9681	2.5	2.8	1.8	2.0	2.2	2.0	2.3	2.3	2.5	3.0	3.0
16 PARBHAT	2.5	2.3	2.5	3.0	2.5	2.7	2.5	3.0	3.8	3.0	3.0
17 SEEDTEC - 2324	2.0	3.0	1.8	1.3	2.3	1.8	1.8	2.0	1.0	3.8	3.8
18 PRO - 311	2.2	2.5	2.3	2.5	2.4	2.4	2.3	2.0	1.3	3.8	3.8
MEAN LOCATION											
C.D. AT 5%	0.5	0.7	0.2	0.7	0.3	0.4	0.9	0.2	2.1	3.3	0.6
C.V. %	14.5	15.0	6.3	23.0	8.6	-	31.3	6.6	29.3	13.8	13.8
F (Prob)	.003	.713	.000	.000	.074	-	.000	.000	.000	.000	.000

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	UNIFORMITY *								OV'L MEAN
		MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN		
1	H K H - 1179	2.0	3.0	2.3	2.6	1.6	1.0	1.3	2.2	
2	J H - 10858	2.0	3.0	2.3	2.4	2.1	1.0	1.5	2.2	
3	M H 04 - 2	2.7	3.0	2.7	2.7	2.1	1.0	1.5	2.4	
4	A H - 31410	2.3	4.0	2.0	2.7	2.4	1.3	1.8	2.5	
5	TUX POOL C7	2.3	3.0	2.2	2.5	3.0	1.5	2.2	2.4	
6	J K M H - 51	2.0	3.0	2.2	2.3	2.5	1.0	1.8	2.2	
7	G K - 3050	2.7	4.0	2.0	2.7	2.1	1.3	1.7	2.4	
8	PARAS JANAK	2.3	2.0	2.2	2.1	2.5	1.0	1.8	2.1	
9	C - 555	2.7	2.0	1.7	2.1	2.1	1.0	1.5	2.0	
10	B I O - 31030	2.3	2.0	2.2	2.3	2.2	1.0	1.6	2.3	
11	X - 2406	2.7	3.0	1.8	2.3	2.1	1.3	1.7	2.2	
12	N E C H - 129	2.7	3.0	2.2	2.2	1.6	1.0	1.3	2.0	
13	KAVERI - 244	2.3	3.0	1.8	2.2	2.7	1.0	1.9	2.2	
14	M C H - 24	2.7	2.0	2.2	2.1	2.0	1.0	1.5	2.0	
CHECKS:										
15	B I O - 9681	2.3	3.0	2.3	2.5	2.0	1.3	1.6	2.3	
16	PARBHAT	2.7	3.8	2.2	3.0	2.3	1.8	2.0	2.7	
17	SEEDTEC - 2324	2.0	2.0	2.2	2.1	2.1	1.0	1.5	2.0	
18	PRO - 311	2.0	3.0	2.3	2.4	2.4	1.5	2.0	2.3	
MEAN LOCATION										
C.D. AT 5%		0.7	0.1	0.7	0.6	0.3	0.2	0.2	-	
C.V. %		19.0	3.3	18.7	-	8.2	11.1	-	-	
F (Prob)		.264	.000	.557	-	.000	.000	-	-	

TABLE NO. 2 (CONT.)

S1 No	PEDIGREE	PLANT HEIGHT (cm)										
		ZN 1		ZN 2		ZN 3		HYDE		KANC		
		BAJA	LUOH	KARN	KANP	MEAN	VARA	JASH	AMBI	MEAN	JKAG	BAKA
1	H K H - 1179	154	154	160	160	158	188	161	181	176	204	186
2	J H - 10858	177	210	212	174	199	230	200	217	216	221	206
3	M H 04 - 2	184	205	207	181	198	223	201	225	216	216	213
4	A H - 31410	196	196	177	164	179	215	174	199	196	219	199
5	TUX POOL C7	185	200	192	171	187	230	190	225	215	241	225
6	J K M H - 51	185	196	205	153	185	213	192	219	208	219	205
7	G K - 3050	183	196	205	175	192	230	197	224	217	229	208
8	PARAS JANAK	180	196	202	154	184	203	180	208	197	220	199
9	C - 555	162	204	197	148	183	245	196	221	220	224	213
10	B I O - 31030	185	198	198	157	184	205	182	225	204	223	209
11	X - 2406	187	201	213	163	193	215	198	226	213	221	214
12	N E C H - 129	184	198	200	180	193	225	209	228	220	241	229
13	KAVERI - 244	183	203	198	167	189	228	199	214	213	239	210
14	M C H - 24	200	203	220	161	194	228	199	229	219	249	206
CHECKS:												
15	BIO - 9681	172	201	193	172	189	228	192	228	216	230	214
16	PARBHAT	204	216	227	171	205	238	180	223	214	235	226
17	SEEDTEC - 2324	172	185	190	172	182	203	176	217	198	211	198
18	PRO - 311	212	193	185	152	176	215	185	224	208	234	218
MEAN LOCATION												
	C.D. AT 5%	29.0	14.7	11.7	32.2	19.5	9.6	6.6	16.4	10.8	16.2	15.5
	C.V. %	9.6	5.2	3.6	11.9	-	2.7	2.5	5.3	-	5.0	5.2
	F (Prob)	.106	.000	.000	.558	-	.000	.000	.000	-	.000	.000

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)					ZUAR	MAND	COIM	KOLH	ZN 4		ZN 5		OV'L MEAN
		KARI	PROA	BANG	BANG	NONS					UDAI	CHHI	MEAN	MEAN	
1	H K H - 1179	153	-	190	198	185	138	130	173	174	160	167	169		
2	J H - 10858	165	226	258	215	215	161	150	202	206	178	192	201		
3	M H 04 - 2	185	214	266	228	223	163	158	207	251	193	222	208		
4	A H - 31410	169	203	244	208	214	151	157	196	221	186	204	194		
5	TUX POOL C7	172	221	266	215	213	158	187	211	241	178	209	206		
6	J K M H - 51	165	201	268	219	212	161	147	199	233	195	214	199		
7	G K - 3050	162	209	255	220	199	148	180	201	224	183	203	201		
8	PARAS JANAK	147	196	264	228	193	153	160	196	220	184	202	194		
9	C - 555	161	211	266	229	206	145	167	202	238	203	220	202		
10	B I O - 31030	166	201	261	228	190	163	153	199	220	194	207	198		
11	X - 2406	169	226	250	211	219	177	182	208	239	199	219	206		
12	N E C H - 129	159	228	276	239	227	173	165	215	214	196	205	209		
13	KAVERI - 244	176	218	260	226	220	163	168	209	206	204	205	204		
14	M C H - 24	172	243	274	238	215	183	170	217	229	209	219	213		
CHECKS:															
15	BIO - 9681	178	237	268	238	208	173	177	214	239	199	219	208		
16	PARBHAT	183	223	279	230	223	167	172	215	241	194	218	213		
17	SEEDTEC - 2324	152	204	258	224	198	166	153	196	215	181	198	193		
18	PRO - 311	162	225	265	223	213	165	165	208	228	184	206	203		
MEAN LOCATION															
C.D. AT 5%		12.9	22.8	21.1	19.1	19.8	7.9	25.3	17.8	30.3	15.4	22.8	-		
C.V. %		5.5	6.4	5.7	6.1	5.8	3.5	9.4	-	9.6	5.7	-	-		
F (Prob)		.000	.005	.000	.003	.006	.000	.026	-	.004	.000	-	-		

TABLE NO. 2 (CONT.)

S1 NO PEDIGREE	EAR HEIGHT (cm)										
	ZN 1 BAJA	MODH	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN	HYDE JKAG	KANC BAKA
1 H K H - 1179	88	86	77	78	80	75	78	63	72	76	68
2 J H - 10858	97	121	115	86	107	98	95	80	91	91	78
3 M H 04 - 2	115	106	120	89	105	100	111	104	105	114	90
4 A H - 31410	100	104	93	79	92	95	84	74	84	71	76
5 TUX POOL C7	98	109	133	87	110	90	97	90	93	94	88
6 J K M H - 51	107	103	108	69	93	93	97	81	90	93	74
7 G K - 3050	95	109	107	87	101	90	96	85	90	86	74
8 PARAS JANAK	112	109	110	75	98	85	87	74	82	98	70
9 C - 555	84	100	107	80	95	103	103	88	98	103	84
10 B I O - 31030	82	85	87	72	81	73	81	78	77	88	66
11 X - 2406	92	100	112	77	96	80	95	84	86	101	81
12 N E C H - 129	102	96	98	91	95	85	101	87	91	100	90
13 KAVERI - 244	100	105	103	78	95	85	99	86	90	98	83
14 M C H - 24	107	105	113	78	99	90	99	85	91	116	80
CHECKS:											
15 BIO - 9681	80	95	93	82	90	80	87	76	81	85	78
16 PARBHAT	113	121	120	88	110	105	87	83	91	110	91
17 SEEDTEC - 2324	93	99	87	88	91	70	85	78	78	91	75
18 PRO - 311	102	105	100	72	92	83	99	91	91	100	90
MEAN LOCATION											
C.D. AT 5%	22.3	13.6	16.8	20.5	17.0	11.4	6.1	8.2	8.5	14.4	12.0
C.V. %	13.7	9.3	9.9	15.4	-	7.9	4.7	7.1	-	10.9	10.6
F (Prob)	.083	.000	.000	.840	-	.000	.000	.000	-	.000	.000

TABLE NO. 2 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)			ZUAR	MAND	COIM	KOLH	ZN 4		CHHI	ZN 5	
		KARI	PROA	BANG					BANG	UDAI		MEAN	OV'L
1	H K H - 1179	62	-	126	103	88	77	68	84	79	89	84	81
2	J H - 10858	74	82	136	104	113	78	70	92	96	103	99	95
3	M H 04 - 2	81	96	154	115	122	106	73	106	121	115	118	107
4	A H - 31410	64	73	128	96	105	78	67	84	96	89	93	87
5	TUX POOL C7	81	89	136	103	101	85	80	95	324	99	211	110
6	J K M H - 51	76	81	138	104	102	89	68	91	100	103	101	93
7	G K - 3050	79	80	129	98	97	72	75	88	108	93	100	92
8	PARAS JANAK	72	71	135	100	89	84	70	88	113	98	105	92
9	C - 555	71	83	141	105	106	82	75	94	110	104	107	96
10	B I O - 31030	65	64	118	94	93	77	65	81	86	86	86	81
11	X - 2406	80	80	144	96	111	94	73	95	108	94	101	94
12	N E C H - 129	73	84	141	106	117	92	68	97	105	105	105	97
13	KAVERI - 244	70	84	140	106	106	93	72	94	93	106	99	95
14	M C H - 24	69	80	149	106	108	89	78	97	111	111	111	99
CHECKS:													
15	BIO - 9681	75	74	129	100	101	79	73	88	88	85	86	87
16	PARBHAT	77	79	148	106	118	87	68	98	105	103	104	101
17	SEEDTEC - 2324	62	72	131	103	98	83	73	88	99	95	97	88
18	PRO - 311	77	90	144	114	106	90	73	98	111	96	104	97
MEAN LOCATION													
	C.D. AT 5%	10.5	16.6	13.3	11.3	19.7	6.0	14.1	13.1	120.7	13.3	67.0	-
	C.V. %	10.2	12.6	6.9	7.8	11.5	5.1	11.9	-	76.8	9.6	-	-
	F (Prob)	.005	.066	.000	.007	.090	.000	.662	-	.345	.001	-	-

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	EAR No. / PLANT														OV'L MEAN
		LUDH	VARA	AMBI	JKAG	KANC	BAKA	KARI	MONS	BANG	MAND	COIM	KOLH	UDAI	CHHI	
1	H K H - 1179	0.83	0.94	1.02	1.03	1.00	1.00	1.00	0.95	0.95	0.93	1.00	1.01	1.01	1.01	0.97
2	J H - 10858	1.06	0.84	0.99	0.99	1.00	1.00	0.89	0.94	0.99	0.91	0.99	1.01	1.01	0.91	0.96
3	M H 04 - 2	0.97	0.93	1.03	1.01	1.00	1.00	0.89	1.01	1.01	1.01	1.02	0.97	0.96	0.98	0.98
4	A H - 31410	0.98	0.96	1.06	0.97	1.00	1.00	0.98	0.95	1.08	0.93	1.01	1.03	0.98	0.99	0.99
5	TUX POOL C7	0.96	1.05	1.01	0.97	1.00	1.00	0.99	0.94	1.02	0.97	1.05	1.05	1.02	1.00	1.00
6	J K M H - 51	0.99	0.91	1.00	1.00	1.00	1.00	1.02	0.94	0.93	0.98	1.02	0.89	1.00	0.97	0.97
7	G K - 3050	0.94	0.96	1.06	0.98	1.00	1.00	0.97	0.85	1.01	0.96	0.99	0.89	1.02	0.97	0.97
8	PARAS JANAK	0.90	0.96	0.99	1.05	1.00	1.00	1.00	0.91	0.98	0.97	0.86	1.02	1.01	0.97	0.97
9	C - 555	0.94	0.98	1.02	1.01	1.00	1.00	0.94	0.86	1.06	0.94	0.94	1.01	0.94	0.97	0.97
10	B I O - 31030	1.02	0.99	1.03	1.05	1.00	1.00	0.92	0.97	1.11	0.99	0.93	1.00	0.99	1.00	1.00
11	X - 2406	1.01	0.97	1.03	1.08	1.00	1.00	0.88	0.98	0.97	0.98	0.97	1.01	0.93	0.98	0.98
12	N E C H - 129	0.98	0.94	1.01	0.97	1.00	1.00	0.93	0.94	1.00	0.98	0.97	0.93	1.00	0.97	0.97
13	KAVERI - 244	0.96	1.01	1.06	1.03	1.00	1.00	0.89	0.94	1.05	0.99	0.97	1.00	1.03	0.99	0.99
14	M C H - 24	0.95	1.11	1.02	0.97	1.01	1.01	0.83	0.89	1.03	1.03	0.96	0.83	0.95	0.97	0.97
CHECKS:																
15	BIO - 9681	0.98	0.98	1.02	1.01	1.01	1.01	0.92	0.99	0.96	0.97	0.98	1.05	0.98	0.98	0.99
16	PARBHAT	1.01	0.97	1.01	0.97	1.00	1.00	0.99	0.84	0.96	0.97	0.92	0.92	1.00	0.96	0.96
17	SEEDTEC - 2324	0.92	0.93	1.10	0.98	1.01	1.01	0.82	0.95	0.86	0.97	0.86	1.00	0.96	0.95	0.95
18	PRO - 311	1.00	1.11	1.04	1.02	1.00	1.00	0.95	0.95	0.97	0.95	0.95	1.01	0.95	0.99	0.99
MEAN LOCATION																
C.D. AT 5%																
C.V. %																
F (Prob)																

TABLE NO. 2 (CONT.)

Sl NO PEDIGREE	H.turcicum *				H.maydis *				BLSB *		
	ZN 1 BAJA	BANG PROA	BANG MONS	BANG ZUAR	ZN 1 BAJA	ZN 1 JASH	ZN 3 ZUAR	ZN 4 ZUAR	OV'L MEAN	OV'L MEAN	
1 H K H - 1179	1.8	-	3.8	2.3	1.0	2.4	2.2	2.3	2.3	1.9	2.8
2 J H - 10858	1.5	2.7	3.0	2.5	1.5	2.4	2.2	1.8	3.3	2.0	2.6
3 M H 04 - 2	2.5	3.7	3.5	2.0	3.2	3.1	3.0	2.1	2.0	1.8	2.4
4 A H - 31410	2.2	3.7	4.0	2.5	3.0	3.3	3.1	2.9	2.5	2.3	3.1
5 TUX POOL C7	1.8	3.0	3.0	2.3	1.5	2.4	2.3	2.8	2.8	2.3	2.4
6 J K M H - 51	1.3	2.7	2.5	3.3	1.5	2.5	2.3	2.8	4.0	2.6	2.5
7 G K - 3050	1.3	2.3	3.5	3.0	1.8	2.7	2.4	2.6	3.3	2.3	2.8
8 PARAS JANAK	1.7	3.0	3.0	2.8	1.5	2.6	2.4	3.9	2.8	2.6	3.1
9 C - 555	2.0	3.0	3.0	3.0	2.3	2.8	2.7	3.4	3.3	2.6	2.6
10 B I O - 31030	1.3	3.0	3.8	2.3	1.5	2.6	2.4	2.9	3.0	2.3	2.8
11 X - 2406	1.3	3.0	3.3	2.8	2.2	2.8	2.5	3.0	3.3	2.5	2.8
12 N E C H - 129	2.0	3.0	2.8	2.0	2.3	2.5	2.4	1.5	2.5	1.7	2.5
13 KAVERI - 244	1.8	3.0	3.3	2.8	2.5	2.9	2.7	3.6	2.8	2.6	3.0
14 M C H - 24	1.0	2.7	2.0	3.8	1.2	2.4	2.1	3.0	3.8	2.6	2.8
CHECKS:											
15 BIO - 9681	1.7	3.0	3.3	2.3	1.8	2.6	2.4	2.6	2.8	2.2	2.6
16 PARBHAT	1.8	3.0	3.3	2.8	2.3	2.8	2.6	2.4	3.0	2.2	2.5
17 SEEDTEC - 2324	1.7	3.0	3.0	3.5	1.7	2.8	2.6	2.4	3.5	2.3	2.6
18 PRO - 311	1.7	3.0	3.0	2.8	2.5	2.8	2.6	1.8	3.0	2.0	2.3
MEAN LOCATION											
C.D. AT 5%	0.6	0.6	0.6	0.6	0.7	0.6	-	0.5	0.6	-	0.5
C.V. %	21.5	12.1	12.6	16.2	21.2	-	-	25.0	14.0	-	14.3
F (Prob)	.005	.000	.000	.000	.000	-	-	.455	.000	-	.175

TABLE NO. 2 (CONT.)

SI	NO PEDIGREE	STAND AT HARVEST										HYDE		KANC	
		BAJA	LUDH	KARN	KAMP	VARA	JASH	AMBI	JKAG	BAKA	KARI				
1	H K H - 1179	24	31	23	35	28	32	33	45	18	35				
2	J H - 10858	27	35	28	33	36	32	31	48	32	42				
3	M H 04 - 2	27	41	25	35	38	32	37	47	31	42				
4	A H - 31410	29	37	24	35	29	32	33	43	34	40				
5	TUX POOL C7	27	37	26	34	36	31	36	45	34	39				
6	J K M H - 51	26	36	25	33	31	32	36	48	33	40				
7	G K - 3050	30	37	26	33	31	29	36	47	32	39				
8	PARAS JANAK	29	31	23	33	33	33	29	41	27	39				
9	C - 555	28	37	26	32	39	32	35	45	31	41				
10	B I O - 31030	29	39	23	32	37	32	38	50	32	39				
11	X - 2406	27	37	25	34	31	32	37	45	32	39				
12	N E C H - 129	28	40	26	33	36	32	36	47	35	41				
13	KAVERI - 244	28	39	25	33	35	31	35	46	36	40				
14	M C H - 24	30	38	29	35	36	32	37	49	35	39				
CHECKS:															
15	BIO - 9681	28	39	28	33	33	32	34	46	33	36				
16	PARBHAT	27	36	22	34	35	31	34	48	34	41				
17	SEEDTEC - 2324	28	39	28	33	30	32	38	46	32	40				
18	PRO - 311	30	39	24	33	32	31	37	49	36	40				
MEAN LOCATION															
	C.D. AT 5%	3.9	3.4	3.1	2.3	5.8	2.6	4.3	2.2	4.6	4.9				
	C.V. †	8.4	6.5	7.6	4.2	10.4	5.9	8.6	3.4	10.3	8.9				
	F (Prob)	.317	.000	.000	.149	.006	.702	.039	.000	.000	.285				

TABLE NO. 2 (CONT.)

Sl No	PEDIGREE	H. turcicum *				H. maydis *				BLSB *			
		ZN 1 BAJA	BANG PROA	BANG MONS	BANG ZUAR	ZN 1 BAJA	ZN 1 JASH	ZN 3 ZUAR	ZN 3 JASH	OV'L MEAN	OV'L MEAN		
1	H K H - 1179	1.8	-	3.8	2.3	1.0	2.4	2.2	1.0	2.3	2.3	1.9	2.8
2	J H - 10858	1.5	2.7	3.0	2.5	1.5	2.4	2.2	1.0	1.8	3.3	2.0	2.6
3	M H 04 - 2	2.5	3.7	3.5	2.0	3.2	3.1	3.0	1.2	2.1	2.0	1.8	2.4
4	A H - 31410	2.2	3.7	4.0	2.5	3.0	3.3	3.1	1.7	2.9	2.5	2.3	3.1
5	TUX POOL C7	1.8	3.0	3.0	2.3	1.5	2.4	2.3	1.5	2.8	2.8	2.3	2.4
6	J K M H - 51	1.3	2.7	2.5	3.3	1.5	2.5	2.3	1.2	2.8	4.0	2.6	2.5
7	G K - 3050	1.3	2.3	3.5	3.0	1.8	2.7	2.4	1.2	2.6	3.3	2.3	2.8
8	PARAS JANAK	1.7	3.0	3.0	2.8	1.5	2.6	2.4	1.2	3.9	2.8	2.6	3.1
9	C - 555	2.0	3.0	3.0	3.0	2.3	2.8	2.7	1.2	3.4	3.3	2.6	2.6
10	B I O - 31030	1.3	3.0	3.8	2.3	1.5	2.6	2.4	1.2	2.9	3.0	2.3	2.8
11	X - 2406	1.3	3.0	3.3	2.8	2.2	2.8	2.5	1.2	3.0	3.3	2.5	2.8
12	N E C H - 129	2.0	3.0	2.8	2.0	2.3	2.5	2.4	1.0	1.5	2.5	1.7	2.5
13	KAVERI - 244	1.8	3.0	3.3	2.8	2.5	2.9	2.7	1.5	3.6	2.8	2.6	3.0
14	M C H - 24	1.0	2.7	2.0	3.8	1.2	2.4	2.1	1.0	3.0	3.8	2.6	2.8
CHECKS:													
15	BIO - 9681	1.7	3.0	3.3	2.3	1.8	2.6	2.4	1.3	2.6	2.8	2.2	2.6
16	PARBHAT	1.8	3.0	3.3	2.8	2.3	2.8	2.6	1.3	2.4	3.0	2.2	2.5
17	SEEDTEC - 2324	1.7	3.0	3.0	3.5	1.7	2.8	2.6	1.2	2.4	3.5	2.3	2.6
18	PRO - 311	1.7	3.0	3.0	2.8	2.5	2.8	2.6	1.3	1.8	3.0	2.0	2.3
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													

TABLE NO. 2 (CONT.)

SI	NO PEDIGREE	STAND AT HARVEST										HYDE		KANC	
		BAJA	LU DH	KARN	KAMP	VARA	JASH	AMBI	JKAG	BAKA	KARI				
1	H K H - 1179	24	31	23	35	28	32	33	45	18	35				
2	J H - 10858	27	35	28	33	36	32	31	48	32	42				
3	M H 04 - 2	27	41	25	35	38	32	37	47	31	42				
4	A H - 31410	29	37	24	35	29	32	33	43	34	40				
5	TUX POOL C7	27	37	26	34	36	31	36	45	34	39				
6	J K M H - 51	26	36	25	33	31	32	36	48	33	40				
7	G K - 3050	30	37	26	33	31	29	36	47	32	39				
8	PARAS JANAK	29	31	23	33	33	33	29	41	27	39				
9	C - 555	28	37	26	32	39	32	35	45	31	41				
10	B I O - 31030	29	39	23	32	37	32	38	50	32	39				
11	X - 2406	27	37	25	34	31	32	37	45	32	39				
12	N E C H - 129	28	40	26	33	36	32	36	47	35	41				
13	KAVERI - 244	28	39	25	33	35	31	35	46	36	40				
14	M C H - 24	30	38	29	35	36	32	37	49	35	39				
CHECKS:															
15	BIO - 9681	28	39	28	33	33	32	34	46	33	36				
16	PARBHAT	27	36	22	34	35	31	34	48	34	41				
17	SEEDTEC - 2324	28	39	28	33	30	32	38	46	32	40				
18	PRO - 311	30	39	24	33	32	31	37	49	36	40				
MEAN LOCATION															
	C.D. AT 5%	3.9	3.4	3.1	2.3	5.8	2.6	4.3	2.2	4.6	4.9				
	C.V. %	8.4	6.5	7.6	4.2	10.4	5.9	8.6	3.4	10.3	8.9				
	F (Prob)	.317	.000	.000	.149	.006	.702	.039	.000	.000	.285				

TABLE NO. 2 (CONT.)

Sl NO	PEDIGREE	STAND AT HARVEST							OV'L MEAN		
		ARBH	BANG PROA	BANG MONS	ZUAR	MAND	COIM	KOLH		UDAI	CHHI
1	H K H - 1179	28	-	39	36	31	25	41	31	32	31
2	J H - 10858	35	31	40	33	28	27	42	31	37	34
3	M H 04 - 2	46	33	40	35	34	28	41	37	33	36
4	A H - 31410	40	33	37	33	36	27	40	37	36	34
5	TUX POOL C7	39	32	40	35	33	27	38	34	42	35
6	J K M H - 51	42	31	40	37	30	29	40	31	39	35
7	G K - 3050	39	31	39	35	35	28	39	33	41	35
8	PARAS JANAK	28	33	40	29	31	26	37	24	35	31
9	C - 555	41	32	39	33	34	29	40	33	37	35
10	B I O - 31030	39	33	40	38	31	29	43	35	40	36
11	X - 2406	36	32	40	29	32	26	32	31	34	33
12	N E C H - 129	47	34	41	39	32	30	44	41	39	37
13	KAVERI - 244	45	32	41	38	30	30	42	37	39	36
14	M C H - 24	46	34	40	38	34	28	39	39	33	36
CHECKS:											
15	BIO - 9681	43	30	39	38	28	29	41	30	41	35
16	PARBHAT	37	34	36	34	30	27	42	34	34	34
17	SEEDTEC - 2324	42	32	39	39	32	30	36	40	38	35
18	PRO - 311	41	23	41	40	31	29	44	34	37	35
MEAN LOCATION											
C.D. AT 5%		5.6	5.8	2.8	3.9	6.8	3.1	8.5	6.2	6.6	-
C.V. %		10.1	11.2	5.1	7.9	13.0	7.8	13.1	13.2	12.6	-
F (Prob)		.000	.356	.002	.000	.501	.045	.261	.000	.112	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 7 ENTRIES)

TABLE NO. 3

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT
 BAJAURA, KANGRA, LUDHIANA, KARNAL, VARANASI, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA,
 JK SEED HYDERABAD, KAVERI SEED'S HYDERABAD, KARIMNAGAR, MONSANTO BANGLORE, COIMBATORE,
 UDAIPUR, SONA SEED AHMADABAD, CHHINDIWARA IN IET, TRIAL NO. TR62A DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		BAJA						ZN 1						ZN 2	
		R	KANG	R	MEAN	R	LUDH	R	KARN	R	MEAN	R	MEAN	R	R
1	A H - 31417	4897	11	4045	20	4471	16	4878	17	5396	14	5137	16		
2	V - 34	4515	18	4293	18	4404	19	4784	18	5660	11	5222	15		
3	L - 180	5165	8	3773	22	4469	17	3753	22	5809	7	4781	21		
4	CHH - 219	6036	3	4561	13	5298	8	4657	20	4925	20	4791	20		
5	J H - 10877	5188	7	4525	14	4856	13	7832	1	5810	6	6821	1		
6	L - 186	4368	20	4363	17	4366	21	4746	19	5075	17	4911	19		
7	H K H - 1191	4473	19	4379	16	4426	18	3953	21	5116	15	4534	22		
8	M H - 03-2	4653	17	6036	6	5344	7	5576	11	5710	8	5643	11		
9	V - 32	4798	13	4443	15	4620	15	5956	9	6233	3	6095	4		
10	A H - 31406	3347	22	4817	12	4082	22	5000	15	5647	12	5323	13		
11	X - 85	6219	2	6228	4	6223	2	6393	5	6811	1	6602	2		
12	P M Z - 150	3764	21	6672	3	5218	9	5149	14	4870	22	5009	17		
13	J K M H - 702	6222	1	5838	7	6030	3	6645	3	5537	13	6091	5		
14	S M H - 3103	5852	5	6102	5	5977	4	6141	6	5115	16	5628	12		
CHECKS:															
15	NAVJOT	4791	14	3981	21	4386	20	4915	16	4907	21	4911	18		
16	KH 510	4763	15	5541	8	5152	11	5432	12	5071	18	5251	14		
	MEAN YIELD=	5014		5185		5100		5550		5574		5562			
	MEAN STAND	28		22		25		38		26		32			
	C.D. AT 5%	922		1255		1088		1487		781		1134			
	C.V. %	11.17		14.69		-		18.98		8.51		-			
	F (Prob)	.000		.000		-		.000		.000		-			
	PLOT SIZE=	4.80		3.60		-		5.20		4.50		-			
AGRONOMY DATA:															
	SOWING DATE (2004)	26-06		20-06		-		27-06		20-06		-			
	HARVEST DATE (2004)	29-10		31-09		-		4-10		24-09		-			
	IRRIGATION Nos	2		-		-		7		4		-			
	FERTILIZER APPLIED	N 120		80		-		150		150		-			
		P 60		60		-		60		60		-			
		K 40		40		-		30		40		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%): PANT 32.3% : DHOL 26.5% :
 HYDE 24.3% : ARBH 22.4% : MAND 20.3% : KOLH 25.6%

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE															
		VARA	R	JASH	R	AMBI	R	MEAN	ZN 3	BAKA	R	JKSE	R	KAVE	R	KARI	R
1	A H - 31417	5026	16	3319	14	5257	11	4534	14	7657	21	6580	18	4278	16	3105	20
2	V - 34	4739	19	3419	13	3879	21	4012	19	8102	14	7672	10	4622	14	3763	15
3	L - 180	3872	22	3443	11	4238	18	3851	20	7998	17	5291	22	3348	22	2624	22
4	CHH - 219	5491	10	3190	16	3943	19	4208	17	8466	10	6139	19	4698	12	3672	16
5	J H - 10877	5394	13	4180	3	4686	16	4753	12	8704	7	8235	9	5911	7	5034	3
6	L - 186	4355	21	2918	21	3517	22	3597	22	8272	12	7006	17	4008	19	3252	18
7	H K H - 1191	5109	14	3089	18	5040	14	4413	15	8082	15	5536	21	4001	20	3869	12
8	M H - 03-2	5493	9	4065	5	5440	9	4999	7	7547	22	7355	14	4635	13	4083	8
9	V - 32	5082	15	3496	10	4400	17	4326	16	8714	6	7250	16	4272	17	3144	19
10	A H - 31406	4657	20	3184	17	4701	15	4181	18	7815	20	7273	15	4174	18	2879	21
11	X - 85	5759	7	3635	8	5462	8	4952	8	9358	1	7466	13	5372	10	4800	6
12	P M Z - 150	4926	17	3562	9	5239	13	4576	13	7980	18	9586	1	5954	5	3877	11
13	J K M H - 702	6301	3	2993	20	6668	1	5321	5	7878	19	9269	3	6805	1	3971	10
14	S M H - 3103	5524	8	4435	2	5681	5	5213	6	9047	3	8401	7	5925	6	5229	2
CHECKS:																	
15	NAVJOT	4792	18	2635	22	3937	20	3788	21	8823	4	5654	20	3524	21	4627	7
16	KH 510	5841	5	2995	19	5477	7	4771	11	8784	5	7488	12	4445	15	3866	13
	MEAN YIELD=	5366		3561		5104		4677		8366		7639		5066		4018	
	MEAN STAND	38		28		35		34		30		47		39		35	
	C.D. AT 5% =	546		346		1082		658		1247		1889		784		825	
	C.V. % =	7.21		6.89		15.01		-		10.55		17.51		10.95		14.54	
	F (Prob)	.000		.000		.000		-		.951		.000		.000		.000	
	PLOT SIZE=	7.50		6.00		7.50		-		6.00		6.00		6.00		6.00	
AGRONOMY DATA:																	
	SOWING DATE(2004)	16-06		8-07		6-07		-		1-07		23-06		22-07		15-07	
	HARVEST DATE(2004)	14-09		25-10		-		-		23-10		3-11		15-11		3-11	
	IRRIGATION NOS	2		-		-		-		7		7		6		-	
	FERTILIZER APPLIED N	100		120		100		-		120		120		-		180	
	P	60		60		60		-		60		60		-		60	
	K	40		60		40		-		40		40		-		40	

TABLE NO. 3 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L									
		BANG		MONS		R		COIM		R		UDAI		R		AHAM		R		ZN 5		R	
1	A H - 31417	5217	21	4594	15	5239	21	3615	14	3769	22	5643	16	4342	17	4830	17	4342	17	4830	17	4830	17
2	V - 34	6074	17	4681	14	5819	14	3049	18	4201	7	5519	17	4257	18	4936	16	4257	18	4936	16	4936	16
3	L - 180	5113	22	3589	22	4661	22	2613	20	4213	6	4854	22	3893	22	4356	22	3893	22	4356	22	4356	22
4	CHH - 219	6701	16	4237	17	5652	15	2897	19	3951	14	5510	18	4119	19	4942	15	4119	19	4942	15	4942	15
5	J H - 10877	8585	6	6413	6	7147	6	4271	7	3909	18	9534	4	5905	5	6138	8	5905	5	6138	8	6138	8
6	L - 186	6026	18	4483	16	5508	17	3675	12	4086	10	6554	13	4772	13	4794	18	4772	13	4794	18	4794	18
7	H K H - 1191	7191	14	3787	20	5411	19	3092	17	4107	9	4966	21	4055	20	4737	20	4055	20	4737	20	4737	20
8	M H - 03-2	7427	12	5247	12	6049	13	4239	8	3928	17	5853	15	4673	14	5455	13	4673	14	5455	13	5455	13
9	V - 32	5342	20	4001	18	5454	18	3946	10	4390	1	5366	19	4567	15	5052	14	4567	15	5052	14	5052	14
10	A H - 31406	5439	19	3963	19	5257	20	3136	16	3944	16	6139	14	4406	16	4757	19	4406	16	4757	19	4757	19
11	X - 85	7545	10	6144	8	6781	9	4666	6	4058	13	9131	5	5952	4	6190	6	5952	4	6190	6	6190	6
12	P M Z - 150	8116	7	5816	9	6888	8	5659	1	4340	2	7919	11	5973	3	5839	10	5973	3	5839	10	5839	10
13	J K M H - 702	7619	9	6955	3	7083	7	3828	11	4082	12	8704	7	5538	10	6207	4	5538	10	6207	4	6207	4
14	S M H - 3103	9311	4	6867	4	7463	2	3189	15	3881	20	10940	1	6003	2	6352	2	6003	2	6352	2	6352	2
CHECKS:																							
15	NAVJOT	7462	11	3659	21	5625	16	2566	21	4268	5	5112	20	3982	21	4728	21	4268	5	5112	20	4728	21
16	KH 510	7900	8	5232	13	6286	12	4729	5	3853	21	8044	10	5542	9	5591	12	3853	21	8044	10	5591	12
	MEAN YIELD=	7473		5333		6316		3826		4075		7419		5106		5535		4075		7419		5535	
	MEAN STAND	40		28		37		33		33		38		35		34		33		38		34	
	C.D. AT 5%	1414		575		1122		706		563		1168		812		974		563		1168		974	
	C.V. %	13.40		7.63		-		13.07		9.78		11.15		-		-		9.78		11.15		-	
	F (Prob)	.000		.000		-		.000		.668		.000		-		-		.668		.000		-	
	PLOT SIZE=	7.50		4.80		-		6.00		5.00		5.60		-		-		5.00		5.60		-	
AGRONOMY DATA:																							
	SOWING DATE(2004)	20-07		29-06		-		1-07		12-07		30-06		-		-		12-07		30-06		-	
	HARVEST DATE(2004)	21-11		20-10		-		11-10		25-10		25-10		-		-		25-10		25-10		-	
	IRRIGATION NOS	13		8		-		-		2		-		-		-		2		-		-	
	FERTILIZER APPL.N	-		135		-		100		120		100		-		-		120		100		-	
	P	-		63		-		60		64		60		-		-		64		60		-	
	K	-		50		-		-		32		40		-		-		32		40		-	

TABLE NO. 3 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT									
		BAJA	KANG	ZN 1 MEAN	LUDH	KARN	ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN
1	A H - 31417	2.21	1.61	1.94	-	9.96	4.61	4.90	25.94	33.52	19.69
2	V - 34	-	7.84	0.41	-	15.34	6.34	-	29.72	-	5.92
3	L - 180	7.80	-	1.89	-	18.38	-	-	30.64	7.64	1.66
4	CHH - 219	25.99	14.57	20.81	-	0.36	-	14.60	21.04	0.15	11.08
5	J H - 10877	8.29	13.66	10.73	59.37	18.39	38.89	12.57	58.60	19.01	25.47
6	L - 186	-	9.60	-	-	3.42	-	-	10.73	-	-
7	H K H - 1191	-	10.00	0.92	-	4.25	-	6.63	17.20	28.01	16.49
8	M H - 03-2	-	51.63	21.85	13.46	16.36	14.91	14.64	54.23	38.15	31.97
9	V - 32	0.14	11.62	5.35	21.19	27.02	24.10	6.05	32.65	11.75	14.19
10	A H - 31406	29.80	21.01	-	1.73	15.07	8.39	-	20.80	19.39	10.36
11	X - 85	-	56.44	41.89	30.07	38.79	34.43	20.20	37.93	38.72	30.73
12	P M Z - 150	29.86	67.60	18.96	4.77	-	2.00	2.81	35.16	33.05	20.79
13	J K M H - 702	22.14	46.64	37.47	35.21	12.83	24.03	31.50	13.58	69.35	40.46
14	S M H - 3103	-	53.27	36.27	24.95	4.22	14.59	15.29	68.27	44.29	37.63
CHECKS:											
15	NAVJOT	-	-	-	-	-	-	-	-	-	-
16	KH 510	-	39.19	17.47	10.52	3.33	6.93	21.90	13.64	39.10	25.94

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT									
		KANC BAKA	HYDE JKSE	HYDE KAVE	KARI	BANG MONS	COIM	ZN 4 MEAN			
1	A H - 31417	-	16.38	21.41	-	-	25.56	-	-	-	3.45
2	V - 34	-	35.68	31.17	-	-	27.93	-	-	-	-
3	L - 180	-	-	-	-	-	-	-	-	-	-
4	CHH - 219	-	8.57	33.31	-	-	15.80	-	-	-	0.48
5	J H - 10877	-	45.65	67.75	8.79	15.05	75.27	-	-	-	27.06
6	L - 186	-	23.90	13.72	-	-	22.52	-	-	-	-
7	H K H - 1191	-	-	13.54	-	-	3.51	-	-	-	-
8	M H - 03-2	-	30.08	31.52	-	-	43.41	-	-	-	7.54
9	V - 32	-	28.22	21.23	-	-	9.34	-	-	-	-
10	A H - 31406	-	28.63	18.44	-	-	8.32	-	-	-	-
11	X - 85	6.06	69.54	52.44	3.74	1.11	67.91	-	-	-	20.55
12	P M Z - 150	-	63.93	68.96	-	8.76	58.96	-	-	-	22.45
13	J K M H - 702	-	48.58	93.10	12.99	2.10	90.08	-	-	-	25.92
14	S M H - 3103	2.54	48.58	68.13	-	24.77	87.68	-	-	-	32.68
CHECKS:											
15	NAVJOT	-	-	-	-	-	-	-	-	-	-
16	KH 510	-	32.44	26.13	-	5.87	42.99	-	-	-	11.75

TABLE NO. 3 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH 510							Zn 4 MEAN
		KANC BAKA	HYDE JKSE	HYDE KAVE	KARI	BANG MONS	COIM		
1	A H - 31417	-	-	-	-	-	-	-	-
2	V - 34	-	2.45	3.99	-	-	-	-	-
3	L - 180	-	-	-	-	-	-	-	-
4	CHH - 219	-	-	5.69	-	-	-	-	-
5	J H - 10877	-	9.98	32.99	30.20	8.67	22.57	13.70	-
6	L - 186	-	-	-	-	-	-	-	-
7	H K H - 1191	-	-	-	0.07	-	-	-	-
8	M H - 03-2	-	-	4.27	5.60	-	0.29	-	-
9	V - 32	-	-	-	-	-	-	-	-
10	A H - 31406	-	-	-	-	-	-	-	-
11	X - 85	6.54	-	20.86	24.16	-	17.42	7.88	-
12	P M Z - 150	-	28.01	33.95	0.27	2.73	11.17	9.58	-
13	J K M H - 702	-	23.78	53.09	2.71	-	32.93	12.68	-
14	S M H - 3103	3.00	12.19	33.30	35.23	17.86	31.25	18.73	-
15	NAVJOT	0.45	-	-	19.68	-	-	-	-
16	KH 510	-	-	-	-	-	-	-	-

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH 510							Zn 5 MEAN	OV/L MEAN
		UDAI	AHAM SONA	CHHI	ZN 5 MEAN					
1	A H - 31417	-	-	-	-	-	-	-	-	
2	V - 34	-	9.05	-	-	-	-	-	-	
3	L - 180	-	9.34	-	-	-	-	-	-	
4	CHH - 219	-	2.55	-	-	-	-	-	-	
5	J H - 10877	-	1.47	18.53	6.55	9.78	-	-	-	
6	L - 186	-	6.04	-	-	-	-	-	-	
7	H K H - 1191	-	6.59	-	-	-	-	-	-	
8	M H - 03-2	-	1.96	-	-	-	-	-	-	
9	V - 32	-	13.95	-	-	-	-	-	-	
10	A H - 31406	-	2.36	-	-	-	-	-	-	
11	X - 85	-	5.33	13.52	7.40	10.72	-	-	-	
12	P M Z - 150	19.67	12.65	-	7.78	4.44	-	-	-	
13	J K M H - 702	-	15.96	8.21	8.33	11.02	-	-	-	
14	S M H - 3103	-	0.73	36.01	-	13.61	-	-	-	
15	NAVJOT	-	10.77	-	-	-	-	-	-	
16	KH 510	-	-	-	-	-	-	-	-	

CHECKS:

TABLE NO. 3 (CONT.)

Sl NO	PEDIGREE	UNIFORMITY *										Zn 4 MEAN
		Zn 1 BAJA	VARA	JASH	AMBI	Zn 3 MEAN	HYDE JKSE	HYDE KAVE	KARI	BANG MONS	COIM	
1	A H - 31417	5	3	8	7	5	1.6	8	3	5	4	6
2	V L - 340	5	3	3	2	2	1.7	1	3	3	0	2
3	L HH - 218	5	3	0	2	2	1.7	1	5	3	0	2
4	J HH - 10877	5	3	0	2	2	1.7	1	0	3	0	2
5	L H - 186	5	3	0	2	2	1.7	1	0	3	0	2
6	J H - 1191	5	3	0	2	2	1.7	1	0	3	0	2
7	H - 03-2	5	3	0	2	2	1.7	1	0	3	0	2
8	H - 32 31406	5	3	0	2	2	1.7	1	0	3	0	2
9	H - 85	5	3	0	2	2	1.7	1	0	3	0	2
10	A - 150	5	3	0	2	2	1.7	1	0	3	0	2
11	X P L - 150 702	5	3	0	2	2	1.7	1	0	3	0	2
12	J S - 3103	5	3	0	2	2	1.7	1	0	3	0	2
13	M H - 3103	5	3	0	2	2	1.7	1	0	3	0	2
14	K H - 3103	5	3	0	2	2	1.7	1	0	3	0	2
15	CHECKS:											
16	NAVJOT	2	3	0	2	2	1.6	3	5	3	0	2
	KH 510	2	3	0	2	2	1.6	3	5	3	0	2
	MEAN LOCATION	2	3	0	2	2	1.6	3	5	3	0	2
	C.D. AT 5% =	2	3	0	2	2	1.6	3	5	3	0	2
	C.V. %	2	3	0	2	2	1.6	3	5	3	0	2
	F (Prob)	2	3	0	2	2	1.6	3	5	3	0	2

Sl NO	PEDIGREE	UNIFORMITY *										Zn 3 MEAN		
		Zn 1 AHAM	UDAI	Zn 5 MEAN	OV'L MEAN	BAJA	KANG	Zn 1 MEAN	LU DH	KARN	Zn 2 MEAN		VARA	JASH
1	A H - 31417	5	7	1	4	1	1.9	1	1	1	1	1	1	1
2	V L - 340	5	8	2	5	2	1.9	1	1	1	1	1	1	1
3	L HH - 218	5	8	2	5	2	1.9	1	1	1	1	1	1	1
4	J HH - 10877	5	8	2	5	2	1.9	1	1	1	1	1	1	1
5	L H - 186	5	8	2	5	2	1.9	1	1	1	1	1	1	1
6	J H - 1191	5	8	2	5	2	1.9	1	1	1	1	1	1	1
7	H - 03-2	5	8	2	5	2	1.9	1	1	1	1	1	1	1
8	H - 32 31406	5	8	2	5	2	1.9	1	1	1	1	1	1	1
9	H - 85	5	8	2	5	2	1.9	1	1	1	1	1	1	1
10	A - 150	5	8	2	5	2	1.9	1	1	1	1	1	1	1
11	X P L - 150 702	5	8	2	5	2	1.9	1	1	1	1	1	1	1
12	J S - 3103	5	8	2	5	2	1.9	1	1	1	1	1	1	1
13	M H - 3103	5	8	2	5	2	1.9	1	1	1	1	1	1	1
14	K H - 3103	5	8	2	5	2	1.9	1	1	1	1	1	1	1
15	CHECKS:													
16	NAVJOT	2	3	0	2	2	1.6	3	5	3	0	2	2	
	KH 510	2	3	0	2	2	1.6	3	5	3	0	2	2	
	MEAN LOCATION	2	3	0	2	2	1.6	3	5	3	0	2	2	
	C.D. AT 5% =	2	3	0	2	2	1.6	3	5	3	0	2	2	
	C.V. %	2	3	0	2	2	1.6	3	5	3	0	2	2	
	F (Prob)	2	3	0	2	2	1.6	3	5	3	0	2	2	

TABLE NO. 3 (CONT.)

Sl No	PEDIGREE	EAR No. / PLANT		H. turcicum		H. maydis		BLSB		OV/L	
		AHAM SONA	CHHI	ZN 1 BAJA	BANG MONS	ZN 1 BAJA	ZN 3 JASH	ZN 1 KANG	ZN 3 JASH	MEAN	MEAN
1	A H - 31417	1	1.00	0.99	2.3	1.1	3.5	1.7	6.6	2.2	0.64
2	V L - 34	1	0.93	0.99	3.3	1.1	3.7	1.1	2.2	2.2	2.2
3	L CH - 180	1	0.96	1.00	3.2	1.1	3.3	1.1	2.2	2.2	2.2
4	J L - 219	1	0.95	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
5	J L - 10877	1	0.92	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
6	J L - 186	1	0.98	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
7	J L - 1191	1	0.95	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
8	J L - 03-2	1	0.94	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
9	M V - 32	1	0.93	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
10	M V - 31406	1	0.93	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
11	M V - 85	1	0.93	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
12	M V - 150	1	0.93	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
13	M V - 702	1	0.93	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
14	M V - 3103	1	0.93	1.00	3.3	1.1	3.7	1.1	2.2	2.2	2.2
15	NAVJOT	1	0.95	1.00	3.3	1.1	3.2	1.1	2.2	2.2	2.2
16	MEAN LOCATION										
	C.D. AT 5%										
	C.V. (%)										
	F. (Prob)										

Sl No	PEDIGREE	STAND AT HARVEST		KANC HYDE		RANG MONS		COIM		AHAM SONA	
		BAJA	KANG	BAKA	JKSE	MONS	UDAI	CHHI	SONA	CHHI	
1	A H - 31417	22	22	41	50	41	34	9	6	40	40
2	V L - 34	22	22	41	48	41	34	9	6	40	40
3	L CH - 180	22	22	41	48	41	34	9	6	40	40
4	J L - 219	22	22	41	48	41	34	9	6	40	40
5	J L - 10877	22	22	41	48	41	34	9	6	40	40
6	J L - 186	22	22	41	48	41	34	9	6	40	40
7	J L - 1191	22	22	41	48	41	34	9	6	40	40
8	J L - 03-2	22	22	41	48	41	34	9	6	40	40
9	M V - 32	22	22	41	48	41	34	9	6	40	40
10	M V - 31406	22	22	41	48	41	34	9	6	40	40
11	M V - 85	22	22	41	48	41	34	9	6	40	40
12	M V - 150	22	22	41	48	41	34	9	6	40	40
13	M V - 702	22	22	41	48	41	34	9	6	40	40
14	M V - 3103	22	22	41	48	41	34	9	6	40	40
15	NAVJOT	22	22	41	48	41	34	9	6	40	40
16	MEAN LOCATION										
	C.D. AT 5%										
	C.V. (%)										
	F. (Prob)										

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 6 ENTRIES)

TABLE NO. 4
 PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT AT
 BAJAJURA, KANGRA, KARNAL, KANPUR, VARANASI, JASHIPUR, AMBICAPUR, BAKARAM KANCHAN GANGA,
 KAVERI SEEDS HYDERABAD, KARIMNAGAR, ARBHAVI, MONSANTO BANGLORE, MANDYA, COIMBATORE,
 UDAIPUR, IN IET, TRIAL NO. TR62B DURING KHARIF (2004)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						ZN 1		ZN 2			
		BAJA	K	KANG	R	MEAN	R	KARN	R	KANP	R	MEAN	R
1	M H - 03-1	4929	10	4287	21	4608	16	4832	16	6396	7	5614	14
2	V - 33	4715	14	6163	3	5439	10	4706	19	6847	2	5777	8
3	H K H - 1188	5581	6	5813	8	5697	4	4773	17	6514	5	5643	12
4	L - 185	4294	20	4884	16	4589	18	4119	23	5653	19	4886	22
5	E C - 3138	3850	22	5086	13	4468	20	5192	12	6399	6	5796	7
6	CHH - 218	4722	13	6251	2	5487	8	5904	4	6304	8	6104	3
7	A H - 31408	4216	21	3748	22	3982	23	5611	5	5936	16	5773	9
8	H K H - 1211	4879	11	3665	23	4272	21	4149	22	6809	3	5479	18
9	A H - 31403	4303	18	4673	18	4488	19	5271	9	5786	17	5529	16
10	P H S - 79 (WHITE)	4630	16	5837	7	5233	11	4872	15	5428	20	5150	20
11	P M Z - 139	3784	23	4652	19	4218	22	4227	21	5006	23	4617	23
12	M C H - 25	4310	17	5995	5	5152	13	5963	3	7079	1	6521	1
13	KAVERI - 2727	6498	1	5976	6	6237	1	5226	11	6104	13	5665	11
CHECKS:													
14	NAVJOT	4301	19	4909	15	4605	17	5131	13	6063	14	5597	15
15	KH 510	4750	12	4912	14	4831	15	5274	8	6164	11	5719	10
	MEAN YIELD=	4954		5271		5112		5154		6085		5620	
	MEAN STAND	28		18		23		24		35		30	
	C.D. AT 5%	920		1560		1240		422		732		577	
	C.V. %	11.29		18.00		-		4.98		7.32		-	
	F (Prob)	.000		.000		-		.000		.000		-	
	PLOT SIZE=	4.80		3.60		-		4.50		6.00		-	
AGRONOMY DATA:													
	SOWING DATE (2004)	26-06		21-06		-		20-06		24-06		-	1
	HARVEST DATE (2004)	27-10		-		-		22-04		22-04		-	1
	IRRIGATION NOS	2		-		-		3		-		-	
	FERTILIZER APPLIED	N 120		80		-		150		80		-	
		P 60		60		-		60		40		-	
		K 40		40		-		40		40		-	

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%):
 DHOL 34.9% ; KUSH 22.0% ; HYDE 23.5% ; KOLH 24.0% ; CHHI 28.2%
 LUDH 23.6% ; PANT 32.1%

TABLE NO. 4 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE													
		VARA			JASH			AMBI			KANC				
		R	R	R	R	R	R	R	R	R	R	R	R		
1	M H - 03-1	5033	17	3566	16	5394	14	4664	16	7604	21	3962	21	4243	18
2	V - 33	5183	15	3910	8	5547	12	4880	14	8098	17	4154	18	4731	14
3	H K H - 1188	5311	14	3738	12	5761	11	4936	12	8347	16	5330	13	5807	7
4	L - 185	4947	18	3770	11	4764	23	4494	19	7656	20	4015	19	3854	21
5	E C - 3138	5390	12	3926	7	5355	15	4890	13	8508	14	4830	16	4581	15
6	CHH - 218	5423	11	3573	15	4984	20	4660	17	8693	13	5096	14	4544	16
7	A H - 31408	4738	20	3208	21	4769	22	4238	23	7547	23	3179	23	3695	23
8	H K H - 1211	4612	21	3404	17	6194	8	4737	15	7960	18	4250	17	5196	13
9	A H - 31403	4088	23	3782	10	4855	21	4241	22	8997	10	3886	22	3844	22
10	P H 8 - 79 (WHITE)	6391	7	3075	23	6020	10	5162	9	9329	7	4885	15	5676	9
11	P M Z - 139	4535	22	3186	22	5091	18	4270	21	8868	12	5358	12	5724	8
12	M C H - 25	7538	1	4343	4	6670	6	6184	3	10148	1	6721	2	8775	1
13	KAVERI - 2727	6827	4	4431	2	7616	1	6291	2	9345	6	7548	1	5916	4
CHECKS:															
14	NAVJOT	4747	19	3397	18	5008	19	4384	20	7725	19	3984	20	4122	20
15	KH 510	5372	13	3245	20	5263	16	4627	18	8943	11	5377	11	5660	10
	MEAN YIELD=	5680		3754		5894		5109		8718		5195		5224	
	MEAN STAND	38		30		37		35		30		40		34	
	C.D. AT 5% =	495		302		1012		603		992		819		805	
	C.V. % =	5.30		5.71		12.17		-		8.06		11.18		10.92	
	F (Prob)	.000		.000		.000		-		.000		.000		.000	
	PLOT SIZE=	7.50		6.00		7.50		-		6.00		6.00		6.00	
AGRONOMY DATA:															
	SOWING DATE(2004)	6-06		8-07		6-07		-		1-07		22-07		15-07	
	HARVEST DATE(2004)	5-09		25-10		-		-		22-10		15-11		10-11	
	IRRIGATION NOS	2		-		-		-		7		6		-	
	FERTILIZER APPLIED N	100		120		100		-		120		-		150	
	P	60		60		60		-		60		-		60	
	K	40		60		40		-		40		-		40	

TABLE NO. 4 (CONT.)

SL NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 4		ZN 5		OV'L	
		ARBH	R	MONS	BANG	MAND	R	COIM	R	MEAN	R	UDAI	R	MEAN	R	MEAN	
1	M H - 03-1	5486	19	5747	18	4543	20	4405	20	5141	21	3775	16	4947	20	5236	17
2	V - 33	5302	21	4863	22	5158	12	4241	21	5221	19	4926	10	5236	17	5575	12
3	H K H - 1188	6165	14	5495	20	5673	9	4748	16	5938	13	4569	12	5575	12	4865	21
4	L - 185	5597	17	5619	19	4909	14	4476	19	5161	20	4420	14	4865	21	5346	14
5	E C - 3138	6430	11	6854	12	4713	17	4599	17	5788	16	4485	13	5346	14	5420	13
6	CHH - 218	6199	13	6701	13	4378	22	5113	15	5818	14	3422	20	5420	13	4545	23
7	A H - 31408	4646	23	5467	21	3839	23	3956	23	4619	23	3620	18	4545	23	4964	19
8	H K H - 1211	5666	15	5880	17	4498	21	5378	14	5547	17	1918	23	4964	19	5024	18
9	A H - 31403	5615	16	5910	16	4681	18	4584	18	5360	18	5082	7	5024	18	5893	9
10	P H S - 79 (WHITE)	7150	5	7913	9	6722	4	6857	5	6933	8	3609	19	5893	9	5310	15
11	P M Z - 139	6281	12	5965	15	5579	10	6563	8	6334	11	4827	11	5310	15	7328	1
12	M C H - 25	9182	1	12466	1	7093	1	8526	1	8987	1	5110	6	7328	1	6806	2
13	KAVERI - 2727	6925	9	10694	2	6943	2	7083	4	7779	2	4953	9	6806	2		
CHECKS:																	
14	NAVJOT	4727	22	4641	23	4744	16	4054	22	4857	22	3282	21	4722	22	5732	11
15	KH 510	6782	10	8301	8	4901	15	6012	11	6568	10	5023	8	5732	11	5700	
	MEAN YIELD=	6367		7471		5415		5803		6313		4521		5700			
	MEAN STAND	41		40		32		29		35		34		33			
	C.D. AT 5%	1113		1220		1697		653		1043		826		905			
	C.V. %	12.39		11.58		19.05		7.97		-		12.95		-			
	F (Prob)	.000		.000		.006		.000		-		.000		-			
	PLOT SIZE=	7.50		7.50		7.00		4.80		-		6.00		-			
AGRONOMY DATA:																	
	SOWING DATE (2004)	5-07		20-07		37-07		30-06		-		1-07		-			
	HARVEST DATE (2004)	2-12		22-11		9-12		20-10		-		4-10		-			
	IRRIGATION NOS	8		13		6		8		-		-		-			
	FERTILIZER APPLIED	N 150		-		150		135		-		100		-			
		P 75		-		75		63		-		60		-			
		K 38		-		40		50		-		-		-			

TABLE NO. 4 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT									
		BAJA	KANG	ZN 1 MEAN	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN
1	M H - 03-1	14.62	-	0.07	-	5.50	0.31	6.01	4.98	7.71	6.39
2	V - 33	9.63	25.54	18.11	-	12.94	3.22	9.17	15.09	10.77	11.31
3	H K H - 1188	29.78	18.41	23.72	-	7.45	0.84	11.86	10.04	15.04	12.60
4	L - 185	-	-	-	-	-	-	4.21	10.97	-	2.50
5	E C - 3138	-	3.60	-	1.20	5.55	3.56	13.53	15.58	6.93	11.55
6	CHH - 218	9.80	27.33	19.14	15.07	3.98	9.06	14.23	5.19	-	6.29
7	A H - 31408	-	-	-	9.35	-	3.15	-	-	-	-
8	H K H - 1211	13.45	-	-	-	12.32	-	-	0.19	23.69	8.04
9	A H - 31403	0.05	-	-	2.73	-	-	-	11.32	-	-
10	P H S - 79 (WHITE)	7.65	18.90	13.65	-	-	-	34.62	-	20.21	17.74
11	P M Z - 139	-	-	-	-	-	-	-	-	1.65	-
12	M C H - 25	0.21	22.11	11.89	16.22	16.76	16.51	58.78	27.83	33.19	41.04
13	KAVERI - 2727	51.09	21.73	35.44	1.85	0.68	1.22	43.80	30.44	52.08	43.50
CHECKS:											
14	NAVJOT	-	-	-	-	-	-	-	-	-	-
15	KH 510	10.45	0.06	4.91	2.80	1.68	2.19	13.15	-	5.10	5.53

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT									
		BAKA	KAVE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
1	M H - 03-1	-	-	2.94	16.05	23.83	-	8.66	5.86	15.01	4.75
2	V - 33	4.83	4.27	14.79	12.18	4.78	8.72	4.62	7.50	50.07	10.89
3	H K H - 1188	8.06	33.79	40.89	30.42	18.40	19.57	17.13	22.26	39.18	18.06
4	L - 185	-	0.77	-	18.40	21.08	3.47	10.42	6.26	34.67	3.02
5	E C - 3138	10.13	21.23	11.14	36.03	47.68	-	13.43	19.17	36.63	13.22
6	CHH - 218	12.53	27.91	10.24	31.15	44.39	-	26.13	19.79	4.26	14.78
7	A H - 31408	-	-	-	-	17.81	-	-	-	10.28	-
8	H K H - 1211	3.04	6.67	26.07	19.86	26.69	-	32.66	14.21	-	5.12
9	A H - 31403	16.47	-	-	18.79	27.35	-	13.06	10.36	54.83	6.38
10	P H S - 79 (WHITE)	20.76	22.62	37.71	51.27	70.52	41.69	69.14	42.76	9.96	24.79
11	P M Z - 139	14.79	34.50	38.87	32.89	28.53	17.60	61.89	30.42	47.05	12.44
12	M C H - 25	31.36	68.71	112.90	94.25	168.62	49.51	110.32	85.05	55.67	55.18
13	KAVERI - 2727	20.97	89.45	43.54	46.51	130.45	46.34	74.71	60.18	50.90	44.12
CHECKS:											
14	NAVJOT	-	-	-	-	-	-	-	-	-	-
15	KH 510	15.76	34.98	37.31	43.47	78.88	3.31	48.31	35.24	53.04	21.38

TABLE NO. 4 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KH 510										Zn 3 MEAN
	BAJA	KANG	ZN 1 MEAN	KARN	KANP	ZN 2 MEAN	VARA	JASH	AMBI		
1 M H - 03-1	3.77	-	-	-	3.76	-	-	9.90	2.49	0.82	
2 V - 33	-	25.47	12.58	-	11.07	1.00	-	20.50	5.40	5.48	
3 H K H - 1188	17.50	18.34	17.92	-	5.67	-	-	15.20	9.46	6.70	
4 L - 185	-	-	-	-	-	-	-	16.17	-	-	
5 E C - 3138	-	3.54	-	-	3.81	1.33	0.34	21.01	1.74	5.70	
6 CHH - 218	-	27.25	13.56	11.93	2.26	6.72	0.96	10.12	-	0.73	
7 A H - 31408	-	-	-	6.37	-	0.94	-	-	-	-	
8 H K H - 1211	2.71	-	-	-	10.46	-	-	4.89	17.69	2.38	
9 A H - 31403	-	-	-	-	-	-	-	16.54	-	-	
10 P H S - 79 (WHITE)	-	18.82	8.32	-	-	-	18.98	-	14.38	11.57	
11 P M Z - 139	-	-	-	-	-	-	-	-	-	-	
12 M C H - 25	-	22.04	6.65	13.05	14.83	14.01	40.33	33.83	26.73	33.65	
13 KAVERI - 2727	36.79	21.66	29.10	-	-	-	27.09	36.57	44.71	35.99	
CHECKS:											
14 NAVJOT	-	-	-	-	-	-	-	4.69	-	-	
15 KH 510	-	-	-	-	-	-	-	-	-	-	

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KH 510										Zn 4 MEAN	Zn 5 UDAI	OV'L MEAN
	KANC	BAKA	KAVE	KARI	ARBH	BANG MONS	MAND	COIM					
1 M H - 03-1	-	-	-	-	-	-	-	-	-	-	-	-	-
2 V - 33	-	-	-	2.61	-	-	5.23	-	-	-	-	-	-
3 H K H - 1188	-	-	-	-	-	-	15.74	-	-	-	-	-	-
4 L - 185	-	-	-	-	-	-	0.15	-	-	-	-	-	-
5 E C - 3138	-	-	-	-	-	-	-	-	-	-	-	-	-
6 CHH - 218	-	-	-	-	-	-	-	-	-	-	-	-	-
7 A H - 31408	-	-	-	-	-	-	-	-	-	-	-	-	-
8 H K H - 1211	-	-	-	-	-	-	-	-	-	-	-	-	-
9 A H - 31403	0.61	-	-	-	-	-	-	-	-	-	1.17	-	2.81
10 P H S - 79 (WHITE)	4.32	-	-	0.29	5.44	-	37.15	14.05	5.56	-	-	-	-
11 P M Z - 139	-	-	-	1.14	-	-	13.82	9.16	-	-	-	-	-
12 M C H - 25	13.48	24.99	55.05	35.39	50.17	44.72	41.81	41.81	36.83	1.71	-	-	27.84
13 KAVERI - 2727	4.49	40.36	4.54	2.12	28.83	41.65	17.80	17.80	18.44	-	-	-	18.73
CHECKS:													
14 NAVJOT	-	-	-	-	-	-	-	-	-	-	-	-	-
15 KH 510	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE NO. 4 (CONT.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST										OV'L MEAN
		VARA	JASH	ZN 3 MEAN	KAVE	ARBH	BANG MONS	MAND	ZN 4 MEAN	ZN 5 UDAL		
1	M H - 03-1	30.3	16.5	4.2	1.2	16.5	8.3	3.8	2.3	1.5	16.3	22.7
2	H - 33	33.6	19.8	2.6	3.0	18.7	3.3	2.9	2.2	3.3	14.1	22.2
3	K - 185	32.4	16.7	4.2	3.3	17.6	3.3	2.0	2.3	5.5	14.4	22.2
4	H - 138	32.9	17.8	2.7	3.0	16.9	3.4	0.7	2.3	3.0	14.9	22.3
5	L - C	33.7	18.4	2.5	3.1	16.6	3.4	0.4	2.2	3.0	14.5	22.3
6	CHH	33.5	18.8	3.5	3.0	16.7	3.1	0.9	2.2	3.0	14.5	22.3
7	A - H	33.5	18.8	1.9	3.1	16.7	3.1	0.4	2.2	3.0	14.5	22.3
8	H - S	33.5	18.8	5.5	3.1	16.7	3.1	0.9	2.2	3.0	14.5	22.3
9	A - H	33.5	18.8	3.9	3.1	16.7	3.1	0.4	2.2	3.0	14.5	22.3
10	H - S (WHITE)	33.5	18.8	3.6	3.1	16.7	3.1	0.9	2.2	3.0	14.5	22.3
11	A - H	33.5	18.8	2.6	3.1	16.7	3.1	0.4	2.2	3.0	14.5	22.3
12	P - M	33.5	18.8	2.6	3.1	16.7	3.1	0.4	2.2	3.0	14.5	22.3
13	M - C	33.5	18.8	2.6	3.1	16.7	3.1	0.4	2.2	3.0	14.5	22.3
14	NAVJOT	32.7	17.9	3.2	3.0	17.8	6.3	3.1	2.3	9.3	14.5	22.3
15	NAVJOT LOCATION AT 5% =	35.0	18.4	2.0	3.0	18.0	2.4	1.8	2.2	1.4	15.0	22.3

SI NO	PEDIGREE	PLANT ASPECT *										OV'L MEAN			
		BAJA	KANP	VARA	JASH	AMBI	ZN 3 MEAN	KAVE	KARI	ARBH	BANG MONS		MAND	COIM	ZN 4 MEAN
1	M H - 03-1	7.8	3.7	0.5	0.0	4.6	1.4	4.5	5.5	8.8	3.8	4.4	0.0	6.8	9.6
2	H - 33	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
3	K - 185	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
4	H - 138	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
5	L - C	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
6	CHH	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
7	A - H	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
8	H - S	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
9	A - H	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
10	H - S (WHITE)	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
11	A - H	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
12	P - M	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
13	M - C	2.2	3.3	1.1	2.2	4.6	1.4	5.8	5.5	8.8	3.8	4.4	0.0	6.8	9.6
14	NAVJOT	8.5	3.3	5.0	0.8	3.4	6.5	5.3	3.8	0.0	5.0	3.4	0.0	3.6	8.1
15	NAVJOT LOCATION AT 5% =	1.7	3.0	0.6	1.0	3.4	6.5	5.3	3.8	0.0	5.0	3.4	0.0	3.6	8.1

TABLE NO. 4 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *		VARA	JASH	AMBI	ZN 3 MEAN	KAVE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	ZN 5 UDAI	OV/L MEAN
		ZN 1 BAJA	ZN 2 KANE													
1	M H - 03-1	5	0	3	8	7	5	3	5	3	8	0	3	6	1	6
2	V H - 1188	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
3	K - 185	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
4	L - 3138	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
5	E - 31408	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
6	C - 314211	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
7	CH - 31403 (WHITE)	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
8	A H - 139	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
9	K H - 125	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
10	A P - 2727	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
11	M C -	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
12	KAVERI	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
13	CHECKS:	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
14	NAVJOT	7	0	3	8	5	3	3	3	3	2	3	4	3	3	3
15	KH 510	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
	MEAN LOCATION	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
	C.D. AT 5% =	12	0	3	3	5	3	2	3	3	2	3	3	2	2	2
	C.V. % =	1	0	3	3	5	3	2	3	3	2	3	3	2	2	2
	F (Prob)	0	47	0	0	0	17	0	0	0	0	1	0	0	0	0

SI NO	PEDIGREE	HUSK COVER *		VARA	JASH	AMBI	ZN 3 MEAN	KAVE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	ZN 5 UDAI	OV/L MEAN
		ZN 1 BAJA	ZN 2 KANE													
1	M H - 03-1	3	3	8	8	5	4	3	3	3	5	3	3	4	4	5
2	V H - 1188	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
3	K - 185	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
4	L - 3138	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
5	E - 31408	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
6	C - 314211	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
7	CH - 31403 (WHITE)	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
8	A H - 139	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
9	K H - 125	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
10	A P - 2727	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
11	M C -	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
12	KAVERI	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
13	CHECKS:	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
14	NAVJOT	7	0	3	3	5	3	2	3	3	2	3	4	3	3	3
15	KH 510	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
	MEAN LOCATION	2	3	2	3	5	3	2	3	3	2	3	3	2	2	2
	C.D. AT 5% =	11	0	3	3	5	3	2	3	3	2	3	3	2	2	2
	C.V. % =	1	40	0	0	0	259	0	0	0	0	1	0	0	0	0
	F (Prob)	0	31	0	0	0	3	0	0	0	0	786	0	0	0	0

TABLE NO. 4 (CONT.)

SI NO	PEDIGREE	UNIFORMITY *		VARA	JASH	AMBI	ZN 3 MEAN	KAVE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	ZN 5 UDAI	OV'L MEAN
		ZN 1	ZN 2													
1	M H 03-1	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
2	H 33	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
3	H 185	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
4	K 138	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
5	C 118	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
6	H 1211	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
7	H 1408	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
8	A H 31403 (WHITE)	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
9	A H 31403	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
10	P H 1379	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
11	P M C 125	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
12	M H 2727	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
13	CHECKS:															
14	NAVJOT	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
15	KH 510	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
	MEAN LOCATION	2	7	8	5	3	5	1	5	3	3	3	4	2	4	7
	C.V. AT 5%	1	24	0	0	1	0	0	0	1	0	0	0	0	0	0
	F (Prob)	1	24	0	0	1	0	0	0	1	0	0	0	0	0	0

SI NO	PEDIGREE	PLANT HEIGHT (cm)		ZN 2 MEAN	VARA	JASH	AMBI	ZN 3 MEAN
		BAJA	KANG					
1	M H 03-1	147	22	183	8	5	3	5
2	H 33	162	22	191	8	5	3	5
3	H 185	167	22	191	8	5	3	5
4	K 138	167	22	191	8	5	3	5
5	C 118	167	22	191	8	5	3	5
6	H 1211	167	22	191	8	5	3	5
7	H 1408	167	22	191	8	5	3	5
8	A H 31403 (WHITE)	167	22	191	8	5	3	5
9	A H 31403	167	22	191	8	5	3	5
10	P H 1379	167	22	191	8	5	3	5
11	P M C 125	167	22	191	8	5	3	5
12	M H 2727	167	22	191	8	5	3	5
13	CHECKS:							
14	NAVJOT	167	22	191	8	5	3	5
15	KH 510	167	22	191	8	5	3	5
	MEAN LOCATION	167	22	191	8	5	3	5
	C.V. AT 5%	1	24	0	0	1	0	0
	F (Prob)	1	24	0	0	1	0	0

TABLE NO. 4 (CONT.)

SL NO	PEDIGREE	EAR HEIGHT (cm)				BANG MONS	MAND	COIM	ZIN 4 MEAN	ZIN 5 UDAI	OV' L MEAN	
		KANC BAKA	KAVE	KARI	BANG MONS							
1	M H - 03-1	65	77	82	114	105	77	87	96	86		
2	H - 33	73	77	74	114	106	78	86	109	90		
3	K - 1188	70	92	80	112	103	83	89	101	90		
4	L - 138	70	81	80	113	103	83	89	101	90		
5	E - 31	76	87	89	113	103	83	89	101	90		
6	C - 1138	63	87	72	112	106	75	84	104	87		
7	A - 1408	64	75	72	114	106	75	84	104	87		
8	H - 31	74	83	81	113	106	75	84	104	87		
9	K - 1211	72	87	75	113	106	75	84	104	87		
10	A - 1403 (WHITE)	75	81	81	114	109	76	83	105	90		
11	H - 31	72	80	74	114	109	76	83	105	90		
12	P - 179	80	114	74	116	99	190	106	193	103		
13	M KAVERI - 2727	71	84	81	112	99	190	106	193	103		
CHECKS:												
14	NAVJOT	78	84	81	123	97	75	82	91	86		
15	KH 510	68	78	76	120	101	83	86	96	86		
MEAN LOCATION												
C.D. AT 5% =												
C.V. =												
F (Prob) =												
BAR NO. / PLANT												
SL NO	PEDIGREE	KANG	VARA	AMBI	KANC BAKA	KAVE	KARI	BANG MONS	MAND	COIM	UDAI	OV' L MEAN
1	M H - 03-1	07	99	08	00	12	05	01	92	08	98	02
2	H - 33	06	00	10	00	10	09	00	94	00	02	98
3	K - 1188	06	03	06	00	10	09	00	94	00	02	98
4	L - 138	00	03	06	00	10	09	00	94	00	02	98
5	E - 31	00	03	06	00	10	09	00	94	00	02	98
6	C - 1138	00	03	06	00	10	09	00	94	00	02	98
7	A - 1408	00	03	06	00	10	09	00	94	00	02	98
8	H - 31	00	03	06	00	10	09	00	94	00	02	98
9	K - 1211	00	03	06	00	10	09	00	94	00	02	98
10	A - 1403 (WHITE)	00	03	06	00	10	09	00	94	00	02	98
11	H - 31	00	03	06	00	10	09	00	94	00	02	98
12	P - 179	00	03	06	00	10	09	00	94	00	02	98
13	M KAVERI - 2727	00	03	06	00	10	09	00	94	00	02	98
CHECKS:												
14	NAVJOT	07	99	08	00	12	05	01	92	08	98	02
15	KH 510	06	00	10	00	10	09	00	94	00	02	98
MEAN LOCATION												
C.D. AT 5% =												
C.V. =												
F (Prob) =												

TABLE NO. 4 (CONT.)

SI NO	PEDIGREE	H. turcicum *			H. maydis *			STAND AT HARVEST					OV'L MEAN	
		ZN 1 BAJA	BANG MONS	OV'L MEAN	ZN 1 BAJA	JASH	ZN 3 JASH	OV'L MEAN	JASH	BAJA	KANG	KARN		KARN
1	M H - 03-1	1	5	3.6	1	3	6	2	2	7	1	2	2	5
2	H K - 1188	2	3	4.7	1	3	5	2	2	2	1	1	2	3
3	L E - 318	1	3	7.6	1	3	4	2	2	2	1	1	2	3
4	C H - 31408	1	3	5.5	1	3	3	2	2	2	1	1	2	3
5	A H - 31403 (WHITE)	1	2	7.8	1	3	3	2	2	2	1	1	2	3
6	K H - 179	1	2	3.8	1	3	3	2	2	2	1	1	2	3
7	A H - 139	1	2	5.2	1	3	3	2	2	2	1	1	2	3
8	P H - 2727	1	2	2.1	1	3	3	2	2	2	1	1	2	3
9	M C - 125	1	2	1.6	1	3	3	2	2	2	1	1	2	3
10	P M C H - 2727	1	2	2.2	1	3	3	2	2	2	1	1	2	3
11	M C H - 2727	1	2	2.2	1	3	3	2	2	2	1	1	2	3
12	K A V E R I	1	2	2.2	1	3	3	2	2	2	1	1	2	3
13	C H E C K S	1	2	2.2	1	3	3	2	2	2	1	1	2	3
14	N A V J O T	2	8	0	1	5	9	2	3	2	1	1	2	3
15	K H 510	1	7	0.4	1	4	2	1	3	2	1	1	2	3
	MEAN LOCATION	0	6	-	0	5	0	1	3	3	2	1	2	3
	C.D. AT 5% =	2	2	-	0	5	0	1	3	3	2	1	2	3
	C.V. %	22.04	17.54	-	24.568	12.00	12.00	-	12.00	3.45	16.18	3.3	9.00	1.1
	F. (Prob)	.004	.154	-	.568	1.00	1.00	-	1.00	.001	.008	.000	.000	.000

SI NO	PEDIGREE	STAND AT HARVEST			KANC BAKA			BANG MONS			OV'L MEAN		
		VARA	JASH	AMBI	KANC BAKA	KAVE	KARI	ARBH	BANG MONS	MAND	COIM	UDAI	OV'L MEAN
1	M H - 03-1	3	8	42	3	3	3	4	2	3	9	3	3
2	H K - 1188	3	8	34	3	4	3	4	3	2	4	3	3
3	L E - 318	3	8	40	3	2	3	4	4	3	2	3	3
4	C H - 31408	3	8	60	3	4	3	4	4	3	2	3	3
5	A H - 31403 (WHITE)	3	8	44	3	2	3	4	4	3	2	3	3
6	K H - 179	3	8	40	3	4	3	4	4	3	2	3	3
7	A H - 139	3	8	37	3	2	3	4	4	3	2	3	3
8	P H - 2727	3	8	41	3	4	3	4	4	3	2	3	3
9	M C H - 125	3	8	33	3	2	3	4	4	3	2	3	3
10	P M C H - 2727	3	8	38	3	4	3	4	4	3	2	3	3
11	M C H - 2727	3	8	33	3	2	3	4	4	3	2	3	3
12	K A V E R I	3	8	37	3	4	3	4	4	3	2	3	3
13	C H E C K S	3	8	37	3	4	3	4	4	3	2	3	3
14	N A V J O T	3	8	34	3	4	3	4	4	3	2	3	3
15	K H 510	3	8	38	3	4	3	4	4	3	2	3	3
	MEAN LOCATION	2	5	5.7	5.3	4.2	4.0	6.0	2.1	9.1	3.7	3.2	-
	C.D. AT 5% =	4.0	6.0	9.0	12.4	7.4	8.0	10.0	3.1	17.5	9.0	6.0	-
	C.V. %	182	210	200	1001	700	800	1000	609	609	604	600	-
	F. (Prob)	.010	.010	.000	.001	.000	.000	.000	.609	.609	.004	.000	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 8 ENTRIES)

TABLE NO. 5

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES AT ALMORA, RAJOURA, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, VARANASI, DHOLI JASHIPUR, AMBI, CAPUR, HYDERABAD, BAKARAM, KANCHAN GANGA, KARIMNAGAR, ARBHAVI, PROAGRO, BANGALORE, MONSANTO BANGLORE, MANDYA, COIMBATORE, UDAIPUR, CHHINDWARA IN IET, TRIAL NO. TR63 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										Zn 1		Zn 2							
		ALMO	BAJA	BAJA	R	MEAN	R	LUDH	R	KARN	R	PANT	R	KANP	R	PANT	R	KANP	R	MEAN	R
1	J J H H C	7025	13	5693	14	6359	14	8252	6	4586	34	352	14	2263	14	352	14	352	14	5668	12
2	J J H H C	5191	23	4723	22	4912	22	9774	3	5880	11	374	22	263	11	374	22	263	11	5216	13
3	J J H H C	4474	36	4866	31	4356	31	3771	14	5521	12	771	31	263	12	771	31	263	12	5155	13
4	J J H H C	4466	35	4855	30	4349	30	3651	13	5529	13	165	30	288	13	165	30	288	13	5520	15
5	J J H H C	5277	40	4690	37	4633	37	5981	14	4515	16	455	37	302	14	455	37	302	14	5529	15
6	J J H H C	4966	37	4398	34	4338	34	8653	11	5574	17	221	34	227	11	221	34	227	11	5573	16
7	J J H H C	4188	28	4166	27	4145	27	7137	10	4549	19	107	27	122	10	107	27	122	10	4549	17
8	J J H H C	7400	33	5138	30	4856	30	5184	11	4599	21	305	30	122	11	305	30	122	11	4599	18
9	J J H H C	8661	40	7323	37	6877	37	7138	11	4556	21	398	37	122	11	398	37	122	11	4556	19
10	J J H H C	8227	33	6959	30	6568	30	6713	11	4556	21	398	30	122	11	398	30	122	11	4556	20
11	J J H H C	8673	40	7323	37	6877	37	7138	11	4556	21	398	37	122	11	398	37	122	11	4556	21
12	J J H H C	7738	33	6512	30	6134	30	6654	11	4556	21	398	30	122	11	398	30	122	11	4556	22
13	J J H H C	3918	34	3507	32	3712	32	4826	6	5300	25	352	32	369	6	352	32	369	6	4933	22
14	J J H H C	4792	33	4217	30	4607	30	7023	3	5511	14	312	30	252	3	312	30	252	3	4992	23
15	J J H H C	6160	36	5389	33	5586	33	5903	5	5523	15	293	33	311	5	293	33	311	5	5523	23
16	J J H H C	1159	11	810	10	991	10	1749	1	271	1	49	10	06	1	49	10	06	1	4992	23
17	J J H H C	1300	13	900	12	1000	12	1900	1	200	1	4	12	09	1	4	12	09	1	4992	23
18	J J H H C	360	3	480	4	546	4	546	1	450	1	5	4	06	1	5	4	06	1	4992	23
19	J J H H C	1307	13	1006	12	1106	12	1907	1	206	1	7	12	09	1	7	12	09	1	4992	23
20	J J H H C	1711	17	1200	16	1300	16	1900	1	200	1	4	16	09	1	4	16	09	1	4992	23
21	J J H H C	80	8	120	12	160	12	40	1	150	1	90	12	09	1	90	12	09	1	4992	23
22	J J H H C	60	6	60	6	60	6	40	1	60	1	40	6	09	1	40	6	09	1	4992	23
23	J J H H C	40	4	40	4	40	4	40	1	40	1	40	4	09	1	40	4	09	1	4992	23

LOCATIONS REJECTED DUE TO HIGH C.V. (1.e.> 30%) : KOLH 36.1%

AGRONOMY DATA: (2004)
SOWING DATE: (2004)
HARVEST DATE: (2004)
FERTILIZATION NOS
FERTILIZER APPLIED

CHECKS:
MAHLI KANCHAN
KIRAN
PARKASH

MEAN YIELD = 3342
MEAN STAND
C.V. AT 5% =
C.V. (Prob)
PLOT SIZE =

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3		HYDE		KANC BAKA		KARI	
		VARA	R	DHOL	R	JASH	R	AMBI	R	MEAN	R	MEAN	R	HYDE	R	BAKA	R	KARI	R
1	H - 31013	5979	9	4722	2	4171	7	5373	22	5061	4	2259	22	7090	34	2766	35		
2	H - 3982	5385	18	3308	18	2794	33	5517	16	4251	26	2514	15	7951	24	2880	34		
3	H - 31041	4870	27	3301	19	3656	15	5421	20	4312	25	2380	18	8220	20	3375	29		
4	H - 3272	4257	34	3331	17	3426	21	4941	28	3989	32	2102	28	7094	33	4013	13		
5	L - 201	4628	32	3359	15	3331	25	4742	31	4015	31	2217	23	7183	32	3115	33		
6	F - 3273	5801	11	3494	13	3427	20	4983	24	4426	28	2144	26	8260	19	3427	27		
7	F - 3289	4839	11	3169	24	3301	27	5230	24	4135	28	2144	16	9205	25	3632	16		
8	F - 1389	4655	31	2567	34	3387	22	4619	33	3807	34	2272	20	7546	23	3888	30		
9	F - 1485	4233	35	1982	36	2771	35	4734	29	3430	36	2362	20	8036	22	3322	14		
10	B - 4-1	4969	25	2925	29	3363	10	4863	26	4030	30	2030	32	7319	26	3961	18		
11	B - 8	4971	24	3587	11	4028	28	4779	30	4398	27	2091	29	9228	27	4253	6		
12	B - 1199	6034	7	4254	4	3170	30	5147	25	4559	17	2715	10	7390	29	4466	2		
13	H - 1237	6162	3	3010	26	3051	19	4520	35	4343	23	2364	19	9459	5	4954	2		
14	H - 1405	5190	21	2686	37	3469	15	5475	17	3966	33	3043	12	9233	6	4054	125		
15	A - 31415	5569	14	4049	30	4144	8	5484	16	4822	15	2005	34	8632	14	3446	1		
16	PMZ - 146	5844	10	2865	30	4144	9	5484	17	4584	18	2005	34	8486	16	5145	31		
17	M - 26	5408	17	3196	22	4097	2	6512	4	4801	2	2046	31	6882	4	3297	28		
18	M - 27	6095	16	3529	12	4505	11	6593	9	5181	19	2164	25	9465	2	3398	23		
19	C - H - 10	5449	16	2732	31	3857	11	6148	4	4546	19	2630	12	9566	4	3505	20		
20	X - 2484	4847	28	2992	27	3509	18	6011	12	4340	24	2890	15	8161	21	3672	20		
21	X - 1363 B	5314	20	5370	1	5249	1	6935	12	5717	1	4765	1	8621	15	4118	10		
CHECKS:																			
22	MAHI KANCHAN	4414	33	3025	25	1959	36	4368	36	3442	35	1814	35	7423	28	3828	17		
23	KIRAN	5070	22	3774	9	3050	31	4595	34	4122	29	1797	36	7263	31	4625	4		
24	PARKASH	5340	19	4171	5	3570	17	5249	23	4583	16	2011	33	8361	18	4397	7		
25	X - 3342	6045	6	3172	23	3735	14	5762	13	4678	11	2075	30	8124	22	4756	3		
	MEAN YIELD=	5339		3395		3582		5559		4469		2468		8292		3804			
	MEAN STAND	37		35		30		34		34		15		28		33			
	C.D. AT 5% =	623		1401		275		1248		887		769		1229		1331			
	C.V. % =	7.16		29.44		5.48		16.00		-		22.23		10.57		24.97			
	F (Prob) =	7.000		7.003		6.00		6.00		-		7.50		6.00		6.00			
	PLOT SIZE=	7.50		7.50		6.00		6.00		-		7.50		6.00		6.00			
AGRONOMY DATA:																			
	SOWING DATE (2004)	28-06		24-06		6-07		210-63		-		6-07		9-06		13-07			
	HARVEST DATE (2004)	28-09		6-10		23-10		-		-		26-10		22-09		28-10			
	IRRIGATION NOS	2		-		-		-		-		7		8		-			
	FERTILIZER APPLIED	80		100		120		80		-		120		120		180			
	N	40		60		60		50		-		60		60		60			
	P	40		40		60		30		-		40		40		40			
	K	40		40		60		30		-		40		40		40			

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN									
		ALMO	BAJA	ZN 1 MEAN	LUDH	KARN	PANT	KANP	ZN 2 MEAN		
1	J H - 31013	79.30	62.34	71.29	71.00	-	2.96	1.29	14.90		
2	J H - 3982	90.56	34.69	32.51	91.29	10.98	-	13.43	26.08		
3	J H - 31041	37.59	26.93	32.55	40.36	9.58	1.91	10.64	14.90		
4	J C - 3272	-	38.69	12.29	11.30	-	-	15.52	4.51		
5	L - 201	13.32	21.65	17.26	-	12.81	1.71	6.26	1.74		
6	F H - 3273	34.39	66.97	49.78	31.50	9.29	10.48	6.76	14.66		
7	F H - 3289	26.85	33.12	29.81	15.90	13.74	-	-	5.48		
8	E H - 1389	35.71	13.80	25.36	23.93	-	-	-	2.96		
9	E H - 1485	18.95	13.70	16.47	0.78	-	-	2.09	-		
10	B V M - 4-1	1.13	12.80	6.64	8.86	2.49	14.50	7.26	8.63		
11	B V M - 8	6.73	-	3.45	-	5.38	-	4.47	0.95		
12	H K H - 1199	90.60	51.32	72.05	-	40.20	3.45	13.52	13.78		
13	H K H - 1237	47.24	46.53	46.91	6.30	12.10	1.60	4.06	6.00		
14	A H - 31405	26.08	110.58	65.99	36.25	-	6.45	4.38	10.10		
15	A H - 31415	48.79	38.71	44.03	48.87	3.63	4.47	3.97	15.01		
16	PMZ - 146	94.06	63.57	79.66	47.88	-	-	-	9.30		
17	M C H - 26	110.84	154.47	131.44	57.24	-	11.38	12.44	19.04		
18	M C H - 27	78.19	133.58	104.35	70.49	1.05	-	6.06	17.53		
19	J K M H - 10	120.05	103.46	112.22	100.39	16.48	2.23	12.14	31.79		
20	X - 2484	72.97	107.69	89.37	38.66	13.16	-	13.32	14.77		
21	X - 1363 B	97.49	145.59	120.21	116.61	17.39	7.03	6.67	36.55		
CHECKS:											
22	MAHI KANCHAN	-	-	-	-	-	-	-	-		
23	KIRAN	-	59.62	25.95	-	-	3.39	12.23	1.21		
24	PARKASH	22.32	48.77	34.81	45.62	5.11	12.76	2.88	17.02		
25	X - 3342	72.43	82.15	77.02	22.32	-	8.68	2.38	8.20		

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN									
		VARA	DHOL	JASH	AMBI	ZN 3 MEAN	HYDE	BAKA	KARI	ARBH	
1	J H - 31013	35.44	56.08	112.86	23.00	47.05	24.56	-	-	49.49	
2	J H - 3982	21.98	9.33	42.62	26.30	23.51	38.58	7.12	-	49.11	
3	J H - 31041	10.31	9.12	86.60	24.09	25.28	31.21	10.74	-	32.24	
4	J C - 3272	-	10.09	74.84	13.11	15.89	15.87	-	4.82	-	
5	L - 201	4.84	11.03	70.03	8.55	16.66	22.23	-	-	23.33	
6	F H - 3273	31.42	15.48	74.91	14.07	28.60	18.19	11.28	-	43.41	
7	F H - 3289	9.61	4.75	68.47	19.72	20.13	33.64	24.02	-	66.12	
8	E H - 1389	5.45	-	72.88	5.73	10.61	25.26	1.66	1.56	42.62	
9	E H - 1485	-	-	41.45	8.37	-	30.23	8.27	-	26.74	
10	B V M - 4-1	12.56	-	71.66	11.32	17.09	11.90	1.30	3.47	27.15	
11	B V M - 8	12.61	18.57	105.58	14.57	27.77	15.26	-	11.08	19.61	
12	H K H - 1199	36.69	40.62	61.79	9.40	32.47	49.66	24.33	16.66	63.57	
13	H K H - 1237	39.58	-	55.73	17.83	26.17	30.34	27.44	29.41	58.53	
14	A H - 31405	17.57	-	77.06	3.46	15.23	45.78	24.48	5.89	48.06	
15	A H - 31415	26.16	33.83	114.01	25.34	40.09	67.74	16.29	-	51.09	
16	PMZ - 146	32.38	-	111.52	25.53	33.18	10.53	14.33	34.39	68.25	
17	M C H - 26	22.51	5.64	109.12	49.08	39.56	12.77	-	-	83.58	
18	M C H - 27	38.08	16.64	129.90	50.94	50.51	19.30	27.52	-	77.81	
19	J K M H - 10	23.43	-	96.84	40.74	32.09	44.97	28.88	-	81.04	
20	X - 2484	9.80	-	79.08	37.61	26.09	59.31	9.96	-	77.03	
21	X - 1363 B	20.37	77.49	167.92	58.75	66.10	162.71	16.15	7.57	151.35	
CHECKS:											
22	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	
23	KIRAN	14.85	24.73	55.65	5.19	19.76	-	-	20.82	10.71	
24	PARKASH	20.97	37.86	82.23	20.17	33.15	10.87	12.64	14.85	32.08	
25	X - 3342	36.93	4.85	90.62	31.89	35.92	14.39	9.45	24.22	28.62	

TABLE NO. 5 (CONT.)

SL NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN										OV'L MEAN
		BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN			
1	J H - 31013	122.77	102.92	67.04	37.67	43.10	54.66	65.35	61.27	40.95		
2	J H - 3982	63.77	72.59	53.00	29.53	32.98	58.41	10.27	28.67	29.18		
3	J H - 31041	49.23	52.27	13.64	27.33	23.65	67.81	42.28	52.04	25.03		
4	J C - 3272	-	-	-	-	-	-	-	-	2.49		
5	L - 201	37.61	42.81	16.84	20.68	15.00	9.48	4.23	6.24	11.42		
6	F H - 3273	71.87	36.30	51.66	42.82	31.66	22.77	15.89	18.52	27.44		
7	F H - 3289	71.11	97.82	22.22	21.78	40.84	39.79	19.97	27.55	26.16		
8	E H - 1389	59.98	50.86	33.61	20.12	27.19	65.29	9.54	30.85	18.36		
9	E H - 1485	61.61	40.06	-	16.60	19.29	34.57	9.60	19.14	9.48		
10	B V M - 4-1	20.50	30.43	-	30.09	13.42	18.87	-	-	10.81		
11	B V M - 8	18.88	31.82	6.82	9.04	12.42	7.60	22.98	17.10	11.79		
12	H K H - 1199	75.10	83.62	36.29	47.46	46.91	93.23	34.51	56.95	39.32		
13	H K H - 1237	121.43	108.41	45.28	23.26	56.00	72.67	15.87	37.58	35.79		
14	A H - 31405	64.81	69.26	27.30	38.78	38.63	61.10	58.04	59.21	31.74		
15	A H - 31415	56.48	89.00	19.14	43.95	36.93	87.18	91.18	89.65	37.21		
16	PMZ - 146	104.59	105.93	-	47.80	46.77	40.81	62.36	54.13	38.73		
17	M C H - 26	79.49	112.37	55.64	89.72	45.54	-	152.37	89.72	49.77		
18	M C H - 27	151.51	138.56	71.04	92.85	69.13	17.50	133.25	89.01	57.98		
19	J K M H - 10	153.52	158.67	98.93	98.95	78.19	74.32	100.35	90.40	62.76		
20	X - 2484	93.29	129.18	35.01	18.84	48.48	64.21	109.48	92.18	43.74		
21	X - 1363 B	172.25	227.62	149.41	135.32	112.16	168.84	150.20	157.33	89.81		
CHECKS:												
22	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	-	
23	KIRAN	-	17.83	7.93	8.13	6.32	25.39	4.74	12.63	9.79	-	
24	PARKASH	76.25	56.07	-	38.95	29.49	29.65	79.75	60.60	30.19	-	
25	X - 3342	8.00	59.13	26.12	48.92	24.68	19.61	78.04	55.71	30.13	-	

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KIRAN							ZN 2	
		ALMO	BAJA	ZN 1 MEAN	LUDH	KARN	PANT	KANP	MEAN	
1	J H - 31013	87.13	3.70	35.99	78.38	-	-	-	-	13.52
2	J H - 3982	36.26	-	5.21	99.55	15.12	-	1.07	-	24.57
3	J H - 31041	43.60	-	5.24	46.42	13.67	-	-	-	13.52
4	J C - 3272	-	-	-	16.10	2.04	-	2.93	-	3.26
5	L - 201	18.27	-	-	-	17.01	-	-	-	0.52
6	F H - 3273	40.26	4.60	18.92	37.18	13.37	6.86	-	-	13.28
7	F H - 3289	32.38	-	3.06	20.90	17.98	-	-	-	4.22
8	E H - 1389	41.64	-	-	29.28	0.94	-	-	-	1.73
9	E H - 1485	24.14	-	-	5.13	-	-	-	-	-
10	B V M - 4-1	5.54	-	-	13.55	6.31	10.75	-	-	7.33
11	B V M - 8	11.39	-	-	1.81	9.31	-	-	-	-
12	H K H - 1199	98.92	-	36.60	2.39	45.43	0.06	1.15	-	12.42
13	H K H - 1237	53.67	-	16.64	10.89	16.28	-	-	-	4.73
14	A H - 31405	31.59	31.92	31.79	42.13	-	2.96	-	-	8.79
15	A H - 31415	55.28	-	14.35	55.29	7.50	1.05	-	-	13.64
16	PMZ - 146	102.54	2.47	42.64	54.26	-	-	-	-	7.99
17	M C H - 26	120.04	59.42	83.75	64.03	1.08	7.73	0.18	-	17.61
18	M C H - 27	85.97	46.33	62.25	77.85	4.82	-	-	-	16.13
19	J K M H - 10	129.66	27.46	68.49	109.04	20.82	-	-	-	30.22
20	X - 2484	80.52	30.11	50.35	44.65	17.38	-	0.97	-	13.40
21	X - 1363 B	106.11	53.86	74.83	125.96	21.77	3.52	-	-	34.92
CHECKS:										
22	MAHI KANCHAN	4.36	-	-	4.32	3.73	-	-	-	-
23	KIRAN	-	-	-	-	-	-	-	-	-
24	PARKASH	27.66	-	7.04	51.91	9.03	9.07	-	-	15.62
25	X - 3342	79.96	14.11	40.55	27.60	2.24	5.12	-	-	6.91

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN									
		VARA	DHOL	JASH	AMBI	ZN 3 MEAN	HYDE	KANC BAKA	KARI	ARBH	
1	J H - 31013	17.93	25.14	36.76	16.93	22.78	25.74	-	-	35.02	
2	J H - 3982	6.21	-	-	20.07	3.13	39.90	9.47	-	34.68	
3	J H - 31041	-	-	19.89	17.98	4.61	32.46	13.17	-	19.45	
4	J C - 3272	-	-	12.33	7.54	-	16.97	-	-	-	
5	L - 201	-	-	9.24	3.20	-	23.39	-	-	11.40	
6	F H - 3273	14.42	-	12.37	8.44	7.38	19.31	13.72	-	29.53	
7	F H - 3289	-	-	8.24	13.82	0.31	34.91	26.74	-	50.05	
8	E H - 1389	-	-	11.07	0.52	-	26.45	3.89	-	28.81	
9	E H - 1485	-	-	-	3.03	-	31.47	10.64	-	14.47	
10	B V M - 4-1	-	-	10.29	5.83	-	12.96	3.52	-	14.84	
11	B V M - 8	-	-	32.08	8.92	6.69	16.36	1.74	-	8.03	
12	H K H - 1199	19.01	12.73	3.95	4.01	10.61	51.08	27.06	-	47.74	
13	H K H - 1237	21.53	-	0.05	12.02	5.35	31.57	30.23	7.11	43.19	
14	A H - 31405	2.37	-	13.75	-	-	47.16	27.21	-	33.73	
15	A H - 31415	9.85	7.29	37.50	19.16	16.97	69.33	18.84	-	36.47	
16	PMZ - 146	15.26	-	35.90	19.34	11.21	11.58	16.83	11.24	51.96	
17	M C H - 26	6.67	-	34.35	41.73	16.53	13.84	-	-	65.82	
18	M C H - 27	20.22	-	47.71	43.49	25.68	20.43	30.31	-	60.61	
19	J K M H - 10	7.47	-	26.46	33.80	10.30	46.35	31.70	-	63.51	
20	X - 2484	-	-	15.05	30.82	5.28	60.82	12.37	-	59.90	
21	X - 1363 B	4.81	42.30	72.13	50.92	38.69	165.20	18.69	-	127.02	
CHECKS:											
22	MAHI KANCHAN	-	-	-	-	-	0.95	2.19	-	-	
23	KIRAN	-	-	-	-	-	-	-	-	-	
24	PARKASH	5.33	10.52	17.08	14.24	11.18	11.92	15.11	-	19.30	
25	X - 3342	19.22	-	22.47	25.39	13.49	15.48	11.85	2.82	16.17	

TABLE NO. 5 (CONT.)

Sl No	GRAIN YIELD & SUPERIORITY OVER THE KIRAN										OV'L MEAN
	BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN			
1 J H - 31013	133.98	71.45	54.77	27.32	34.59	23.35	57.87	43.18	28.38		
2 J H - 3982	72.01	46.48	41.76	19.79	25.08	26.34	5.28	14.24	17.66		
3 J H - 3104	56.73	29.22	5.29	17.76	16.30	33.83	35.85	34.99	13.89		
4 J C - 3272	-	-	-	-	-	-	-	-	-		
5 L - 201	44.54	21.20	8.26	11.61	8.16	-	-	-	1.48		
6 F H - 3273	80.51	15.67	40.52	32.08	23.84	-	10.65	5.23	16.07		
7 F H - 3289	79.72	67.89	13.24	12.63	32.47	11.49	14.55	13.25	14.91		
8 E H - 1389	68.03	28.03	23.79	11.09	19.63	31.82	4.59	16.18	7.81		
9 E H - 1485	69.75	18.87	-	7.84	12.20	7.32	4.64	5.78	-		
10 B V M - 4-1	26.56	10.69	-	20.31	6.68	-	-	-	0.93		
11 B V M - 8	24.86	11.87	-	0.85	5.74	-	17.42	3.97	1.82		
12 H K H - 1199	83.91	55.83	26.28	36.37	38.18	54.11	28.43	39.35	26.90		
13 H K H - 1237	132.57	76.87	34.61	14.00	46.73	37.71	10.63	22.15	23.69		
14 A H - 31405	73.10	43.65	17.95	28.34	30.38	28.48	50.90	41.36	20.00		
15 A H - 31415	64.35	60.40	10.39	33.13	28.79	49.28	82.54	68.39	24.98		
16 PMZ - 146	114.89	74.77	-	36.69	38.04	12.30	55.02	36.84	26.37		
17 M C H - 26	99.52	80.22	44.21	25.46	26.88	-	140.05	58.45	26.49		
18 M C H - 27	164.16	102.46	58.47	78.35	59.08	-	122.70	67.82	43.89		
19 J K M H - 10	166.28	119.52	84.32	84.00	67.60	39.03	91.29	69.05	48.25		
20 X - 2484	103.02	94.50	25.09	9.90	39.66	30.96	100.01	70.63	30.93		
21 X - 1363 B	185.95	178.04	131.08	117.63	99.55	114.41	138.89	128.47	72.88		
CHECKS:											
22 MAHI KANCHAN	5.03	-	-	-	-	-	-	-	-	-	
23 KIRAN	-	-	-	-	-	-	-	-	-	-	
24 PARKASH	85.12	32.45	-	28.50	21.79	3.40	71.62	42.60	18.59		
25 X - 3342	13.43	35.05	16.85	37.72	17.27	-	69.99	38.25	18.53		

TABLE NO. 5 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE PARKASH

Sl NO	PEDIGRES	ZN 1					KARN	PANT	KANP	ZN 2	
		ALMO	BAJA	MEAN	LUDH	5.59				7.74	
1	J H - 31013	46.58	9.12	27.06	17.43	-	-	-	-	-	
2	J H - 3982	6.73	-	-	31.36	5.59	-	10.26	-	7.74	
3	J H - 3104	12.48	-	-	-	4.25	-	7.54	-	-	
4	J C - 3272	-	-	-	-	-	-	12.29	-	-	
5	L - 201	-	-	-	-	7.32	-	3.29	-	-	
6	F H - 3273	9.87	12.23	11.10	-	3.98	-	3.77	-	-	
7	F H - 3289	3.70	-	-	-	8.21	-	-	-	-	
8	E H - 1369	10.95	-	-	-	-	-	-	-	-	
9	E H - 1485	-	-	-	-	-	-	-	-	-	
10	B V M - 4-1	-	-	-	-	-	1.54	-	4.26	-	
11	B V M - 8	-	-	-	-	-	-	1.54	-	-	
12	H K H - 1199	55.82	1.71	27.62	-	0.26	-	10.34	-	-	
13	H K H - 1237	20.37	-	8.97	-	33.38	-	1.14	-	-	
14	A H - 31405	3.07	41.55	23.13	-	6.65	-	1.46	-	-	
15	A H - 31415	21.64	-	6.84	2.23	-	-	1.06	-	-	
16	PMZ - 146	58.65	9.95	33.27	1.55	-	-	-	-	-	
17	M C H - 26	72.36	71.05	71.68	7.98	-	-	9.29	1.72	-	
18	M C H - 27	45.67	57.01	51.58	17.08	-	-	3.09	0.44	-	
19	J K M H - 10	79.90	36.76	57.41	37.61	10.82	-	9.00	12.62	-	
20	X - 2484	41.40	39.61	40.47	-	7.66	-	10.14	-	-	
21	X - 1363 B	61.45	65.08	63.34	48.74	11.68	-	3.69	16.69	-	
CHECKS:											
22	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	
23	KIRAN	-	7.30	-	-	-	-	9.09	-	-	
24	PARKASH	-	-	-	-	-	-	-	-	-	
25	X - 3342	40.96	22.44	31.31	-	-	-	-	-	-	

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARKASH									
		VARA	DHOL	JASH	AMBI	ZN 3 MEAN	HYDE	BAKA	KARI	ARBH	
1	J H - 31013	11.96	13.22	16.81	2.35	10.44	12.34	-	-	13.18	
2	J H - 3982	0.83	-	-	5.10	-	24.99	-	-	12.89	
3	J H - 31041	-	-	2.40	3.27	-	18.34	-	-	0.12	
4	J C - 3272	-	-	-	-	-	4.51	-	-	-	
5	L - 201	-	-	-	-	-	10.24	-	-	-	
6	F H - 3273	8.63	-	-	-	-	6.60	-	-	8.58	
7	F H - 3289	-	-	-	-	-	20.53	10.10	-	25.77	
8	E H - 1389	-	-	-	-	-	12.98	-	-	7.98	
9	E H - 1485	-	-	-	-	-	17.46	-	-	-	
10	B V M - 4-1	-	-	-	-	-	0.93	-	-	-	
11	B V M - 8	-	-	12.81	-	-	3.96	-	-	-	
12	H K H - 1199	12.99	2.00	-	-	-	34.98	10.38	1.58	23.84	
13	H K H - 1237	15.38	-	-	-	-	17.56	13.13	12.68	20.02	
14	A H - 31405	-	-	-	-	-	31.48	10.51	-	12.10	
15	A H - 31415	4.29	-	17.44	4.30	5.21	51.29	3.24	-	14.40	
16	PMZ - 146	9.43	-	16.07	4.46	0.03	-	1.50	17.02	27.38	
17	M C H - 26	1.27	-	14.75	24.06	4.81	1.72	-	-	39.00	
18	M C H - 27	14.14	-	26.16	25.61	13.04	7.60	13.21	-	34.63	
19	J K M H - 10	2.03	-	8.01	17.12	-	30.75	14.41	-	37.07	
20	X - 2484	-	-	-	14.51	-	43.69	-	-	34.03	
21	X - 1363 B	-	28.75	47.02	32.11	24.75	136.95	3.11	-	90.30	
CHECKS:											
22	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	
23	KIRAN	-	-	-	-	-	-	-	5.20	-	
24	PARKASH	-	-	-	-	-	-	-	-	-	
25	X - 3342	13.19	-	4.60	9.76	2.08	3.18	-	8.16	-	

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARKASH										OV'L MEAN
		BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN			
1	J H - 31013	26.39	29.44	70.10	-	10.51	19.29	-	-	0.41	8.26	
2	J H - 3982	-	10.59	55.80	-	2.70	22.19	-	-	-	-	
3	J H - 31041	-	-	15.72	-	-	29.43	-	-	-	-	
4	J C - 3272	-	-	-	-	-	-	-	-	-	-	
5	L - 201	-	-	18.99	-	-	-	-	-	-	-	
6	F H - 3273	-	-	54.44	2.79	1.68	-	-	-	-	-	
7	F H - 3289	-	26.75	24.46	-	8.76	7.82	-	-	-	-	
8	E H - 1389	-	-	36.06	-	-	27.49	-	-	-	-	
9	E H - 1485	-	-	-	-	-	3.79	-	-	-	-	
10	B V M - 4-1	-	-	0.75	-	-	-	-	-	-	-	
11	B V M - 8	-	-	8.77	-	-	-	-	-	-	-	
12	H K H - 1199	-	17.65	38.79	6.12	13.45	49.04	-	-	-	7.01	
13	H K H - 1237	25.63	33.53	47.94	-	20.47	33.18	-	-	-	4.30	
14	A H - 31405	-	8.45	29.63	-	7.05	24.26	-	-	-	1.19	
15	A H - 31415	-	21.10	21.33	3.60	5.75	44.37	6.36	18.09	5.39		
16	PMZ - 146	16.08	31.95	-	6.37	13.34	8.61	-	-	6.56		
17	M C H - 26	1.84	36.07	58.49	36.54	12.39	-	40.40	18.13	15.03		
18	M C H - 27	42.70	52.85	74.18	38.79	30.61	-	29.76	17.69	21.34		
19	J K M H - 10	43.84	65.73	102.58	43.19	37.61	34.46	11.46	18.55	25.01		
20	X - 2484	9.67	46.84	37.48	-	14.67	26.65	16.54	19.66	10.41		
21	X - 1363 B	54.47	109.91	153.98	69.36	63.84	107.36	39.19	60.22	45.79		
CHECKS:												
22	MAHI KANCHAN	-	-	1.83	-	-	-	-	-	-	-	
23	KIRAN	-	-	9.91	-	-	-	-	-	-	-	
24	PARKASH	-	-	-	-	-	-	-	-	-	-	
25	X - 3342	-	1.96	28.43	7.18	-	-	-	-	-	-	

TABLE NO. 5 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 2		ZN 3	
		ALMO	BAJA	ZN 1 MEAN	LU DH	KARN	KARNP	MEAN	VARA	DHOL	JASH	AMBI	MEAN	MEAN	
1	J H - 31013	55.8	67.7	61.7	48.8	50.3	50.3	49.8	47.3	52.3	47.0	50.5	49.3		
2	J H - 3982	55.5	69.7	62.6	46.8	49.3	51.3	49.1	47.3	51.3	47.5	50.0	49.0		
3	J H - 31041	54.5	68.0	61.3	47.5	47.3	52.3	49.1	47.7	49.0	46.3	50.8	48.4		
4	J C - 3272	51.8	67.0	59.4	45.8	47.0	51.7	48.1	45.0	48.5	41.5	49.3	46.1		
5	L - 201	52.5	63.0	57.8	46.5	46.7	52.0	48.4	45.0	49.8	43.0	47.0	46.2		
6	F H - 3273	51.0	65.0	58.0	45.5	46.7	51.3	47.8	45.0	49.5	42.8	46.3	45.9		
7	F H - 3289	53.8	63.7	58.7	47.0	46.3	50.7	48.0	50.3	50.0	42.5	49.0	48.0		
8	E H - 1389	52.0	67.3	59.7	46.0	48.0	51.0	48.3	45.0	51.0	43.3	48.3	46.9		
9	E H - 1485	50.3	66.3	58.3	45.8	47.3	51.0	48.0	45.3	51.8	42.8	46.8	46.6		
10	B V M - 4-1	53.3	65.7	59.5	45.5	47.3	50.3	47.7	45.7	48.3	42.8	47.8	46.1		
11	B V M - 8	54.0	69.0	61.5	48.0	47.3	55.3	50.2	44.7	50.0	43.8	46.5	46.2		
12	H K H - 1199	57.3	66.7	62.0	50.0	51.3	52.0	51.1	48.7	53.0	53.8	51.0	51.6		
13	H K H - 1237	56.5	66.7	61.6	49.5	51.3	53.3	51.4	50.0	50.8	51.3	51.8	50.9		
14	A H - 31405	55.3	64.7	60.0	48.0	50.3	54.0	50.8	48.3	52.3	45.0	50.0	48.9		
15	A H - 31415	57.0	69.0	63.0	48.5	50.3	54.7	51.2	49.0	52.8	45.3	50.5	49.4		
16	PMZ - 146	53.8	64.0	58.9	47.0	47.3	51.0	48.4	48.7	51.8	42.8	49.3	48.1		
17	M C H - 26	57.0	66.3	61.7	48.3	49.7	51.7	49.9	51.3	54.3	50.3	52.3	52.0		
18	M C H - 27	57.3	68.7	63.0	50.5	51.0	54.0	51.8	50.0	53.0	48.8	53.0	51.2		
19	J K M H - 10	55.5	71.3	63.4	49.0	51.3	50.0	50.1	50.3	53.0	45.8	51.8	50.2		
20	X - 2484	55.3	62.0	58.6	47.5	48.3	54.3	50.1	49.3	51.8	44.8	50.3	49.0		
21	X - 1363 B	60.0	69.7	64.8	51.8	52.3	52.7	52.3	52.3	55.5	52.5	50.0	52.6		
CHECKS:															
22	MAHI KANCHAN	52.5	64.7	58.6	45.3	47.0	52.0	48.1	45.3	51.3	43.0	46.5	46.5		
23	KIRAN	54.5	65.7	60.1	48.0	48.3	55.7	50.7	46.0	50.5	44.5	49.8	47.7		
24	PARKASH	53.3	64.7	59.0	46.0	49.3	50.0	48.4	48.3	49.8	42.8	49.3	47.5		
25	X - 3342	53.8	61.0	57.4	46.8	48.0	55.0	49.9	48.7	51.3	41.5	49.8	47.8		
MEAN LOCATION															
C.D. AT 5%															
C.V. %															
P (Prob)															
		.000	.000	-	.000	.000	.000	-	.000	.000	.000	.000	-		
		1.0	3.2	2.1	1.5	0.8	0.8	1.0	2.6	2.3	2.1	1.8	2.2		
		1.3	3.0	-	2.2	1.0	1.0	-	3.3	3.2	3.3	2.6	-		
		.000	.000	-	.000	.000	.000	-	.000	.000	.000	.000	-		

TABLE NO. 5 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED										ZN 4		OV'L	
		HYDE	BAKA	KARI	ARBH	PROA	BANG MONS	MAND	COIM	MEAN	UDAI	CHHI	MEAN	OV'L MEAN	
1	J H - 31013	54.3	51.5	46.0	56.5	52.8	55.8	56.0	54.8	53.4	51.3	55.8	53.5	52.9	
2	J H - 3982	51.5	50.5	46.3	55.5	53.3	51.0	55.7	53.5	52.1	49.8	50.8	50.3	51.9	
3	J H - 31041	51.3	51.0	46.0	56.0	52.3	56.0	55.0	54.0	52.7	49.8	54.0	51.9	52.0	
4	J C - 3272	54.0	50.0	45.3	55.0	52.8	53.8	53.0	47.0	51.3	47.5	51.0	49.3	50.4	
5	L - 201	51.3	45.5	46.8	55.0	51.3	54.5	50.0	45.0	49.9	46.3	52.0	49.1	49.6	
6	F H - 3273	53.5	46.0	45.8	55.0	49.5	50.8	51.3	44.8	49.6	46.0	50.8	48.4	49.3	
7	F H - 3289	52.0	46.0	45.8	55.0	51.8	54.0	55.0	50.0	51.2	47.8	49.5	48.6	50.5	
8	E H - 1389	51.3	49.5	46.0	55.0	51.3	54.3	50.7	48.3	50.8	47.5	51.8	49.6	50.4	
9	E H - 1485	52.5	46.5	45.5	55.0	49.8	54.0	50.0	45.5	49.8	46.8	52.5	49.6	49.8	
10	B V M - 4-1	51.5	47.5	46.5	55.0	52.0	54.3	52.7	47.0	50.8	47.0	50.5	48.8	50.0	
11	B V M - 8	53.0	49.5	46.5	55.5	52.5	56.0	52.3	49.0	51.8	48.3	51.3	49.8	51.2	
12	H K H - 1199	52.5	53.0	47.3	57.5	54.0	56.3	56.0	55.0	53.9	51.3	57.0	54.1	53.9	
13	H K H - 1237	52.5	52.0	46.5	58.0	53.5	57.0	54.7	54.0	53.5	51.0	55.0	53.0	53.4	
14	A H - 31405	53.5	51.0	46.3	56.0	53.8	56.5	56.0	50.3	52.9	49.8	56.0	52.9	52.5	
15	A H - 31415	50.3	52.5	46.0	59.0	53.8	55.8	57.0	54.3	53.6	50.8	56.0	53.4	53.3	
16	PMZ - 146	50.8	49.0	46.8	55.0	52.5	55.3	55.0	52.0	52.0	48.5	51.5	50.0	51.1	
17	M C H - 26	51.3	52.0	45.3	57.0	56.0	52.8	57.3	54.8	53.3	51.5	55.8	53.6	53.4	
18	M C H - 27	51.5	52.5	47.0	56.5	54.3	56.3	56.3	54.5	53.6	51.8	58.0	54.9	53.9	
19	J K M H - 10	52.0	53.0	46.3	55.5	53.8	56.5	56.3	53.0	53.3	51.0	55.8	53.4	53.2	
20	X - 2484	53.0	49.5	44.8	55.0	53.5	51.3	54.3	49.5	51.4	50.5	53.0	51.8	51.5	
21	X - 1363 B	53.5	54.0	46.3	59.0	57.0	57.3	58.3	55.8	55.1	52.5	57.8	55.1	55.2	
CHECKS:															
22	MAHI KANCHAN	51.8	50.5	46.0	55.0	52.0	54.3	51.3	48.5	51.2	47.0	51.8	49.4	50.3	
23	KIRAN	52.5	50.5	46.8	55.0	53.3	54.3	54.7	52.0	52.4	49.3	54.5	51.9	51.9	
24	PARKASH	49.5	49.0	46.3	56.0	51.8	55.8	54.7	54.0	52.1	49.3	52.0	50.6	51.1	
25	X - 3342	53.5	48.0	46.5	55.0	52.8	55.5	54.7	49.0	51.9	49.0	51.0	50.0	51.1	
MEAN LOCATION		52.1	50.2	46.1	56.1	52.9	54.5	54.6	51.6	52.3	49.5	53.3	51.4	51.9	
C.D. AT 5% =		3.5	0.8	1.7	0.7	1.0	1.3	2.4	1.2	1.6	1.3	2.3	1.8	-	
C.V. % =		4.8	1.1	2.6	0.9	1.4	1.8	2.7	1.7	-	1.8	3.0	-	-	
F (Prob)		.453	.000	.276	.000	.000	.000	.000	.000	-	.000	.000	-	-	

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING										ZN 4		ZN 5		OV'L MEAN
		HYDE	BAKA	KARI	ARBH	BANG PROA	BANG MONS	MAND	COIM	MEAN	UDAI	CHHI	MEAN	MEAN		
1	J H - 31013	56.3	51.5	50.3	58.5	53.3	56.8	57.7	56.8	55.1	53.8	57.3	55.5	55.1		
2	J H - 3982	54.0	50.5	49.8	57.0	54.0	52.3	57.3	57.0	54.0	52.8	52.8	52.8	54.2		
3	J H - 31041	53.0	51.0	51.5	57.5	53.3	57.0	56.0	56.8	54.5	52.3	56.0	54.1	54.3		
4	J C - 3272	55.8	50.0	49.0	55.0	54.0	54.8	55.0	50.8	53.0	49.8	52.5	51.1	52.8		
5	L - 201	53.8	46.5	51.3	55.0	52.0	55.5	52.3	49.0	51.9	48.5	53.0	50.8	52.0		
6	F H - 3273	55.0	46.5	49.5	55.0	49.3	51.8	52.3	46.8	50.8	48.0	52.3	50.1	51.5		
7	F H - 3289	54.0	46.0	50.8	55.0	52.5	55.0	57.7	54.8	53.2	50.3	51.3	50.8	53.0		
8	E H - 1389	53.8	49.5	49.5	55.0	52.0	55.3	52.3	51.3	52.3	50.3	53.0	51.6	52.9		
9	E H - 1485	54.8	47.5	49.8	55.0	49.8	55.0	52.0	49.8	51.7	49.5	53.8	51.6	52.4		
10	B V M - 4-1	54.3	47.5	50.5	55.0	53.3	55.3	56.3	51.5	52.9	49.5	52.0	50.8	52.7		
11	B V M - 8	55.0	49.5	51.0	57.0	53.5	57.0	54.7	53.0	53.8	51.0	53.5	52.3	53.8		
12	H K H - 1199	54.5	53.5	51.3	60.0	55.8	57.3	57.0	58.3	55.9	53.8	58.0	55.9	56.4		
13	H K H - 1237	54.5	52.0	50.5	59.0	55.0	58.0	56.0	57.3	55.3	53.5	56.3	54.9	55.9		
14	A H - 31405	55.8	51.5	51.3	58.0	54.8	57.5	57.3	54.3	55.0	53.0	57.3	55.1	55.1		
15	A H - 31415	53.3	52.5	50.5	60.0	55.5	56.8	58.3	57.3	55.5	53.8	58.3	56.0	55.9		
16	PMZ - 146	53.5	48.5	51.3	55.0	53.0	56.3	56.3	55.0	53.6	50.0	53.5	51.8	53.4		
17	M C H - 26	53.8	52.0	49.8	57.0	57.0	53.8	59.3	57.8	55.0	54.3	57.5	55.9	55.6		
18	M C H - 27	54.3	52.5	51.3	57.0	55.5	57.3	58.0	56.5	55.3	54.0	59.3	56.6	56.2		
19	J K M H - 10	54.3	53.0	51.3	56.5	54.8	57.5	59.3	56.3	55.4	53.8	57.3	55.5	55.8		
20	X - 2484	55.3	50.0	50.3	55.5	55.0	52.3	56.3	53.5	53.5	53.0	54.3	53.6	54.0		
21	X - 1363 B	55.8	54.5	50.0	60.5	57.7	58.3	62.0	57.8	57.1	55.0	59.8	57.4	57.5		
CHECKS:																
22	MAHI KANCHAN	53.8	51.0	50.5	56.5	53.0	55.3	53.7	50.5	53.0	49.8	53.3	51.5	53.0		
23	KIRAN	55.0	51.5	51.5	56.5	54.3	55.3	58.0	56.0	54.8	52.3	56.0	54.1	54.6		
24	PARKASH	52.0	49.5	50.3	57.0	52.5	56.8	56.0	57.0	53.9	52.0	53.8	52.9	53.5		
25	X - 3342	55.5	48.0	49.8	55.5	53.5	56.5	56.3	53.0	53.5	51.3	52.8	52.0	53.4		
MEAN LOCATION		54.4	50.4	50.4	57.0	53.8	55.6	56.5	54.9	54.1	52.0	54.8	53.4	54.3		
C.D. AT 5%		3.1	0.9	2.1	0.7	1.4	1.3	2.7	1.1	1.7	1.6	2.3	1.9	-		
C.V. %		4.1	1.3	3.0	0.9	1.9	1.7	3.0	1.5	-	2.2	3.0	-	-		
P (Prob)		.548	.000	.645	.000	.000	.000	.000	.000	-	.000	.000	-	-		

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					ZN 2			ZN 3			
		ALMO	BAJA	ZN 1 MEAN	LU DH	KARN	KANP	MEAN	VARA	DHOL	JASH	AMBI	MEAN
1	J H - 31013	95.0	100.0	97.5	81.8	81.7	79.3	80.9	83.0	84.5	83.3	91.0	85.4
2	J H - 3982	97.3	106.0	101.6	82.5	82.0	80.0	81.5	81.0	84.0	84.5	90.3	84.9
3	J H - 31041	92.3	103.0	97.6	83.0	82.0	79.3	81.4	81.0	84.5	84.3	90.8	85.1
4	J C - 3272	90.3	101.7	96.0	79.5	80.7	79.7	79.9	80.3	83.0	80.0	89.0	83.1
5	L - 201	92.5	98.0	95.3	78.3	80.3	80.0	79.5	79.0	81.8	81.0	89.0	82.7
6	F H - 3273	93.5	99.7	96.6	78.5	80.0	79.3	79.3	79.3	83.5	81.8	88.0	83.1
7	F H - 3289	93.8	99.3	96.5	78.8	79.0	80.7	79.5	83.7	84.3	82.3	87.8	84.5
8	E H - 1389	92.0	102.0	97.0	79.8	80.7	81.0	80.5	82.3	85.0	82.5	90.0	85.0
9	E H - 1485	89.8	102.0	95.9	78.3	80.0	77.3	78.5	80.7	84.3	81.8	89.0	83.9
10	B V M - 4-1	92.8	100.7	96.7	78.5	81.0	81.0	80.2	81.7	81.3	81.8	87.8	83.1
11	B V M - 8	97.0	103.0	100.0	81.0	81.7	81.0	81.2	79.3	83.3	83.8	90.3	84.1
12	H K H - 1199	101.8	102.0	101.9	83.8	83.0	80.0	82.3	82.7	84.8	87.5	88.3	85.8
13	H K H - 1237	101.8	102.0	101.9	81.8	83.0	80.7	81.8	83.0	84.5	86.0	90.3	85.9
14	A H - 31405	101.8	104.0	102.9	85.3	82.7	81.0	83.0	84.3	85.8	85.5	91.5	86.8
15	A H - 31415	102.3	107.0	104.6	82.3	81.7	78.7	80.9	82.3	86.3	84.8	90.0	85.8
16	PMZ - 146	101.0	100.7	100.8	82.0	79.7	78.3	80.0	83.3	84.5	85.0	88.8	85.4
17	M C H - 26	108.8	103.7	106.2	83.8	79.0	78.3	80.4	83.7	86.0	86.5	90.8	86.7
18	M C H - 27	105.8	102.3	104.0	85.5	82.0	81.0	82.8	82.7	86.5	87.5	90.5	86.8
19	J K M H - 10	102.3	105.3	103.8	82.3	82.0	78.0	80.8	83.0	85.3	85.0	91.3	86.1
20	X - 2484	99.3	101.3	100.3	80.3	81.3	84.3	82.0	81.7	84.5	84.5	89.5	85.0
21	X - 1363 B	108.3	108.3	108.3	86.5	82.3	79.7	82.8	83.3	89.5	94.0	91.3	89.5
CHECKS:													
22	MAHI KANCHAN	93.3	98.0	95.6	79.0	81.0	81.0	80.3	80.7	83.5	80.0	88.0	83.0
23	KIRAN	99.5	100.3	99.9	81.5	82.7	82.0	82.1	81.3	83.8	84.3	88.5	84.5
24	PARKASH	101.0	101.0	101.0	84.8	81.7	79.0	81.8	83.7	86.5	84.5	90.3	86.2
25	X - 3342	94.5	97.3	95.9	79.3	80.0	78.0	79.1	80.7	84.0	82.0	89.0	83.9
MEAN LOCATION													
C.D. AT 5%		2.0	4.3	3.1	2.1	0.9	1.5	1.5	2.0	2.1	1.6	1.9	1.9
C.V. %		1.4	2.6	-	1.8	0.7	1.1	-	1.5	1.8	1.4	1.5	-
F (Prob)		.000	.000	-	.000	.000	.000	-	.000	.000	.000	.000	-

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	MOISTURE %			AT HARVEST			ZN 2 MEAN	VARA	JASH	ZN 3 MEAN
		ALMO	BAJA	ZN 1 MEAN	LU DH	PANT					
1	J H - 31013	34.8	22.5	28.6	22.4	33.5	27.9	31.3	16.9	24.1	
2	J H - 3982	33.1	19.0	26.1	22.3	33.2	27.8	37.7	16.8	27.3	
3	J H - 31041	31.3	20.9	26.0	22.0	26.4	24.2	31.6	16.5	24.0	
4	J C - 3272	27.0	21.7	24.4	21.4	26.4	23.9	29.3	16.0	22.7	
5	L - 201	28.5	19.2	23.9	21.8	29.4	25.6	24.8	16.5	20.6	
6	F H - 3273	31.6	19.2	25.4	21.3	24.4	22.9	31.0	16.4	23.7	
7	F H - 3289	29.6	19.9	24.7	21.3	27.7	24.5	29.6	17.2	23.4	
8	E H - 1389	31.7	20.0	25.8	22.0	32.7	27.4	32.2	17.2	24.7	
9	E H - 1485	28.3	21.0	24.7	21.5	28.0	24.8	31.6	16.3	24.0	
10	B V M - 4-1	28.2	20.5	24.3	21.6	23.4	22.5	30.3	16.0	23.2	
11	B V M - 8	30.4	20.3	25.3	21.5	29.5	25.5	30.3	16.9	23.5	
12	H K H - 1199	31.8	20.1	26.0	22.0	26.3	24.2	31.7	17.0	24.3	
13	H K H - 1237	33.2	22.6	27.9	21.8	25.2	23.5	25.8	16.3	21.0	
14	A H - 31405	32.0	22.5	27.2	22.1	27.3	24.7	32.4	16.7	24.6	
15	A H - 31415	32.8	20.6	26.7	21.1	28.2	24.6	31.6	17.1	24.4	
16	PMZ - 146	33.5	21.5	27.5	21.4	27.5	24.5	32.3	16.7	24.5	
17	M C H - 26	34.4	21.3	27.9	21.8	23.2	22.5	35.2	16.8	26.0	
18	M C H - 27	33.0	19.8	26.4	22.0	29.9	26.0	34.1	16.8	25.4	
19	J K M H - 10	35.8	22.8	29.3	22.9	32.6	27.7	37.6	17.0	27.3	
20	X - 2484	33.9	21.0	27.5	21.2	29.7	25.4	30.6	17.5	24.0	
21	X - 1363 B	39.4	21.8	30.6	24.8	29.7	27.2	39.4	17.3	28.4	
CHECKS:											
22	MAHI KANCHAN	28.5	19.1	23.8	21.5	28.9	25.2	29.5	17.3	23.4	
23	KIRAN	28.6	20.5	24.6	21.5	23.4	22.5	28.0	17.5	22.7	
24	PARKASH	30.5	21.2	25.8	21.7	24.1	22.9	32.2	16.1	24.2	
25	X - 3342	32.9	20.8	26.8	22.1	25.0	23.5	30.7	17.1	23.9	
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	MOISTURE %				AT HARVEST				ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
		HYDE	ARBH	BANG PROA	BANG MONS	MAND	BANG MONS	BANG PROA	BANG MONS					
1	J H - 31013	26.0	14.4	31.5	17.8	18.9	21.7	15.1	15.6	15.4	23.1			
2	J H - 3982	20.7	15.2	33.3	17.2	18.8	21.1	16.8	13.7	15.3	22.9			
3	J H - 31041	22.3	15.6	30.4	16.6	19.2	20.8	16.4	16.8	16.6	22.0			
4	J C - 3272	23.9	14.9	27.8	13.9	19.2	19.9	17.1	12.9	15.0	20.9			
5	L - 201	22.6	14.7	26.5	15.1	18.5	19.5	16.8	16.2	16.5	20.8			
6	F H - 3273	19.8	13.2	25.2	19.0	18.5	19.1	16.0	16.6	16.3	20.9			
7	F H - 3289	20.5	14.9	26.7	16.7	18.7	19.5	15.4	12.5	13.9	20.8			
8	E H - 1389	22.0	14.1	27.9	16.9	18.4	19.9	16.0	18.1	17.1	22.2			
9	E H - 1485	23.1	13.9	28.1	16.3	19.5	20.2	17.0	16.0	16.5	21.6			
10	B V M - 4-1	21.1	15.4	25.8	16.1	19.7	19.6	16.0	12.0	14.0	20.5			
11	B V M - 8	22.5	16.3	29.0	15.5	18.9	20.4	16.0	13.9	15.0	21.6			
12	H K H - 1199	20.5	14.5	29.7	18.4	18.7	20.4	16.8	13.8	15.3	21.6			
13	H K H - 1237	21.6	14.2	29.9	17.8	20.3	20.8	16.1	14.9	15.5	21.5			
14	A H - 31405	22.5	16.3	28.8	19.8	19.2	21.3	16.1	14.9	15.5	22.3			
15	A H - 31415	19.8	15.1	29.0	18.5	18.5	20.2	16.3	17.0	16.6	22.0			
16	PMZ - 146	23.6	13.3	30.0	17.0	19.0	20.6	16.0	14.1	15.1	22.0			
17	M C H - 26	19.2	14.4	28.4	17.3	19.5	19.8	16.0	13.9	14.9	21.7			
18	M C H - 27	23.6	14.6	26.7	19.5	19.2	20.7	15.9	16.6	16.3	22.4			
19	J K M H - 10	20.8	14.1	32.3	23.2	18.8	21.8	17.0	15.9	16.5	23.9			
20	X - 2484	22.2	15.6	32.0	15.9	20.0	21.1	16.8	15.3	16.0	22.4			
21	X - 1363 B	25.3	15.3	34.8	25.2	18.8	23.9	16.0	17.1	16.5	25.0			
CHECKS:														
22	MAHI KANCHAN	22.9	13.8	27.8	15.1	18.7	19.6	15.6	12.4	14.0	20.8			
23	KIRAN	21.4	15.6	27.9	15.7	19.2	20.0	17.6	14.3	15.9	20.9			
24	PARKASH	20.3	14.1	26.4	16.9	19.4	19.4	16.7	14.6	15.6	21.1			
25	X - 3342	23.3	17.0	28.3	19.0	19.6	21.4	15.1	13.8	14.5	21.9			
MEAN LOCATION														
C.D. AT 5% =		1.6	1.3	2.3	2.9	1.6	2.0	0.5	0.8	0.7	-	-	-	-
C.V. % =		5.2	6.0	5.6	11.5	5.1	-	2.3	3.7	-	-	-	-	-
F (Prob)		.000	.000	.000	.000	.840	-	.000	.000	-	-	-	-	-

TABLE NO. 5 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *										
	ALMO	BAJA	ZN 1 MEAN	ZN 2 KANP	VARA	DHOL	JASH	ZN 3 MEAN	HYDE	KARI	ARBH
1 J H - 31013	2.6	2.2	2.4	2.8	1.8	1.9	2.0	1.9	3.0	3.0	3.0
2 J H - 3982	2.6	2.3	2.5	2.8	2.3	2.3	3.0	2.5	3.0	3.3	2.3
3 J H - 31041	2.8	2.7	2.8	3.0	1.8	2.4	2.0	2.0	3.0	2.8	2.8
4 J C - 3272	2.8	2.8	2.8	2.2	2.3	3.4	3.0	2.9	3.0	3.0	3.0
5 L - 201	3.0	2.8	2.9	2.8	2.3	3.3	3.0	2.8	3.3	2.8	2.8
6 F H - 3273	2.7	2.3	2.5	2.8	1.8	2.5	3.0	2.4	3.0	3.0	2.0
7 F H - 3289	2.5	2.5	2.5	2.5	1.5	2.3	2.5	2.1	2.8	3.3	2.0
8 E H - 1389	2.5	2.7	2.6	2.5	2.5	3.1	2.0	2.5	3.0	2.8	2.5
9 E H - 1485	3.0	2.8	2.9	2.8	1.8	2.8	3.0	2.5	3.5	3.3	2.5
10 B V M - 4-1	2.6	2.8	2.7	2.3	1.8	2.9	2.0	2.2	3.0	2.8	2.5
11 B V M - 8	2.8	2.8	2.8	2.8	2.3	2.9	1.8	2.3	3.0	2.0	2.5
12 H K H - 1199	2.5	2.3	2.4	2.8	2.5	2.1	3.5	2.7	2.8	2.0	2.3
13 H K H - 1237	2.5	2.0	2.3	2.5	2.5	2.3	3.0	2.6	2.8	2.5	2.0
14 A H - 31405	2.5	2.2	2.3	2.7	2.5	2.5	2.0	2.3	2.9	3.0	2.5
15 A H - 31415	2.5	2.5	2.5	2.5	2.3	2.1	2.0	2.1	2.8	3.0	2.5
16 PMZ - 146	2.5	2.5	2.5	2.7	1.8	2.6	1.8	2.0	2.8	2.5	2.3
17 M C H - 26	2.5	1.8	2.1	2.5	1.5	2.6	1.8	2.0	2.8	3.5	2.5
18 M C H - 27	2.6	2.3	2.5	2.8	1.8	2.4	1.5	1.9	2.8	3.0	2.0
19 J K M H - 10	2.3	2.2	2.2	2.5	1.8	2.8	2.0	2.2	2.5	3.3	3.0
20 X - 2484	2.7	2.5	2.6	2.8	2.3	2.8	2.0	2.3	2.8	2.8	2.3
21 X - 1363 B	2.5	2.0	2.2	2.3	1.8	2.4	1.0	1.7	2.4	2.8	2.0
CHECKS:											
22 MAHI KANCHAN	2.7	2.7	2.7	2.7	2.8	3.1	3.0	3.0	3.0	3.3	2.8
23 KIRAN	2.8	2.7	2.7	2.5	2.3	2.8	2.0	2.3	3.0	3.0	3.0
24 PARKASH	2.6	2.3	2.5	2.3	1.8	2.4	2.0	2.0	3.0	2.8	3.0
25 X - 3342	2.5	2.3	2.4	2.8	2.0	2.6	2.0	2.2	2.6	3.0	2.8
MEAN LOCATION											
C.D. AT 5ft	0.2	0.5	0.3	0.6	0.3	0.6	0.4	0.4	0.5	1.0	0.3
C.V. %	4.6	13.2	-	15.0	9.7	16.3	11.7	-	13.0	25.4	8.0
F (Prob)	.000	.007	-	.586	.000	.000	.000	-	.079	.455	.000

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					
		BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	ALMO	BAJA	ZN 1 MEAN
1	J H - 31013	2.3	3.0	4.8	3.2	2.2	1.5	1.9	2.6	2.6	2.5	2.7
2	J H - 3982	2.0	2.7	3.0	2.7	2.7	2.0	2.3	2.6	2.6	2.8	2.8
3	J H - 31041	2.8	2.7	3.0	2.8	2.7	1.5	2.1	2.6	2.7	3.0	3.0
4	J C - 3272	3.8	3.0	4.0	3.3	3.0	2.0	2.5	2.9	2.9	3.0	2.5
5	L - 201	3.0	2.3	4.0	3.0	2.9	1.8	2.3	2.8	2.9	3.0	2.8
6	F H - 3273	3.3	2.0	3.0	2.7	2.9	2.0	2.5	2.6	2.6	2.7	2.8
7	F H - 3289	2.8	2.0	3.0	2.6	2.7	1.8	2.2	2.4	2.7	2.7	2.8
8	E H - 1389	3.3	2.7	4.0	3.0	2.5	1.3	1.9	2.7	2.6	2.8	2.8
9	E H - 1485	3.0	2.7	4.0	3.2	2.7	2.0	2.3	2.8	2.8	3.0	2.5
10	B V M - 4-1	4.0	2.7	3.0	3.0	2.8	1.8	2.3	2.6	2.7	2.8	2.5
11	B V M - 8	3.3	2.3	4.0	2.8	2.9	2.0	2.5	2.7	2.8	3.0	2.5
12	H K H - 1199	2.5	2.3	3.0	2.5	2.6	2.0	2.3	2.5	2.4	2.3	2.8
13	H K H - 1237	2.3	2.3	3.0	2.5	2.5	1.5	2.0	2.4	2.5	2.2	2.5
14	A H - 31405	2.3	2.0	4.0	2.8	2.6	1.5	2.0	2.5	2.6	2.5	2.8
15	A H - 31415	2.3	2.7	4.0	2.9	2.4	1.0	1.7	2.5	2.5	2.5	2.8
16	PMZ - 146	2.3	2.0	2.0	2.3	2.7	1.5	2.1	2.3	2.5	2.7	2.8
17	M C H - 26	2.0	3.0	3.0	2.8	2.8	1.0	1.9	2.4	2.4	2.2	2.8
18	M C H - 27	1.5	2.3	2.0	2.3	2.3	1.0	1.6	2.2	2.5	2.5	2.7
19	J K M H - 10	2.0	2.0	2.0	2.5	2.3	1.0	1.7	2.3	2.2	2.2	2.7
20	X - 2484	2.0	2.7	4.0	2.7	2.5	1.0	1.7	2.5	2.5	2.7	2.8
21	X - 1363 B	1.0	2.7	2.0	2.1	2.3	1.0	1.6	2.0	2.3	2.2	2.8
CHECKS:												
22	MAHI KANCHAN	3.3	3.0	4.0	3.2	3.0	2.0	2.5	2.9	2.8	3.0	2.8
23	KIRAN	3.5	3.0	4.0	3.3	2.8	1.8	2.3	2.8	2.8	2.8	2.8
24	PARKASH	2.8	2.3	3.0	2.8	2.9	1.3	2.1	2.5	2.6	2.5	2.8
25	X - 3342	3.3	2.0	3.0	2.8	2.8	1.5	2.2	2.5	2.5	2.7	2.5
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												
.000 .002 .000 - 11.1 12.2 - 4.5 10.2 - 11.8												
.000 .000 .000 .008 .000 .000 .000 .000 .000 .000 .000 .000 .815												

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *										OV'L MEAN				
		VARA	DHOL	JASH	ZN 3 MEAN	HYDE	KARI	ARBH	MONS	BANG	COIM		ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN
1	J H - 31013	1.8	2.0	2.0	2.0	2.9	2.3	3.5	2.3	2.7	3.8	2.9	2.7	2.0	2.3	2.5
2	J H - 3982	2.8	2.3	3.5	2.8	2.9	2.5	2.8	2.8	2.0	3.0	2.6	2.8	2.5	2.6	2.7
3	J H - 31041	2.3	2.9	2.5	2.5	3.0	2.0	3.3	2.8	3.0	3.0	2.8	2.5	2.3	2.4	2.7
4	J C - 3272	2.8	2.8	3.8	3.1	2.9	2.3	3.5	3.5	3.3	4.0	3.2	2.8	2.3	2.5	3.0
5	L - 201	2.3	3.3	3.3	2.9	3.1	2.0	2.8	3.0	3.3	3.0	2.9	2.7	2.0	2.4	2.8
6	F H - 3273	2.3	3.1	3.0	2.8	2.6	2.0	2.8	3.3	2.3	3.0	2.7	2.8	1.8	2.3	2.6
7	F H - 3289	2.3	3.0	3.0	2.8	2.6	2.0	3.0	2.5	2.0	4.0	2.7	2.7	1.5	2.1	2.6
8	E H - 1389	2.8	3.3	3.0	3.0	3.0	2.3	3.3	3.0	3.3	4.0	3.1	2.5	2.0	2.2	2.9
9	E H - 1485	2.3	3.3	4.0	3.2	3.0	2.5	2.8	3.3	3.3	3.0	3.0	2.5	2.3	2.4	2.9
10	B V M - 4-1	2.8	2.9	3.0	2.9	2.9	2.5	3.0	3.5	2.3	3.0	2.9	2.8	2.3	2.5	2.8
11	B V M - 8	2.8	2.8	2.0	2.5	2.9	1.5	2.5	3.8	2.7	4.0	2.9	2.8	2.5	2.7	2.7
12	H K H - 1199	2.8	2.0	4.0	2.9	2.8	1.8	3.0	2.8	2.3	3.0	2.6	2.6	2.0	2.3	2.6
13	H K H - 1237	2.8	2.9	3.5	3.0	2.9	1.5	2.8	2.0	2.7	3.0	2.5	2.5	2.0	2.3	2.5
14	A H - 31405	2.8	2.1	3.0	2.6	2.8	2.0	3.0	2.5	2.0	4.0	2.7	2.2	1.3	1.7	2.5
15	A H - 31415	2.5	2.0	2.3	2.3	2.9	1.8	2.8	2.0	2.3	3.0	2.5	2.4	1.0	1.7	2.3
16	PMZ - 146	1.8	2.5	2.0	2.1	2.9	2.3	3.3	2.3	2.3	2.0	2.5	2.5	1.8	2.2	2.4
17	M C H - 26	2.3	2.6	2.0	2.3	2.9	2.8	2.8	2.0	3.0	3.0	2.7	2.9	1.0	2.0	2.5
18	M C H - 27	1.8	2.4	1.8	2.0	2.8	2.3	2.8	1.5	2.0	3.0	2.4	2.4	1.0	1.7	2.2
19	J K M H - 10	1.8	2.4	2.5	2.2	2.6	2.3	3.0	1.3	2.0	2.0	2.2	2.5	1.0	1.8	2.2
20	X - 2484	2.3	3.3	2.0	2.5	2.9	2.5	2.8	2.0	3.0	3.0	2.7	2.8	1.3	2.0	2.5
21	X - 1363 B	1.8	2.4	1.8	2.0	2.8	1.8	3.0	1.0	2.7	2.0	2.2	2.3	1.0	1.6	2.1
CHECKS:																
22	MAHI KANCHAN	2.3	3.0	3.3	2.8	3.0	2.3	3.0	3.8	2.3	4.0	3.1	2.9	2.5	2.7	2.9
23	KIRAN	2.5	2.4	2.5	2.5	2.9	2.5	3.0	3.5	3.0	4.0	3.1	2.8	2.0	2.4	2.8
24	PARKASH	2.8	2.0	2.0	2.3	2.5	2.0	3.0	2.5	3.0	3.0	2.7	2.5	1.0	1.7	2.4
25	X - 3342	2.3	2.4	2.0	2.2	2.6	2.0	3.3	2.5	3.0	3.0	2.7	2.6	1.0	1.8	2.4
MEAN LOCATION																
C.D. AT 5%																
C.V. % =																
P (Prob) =																
.000 .001 .000																
.654 .649 .000 .007 .000																
- 10.4 32.8 7.3 24.0 21.7 2.7																
- 8.5 10.6																
- 0.3																
- 1.6 2.1																
- 2.6																
- 2.4																
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- 2.5																
- 2.1																
- 1.6																
- 2.1																

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	HUSK COVER *										ZN 3		BANG		ZN 4		
		ALMO	BAJA	MEAN	ZN 1	KANP	VARA	DHOL	JASH	MEAN	HYDE	KARI	ARBH	MONS	MAND	COIM	MEAN	ZN 4
1	J H - 31013	2.5	2.2	2.3	2.3	2.9	2.3	3.0	1.5	2.3	2.6	2.0	2.5	3.0	2.3	3.8	2.7	
2	J H - 3982	2.0	2.0	2.0	2.0	2.7	2.3	2.4	2.3	2.3	2.5	2.0	2.3	2.0	2.3	3.0	2.3	
3	J H - 31041	2.1	2.2	2.1	2.1	3.0	2.3	2.4	1.8	2.1	2.1	1.8	2.8	2.8	2.3	3.0	2.5	
4	J C - 3272	2.2	2.3	2.2	2.2	2.8	2.8	2.8	2.0	2.5	2.3	2.8	2.0	2.0	2.0	3.0	2.4	
5	L - 201	2.0	2.3	2.2	2.2	2.8	2.8	2.9	2.3	2.6	2.5	2.3	2.5	2.3	2.7	3.0	2.5	
6	F H - 3273	2.4	2.2	2.3	2.3	2.7	2.8	2.4	2.3	2.5	2.6	2.3	2.0	2.5	2.0	3.0	2.4	
7	F H - 3289	2.0	2.2	2.1	2.1	2.7	2.3	2.4	2.0	2.2	2.3	2.0	2.3	2.3	2.0	3.0	2.3	
8	E H - 1389	2.0	2.0	2.0	2.0	2.5	2.8	2.6	1.5	2.3	2.4	2.3	2.3	2.3	2.0	4.0	2.5	
9	E H - 1485	2.8	2.5	2.7	2.7	2.3	3.0	2.3	3.0	2.8	2.4	1.8	2.5	2.8	2.3	4.0	2.6	
10	B V M - 4-1	2.0	2.7	2.3	2.3	2.7	2.8	2.8	1.8	2.4	2.4	1.8	2.3	2.3	2.0	3.0	2.3	
11	B V M - 8	2.0	2.2	2.1	2.1	2.5	2.3	2.8	1.3	2.1	2.5	1.5	2.0	2.0	2.3	3.0	2.2	
12	H K H - 1199	2.4	2.2	2.3	2.3	2.7	2.8	2.3	2.0	2.3	2.5	1.8	2.3	2.8	2.0	3.0	2.4	
13	H K H - 1237	2.0	2.2	2.1	2.1	2.5	3.0	2.0	2.0	2.3	2.4	2.0	2.0	2.3	2.7	3.0	2.4	
14	A H - 31405	2.1	2.2	2.1	2.1	2.7	2.8	2.8	2.0	2.5	2.5	2.3	2.0	2.8	3.0	4.0	2.8	
15	A H - 31415	2.2	2.3	2.3	2.3	2.8	2.8	2.3	1.5	2.2	2.5	2.0	2.3	2.0	2.7	3.0	2.4	
16	PMZ - 146	1.8	1.8	1.8	1.8	2.2	2.8	2.3	1.0	2.0	2.8	1.8	2.3	2.0	2.0	2.0	2.1	
17	M C H - 26	2.5	2.0	2.3	2.3	2.7	2.8	3.0	1.0	2.3	2.6	2.0	2.3	2.3	2.0	3.0	2.4	
18	M C H - 27	2.0	2.2	2.1	2.1	2.5	1.8	2.0	1.0	1.6	2.5	1.8	2.3	2.3	3.0	2.3		
19	J K M H - 10	1.8	1.8	1.8	1.8	2.5	2.3	2.6	1.3	2.0	2.4	2.0	2.5	2.0	2.0	2.0	2.1	
20	X - 2484	1.8	2.2	2.0	2.0	2.8	2.8	2.5	1.3	2.2	2.4	2.0	2.3	2.3	2.3	3.0	2.4	
21	X - 1363 B	1.7	2.0	1.9	1.9	3.0	2.3	2.5	1.0	1.9	2.4	2.0	2.0	2.0	2.3	2.0	2.1	
CHECKS:																		
22	MAHI KANCHAN	2.2	2.5	2.4	2.4	2.5	2.3	2.4	2.5	2.4	2.6	1.8	2.8	2.3	2.7	4.0	2.7	
23	KIRAN	2.0	2.7	2.3	2.3	2.8	2.8	2.9	2.0	2.5	2.1	2.3	3.0	2.0	2.7	3.0	2.5	
24	PARKASH	2.2	2.2	2.2	2.2	2.8	2.8	2.8	1.3	2.3	2.6	1.8	2.5	2.3	2.0	3.0	2.4	
25	X - 3342	2.2	2.3	2.3	2.3	2.5	1.8	2.9	1.5	2.0	2.5	1.5	2.5	2.3	2.3	3.0	2.3	
MEAN LOCATION																		
C.D. AT 5% =																		
C.V. % =																		
F (Prob) =																		
10.8 13.3 - 16.2 7.0 19.2 24.3 - 12.1 23.9 8.4 17.8 18.4 2.8																		
.000 .049 - .842 .000 .123 .000 - .142 .561 .000 .005 .172 .000																		

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	HUSK COVER *					UNIFORMITY *					ZIN 3 MEAN	
		UDAI	CHHI	ZIN 5 MEAN	OV'L MEAN	ALMO	BAJA	ZIN 1 MEAN	KANP	VARA	DHOL		JASH
1	J H - 31013	2.3	1.8	2.0	2.4	2.8	2.0	2.4	2.8	3.0	1.8	1.5	2.1
2	J H - 3982	2.7	2.0	2.4	2.3	2.8	2.2	2.5	2.7	2.8	2.4	3.3	2.8
3	J H - 31041	2.6	2.0	2.3	2.4	2.9	2.0	2.5	2.8	2.8	2.3	2.3	2.4
4	J C - 3272	2.9	1.5	2.2	2.4	2.9	2.8	2.9	2.3	3.0	3.6	2.8	3.1
5	L - 201	2.9	1.5	2.2	2.5	2.8	2.2	2.5	3.0	2.8	3.1	2.8	2.9
6	F H - 3273	2.8	1.5	2.2	2.4	2.6	1.8	2.2	2.7	2.3	2.0	2.3	2.2
7	F H - 3289	2.5	1.5	2.0	2.2	2.7	1.7	2.2	3.0	2.3	2.1	2.0	2.1
8	E H - 1389	2.3	1.5	1.9	2.3	2.8	2.2	2.5	2.7	2.8	3.0	2.5	2.8
9	E H - 1485	2.6	2.0	2.3	2.6	2.6	2.2	2.4	2.2	2.8	3.0	2.8	2.8
10	B V M - 4-1	2.8	2.0	2.4	2.4	2.9	2.7	2.8	3.0	3.0	3.4	2.5	3.0
11	B V M - 8	2.8	1.8	2.3	2.2	2.9	2.5	2.7	2.7	2.3	3.1	2.0	2.5
12	H K H - 1199	2.7	1.3	2.0	2.3	2.7	2.2	2.4	2.5	2.8	1.8	2.3	2.3
13	H K H - 1237	2.4	1.8	2.1	2.3	2.7	1.8	2.3	2.5	2.3	2.0	3.0	2.4
14	A H - 31405	2.6	1.8	2.2	2.5	2.7	2.0	2.4	2.7	2.8	2.4	1.5	2.2
15	A H - 31415	2.4	1.5	2.0	2.3	2.8	2.2	2.5	2.7	2.8	2.4	2.0	2.4
16	PMZ - 146	2.6	1.0	1.8	2.0	2.6	1.8	2.2	2.2	2.3	2.8	1.8	2.3
17	M C H - 26	2.8	2.0	2.4	2.3	2.7	2.0	2.4	2.8	2.3	2.3	1.5	2.0
18	M C H - 27	2.2	1.3	1.7	2.1	2.8	2.2	2.5	2.8	1.8	2.5	1.5	1.9
19	J K M H - 10	2.4	1.0	1.7	2.0	2.5	1.8	2.2	2.5	2.8	3.1	2.3	2.7
20	X - 2484	2.5	1.8	2.1	2.3	2.8	2.2	2.5	3.0	2.8	2.9	1.8	2.5
21	X - 1363 B	2.3	1.0	1.7	2.0	2.9	2.2	2.5	2.7	1.8	3.0	1.5	2.1
CHECKS:													
22	MAHI KANCHAN	2.9	2.0	2.5	2.5	3.0	2.3	2.6	2.5	3.0	3.4	2.8	3.0
23	KIRAN	2.7	1.8	2.2	2.5	2.8	2.5	2.7	2.8	2.8	3.3	3.0	3.0
24	PARKASH	2.8	1.5	2.2	2.3	2.7	2.0	2.3	2.8	2.8	2.0	1.5	2.1
25	X - 3342	2.8	1.5	2.2	2.3	2.8	2.2	2.5	2.7	2.8	2.9	2.3	2.6
MEAN LOCATION													
C.D. AT 5%		2.6	1.5	2.1	2.3	2.8	2.1	2.5	2.7	2.6	2.7	2.1	2.4
C.V. %		0.4	0.2	0.3	-	0.2	0.5	0.4	0.6	0.1	0.7	0.7	0.5
F (Prob)		10.1	10.9	-	-	5.0	14.6	-	13.4	3.4	19.8	22.0	-
		.002	.000	-	-	.000	.014	-	.424	.000	.000	.000	-

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	UNIFORMITY *										OV'L MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	
1	J H - 31013	3.0	3.0	3.0	2.5	2.7	4.8	3.2	2.3	1.5	1.9	2.6
2	J H - 3982	3.0	2.5	2.8	2.5	2.7	3.0	2.7	2.8	1.8	2.3	2.6
3	J H - 31041	3.0	2.8	2.8	4.0	2.3	3.0	3.0	2.7	1.8	2.2	2.7
4	J C - 3272	3.0	2.8	3.0	4.5	3.0	3.0	3.2	2.9	1.3	2.1	2.9
5	L - 201	3.0	3.0	2.3	3.8	2.7	3.0	2.9	2.9	1.8	2.3	2.8
6	F H - 3273	2.9	2.3	2.5	4.3	2.3	2.0	2.7	2.8	1.5	2.1	2.4
7	F H - 3289	3.0	3.3	2.0	3.0	2.0	2.0	2.5	2.4	1.3	1.8	2.3
8	E H - 1389	3.0	2.8	2.3	4.0	3.0	4.0	3.2	2.3	1.3	1.8	2.7
9	E H - 1485	3.0	2.5	2.5	3.8	2.0	3.0	2.8	2.6	1.8	2.2	2.6
10	B V M - 4-1	3.0	2.8	3.0	4.3	2.7	3.0	3.1	2.8	2.0	2.4	2.9
11	B V M - 8	3.0	2.0	2.5	4.0	3.0	4.0	3.1	2.6	1.8	2.2	2.7
12	H K H - 1199	2.9	2.5	2.0	2.8	2.0	2.0	2.4	2.6	1.5	2.1	2.3
13	H K H - 1237	3.0	2.0	2.0	2.0	2.3	3.0	2.4	2.4	1.5	2.0	2.3
14	A H - 31405	2.9	2.5	2.5	3.5	2.3	4.0	3.0	2.7	1.5	2.1	2.6
15	A H - 31415	3.0	3.0	2.5	2.5	2.0	3.0	2.7	2.3	1.3	1.8	2.5
16	PMZ - 146	3.0	2.5	2.5	3.0	2.0	3.0	2.7	2.7	1.3	2.0	2.4
17	M C H - 26	3.0	3.3	2.3	2.3	2.7	3.0	2.7	2.5	1.0	1.8	2.4
18	M C H - 27	2.8	2.8	2.0	2.0	2.7	2.0	2.4	2.2	1.0	1.6	2.2
19	J K M H - 10	2.9	3.3	2.5	1.0	2.3	2.0	2.3	2.3	1.0	1.6	2.3
20	X - 2484	2.9	2.3	2.3	1.3	3.0	3.0	2.4	2.5	1.3	1.9	2.4
21	X - 1363 B	2.6	3.0	2.0	1.0	2.7	3.0	2.4	2.4	1.3	1.8	2.3
CHECKS:												
22	MAHI KANCHAN	3.0	2.5	2.5	4.5	3.0	4.0	3.3	2.9	1.8	2.3	2.9
23	KIRAN	3.0	2.8	2.8	4.0	2.7	4.0	3.2	2.7	1.5	2.1	2.9
24	PARKASH	2.9	2.3	2.5	3.8	2.7	3.0	2.8	2.8	1.3	2.0	2.5
25	X - 3342	3.0	2.8	2.8	4.0	2.3	3.0	3.0	2.7	1.0	1.9	2.6
MEAN LOCATION												
C.D. AT 5%		0.3	0.9	0.3	1.0	0.8	0.1	0.6	0.4	0.3	0.3	-
C.V. %		6.5	24.1	9.5	25.9	19.7	2.8	-	10.7	13.9	-	-
F (Prob)		.589	.217	.000	.000	.165	.000	-	.004	.000	-	-

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)					VARA	DHOL	JASH	AMBI	ZIN 3 MEAN		
		ALMO	BAJA	ZN 1 MEAN	LU DH	KARN						PANT	KANP
1	J H - 31013	220	179	200	189	203	217	161	243	142	148	202	184
2	J H - 3982	223	152	188	189	195	223	154	255	139	165	204	191
3	J H - 31041	219	152	185	190	195	222	159	230	135	139	209	178
4	J C - 3272	218	179	193	215	223	230	160	270	154	146	223	198
5	L - 201	210	144	177	175	175	215	169	238	131	156	201	181
6	F H - 3273	186	149	168	166	168	212	158	228	127	139	201	173
7	F H - 3289	194	152	173	144	163	198	151	233	116	136	197	170
8	E H - 1389	215	170	192	191	203	242	169	250	147	148	205	187
9	E H - 1485	192	154	173	170	188	195	154	225	136	132	199	173
10	B V M - 4-1	231	172	201	213	190	240	158	228	158	149	231	191
11	B V M - 8	231	160	196	200	232	233	155	228	146	170	219	190
12	H K H - 1199	226	154	190	170	212	223	151	253	140	136	208	184
13	H K H - 1237	224	158	191	168	190	216	167	240	125	138	190	173
14	A H - 31405	205	179	192	181	193	207	169	235	132	146	189	176
15	A H - 31415	235	172	203	206	223	244	158	255	146	168	217	196
16	PMZ - 146	220	166	193	181	170	217	156	245	135	144	201	181
17	M C H - 26	225	188	206	170	188	219	157	253	132	134	206	181
18	M C H - 27	235	174	204	170	215	220	152	240	140	140	199	180
19	J K M H - 10	223	159	191	179	187	229	167	258	127	139	209	183
20	X - 2484	231	172	202	190	193	232	155	253	153	166	221	198
21	X - 1363 B	249	167	208	221	257	270	160	253	172	165	245	208
CHECKS:													
22	MAHI KANCHAN	224	154	189	176	195	233	170	240	153	141	214	187
23	KIRAN	232	171	202	203	217	229	157	243	143	154	205	186
24	PARKASH	222	151	186	180	197	231	163	248	142	141	213	186
25	X - 3342	203	188	195	196	193	230	156	275	132	146	191	186
MEAN LOCATION													
C.D. AT 5%		11.1	19.4	15.2	21.0	9.5	16.0	21.0	4.4	17.7	6.1	20.0	12.0
C.V. %		3.6	7.2	-	8.0	3.0	5.1	8.1	1.1	9.1	3.0	6.8	-
F (Prob)		.000	.000	-	.000	.000	.000	.603	.000	.000	.000	.000	-

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)										ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
		HYDE	BAKA	KARI	BANG PROA	BANG MONS	MAND	COIM	ZN 4 MEAN	UDAI	CHHI						ZN 5 MEAN
1	J H - 31013	98	238	141	221	258	209	127	184	233	179	206	190				
2	J H - 3982	143	229	142	221	258	210	143	192	228	176	202	192				
3	J H - 31041	100	230	143	229	253	195	134	183	211	173	192	185				
4	J C - 3272	123	249	150	222	265	202	138	193	260	190	225	201				
5	L - 201	113	226	146	218	223	210	144	183	213	168	190	183				
6	F H - 3273	123	223	152	197	208	207	122	176	211	170	191	176				
7	F H - 3289	110	214	150	208	240	214	120	179	210	148	179	174				
8	E H - 1389	130	258	154	226	254	195	133	193	248	175	211	195				
9	E H - 1485	113	223	142	213	198	218	123	175	215	156	186	176				
10	B V M - 4-1	125	243	152	224	245	197	143	190	263	166	214	196				
11	B V M - 8	130	246	148	229	253	214	138	194	263	191	227	199				
12	H K H - 1199	125	233	165	207	254	198	134	188	228	166	197	189				
13	H K H - 1237	98	233	159	213	248	224	121	185	220	175	198	184				
14	A H - 31405	120	231	138	225	226	198	116	179	248	179	213	185				
15	A H - 31415	153	240	144	239	269	203	154	200	259	180	219	203				
16	PMZ - 146	103	231	155	226	254	210	140	188	235	165	200	187				
17	M C H - 26	125	233	136	216	265	219	136	190	233	179	206	190				
18	M C H - 27	103	221	152	227	263	204	140	187	225	165	195	189				
19	J K M H - 10	118	229	135	216	265	218	137	188	238	174	206	190				
20	X - 2484	135	253	158	248	274	210	141	203	258	194	226	202				
21	X - 1363 B	153	264	140	269	259	205	174	209	280	208	244	216				
CHECKS:																	
22	MAHI KANCHAN	110	248	151	216	214	213	138	184	233	178	205	189				
23	KIRAN	115	234	140	245	261	203	135	191	258	178	218	196				
24	PARKASH	110	234	153	230	266	207	145	192	238	186	212	192				
25	X - 3342	115	238	143	214	224	216	131	183	243	175	209	190				
MEAN LOCATION																	
C.D. AT 5% =		12.5	19.5	12.6	18.0	28.4	22.5	7.5	17.3	23.0	16.7	19.8	-				
C.V. % =		7.5	5.9	6.2	5.7	8.1	6.6	3.9	-	6.9	6.7	-	-				
F (Prob)		.000	.000	.000	.000	.000	.758	.000	-	.000	.000	-	-				

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)			ZN 1			ZN 2			ZN 3			
		ALMO	BAJA	MEAN	LUDH	KARN	PANT	KANP	MEAN	VARA	DHOL	JASH	AMBI	MEAN
1	J H - 31013	116	87	102	100	105	103	72	95	108	66	71	84	82
2	J H - 3982	108	58	83	90	97	89	70	86	110	64	78	81	83
3	J H - 31041	113	78	96	111	85	95	79	92	90	71	66	80	77
4	J C - 3272	109	82	96	125	112	102	75	103	133	69	71	84	89
5	L - 201	96	62	79	85	82	94	84	86	95	63	66	78	76
6	F H - 3273	86	59	72	81	73	85	77	79	90	53	55	72	67
7	F H - 3289	96	67	81	84	78	87	85	83	98	56	48	77	70
8	E H - 1389	100	70	85	110	103	99	73	96	118	61	67	75	80
9	E H - 1485	89	65	77	88	82	76	78	81	95	62	56	77	73
10	B V M - 4-1	115	78	96	124	105	103	78	103	70	76	64	83	73
11	B V M - 8	121	85	103	121	123	95	77	104	103	63	77	83	81
12	H K H - 1199	113	74	93	98	100	94	68	90	98	67	62	78	76
13	H K H - 1237	114	66	90	86	88	92	77	86	108	59	61	76	76
14	A H - 31405	99	83	91	100	83	88	76	87	88	57	63	84	73
15	A H - 31415	124	78	101	111	108	111	75	101	118	65	78	81	85
16	PMZ - 146	106	78	92	96	75	90	73	83	108	65	66	83	80
17	M C H - 26	111	100	106	93	98	95	80	91	120	59	56	87	80
18	M C H - 27	130	101	115	99	115	95	74	95	103	74	69	92	84
19	J K M H - 10	110	73	92	88	93	88	74	86	125	58	54	76	78
20	X - 2484	106	72	89	101	83	87	76	87	95	60	71	86	78
21	X - 1363 B	129	90	109	104	133	107	71	104	118	75	75	97	91
CHECKS:														
22	MAHI KANCHAN	106	67	86	111	92	98	78	95	105	70	56	82	78
23	KIRAN	120	92	106	108	118	103	69	99	100	64	66	85	79
24	PARKASH	115	68	92	106	95	104	71	94	108	70	55	80	78
25	X - 3342	101	96	98	110	97	100	72	95	120	53	54	78	76
MEAN LOCATION														
C.D. AT 5%		9.0	17.9	13.4	17.6	8.9	10.9	17.0	13.6	5.2	13.9	4.2	8.7	8.0
C.V. %		5.8	14.5	-	12.4	5.7	8.4	13.8	-	3.1	15.6	4.8	7.7	-
F (Prob)		.000	.000	-	.000	.000	.000	.768	-	.000	.037	.000	.000	-

TABLE NO. 5 (CONT.)

Sl NO	PEDIGREE	EAR HEIGHT (cm)				BANG PROA	BANG MONS	MAND	COIM	ZN 4		UDAI	CHHI	ZN 5		OV'L MEAN
		HYDE	BAKA	KARI	KANC					MEAN	MEAN			MEAN	MEAN	
1	J H - 31013	48	110	53	93	131	112	59	86	94	91	93	90			
2	J H - 3982	60	98	59	93	110	107	62	84	85	79	82	84			
3	J H - 31041	43	98	50	93	118	115	64	83	86	93	89	86			
4	J C - 3272	55	110	51	94	124	101	63	85	109	90	99	92			
5	L - 201	40	90	56	83	105	106	64	78	81	80	81	79			
6	F H - 3273	50	86	46	76	79	116	59	73	85	84	84	74			
7	F H - 3289	45	85	52	84	98	110	62	76	78	64	71	76			
8	E H - 1389	58	111	57	94	103	109	60	84	110	80	95	87			
9	E H - 1485	40	94	55	86	94	105	50	75	85	71	78	76			
10	B V M - 4-1	53	108	56	96	118	103	66	85	110	80	95	89			
11	B V M - 8	53	110	50	88	133	107	64	86	130	102	116	94			
12	H K H - 1199	58	101	61	92	124	102	63	86	98	76	87	85			
13	H K H - 1237	45	95	60	88	123	104	60	82	88	80	84	83			
14	A H - 31405	48	95	46	85	108	104	59	78	103	86	94	82			
15	A H - 31415	63	115	49	107	135	110	80	94	123	88	105	96			
16	PMZ - 146	48	101	55	87	113	113	67	83	108	80	94	85			
17	M C H - 26	63	98	51	96	130	123	73	90	94	90	92	90			
18	M C H - 27	50	91	53	97	139	112	76	88	106	89	98	93			
19	J K M H - 10	40	94	56	83	113	115	61	80	89	89	89	83			
20	X - 2484	50	104	54	93	131	107	68	87	98	94	96	86			
21	X - 1363 B	63	118	51	105	150	103	80	96	115	104	109	99			
CHECKS:																
22	MAHI KANCHAN	43	108	50	90	110	117	65	83	94	85	89	85			
23	KIRAN	45	105	48	105	133	113	68	88	114	86	100	91			
24	PARKASH	43	100	58	88	148	110	75	89	105	88	96	89			
25	X - 3342	48	111	56	80	105	107	68	82	99	81	90	86			
MEAN LOCATION																
C.D. AT 5%		7.8	16.0	12.6	12.1	19.3	15.5	5.5	12.7	18.6	13.2	15.9	-			
C.V. %		11.2	11.3	17.0	9.6	11.6	8.8	6.0	-	13.6	11.1	-	-			
P (Prob)		.000	.000	.553	.000	.000	.126	.000	-	.000	.000	-	-			

TABLE NO. 5 (CONT.)

Sl No	PEDIGREE	EAR No. / PLANT											OV'L MEAN			
		ALMO	LUDH	VARA	JASH	AMBI	HYDE	BAKA	KARI	PROA	MONS	MAND	COIM	UDAI	CHHI	MEAN
1	J H - 31013	1.08	1.03	1.01	1.00	1.06	1.02	0.96	1.05	1.16	0.97	1.01	0.98	0.95	0.99	1.02
2	J H - 3982	1.06	1.01	1.07	1.01	1.01	1.11	0.84	0.92	1.01	0.97	1.04	0.89	0.91	1.01	0.99
3	J H - 31041	1.05	0.98	0.98	1.00	0.99	1.02	0.94	0.92	0.99	1.00	0.94	0.93	0.94	0.95	0.97
4	J C - 3272	1.02	1.02	0.99	1.00	1.01	1.04	1.04	0.88	0.99	1.01	0.94	0.90	0.92	0.96	0.98
5	L - 201	1.06	0.98	1.06	1.00	1.04	1.00	0.98	0.89	1.01	1.01	1.11	0.96	0.97	0.99	1.00
6	F H - 3273	1.08	0.92	1.01	1.00	1.07	1.02	1.00	0.99	0.97	0.94	0.98	0.93	0.89	0.97	0.98
7	F H - 3289	1.05	0.93	1.05	1.00	1.02	1.03	0.97	0.97	0.94	0.99	1.07	0.88	0.92	0.96	0.98
8	E H - 1389	1.09	1.04	0.92	1.00	1.09	1.08	0.99	0.94	1.01	0.96	0.96	0.91	1.02	0.96	1.00
9	E H - 1485	1.11	1.03	1.04	1.00	1.00	1.05	0.90	0.90	1.03	0.96	1.06	0.98	0.87	0.95	0.99
10	B V M - 4-1	1.06	0.99	0.98	1.00	1.03	1.00	1.06	1.05	1.02	0.98	1.16	0.90	0.91	0.95	1.01
11	B V M - 8	1.03	1.06	1.02	1.00	1.01	1.11	0.98	0.90	1.03	0.98	1.00	0.90	0.96	0.96	0.99
12	H K H - 1199	1.04	0.95	1.01	1.00	1.05	1.05	0.96	0.93	1.01	0.95	0.95	0.96	0.93	1.04	0.99
13	H K H - 1237	1.02	1.11	0.98	1.00	1.05	1.00	1.03	0.91	0.98	0.89	1.04	0.91	0.94	0.98	0.99
14	A H - 31405	1.08	1.06	0.96	1.00	1.04	1.00	1.04	0.98	1.07	0.98	1.04	0.99	0.88	1.00	1.01
15	A H - 31415	1.03	1.11	1.03	1.00	1.05	1.03	1.04	0.96	0.99	0.95	0.98	0.94	0.97	1.14	1.02
16	PMZ - 146	1.05	1.10	1.03	1.00	1.00	1.14	1.00	1.05	1.01	0.98	1.00	0.93	0.92	1.04	1.02
17	M C H - 26	1.06	1.02	0.97	1.00	1.02	1.09	0.99	0.87	0.97	0.98	1.08	0.91	0.90	0.99	0.99
18	M C H - 27	1.07	1.14	1.01	1.00	1.04	1.00	1.07	1.01	1.01	0.97	0.98	0.95	0.97	1.03	1.02
19	J K M H - 10	1.12	0.98	1.01	1.00	1.00	1.00	1.03	0.99	0.99	0.96	1.00	0.91	0.96	0.95	0.99
20	X - 2484	1.08	1.61	0.97	1.00	0.98	1.09	1.00	0.94	1.00	0.99	1.00	0.88	0.94	1.00	1.03
21	X - 1363 B	1.05	1.01	0.95	1.00	0.99	1.00	1.06	0.93	1.01	1.01	0.83	0.91	0.90	0.97	0.97
CHECKS:																
22	MAHI KANCHAN	1.04	1.12	0.96	1.00	1.05	1.00	0.90	1.03	0.97	0.97	1.01	0.86	0.97	1.02	0.99
23	KIRAN	1.03	1.19	0.93	1.00	1.06	1.00	0.96	0.98	0.99	0.93	1.00	0.95	0.89	0.98	0.99
24	PARKASH	1.02	1.19	1.05	1.00	1.06	1.06	0.96	0.84	1.00	0.91	0.98	0.93	0.90	0.98	0.99
25	X - 3342	1.04	1.10	0.98	1.00	0.99	1.14	0.98	0.94	0.92	0.95	1.04	0.84	0.90	0.95	0.98
MEAN LOCATION																
C.D. AT 5%																
C.V. %																
F (Prob)																

TABLE NO. 5 (CONT.)

SL NO PEDIGREE	H. turcicum *				H. maydis *				BLSB *		
	ALMO	BAJA	ZN 1 MEAN	BANG PROA	BANG MONS	ZN 4 MEAN	OV'L MEAN	ZN 1 ALMO	ZN 3 JASH	OV'L MEAN	JASH
1 J H - 31013	3.0	1.8	2.4	4.8	3.5	4.1	3.3	1.9	2.3	2.1	2.6
2 J H - 3982	3.6	1.5	2.5	4.5	3.3	3.9	3.2	2.0	2.6	2.3	3.4
3 J H - 31041	3.2	1.5	2.3	4.5	3.8	4.1	3.2	2.0	2.4	2.2	2.6
4 J C - 3272	4.2	2.5	3.3	3.5	3.8	3.6	3.5	1.9	3.3	2.6	2.6
5 L - 201	2.6	1.0	1.8	3.5	3.3	3.4	2.6	2.7	3.3	3.0	3.4
6 F H - 3273	2.2	1.2	1.7	3.0	3.0	3.0	2.3	1.7	1.8	1.7	3.5
7 F H - 3289	2.3	1.0	1.6	2.8	3.3	3.0	2.3	1.8	2.3	2.0	2.8
8 E H - 1389	2.7	1.5	2.1	4.0	3.3	3.6	2.9	2.0	3.3	2.6	2.6
9 E H - 1485	2.5	1.5	2.0	4.3	3.3	3.8	2.9	2.0	3.1	2.6	2.5
10 B V M - 4-1	3.0	1.7	2.3	4.0	3.5	3.8	3.0	2.0	3.6	2.8	3.0
11 B V M - 8	3.8	1.8	2.8	3.3	3.3	3.3	3.0	2.0	3.1	2.5	3.1
12 H K H - 1199	2.4	1.3	1.9	3.0	3.5	3.3	2.6	2.0	2.9	2.4	2.5
13 H K H - 1237	3.0	1.3	2.2	3.5	3.3	3.4	2.8	2.0	3.0	2.5	3.3
14 A H - 31405	2.3	1.2	1.8	4.3	3.5	3.9	2.8	2.0	2.6	2.3	2.8
15 A H - 31415	3.2	1.7	2.4	4.0	3.0	3.5	3.0	2.2	3.1	2.6	2.6
16 PMZ - 146	1.9	1.0	1.5	2.8	3.0	2.9	2.2	1.7	2.3	2.0	2.9
17 M C H - 26	1.9	1.0	1.5	3.3	3.0	3.1	2.3	1.8	1.8	1.8	2.8
18 M C H - 27	2.3	1.2	1.7	3.5	3.3	3.4	2.6	1.8	2.1	2.0	2.5
19 J K M H - 10	1.6	1.2	1.4	3.0	3.3	3.1	2.3	1.6	2.1	1.9	2.6
20 X - 2484	2.5	1.7	2.1	3.5	3.3	3.4	2.7	1.8	3.0	2.4	2.6
21 X - 1363 B	2.0	1.2	1.6	2.3	2.8	2.5	2.0	1.6	2.3	2.0	2.5
CHECKS:											
22 MAHI KANCHAN	3.6	2.5	3.0	4.3	3.8	4.0	3.5	2.1	4.0	3.0	3.1
23 KIRAN	3.3	1.7	2.5	4.5	2.8	3.6	3.1	1.8	3.4	2.6	3.1
24 PARKASH	3.8	2.2	3.0	4.3	3.0	3.6	3.3	1.8	2.8	2.3	3.0
25 X - 3342	2.1	1.2	1.6	3.3	3.3	3.3	2.4	1.8	2.3	2.0	2.5
MEAN LOCATION											
C.D. AT 5% =	0.4	0.4	0.4	0.8	0.7	0.8	-	0.3	0.5	-	0.6
C.V. % =	12.5	19.4	-	17.4	14.7	-	-	11.6	12.8	-	15.7
F (Prob)	.000	.000	-	.000	.190	-	-	.000	.000	-	.008

TABLE NO. 5 (CONT.)

S1 NO PEDIGREE	STAND AT HARVEST										
	ALMO	BAJA	LUJH	KARN	PANT	KANP	VARA	DHOL	JASH	AMBI	HYDE
1 J H - 31013	21	28	36	28	30	32	37	39	32	31	12
2 J H - 3982	22	31	37	27	36	32	37	36	29	36	13
3 J H - 31041	22	30	35	26	32	33	37	38	26	34	11
4 J C - 3272	21	28	33	24	33	32	39	42	30	34	9
5 L - 201	21	34	35	24	37	33	37	37	31	35	9
6 F H - 3273	21	32	37	27	39	33	39	37	33	39	16
7 F H - 3289	20	30	36	24	36	33	39	39	31	41	13
8 E H - 1389	22	28	35	24	29	35	44	34	30	31	12
9 E H - 1485	19	28	33	23	26	33	36	36	30	26	8
10 B V M - 4-1	23	28	34	24	28	33	37	40	28	34	15
11 B V M - 8	20	28	32	23	27	34	38	34	33	31	13
12 H K H - 1199	20	29	24	24	19	34	34	31	30	27	17
13 H K H - 1237	20	28	29	25	16	36	36	25	27	27	16
14 A H - 31405	21	29	33	25	23	32	37	24	30	27	14
15 A H - 31415	20	29	33	25	28	34	36	36	29	34	15
16 PMZ - 146	22	32	36	26	36	33	37	37	31	40	18
17 M C H - 26	23	29	33	26	32	33	36	37	31	39	16
18 M C H - 27	21	33	37	25	36	34	36	38	32	41	19
19 J K M H - 10	21	29	37	26	25	32	39	34	30	31	21
20 X - 2484	22	32	37	27	36	35	37	40	33	42	17
21 X - 1363 B	23	34	34	26	32	31	37	37	31	37	21
CHECKS:											
22 MAHI KANCRAN	21	31	35	27	32	32	35	36	33	31	13
23 KIRAN	19	37	29	27	30	34	38	38	32	28	15
24 PARKASH	20	28	29	26	28	33	37	35	29	30	14
25 X - 3342	21	31	35	28	38	33	37	41	32	35	24
MEAN LOCATION											
C.D. AT 5%	2.4	3.6	5.4	3.0	8.9	2.4	3.5	6.2	3.1	6.3	8.7
C.V. %	8.1	7.3	11.5	7.3	22.2	4.4	5.8	12.6	7.2	13.2	41.6
F (Prob)	.027	.000	.000	.015	.000	.130	.075	.000	.000	.000	.102

TABLE NO. 5 (CONT.)

SI NO	PEDIGREE	STAND AT HARVEST										OV'L MEAN
		BAKA	KARI	ARBH	PROA	BANG MONS	MAND	COIM	UDAI	CHHI		
1	J H - 31013	31	37	45	34	41	29	19	36	42	32	
2	J H - 3982	31	31	45	34	40	32	27	38	43	33	
3	J H - 31041	30	33	40	34	39	29	18	35	42	31	
4	J C - 3272	25	34	35	32	38	36	25	31	39	31	
5	L - 201	27	31	44	33	35	28	22	30	42	31	
6	F H - 3273	30	32	44	34	40	36	30	33	38	33	
7	F H - 3289	26	29	42	34	39	33	24	36	43	32	
8	E H - 1389	32	35	45	34	39	32	24	35	43	32	
9	E H - 1485	24	36	41	33	35	33	29	35	41	30	
10	B V M - 4-1	26	35	42	33	41	30	26	29	38	31	
11	B V M - 8	26	31	38	33	38	30	24	33	36	30	
12	H K H - 1199	27	34	40	34	41	29	19	27	27	28	
13	H K H - 1237	28	38	42	34	40	33	22	29	32	29	
14	A H - 31405	27	28	39	34	40	31	20	33	39	29	
15	A H - 31415	29	30	38	34	39	31	20	32	40	31	
16	PMZ - 146	33	34	43	34	41	33	32	33	43	34	
17	M C H - 26	26	33	50	34	39	37	29	31	42	33	
18	M C H - 27	31	37	43	34	41	34	31	40	42	34	
19	J K M H - 10	32	28	45	34	41	32	26	40	35	32	
20	X - 2484	32	33	44	34	39	33	20	36	41	33	
21	X - 1363 B	32	35	45	34	41	34	29	30	44	33	
CHECKS:												
22	MAHI KANCHAN	23	29	40	34	39	29	22	30	41	31	
23	KIRAN	24	33	37	33	38	28	20	29	36	30	
24	PARKASH	19	27	39	34	39	28	27	30	34	29	
25	X - 3342	27	36	45	34	41	35	27	33	42	34	
MEAN LOCATION												
C.D. AT 5% =		6.0	4.5	7.0	1.3	3.3	7.0	3.3	6.5	5.8	-	
C.V. % =		15.4	9.8	12.0	2.8	6.0	13.5	9.4	14.1	10.8	-	
F (Prob)		.000	.000	.014	.025	.009	.625	.000	.004	.000	-	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 11 ENTRIES)

TABLE NO. 6
 PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT ALMORA, BAJAURA, KANGRA, LUDHIANA, KARNAL, PANTNAGAR, KANPUR, BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, AMBICAPUR, HYDERABAD, KARIMNAGAR, ARHAVI, MANDYA, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN IET TRIAL No. TR64 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		ALMO			BAJA			KANG			ZN 1		
		R	R	R	R	R	R	R	R	R	R	R	R
1	D E H - 105	4392	21	4070	19	3638	17	4033	22				
2	D E H - 107	4906	16	3847	21	3493	22	4082	21				
3	D E H - 111	4114	22	3739	22	3435	23	3763	24				
4	F H - 3245	7547	1	829	12	5899	2	6092	2				
5	F H - 3248	6982	5	5232	6	5382	4	5865	3				
6	F H - 3277	5970	9	5171	8	3886	12	5009	11				
7	F H - 3288	7383	3	5085	9	3655	16	5374	8				
8	V L - 103	4879	17	4497	15	3499	20	4292	15				
9	V L - 105	5134	14	4049	20	3326	24	4170	19				
10	V L - 108	4980	15	4299	17	3784	14	4354	14				
11	V L - 109	4049	23	4664	13	3598	18	4103	20				
12	V L - 110	5506	13	3396	24	3953	10	4285	16				
13	V L - 111	4724	19	4530	14	3552	19	4269	17				
14	J H - 31053	4429	20	4918	11	3904	11	4417	13				
15	CHH - 212	5921	10	6223	2	4212	9	5452	5				
16	CHH - 215	7180	4	5247	5	3813	13	5413	6				
17	IC-0301 (SZM 421)	6015	8	5174	7	3718	15	4969	12				
18	SURYA	3097	24	3636	23	4718	8	3817	23				
19	HIM - 129	4751	18	4365	16	3497	21	4204	18				
	MEAN YIELD=	5551		4747		4215		4838					
	MEAN STAND	22		35		23		27					
	C.D. AT 5%	1421		902		1284		1202					
	C.V. %	18.15		11.57		18.54							
	F (Prob)	.000		.000		.000		.000					
	PLOT SIZE=	3.60		4.80		4.80							
	AGRONOMY DATA:												
	SOWING DATE (2004)	12-07		10-06		9-06							
	HARVEST DATE (2004)	9-11		8-10		21-09							
	IRRIGATION NOS	-		2		-							
	FERTILIZER APPLIED	N 80		120		80							
		P 60		60		60							
		K 40		40		40							

TABLE NO. 6 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												Zn 2	
		LJUH	R	KARN	R	PANT	R	KANP	R	MEAN	R				
1	D E H - 105	2863	17	3714	23	5145	19	5638	20	4340	22	4340	22		
2	D E H - 107	3752	10	4505	17	4683	23	5476	22	4604	18	4604	18		
3	D E H - 111	3434	15	4340	18	5083	21	5373	24	4557	19	4557	19		
4	F H - 3245	3544	12	4854	14	7061	4	6373	10	5458	10	5458	10		
5	F H - 3248	3551	11	4863	12	6718	5	5527	21	5165	12	5165	12		
6	F H - 3277	3457	14	3061	24	5527	13	6788	8	4708	16	4708	16		
7	F H - 3288	3528	13	4556	16	5929	10	6802	7	5204	11	5204	11		
8	V L - 103	2806	19	4903	10	5407	15	5804	18	4730	15	4730	15		
9	V L - 105	2819	18	4178	19	5084	20	6074	15	4539	20	4539	20		
10	V L - 108	2383	23	3809	22	5294	17	5848	17	4333	23	4333	23		
11	V L - 109	2638	22	4893	11	5506	14	5419	23	4614	17	4614	17		
12	V L - 110	2744	20	3836	21	4257	24	5744	19	4145	24	4145	24		
13	V L - 111	2890	16	5010	8	5342	16	6217	13	4865	13	4865	13		
14	J H - 31053	5644	2	4988	9	6025	9	6949	6	5901	6	5901	6		
15	CHH - 212	5303	3	5059	7	6030	8	7289	1	5920	5	5920	5		
16	CHH - 215	4839	4	6371	2	6209	7	6980	5	6100	3	6100	3		
17	IC-0301 (SZM 421)	4556	5	5577	5	5695	12	7169	2	5750	8	5750	8		
CHECKS:															
18	SURYA	1925	24	3857	20	5180	18	7140	3	4526	21	4526	21		
19	HIM - 129	2726	21	5119	6	4970	22	6115	14	4733	14	4733	14		
	MEAN YIELD=	3686		4822		5874		6298		5170		5170			
	MEAN STAND	34		24		37		36		33		33			
	C.D. AT 5%	1518		300		1264		878		990		990			
	C.V. %	29.20		3.78		15.26		8.49		-		-			
	F (Prob)	.000		.000		.000		.000		.000		.000			
	PLOT SIZE=	5.46		4.50		7.50		6.00		-		-			
AGRONOMY DATA:															
	SOWING DATE(2004)	8-07		20-06		11-06		24-06		-		-			
	HARVEST DATE(2004)	24-10		22-09		6-10		20-09		-		-			
	IRRIGATION NOS	-		3		-		-		-		-			
	FERTILIZER APPLIED	N 90		150		120		80		-		-			
		P 40		60		60		40		-		-			
		K -		40		-		40		-		-			

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		BELI	R	VARA	R	DHOL	R	KUSH	R	AMBI	R	MEAN	R		
1	D E H - 105	3715	9	4367	18	2949	10	2190	24	5226	15	3689	16		
2	D E H - 107	3301	17	4782	12	1989	24	2671	19	5370	10	3623	19		
3	D E H - 111	3709	10	4499	15	2162	22	2806	14	5746	7	3785	13		
4	F H - 3245	3808	8	6895	1	2450	18	3188	7	5825	6	4433	5		
5	F H - 3248	4501	3	6827	2	2689	13	3045	8	5905	5	4593	4		
6	F H - 3277	3913	6	4301	19	2580	16	2643	21	5255	14	3738	15		
7	F H - 3288	3555	12	5928	4	2811	11	2974	9	6200	3	4294	7		
8	V L - 103	2898	23	4114	20	2378	21	2589	22	4669	21	3330	23		
9	V L - 105	3310	16	3961	21	2624	14	2930	12	4473	23	3460	22		
10	V L - 108	3130	21	3803	23	2705	12	2760	16	5022	18	3484	20		
11	V L - 109	3148	20	5217	10	2612	15	2942	11	4493	22	3682	17		
12	V L - 110	3520	13	5396	9	2381	20	2566	23	5290	13	3831	12		
13	V L - 111	3197	19	4582	13	2558	17	2670	20	5323	12	3666	18		
14	J H - 31053	3892	7	4500	14	3126	9	3410	5	5519	8	4089	10		
15	CHH - 212	3976	5	5769	6	3896	2	2871	13	5071	17	4317	6		
16	CHH - 215	3396	15	4467	16	3206	7	3483	4	6361	2	4183	8		
17	IC-0301 (SZM 421)	3610	11	4458	17	3170	8	2753	18	4886	20	3775	14		
CHECKS:															
18	SURYA	3228	18	3880	22	2156	23	2761	15	4149	24	3235	24		
19	HIM - 129	3451	14	3743	24	2387	19	2759	17	4980	19	3464	21		
	MEAN YIELD=	3619		5002		2869		2995		5366		3970			
	MEAN STAND	34		36		35		33		36		35			
	C.D. AT 5%	419		456		1069		743		1073		752			
	C.V. %	8.21		5.55		26.42		17.60		14.18		-			
	F (Prob)	.003		.028		.000		.000		6.00		-			
	PLOT SIZE=	6.00		7.50		7.50		7.50		6.00		-			
AGRONOMY DATA:															
	SOWING DATE(2004)	28-06		28-06		24-06		14-07		25-06		-			
	HARVEST DATE(2004)	30-09		1-10		7-10		19-10		-		-			
	IRRIGATION NOS	2		2		-		2		-		-			
	FERTILIZER APPLIED N	120		80		100		120		80		-			
	P	60		40		60		60		50		-			
	K	60		40		40		40		30		-			

TABLE NO. 6 (CONT.)

		GRAIN YIELD (kg/ha) AT 15% MOISTURE																ZN 4	
SI	NO PEDIGREE	HYDE	R	KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R	MEAN	R		
1	D E H - 105	1836	21	2513	14	4012	22	4725	14	2954	23	3024	22	3177	21				
2	D E H - 107	2341	10	1917	16	4572	14	3833	24	3837	12	3917	15	3403	17				
3	D E H - 111	2020	17	1797	19	4036	20	5745	4	3361	17	4295	11	3542	15				
4	F H - 3245	2224	13	3211	10	5827	5	4596	17	4277	7	5552	3	4281	10				
5	F H - 3248	2314	11	3236	9	5514	9	4644	15	4628	5	5480	5	4303	8				
6	F H - 3277	2517	8	1762	20	5725	6	4794	13	4270	8	4504	10	3929	13				
7	F H - 3288	2812	3	3514	7	6165	2	4162	21	4353	6	5748	1	4459	3				
8	V L - 103	2083	15	2330	15	4141	17	6412	1	3528	16	3839	16	3722	14				
9	V L - 105	2051	16	1465	24	4190	15	4819	12	3220	20	4703	8	3408	16				
10	V L - 108	1943	19	1750	21	4018	21	4099	22	3345	18	2957	23	3019	23				
11	V L - 109	1903	20	1857	18	3963	23	5186	9	3203	21	3225	20	3223	19				
12	V L - 110	1641	24	1700	22	4145	16	5112	10	3754	14	3662	17	3336	18				
13	V L - 111	1650	23	1657	23	4140	18	5532	6	3038	22	3195	21	3202	20				
14	J H - 31053	2233	12	4716	1	5545	8	5221	8	3779	13	5120	7	4436	4				
15	CHH - 212	2654	6	3960	3	5417	12	4619	16	4995	1	4160	13	4301	9				
16	CHH - 215	2098	14	3752	6	6047	3	4008	23	4836	3	5646	2	4398	6				
17	IC-0301 (SZM 421)	2438	9	3880	5	5282	13	6322	2	4262	9	4268	12	4409	5				
CHECKS:																			
18	SURYA	1968	18	2546	13	3677	24	4226	20	2504	24	2265	24	2865	24				
19	HIM - 129	1743	22	1896	17	4066	19	4366	19	3344	19	3473	19	3148	22				
	MEAN YIELD=	2297		2812		5018		4953		3887		4253		3870					
	MEAN STAND	17		35		42		36		28		43		33					
	C.D. AT 5% =	749		856		908		1840		470		1643		1078					
	C.V. % =	23.14		21.60		12.83		22.61		8.57		23.52							
	F (Prob)			.000		.000		.458		.000		.001		.000					
	PLOT SIZE=	7.50		6.00		7.50		7.50		4.80		6.00							
AGRONOMY DATA:																			
	SOWING DATE (2004)	6-07		13-07		5-07		24-07		30-06		16-07							
	HARVEST DATE (2004)	26-10		28-10		2-12		7-12		11-10		2-11							
	IRRIGATION NOS	7				8		6		8									
	FERTILIZER APPLIED N	120		180		150		150		135		100							
	P	60		60		75		75		63		50							
	K	40		40		38		40		50		30							

TABLE NO. 6 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha)						AT 15% MOISTURE	
		UDAI	R	CHHI	R	MEAN	R	ZN 5	OV'L
1	D E H - 105	3374	9	3594	21	3484	16	3697	22
2	D E H - 107	3293	12	4090	15	3691	14	3829	15
3	D E H - 111	3147	16	3318	22	3233	20	3808	17
4	F H - 3245	3238	13	5564	13	4401	12	4838	6
5	F H - 3248	3149	15	5609	12	4379	13	4790	8
6	F H - 3277	3761	4	6493	6	5127	4	4319	13
7	F H - 3288	4172	1	5746	11	4959	7	4754	9
8	V L - 103	3074	18	4059	16	3566	15	3895	14
9	V L - 105	2823	20	3827	18	3325	19	3753	18
10	V L - 108	2453	23	4225	14	3339	18	3630	23
11	V L - 109	2653	21	2964	24	2808	24	3707	21
12	V L - 110	2895	19	3254	23	3075	22	3738	19
13	V L - 111	2458	22	3909	17	3184	21	3809	16
14	J H - 31053	3404	8	6377	8	4891	9	4685	11
15	CHH - 212	3468	7	5996	10	4732	11	4845	5
16	CHH - 215	3743	5	6271	9	5007	6	4898	4
17	IC-0301 (SZM 421)	3353	11	6543	5	4948	8	4656	12
CHECKS:									
18	SURYA	2321	24	3782	19	3051	23	3451	24
19	HIM - 129	3090	17	3669	20	3380	17	3726	20
	MEAN YIELD=	3249		5275		4262		4339	
	MEAN STAND	33		40		36		33	
	C.D. AT 5%	455		989		722		962	
	C.V. %	9.94		13.29		-		-	
	F (Prob)	.000							
	PLOT SIZE=	6.00		6.00		-		-	
AGRONOMY DATA:									
	SOWING DATE(2004)	1-07		30-06		-		-	
	HARVEST DATE(2004)	8-10		26-10		-		-	
	IRRIGATION NOS	-		-		-		-	
	FERTILIZER APPLIED	N 90		80		-		-	
		P 60		50		-		-	
		K -		30		-		-	

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	DAYS TO 50 % POLLEN SHED													
		ZN 1					ZN 2					GORA		ZN 3	
		ALMO	BAJA	KANG	MEAN	LUDH	KARN	KANP	MEAN	BELI	VARA	DHOL	KUSH	AMBI	MEAN
1	D E H - 105	46.3	68.0	48.7	54.3	48.0	47.3	33.3	42.9	49.5	44.3	50.0	44.3	46.3	46.9
2	D E H - 107	49.0	65.0	48.7	54.2	47.5	47.0	34.0	42.8	49.0	44.3	49.0	45.0	45.8	46.6
3	D E H - 111	48.8	69.7	48.7	55.7	46.8	46.0	35.3	42.7	49.5	43.3	47.8	44.8	45.0	46.1
4	F H - 3245	51.3	70.0	52.7	58.0	49.8	48.0	45.0	47.6	49.5	45.3	50.8	46.0	48.0	47.9
5	F H - 3248	52.0	68.7	48.3	56.3	51.0	48.0	39.0	46.0	51.0	48.0	51.8	46.3	49.5	49.3
6	F H - 3277	50.0	69.0	47.7	55.6	50.3	47.7	48.3	48.8	50.8	46.7	50.5	46.0	46.3	48.0
7	F H - 3288	50.8	69.3	48.7	56.3	47.0	47.0	48.0	47.3	50.0	47.3	48.3	45.5	47.5	47.7
8	V L - 103	49.8	67.0	48.0	54.9	49.3	47.3	48.0	48.2	50.0	44.0	49.0	45.5	46.0	46.9
9	V L - 105	49.0	70.0	47.7	55.6	47.5	45.3	42.7	45.2	50.0	43.3	48.8	44.5	46.3	46.6
10	V L - 108	48.3	66.0	50.7	55.0	48.0	47.3	44.0	46.4	51.0	43.3	49.8	45.5	46.0	47.1
11	V L - 109	48.0	65.0	48.7	53.9	47.8	45.0	39.0	43.9	50.5	42.3	46.3	44.8	44.8	45.7
12	V L - 110	48.8	70.3	45.7	54.9	46.0	46.7	36.0	42.9	52.5	44.0	49.5	45.3	45.3	47.3
13	V L - 111	47.5	64.0	45.7	52.4	47.3	46.7	36.0	43.3	50.8	43.3	48.3	45.0	44.3	46.3
14	J H - 31053	53.5	71.0	48.7	57.7	51.3	47.7	47.0	48.6	51.0	48.3	50.5	46.3	50.0	49.2
15	CHH - 212	56.3	72.7	47.3	58.7	54.5	51.7	51.0	52.4	52.3	51.0	56.3	50.5	52.5	52.5
16	CHH - 215	53.8	70.0	52.7	58.8	54.5	52.0	51.0	52.5	50.8	51.0	54.8	49.0	49.8	51.0
17	IC-0301 (SZM 421)	55.5	71.3	50.3	59.1	53.8	50.3	48.0	50.7	54.5	51.3	53.5	49.0	50.0	51.7
CHECKS:															
18	SURYA	49.8	70.0	45.7	55.1	48.8	47.0	48.0	47.9	50.5	43.7	48.5	45.3	45.5	46.7
19	HIM - 129	47.3	66.3	45.7	53.1	46.3	45.3	37.0	42.9	50.3	43.7	47.3	44.5	44.0	45.9
MEAN LOCATION		50.3	68.6	48.4	55.8	49.6	47.6	43.4	46.8	50.9	46.2	50.2	46.1	47.4	48.2
C.D. AT 5%		2.3	1.7	0.9	1.6	2.9	1.0	2.1	2.0	0.8	1.5	2.4	1.8	1.6	1.6
C.V. %		3.3	1.5	1.1	-	4.2	1.3	2.9	-	1.1	2.0	3.4	2.8	2.5	-
F (Prob)		.000	.000	.000	-	.000	.000	.000	-	.000	.000	.000	.000	.000	-

TABLE NO. 6 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% POLLEN SHED										OV'L MEAN
	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	
1 DEH - 105	53.5	41.3	49.0	43.3	46.0	56.0	48.2	46.8	49.5	48.1	48.0
2 DEH - 107	52.8	41.5	47.8	43.3	45.5	53.0	47.3	45.5	49.0	47.3	47.5
3 DEH - 111	53.3	41.5	47.5	43.0	45.5	53.7	47.4	45.3	49.5	47.4	47.6
4 FH - 3245	50.0	44.8	48.5	44.3	45.3	57.7	48.4	48.3	49.5	48.9	49.7
5 FH - 3248	52.3	44.8	47.8	44.7	46.5	57.7	48.9	48.8	50.3	49.5	49.8
6 FH - 3277	53.8	44.5	48.0	44.0	45.8	57.3	48.9	46.5	52.0	49.3	49.7
7 FH - 3288	52.8	45.0	49.5	44.0	45.8	56.7	48.9	49.0	50.3	49.6	49.6
8 VL - 103	52.3	42.0	48.5	44.0	45.8	54.7	47.9	47.0	50.3	48.6	48.9
9 VL - 105	52.8	42.8	48.8	43.0	45.3	54.0	47.8	46.5	50.3	48.4	48.3
10 VL - 108	53.5	41.8	47.8	43.3	44.8	53.7	47.5	46.3	47.5	46.9	48.3
11 VL - 109	54.3	41.3	47.8	43.0	46.0	54.3	47.8	43.3	49.3	46.3	47.4
12 VL - 110	53.3	41.0	47.8	43.3	45.3	51.7	47.0	44.3	47.8	46.0	47.6
13 VL - 111	51.3	42.0	49.0	43.7	45.0	53.0	47.3	44.0	48.5	46.3	47.1
14 JH - 31053	55.0	45.0	47.3	46.7	46.3	60.7	50.1	50.8	56.0	53.4	51.2
15 CHH - 212	52.5	46.0	49.3	49.0	49.8	59.7	51.0	52.3	57.3	54.8	53.2
16 CHH - 215	52.0	45.0	46.5	45.7	47.3	59.7	49.3	51.8	57.0	54.4	52.3
17 IC-0301 (SZM 421)	52.3	44.8	48.0	46.0	50.0	63.0	50.7	51.8	58.0	54.9	52.7
CHECKS:											
18 SURYA	53.8	43.8	49.0	44.7	46.0	55.0	48.7	46.8	50.5	48.6	49.1
19 HIM - 129	52.5	40.5	48.8	43.0	46.0	53.3	47.3	43.3	48.5	45.9	47.0
MEAN LOCATION											
C.D. AT 5% =	3.0	1.2	2.7	1.7	1.4	2.9	2.1	1.1	1.9	1.5	-
C.V. % =	4.0	1.9	3.9	2.3	2.1	3.1	-	1.6	2.7	-	-
F (Prob)	.449	.000	.852	.000	.000	.000	-	.000	.000	-	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	DAYS TO 50 % SILKING												
		ZN 1					ZN 2					GORA		
		ALMO	BAJA	KANG	MEAN	LUDH	KARN	PANT	KANP	MEAN	BELI	VARA	DHOL	KUSH
1	DEH - 105	50.0	71.3	53.3	58.2	49.5	49.3	53.3	37.3	47.4	51.5	50.3	52.8	45.8
2	DEH - 107	50.3	68.0	53.7	57.3	49.0	49.0	51.8	38.0	46.9	51.0	49.3	51.5	45.3
3	DEH - 111	50.0	72.3	53.7	58.7	48.5	48.0	53.8	41.0	47.8	51.8	49.3	50.3	45.8
4	FH - 3245	52.3	72.0	56.7	60.3	51.8	51.0	53.8	49.0	51.4	51.8	49.7	53.5	47.5
5	FH - 3248	53.0	71.3	53.3	59.2	52.3	50.7	55.5	44.0	50.6	53.0	50.7	54.8	47.3
6	FH - 3277	51.0	72.0	52.7	58.6	53.8	50.7	54.3	52.7	52.8	52.8	50.3	53.5	47.5
7	FH - 3288	51.5	71.7	53.0	58.7	49.0	49.0	52.5	52.7	50.8	52.5	50.7	51.3	47.3
8	VL - 103	50.5	69.7	53.0	57.7	50.8	49.3	52.3	53.0	51.3	52.0	48.7	52.0	47.0
9	VL - 105	50.5	72.3	53.0	58.6	49.3	49.3	52.5	47.3	49.6	52.5	49.7	52.0	45.8
10	VL - 108	49.3	68.7	55.3	57.8	50.0	49.3	51.3	49.0	49.9	53.0	48.7	52.5	46.3
11	VL - 109	49.0	68.0	53.7	56.9	49.5	47.0	51.8	44.7	48.2	52.5	47.3	49.0	45.3
12	VL - 110	49.8	73.0	50.3	57.7	48.0	48.7	52.5	41.0	47.5	54.5	49.3	52.0	46.3
13	VL - 111	48.8	67.0	50.0	55.3	48.3	48.7	52.0	41.0	47.5	52.8	48.7	51.3	45.8
14	JH - 31053	53.8	73.3	53.3	60.1	52.5	50.7	55.0	52.3	52.6	53.3	52.7	53.0	47.0
15	CHH - 212	57.3	75.0	52.3	61.5	56.5	53.7	59.0	55.0	56.0	54.3	55.7	59.3	51.3
16	CHH - 215	55.3	72.7	57.7	61.9	56.8	54.0	58.3	55.0	56.0	53.0	56.0	57.5	50.8
17	IC-0301 (SZM 421)	57.0	74.0	54.7	61.9	55.8	53.7	58.8	52.3	55.1	56.8	55.7	56.3	51.3
CHECKS:														
18	SURYA	51.0	72.0	50.7	57.9	51.0	49.3	53.3	52.3	51.5	52.5	50.0	50.8	46.0
19	HIM - 129	48.3	69.3	50.3	56.0	47.5	47.3	50.0	42.3	46.8	52.5	48.3	50.0	46.0
MEAN LOCATION														
C.D. AT 5%		1.1	1.6	1.3	1.3	3.0	0.8	2.4	2.2	2.1	0.9	1.9	2.7	1.5
C.V. %		1.5	1.3	1.5	-	4.1	1.0	3.2	2.7	-	1.2	2.2	3.6	2.3
F (Prob)		.000	.000	.000	-	.000	.000	.000	.000	-	.000	.000	.000	.000

TABLE NO. 6 (CONT.)

Sl No	PEDIGREE	DAYS TO 50 % SILKING										OV'L MEAN		
		AMBI	ZN 3 MEAN	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	UDAI		CHHI	ZN 5 MEAN
1	D E H - 105	50.3	50.1	55.5	45.0	50.8	44.3	48.8	58.0	50.4	50.8	51.5	51.1	51.0
2	D E H - 107	50.0	49.4	55.5	45.5	49.3	44.3	47.8	54.0	49.4	48.5	50.3	49.4	50.1
3	D E H - 111	50.3	49.5	55.3	44.3	48.5	44.0	49.0	55.3	49.4	48.8	49.5	49.1	50.5
4	F H - 3245	51.5	50.8	52.5	48.5	50.3	45.0	48.3	59.0	50.6	50.5	50.8	50.6	52.3
5	F H - 3248	53.0	51.7	54.3	47.5	49.0	45.7	49.0	59.3	50.8	51.0	51.8	51.4	52.3
6	F H - 3277	50.5	50.9	55.5	48.0	50.3	45.3	48.3	59.3	51.1	50.5	52.8	51.6	52.6
7	F H - 3288	51.3	50.6	55.0	48.3	50.8	45.0	48.8	58.3	51.0	50.3	50.8	50.5	52.0
8	V L - 103	50.0	49.9	54.0	46.3	50.0	45.0	48.8	56.0	50.0	49.0	51.5	50.3	51.4
9	V L - 105	50.3	50.0	55.0	46.3	50.5	44.0	48.0	55.3	49.8	48.3	51.8	50.0	51.2
10	V L - 108	50.3	50.1	55.8	45.3	49.5	44.3	47.5	58.0	50.1	49.8	49.0	49.4	51.1
11	V L - 109	49.0	48.6	56.3	44.5	49.3	44.0	48.8	55.7	49.7	46.8	51.3	49.0	50.2
12	V L - 110	49.8	50.4	55.3	44.5	49.0	44.7	48.8	53.0	49.2	47.3	49.5	48.4	50.4
13	V L - 111	49.3	49.5	53.3	45.3	50.8	44.7	47.8	57.7	49.9	47.8	49.3	48.5	50.0
14	J H - 31053	53.3	51.8	57.0	48.0	50.0	48.0	49.3	62.3	52.4	52.0	57.0	54.5	53.7
15	CHH - 212	55.8	55.2	54.5	48.8	50.5	50.7	53.0	61.3	53.1	53.8	59.3	56.5	55.8
16	CHH - 215	54.8	54.4	54.0	47.8	48.8	47.0	50.3	61.0	51.5	54.0	58.5	56.3	55.1
17	IC-0301 (SZM 421)	54.3	54.8	54.5	48.8	49.5	47.3	53.3	64.7	53.0	53.8	59.3	56.5	55.6
CHECKS:														
18	SURYA	50.0	49.8	55.8	46.8	50.3	45.7	49.0	56.7	50.7	50.3	51.5	50.9	51.7
19	HIM - 129	48.0	49.0	54.8	43.8	50.3	44.0	48.8	54.3	49.3	46.3	50.5	48.4	49.6
MEAN LOCATION		51.3	51.1	55.0	46.8	49.9	45.5	49.2	58.0	50.7	50.2	53.0	51.6	52.1
C.D. AT 5%		1.4	1.7	2.9	1.7	2.5	1.9	1.2	4.4	2.4	0.9	1.8	1.3	-
C.V. %		1.9	-	3.7	2.6	3.5	2.5	1.7	4.6	-	1.2	2.5	-	-
F (Prob)		.000	-	.498	.000	.869	.000	.000	.000	-	.000	.000	-	-

TABLE NO. 6 (CONT.)

SL NO	PEDIGREE	DAYS TO 50 % DRY HUSK										ZN 2 GORA BELI	VARA	DHOL	AMBI	ZN 3 MEAN
		ALMO	BAJA	KANG	ZN 1 MEAN	LUDH	KARN	KANP	ZN 2 MEAN	BELI						
1	DEH - 105	93.8	106.0	90.3	96.7	79.8	79.3	76.3	78.5	76.5	80.7	82.3	87.8	81.8		
2	DEH - 107	91.8	100.0	89.0	93.6	78.5	78.3	74.7	77.2	76.3	80.3	81.0	87.0	81.1		
3	DEH - 111	92.8	102.7	88.7	94.7	76.5	79.0	76.0	77.2	75.8	80.3	80.0	86.5	80.6		
4	FH - 3245	95.5	104.0	91.3	96.9	79.8	78.3	75.3	77.8	77.0	80.7	82.3	90.0	82.5		
5	FH - 3248	93.3	103.0	89.7	95.3	80.5	79.7	73.7	77.9	78.5	80.3	82.5	89.3	82.6		
6	FH - 3277	95.5	104.7	90.3	96.8	83.3	79.3	76.7	79.8	78.0	83.3	84.3	89.0	83.6		
7	FH - 3288	95.8	103.3	88.3	95.8	78.3	80.0	75.7	78.0	77.8	82.3	81.0	87.8	82.2		
8	VL - 103	92.8	102.0	89.0	94.6	79.5	79.7	76.3	78.5	75.3	80.0	82.0	87.3	81.1		
9	VL - 105	90.3	103.3	89.0	94.2	76.5	79.7	75.0	77.1	77.3	80.7	81.3	87.0	81.5		
10	VL - 108	92.0	101.7	89.7	94.4	80.0	78.3	77.7	78.7	77.0	79.7	80.8	88.0	81.4		
11	VL - 109	91.3	101.3	89.3	94.0	80.3	79.3	74.7	78.1	75.8	80.7	82.3	87.0	81.4		
12	VL - 110	92.5	103.3	88.3	94.7	77.8	80.0	72.3	76.7	77.5	82.0	83.0	88.3	82.7		
13	VL - 111	93.5	103.0	89.7	95.4	79.8	80.0	71.7	77.1	76.3	81.0	81.3	89.3	81.9		
14	JH - 31053	100.8	106.0	89.7	98.8	85.3	80.7	77.0	81.0	79.8	83.3	86.3	90.5	85.0		
15	CHH - 212	103.0	106.3	90.0	99.8	84.8	83.7	78.3	82.3	80.3	84.0	91.5	92.0	86.9		
16	CHH - 215	102.3	108.3	93.0	101.2	86.0	83.0	79.0	82.7	78.3	82.0	86.8	91.0	84.5		
17	IC-0301 (SZM 421)	102.8	106.3	91.7	100.3	84.8	82.7	76.0	81.1	78.8	85.3	89.3	91.5	86.2		
CHECKS:																
18	SURYA	89.5	105.3	89.0	94.6	80.8	79.0	78.3	79.4	75.8	81.3	81.3	88.8	81.8		
19	HIM - 129	91.0	101.0	90.3	94.1	76.8	79.3	75.0	77.0	76.3	79.3	82.5	87.8	81.5		
MEAN LOCATION																
C.D. AT 5%																
C.V. % =																
F (Prob) =																

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	DAYS TO 50 % DRY HUSK										OV'L MEAN
		HYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN		
1	DEH - 105	95.3	79.0	80.0	89.8	91.3	87.1	76.5	78.5	77.5	84.9	
2	DEH - 107	94.5	79.5	79.3	88.8	88.0	86.0	74.3	76.5	75.4	83.4	
3	DEH - 111	93.8	78.5	79.3	90.0	89.3	86.2	74.0	76.0	75.0	83.5	
4	FH - 3245	92.0	81.8	81.7	89.3	92.7	87.5	75.5	76.5	76.0	84.9	
5	FH - 3248	93.3	81.3	81.7	90.0	93.7	88.0	75.8	79.5	77.6	85.0	
6	FH - 3277	94.5	80.5	83.0	89.3	93.3	88.1	76.8	88.5	82.6	86.5	
7	FH - 3288	95.0	82.0	81.0	89.8	92.0	87.9	78.0	74.3	76.1	84.8	
8	VL - 103	94.0	79.5	81.3	89.8	90.7	87.1	74.8	79.3	77.0	84.3	
9	VL - 105	94.3	79.5	78.7	89.0	89.0	86.1	74.5	73.5	74.0	83.4	
10	VL - 108	95.0	78.5	79.0	88.5	88.7	85.9	74.8	77.5	76.1	83.9	
11	VL - 109	95.3	79.8	77.0	89.8	89.3	86.2	73.8	74.0	73.9	83.6	
12	VL - 110	95.5	76.8	81.0	89.8	87.0	86.0	74.3	74.3	74.3	83.7	
13	VL - 111	93.8	78.5	81.0	88.8	89.0	86.2	74.8	75.5	75.1	83.9	
14	JH - 31053	95.5	82.0	83.3	90.3	96.0	89.4	79.5	88.8	84.1	87.9	
15	CHH - 212	94.3	81.3	85.7	94.0	94.7	90.0	80.0	90.5	85.3	89.1	
16	CHH - 215	95.3	80.8	79.7	91.3	93.3	88.1	80.5	90.5	85.5	88.3	
17	IC-0301 (SZM 421)	94.0	80.0	83.3	94.3	98.0	89.9	79.8	89.0	84.4	88.7	
CHECKS:												
18	SURYA	94.8	79.8	81.0	90.0	90.3	87.2	75.0	77.8	76.4	84.6	
19	HIM - 129	95.0	78.8	78.3	90.8	90.0	86.6	73.5	75.5	74.5	83.6	
MEAN LOCATION		94.6	80.2	81.1	90.3	91.6	87.5	76.0	81.6	78.8	85.4	
C.D. AT 5%		3.2	2.3	3.9	1.4	2.7	2.7	1.2	2.0	1.6	-	
C.V. %		2.4	2.1	3.0	1.1	1.8	-	1.1	1.7	-	-	
F (Prob)		.929	.000	.017	.000	.000	-	.000	.000	-	-	

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	MOISTURE & AT HARVEST										
		ALMO	BATA	KANG	ZN 1 MEAN	LUDH	PANT	ZN 2 MEAN	GORA BELI	VARA	KUSH	ZN 3 MEAN
1	D E H - 105	31.0	20.5	16.8	22.8	21.7	23.3	22.5	22.1	28.1	24.4	24.9
2	D E H - 107	31.2	21.0	16.3	22.8	21.4	26.5	23.9	21.8	27.4	26.2	25.1
3	D E H - 111	30.1	18.0	17.3	21.8	21.5	23.7	22.6	20.5	27.9	25.5	24.6
4	F H - 3245	34.0	21.5	16.6	24.1	21.5	24.8	23.2	22.0	30.3	26.7	26.3
5	F H - 3248	33.6	20.5	17.3	23.8	22.0	28.2	25.1	21.6	31.3	26.9	26.6
6	F H - 3277	32.2	21.0	16.6	23.2	22.3	24.4	23.4	20.1	30.0	25.3	25.1
7	F H - 3288	32.5	19.8	16.2	22.9	21.8	24.9	23.3	21.8	29.4	26.0	25.7
8	V L - 103	27.6	19.9	17.1	21.5	21.1	19.9	20.5	22.2	27.5	23.6	24.4
9	V L - 105	29.0	19.7	17.5	22.1	20.8	22.5	21.7	20.3	26.2	22.1	22.9
10	V L - 108	29.8	19.3	17.2	22.1	21.8	28.7	25.2	22.0	30.0	24.8	25.6
11	V L - 109	28.7	19.7	17.7	22.0	21.6	20.2	20.9	20.4	26.7	24.9	24.0
12	V L - 110	30.8	19.8	16.8	22.5	21.0	27.8	24.4	20.8	29.4	25.8	25.3
13	V L - 111	31.4	21.5	17.6	23.5	21.5	27.0	24.3	21.3	29.8	24.3	25.1
14	J H - 31053	34.3	21.4	17.8	24.5	22.0	29.5	25.7	21.1	31.5	24.9	25.9
15	CHH - 212	34.3	20.8	17.3	24.1	22.0	27.2	24.6	22.0	31.1	26.2	26.4
16	CHR - 215	35.6	21.8	18.0	25.1	22.3	30.2	26.2	21.5	31.5	26.9	26.6
17	IC-0301 (SZM 421)	38.1	24.5	18.0	26.9	23.0	30.0	26.5	21.7	39.3	25.3	28.7
CHECKS:												
18	SURYA	28.9	20.7	17.0	22.2	21.5	27.6	24.5	21.8	28.7	22.5	24.3
19	HIM - 129	29.8	19.4	17.7	22.3	21.1	25.0	23.1	20.2	29.0	23.0	24.1
MEAN LOCATION												
	C.D. AT 5%	2.7	2.6	1.6	2.3	0.4	2.0	1.2	1.2	0.5	1.7	1.1
	C.V. %	5.9	7.7	5.6	-	1.2	5.4	-	4.1	0.9	4.9	-
	F (Prob)	.000	.044	.707	-	.000	.000	-	.003	.000	.000	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	MOISTURE % AT HARVEST							PLANT ASPECT *							
		HYDE	ARBH	MAND	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV/L MEAN	ALMO	BAJA	MEAN	ZN 1	ZN 2	KANP
1	DEH - 105	22.5	19.0	18.9	21.3	20.4	15.7	11.5	13.6	21.2	2.8	2.8	2.8	2.8	3.0	
2	DEH - 107	20.5	14.5	19.2	20.4	18.6	15.7	11.7	13.7	21.0	2.8	2.8	2.8	2.8	3.5	
3	DEH - 111	24.5	14.3	20.5	20.3	19.9	15.0	12.9	13.9	20.8	2.9	3.0	3.0	3.0	3.2	
4	FH - 3245	19.5	15.5	20.1	22.9	19.5	15.4	12.3	13.8	21.7	2.5	2.2	2.3	2.3	3.0	
5	FH - 3248	17.6	15.2	20.0	22.0	18.7	15.3	14.2	14.7	21.8	2.6	2.3	2.5	2.5	3.0	
6	FH - 3277	19.9	15.1	19.7	21.3	19.0	15.4	15.2	15.3	21.3	2.5	2.2	2.3	2.3	2.8	
7	FH - 3288	21.8	15.1	19.1	20.9	19.2	15.7	12.1	13.9	21.2	2.5	2.7	2.6	2.6	3.0	
8	VL - 103	19.5	15.4	20.7	20.4	19.0	15.3	12.4	13.8	20.2	2.8	3.0	2.9	2.9	3.5	
9	VL - 105	21.7	15.6	19.3	21.0	19.4	15.6	12.6	14.1	20.3	2.8	2.7	2.7	2.7	3.5	
10	VL - 108	20.7	16.3	19.3	21.8	19.5	15.9	11.7	13.8	21.4	2.8	3.2	3.0	3.0	3.5	
11	VL - 109	19.5	15.5	18.6	21.9	18.9	15.6	12.6	14.1	20.2	2.7	2.7	2.7	2.7	3.0	
12	VL - 110	21.3	16.1	20.4	20.8	19.7	15.6	12.0	13.8	21.3	3.0	3.0	3.0	3.0	3.2	
13	VL - 111	19.7	15.5	19.6	21.0	18.9	15.4	12.7	14.1	21.3	3.0	2.7	2.8	2.8	3.0	
14	JH - 31053	22.1	15.3	19.6	20.9	19.4	15.3	14.9	15.1	22.2	2.7	2.5	2.6	2.6	3.5	
15	CHH - 212	20.6	15.6	20.4	21.0	19.4	15.5	17.0	16.2	22.2	2.7	2.3	2.5	2.5	3.5	
16	CHH - 215	19.7	15.3	18.5	20.0	18.3	15.8	16.7	16.2	22.4	2.5	2.2	2.3	2.3	2.8	
17	IC-0301 (SZM421)	24.6	15.6	19.4	21.8	20.4	15.6	14.6	15.1	23.7	2.7	2.5	2.6	2.6	2.5	
CHECKS:																
18	SURYA	22.5	15.5	18.8	21.7	19.6	15.5	11.6	13.5	21.0	3.0	3.2	3.1	3.1	3.3	
19	HIM - 129	21.8	15.0	18.6	21.5	19.2	14.8	12.4	13.6	20.6	2.8	3.0	2.9	2.9	3.0	
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob) =																

TABLE NO. 6 (CONT.)

SI	NO PEDIGREE	PLANT ASPECT *										ZN 3		ZN 4	
		GORA	BELI	VARA	DHOL	KUSH	AMBI	MEAN	HYDE	KARI	ARBH	MAND	COIM	KOLH	MEAN
1	DEH - 105	2.5	2.5	3.1	3.1	3.4	2.5	2.8	3.0	2.5	3.0	2.7	3.0	2.7	2.8
2	DEH - 107	2.4	1.8	3.1	3.0	3.0	2.5	2.5	3.0	3.0	2.0	3.0	3.0	2.7	2.7
3	DEH - 111	2.6	3.0	3.1	3.0	2.5	2.5	2.8	3.0	2.8	2.3	3.0	3.0	2.5	2.8
4	FH - 3245	2.1	2.8	2.5	3.1	2.3	2.6	2.6	3.0	2.3	1.7	3.0	3.0	1.8	2.3
5	FH - 3248	1.8	2.8	2.3	3.3	2.5	2.5	2.5	2.6	2.0	2.0	2.0	2.0	2.0	2.1
6	FH - 3277	2.1	2.5	2.4	3.4	2.5	2.6	2.6	2.8	3.0	2.0	2.0	2.0	2.2	2.4
7	FH - 3288	2.3	1.8	2.4	3.4	2.6	2.5	2.5	2.8	2.0	2.0	2.0	2.0	2.0	2.1
8	VL - 103	2.8	2.3	3.3	3.5	2.8	2.9	2.9	3.0	2.5	2.7	2.8	2.8	2.7	2.8
9	VL - 105	2.8	2.8	2.9	3.1	2.5	2.8	2.8	3.1	2.8	2.3	3.0	3.0	2.3	2.7
10	VL - 108	2.6	2.5	3.3	3.1	2.5	2.8	2.8	3.1	2.3	2.0	3.0	3.0	2.3	2.6
11	VL - 109	2.8	3.0	3.0	3.3	2.6	2.9	2.9	3.1	3.0	2.0	3.0	3.0	2.7	2.8
12	VL - 110	2.6	2.3	2.9	3.4	2.6	2.7	2.7	3.1	2.5	2.3	3.0	3.0	2.3	2.7
13	VL - 111	2.6	2.3	3.1	3.3	2.5	2.8	2.8	3.1	3.0	2.3	3.0	3.0	2.0	2.7
14	JH - 31053	2.5	1.8	2.3	3.1	2.7	2.5	2.5	2.9	2.5	2.3	3.0	3.0	2.2	2.6
15	CHH - 212	2.8	2.3	2.3	3.1	2.5	2.6	2.6	2.9	2.5	3.0	3.0	3.0	2.0	2.6
16	CHH - 215	2.5	2.8	2.5	2.9	2.3	2.6	2.6	3.0	2.5	2.7	2.0	2.0	1.7	2.3
17	IC-0301 (SZM 421)	2.5	3.0	2.0	2.9	2.5	2.6	2.6	2.9	2.8	2.0	3.0	3.0	2.0	2.5
CHECKS:															
18	SURYA	2.4	2.5	3.1	3.3	2.5	2.7	2.7	3.1	2.5	2.7	4.0	4.0	2.5	3.0
19	HIM - 129	2.8	3.3	2.9	3.3	2.4	2.9	2.9	3.1	2.8	2.0	3.0	3.0	2.5	2.7
MEAN LOCATION															
C.D. AT 5% =															
C.V. % =															
F (Prob)															

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			ZN 1 ZN 2 GORA			ZN 3 MEAN				
		UDAI CHHI MEAN	ZN 5 OV'L MEAN	ALMO BAJA MEAN	ZN 1 MEAN	ZN 2 KANP MEAN	BELI VARA MEAN	DHOL KUSH MEAN	AMBI MEAN						
1	DEH - 105	2.6	2.0	2.3	2.8	2.7	3.0	2.9	3.3	3.1	2.8	2.6	2.9	2.6	2.8
2	DEH - 107	2.6	1.5	2.0	2.6	2.4	2.8	2.6	3.2	2.5	2.3	2.6	2.5	2.5	2.5
3	DEH - 111	2.5	1.8	2.1	2.8	2.8	3.0	2.9	3.2	2.9	3.0	2.8	2.5	2.4	2.7
4	FH - 3245	2.4	1.8	2.1	2.4	2.3	2.7	2.5	3.0	2.3	2.3	2.1	2.6	2.3	2.3
5	FH - 3248	2.6	1.5	2.0	2.3	2.3	2.5	2.4	3.2	2.6	3.3	2.8	2.8	2.5	2.8
6	FH - 3277	2.3	1.3	1.8	2.4	2.6	2.7	2.6	2.8	2.4	2.3	2.0	3.0	2.7	2.5
7	FH - 3288	2.5	1.3	1.9	2.3	2.4	2.5	2.5	3.0	2.5	1.8	2.0	2.9	2.6	2.3
8	VL - 103	2.5	1.8	2.1	2.8	2.8	2.7	2.7	3.5	2.9	2.8	2.8	3.0	2.8	2.8
9	VL - 105	2.5	1.5	2.0	2.7	2.8	2.8	2.8	3.5	2.6	2.8	2.6	2.6	2.4	2.6
10	VL - 108	2.5	1.5	2.0	2.7	2.8	3.0	2.9	3.0	2.8	2.8	3.3	2.6	2.5	2.8
11	VL - 109	2.7	1.8	2.2	2.8	2.9	2.8	2.9	3.0	3.4	2.8	2.9	2.8	2.5	2.9
12	VL - 110	2.8	1.5	2.2	2.7	2.7	3.0	2.9	3.0	2.6	2.8	2.4	2.9	2.5	2.6
13	VL - 111	2.8	1.8	2.3	2.7	2.8	2.5	2.7	2.5	3.1	1.8	2.5	2.8	2.5	2.5
14	JH - 31053	2.3	1.0	1.7	2.5	2.7	2.8	2.7	3.5	2.5	2.8	2.6	2.6	2.6	2.6
15	CHH - 212	2.4	1.0	1.7	2.5	2.5	2.7	2.6	3.3	2.3	2.8	2.6	2.6	2.7	2.6
16	CHH - 215	2.3	1.0	1.7	2.4	2.4	2.3	2.4	2.8	2.6	2.8	2.8	2.4	2.2	2.5
17	IC-0301 (SZM 421)	2.3	1.0	1.7	2.4	2.7	2.5	2.6	2.5	2.6	3.3	2.1	2.6	2.7	2.7
CHECKS:															
18	SURYA	2.6	1.8	2.2	2.8	3.0	2.8	2.9	3.3	2.6	2.8	2.8	2.8	2.6	2.7
19	HIM - 129	2.5	1.8	2.1	2.7	2.7	3.0	2.9	2.7	3.1	3.3	3.0	2.8	2.6	2.9
MEAN LOCATION															
C.D. AT 5% =															
C.V. % =															
F (Prob)															
		.000	.000	-	-	.000	.008	-	.000	.000	.000	.008	.000	.000	.093

TABLE NO. 6 (CONT.)

S1 NO PEDIGREE	EAR ASPECT *										OV'L MEAN
	HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	
1 DEH - 105	3.0	2.5	3.3	2.7	3.0	2.3	2.8	2.6	1.8	2.2	2.8
2 DEH - 107	3.1	2.5	3.3	2.7	2.0	2.8	2.7	2.7	2.0	2.3	2.6
3 DEH - 111	2.9	2.3	3.3	2.3	3.0	2.0	2.6	2.7	2.0	2.3	2.7
4 F H - 3245	3.0	1.8	2.5	2.0	3.0	1.5	2.3	2.4	2.0	2.2	2.4
5 F H - 3248	2.9	1.5	2.5	2.3	2.0	1.7	2.1	2.5	1.8	2.1	2.4
6 F H - 3277	2.8	1.8	2.8	2.3	3.0	2.0	2.4	2.5	1.3	1.9	2.4
7 F H - 3288	2.8	1.0	2.8	2.3	3.0	1.8	2.3	2.4	1.5	1.9	2.3
8 V L - 103	3.1	1.8	3.3	2.0	2.8	2.2	2.5	2.5	1.8	2.1	2.7
9 V L - 105	3.0	2.0	3.3	3.3	3.0	2.0	2.8	2.6	1.8	2.2	2.7
10 V L - 108	3.1	2.0	3.3	3.0	3.0	2.7	2.8	2.5	1.8	2.1	2.7
11 V L - 109	3.0	2.0	3.5	3.0	4.0	2.3	3.0	2.8	2.0	2.4	2.9
12 V L - 110	3.0	2.3	3.5	2.3	3.0	2.0	2.7	2.7	2.0	2.3	2.7
13 V L - 111	3.1	2.5	3.3	3.3	3.0	1.8	2.8	2.5	1.8	2.1	2.6
14 J H - 31053	3.0	1.5	2.8	2.0	3.0	1.5	2.3	2.6	1.3	1.9	2.5
15 CHH - 212	3.1	1.3	3.0	1.7	3.0	1.7	2.3	2.6	1.0	1.8	2.4
16 CHH - 215	3.0	1.5	2.8	2.0	2.0	1.7	2.2	2.5	1.3	1.9	2.3
17 IC-0301 (SZM 421)	2.9	2.3	3.3	2.3	3.0	2.0	2.6	2.4	1.5	2.0	2.5
CHECKS:											
18 SURYA	3.1	2.0	3.5	2.7	4.0	2.7	3.0	2.8	2.0	2.4	2.8
19 HIM - 129	3.0	2.3	3.3	2.7	3.0	2.3	2.8	2.6	1.8	2.2	2.7
MEAN LOCATION											
C.D. AT 5%	0.3	0.9	0.2	1.2	0.1	0.7	0.6	0.3	0.2	0.2	-
C.V. %	7.3	32.7	5.3	29.6	3.6	20.1	-	8.2	8.4	-	-
F (Prob)	.065	.004	.000	.399	.000	.004	-	.108	.000	-	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	HUSK COVER *										ZN 3 MEAN
		ALMO	HAJA	KANG	ZN 1 MEAN	ZN 2 KAMP	GORA BELI	VARA	DHOL	AMBI		
1	DEH - 105	2.3	2.3	1.0	1.9	3.2	2.5	3.0	2.6	2.8	2.7	
2	DEH - 107	2.5	2.7	1.0	2.0	3.0	2.1	2.8	3.4	2.6	2.7	
3	DEH - 111	2.3	2.3	1.0	1.9	3.2	2.4	3.3	3.4	2.4	2.8	
4	FH - 3245	2.1	2.0	1.0	1.7	3.3	2.1	2.8	3.1	2.5	2.6	
5	FH - 3248	2.1	2.2	1.3	1.9	3.2	2.1	2.8	2.4	2.5	2.4	
6	FH - 3277	1.8	2.0	1.3	1.7	2.7	2.3	2.3	2.1	2.7	2.3	
7	FH - 3288	1.8	2.2	1.3	1.8	3.0	1.9	2.8	2.6	2.5	2.4	
8	VL - 103	2.1	2.5	1.0	1.9	3.8	2.5	2.8	2.5	2.7	2.6	
9	VL - 105	1.8	2.2	1.0	1.7	3.0	2.6	3.0	3.3	2.5	2.8	
10	VL - 108	2.7	2.3	1.3	2.1	3.2	2.8	2.8	3.1	2.7	2.8	
11	VL - 109	2.2	2.3	1.3	2.0	3.0	3.0	3.3	3.3	2.4	3.0	
12	VL - 110	2.0	2.0	1.0	1.6	3.3	2.5	3.0	2.9	2.6	2.7	
13	VL - 111	1.9	2.2	1.0	1.7	2.5	2.8	1.8	3.3	2.4	2.5	
14	JH - 31053	2.1	2.2	1.7	2.0	3.7	2.3	3.3	3.0	2.5	2.8	
15	CHH - 212	1.8	2.2	1.0	1.7	3.2	2.4	3.3	3.1	2.7	2.8	
16	CHH - 215	2.0	2.0	1.0	1.6	3.2	2.6	3.3	2.6	2.3	2.7	
17	IC-0301 (SZM 421)	2.0	2.3	1.3	1.9	2.8	2.6	2.3	3.0	2.5	2.6	
CHECKS:												
18	SURYA	1.8	2.2	1.0	1.7	3.0	1.9	2.8	3.1	2.6	2.6	
19	HIM - 129	2.3	2.2	1.0	1.8	3.2	3.0	2.8	3.0	2.8	2.9	
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob)												
		.000	.033	.236	-	.000	.000	.000	.104	.015	-	

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	HUSK COVER *										OV'L MEAN
		HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	
1	D E H - 105	2.4	2.0	2.8	2.0	3.0	2.3	2.4	2.5	1.5	2.0	2.4
2	D E H - 107	2.4	2.3	2.5	2.3	2.0	2.2	2.3	2.7	1.5	2.1	2.4
3	D E H - 111	2.0	2.0	2.8	2.0	3.0	2.0	2.3	2.5	1.8	2.1	2.4
4	F H - 3245	2.4	1.5	2.0	2.0	3.0	1.5	2.1	2.5	1.3	1.9	2.2
5	F H - 3248	2.1	1.5	2.3	2.7	3.0	2.0	2.3	2.5	1.0	1.8	2.2
6	F H - 3277	2.1	2.3	2.0	1.7	3.0	2.0	2.2	2.4	1.3	1.8	2.1
7	F H - 3288	2.4	1.8	2.3	2.0	3.0	2.2	2.3	2.5	1.3	1.9	2.2
8	V L - 103	2.5	2.0	2.5	2.3	2.8	2.0	2.3	2.5	1.5	2.0	2.4
9	V L - 105	2.5	2.0	2.5	2.0	3.0	2.0	2.3	2.5	1.3	1.9	2.3
10	V L - 108	2.5	2.0	3.0	2.0	4.0	2.0	2.6	2.5	1.3	1.9	2.5
11	V L - 109	2.4	2.3	3.0	2.0	3.0	2.0	2.4	2.5	1.5	2.0	2.5
12	V L - 110	2.5	2.0	2.8	2.0	3.0	2.2	2.4	2.7	1.5	2.1	2.4
13	V L - 111	2.3	2.0	2.5	2.3	3.0	2.0	2.3	2.6	1.5	2.0	2.2
14	J H - 31053	2.4	1.8	2.5	2.0	3.0	2.0	2.3	2.5	1.5	2.0	2.4
15	CHH - 212	2.4	2.0	2.0	2.0	3.0	1.7	2.2	2.4	1.5	2.0	2.3
16	CHH - 215	2.3	2.0	2.5	2.0	2.0	1.7	2.1	2.5	1.3	1.9	2.2
17	IC-0301 (SZM 421)	2.4	2.0	2.0	2.3	3.0	1.5	2.2	2.4	1.3	1.8	2.2
CHECKS:												
18	SURYA	2.1	2.0	2.8	2.3	4.0	2.2	2.6	2.5	1.8	2.1	2.4
19	HIM - 129	2.3	2.3	2.8	2.3	3.0	2.0	2.4	2.5	1.8	2.1	2.4
MEAN LOCATION												
C.D. AT 5%												
C.V. %												
F (Prob)												
		12.2	24.4	6.9	21.2	5.1	16.0	-	4.6	11.8	-	-
		.576	.459	.000	.691	.000	.076	-	.320	.000	-	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	UNIFORMITY *									
		ALAN	BAJA	ZN 1 MEAN	ZN 2 KAMP	GORA BELI	VARA	DHOL	AMBI	ZN 3 MEAN	
1	DEH - 105	2.9	2.7	2.8	3.2	2.6	3.3	3.6	2.5	3.0	
2	DEH - 107	2.9	2.5	2.7	3.2	2.6	2.8	3.4	2.7	2.8	
3	DEH - 111	3.0	2.5	2.8	3.0	2.6	3.3	3.0	2.5	2.8	
4	FH - 3245	2.5	1.8	2.2	3.0	2.4	2.8	2.4	2.5	2.5	
5	FH - 3248	2.5	1.8	2.2	3.0	2.1	2.5	2.3	2.5	2.3	
6	FH - 3277	2.5	1.7	2.1	2.5	2.1	2.3	2.1	2.7	2.3	
7	FH - 3288	2.4	2.2	2.3	3.0	2.3	2.3	1.9	2.5	2.2	
8	VL - 103	2.8	2.8	2.8	3.5	2.8	2.8	3.8	2.5	3.0	
9	VL - 105	3.0	2.5	2.7	3.3	2.8	3.0	3.4	2.5	2.9	
10	VL - 108	2.7	2.5	2.6	3.5	2.6	3.0	3.5	2.8	3.0	
11	VL - 109	3.0	2.3	2.7	3.2	2.8	3.3	3.0	2.5	2.9	
12	VL - 110	2.8	2.7	2.7	3.0	2.9	2.8	3.1	2.7	2.8	
13	VL - 111	2.8	2.2	2.5	2.5	2.9	2.3	3.3	2.6	2.8	
14	JH - 31053	2.9	2.3	2.6	3.7	2.6	3.3	3.0	2.5	2.9	
15	CHH - 212	3.0	2.5	2.8	3.5	2.5	3.3	3.0	2.7	2.9	
16	CHH - 215	3.0	2.5	2.7	3.2	2.9	3.3	3.5	2.4	3.0	
17	IC-0301 (SZM 421)	2.9	2.5	2.7	2.7	2.5	3.3	2.6	2.7	2.8	
CHECKS:											
18	SURYA	3.0	2.8	2.9	3.3	2.4	3.5	3.5	2.5	3.0	
19	HIM - 129	2.7	2.3	2.5	3.0	3.0	3.5	3.1	2.5	3.0	
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

TABLE NO. 6 (CONT.)

SI	NO PEDIGREE	UNIFORMITY *											OV'L MEAN
		HYDE	KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN		
1	DEH - 105	3.0	2.8	2.5	2.7	3.0	2.2	2.7	2.6	1.5	2.0	2.7	
2	DEH - 107	3.0	3.0	3.0	2.3	3.0	2.5	2.8	2.8	1.5	2.1	2.7	
3	DEH - 111	2.9	2.0	3.0	2.3	3.0	2.5	2.6	2.6	1.5	2.0	2.6	
4	FH - 3245	3.0	2.0	2.0	1.7	3.0	1.8	2.3	2.5	1.5	2.0	2.3	
5	FH - 3248	2.9	2.3	2.0	2.0	2.0	2.0	2.2	2.5	1.0	1.8	2.2	
6	FH - 3277	3.0	2.0	2.0	1.7	2.0	2.2	2.1	2.5	1.3	1.9	2.2	
7	FH - 3288	2.9	2.0	2.0	2.0	2.0	2.3	2.2	2.5	1.3	1.9	2.2	
8	VL - 103	3.0	2.8	3.0	2.3	2.8	2.3	2.7	2.5	1.3	1.9	2.7	
9	VL - 105	3.0	3.0	2.5	2.7	3.0	2.3	2.8	2.5	1.8	2.1	2.7	
10	VL - 108	2.8	2.5	2.5	2.3	3.0	2.3	2.6	2.7	2.0	2.3	2.7	
11	VL - 109	3.0	3.3	2.5	2.0	3.0	2.5	2.7	2.7	1.3	2.0	2.7	
12	VL - 110	3.0	2.5	2.8	2.3	3.0	2.5	2.7	2.8	1.8	2.3	2.7	
13	VL - 111	3.1	2.5	2.8	2.0	3.0	1.7	2.5	2.7	1.3	2.0	2.5	
14	JH - 31053	3.0	2.5	2.5	3.0	3.0	2.2	2.7	2.5	1.3	1.9	2.7	
15	CHH - 212	3.0	3.3	2.8	2.7	3.0	2.0	2.8	2.5	1.5	2.0	2.7	
16	CHH - 215	3.1	2.8	3.0	2.7	3.0	1.7	2.7	2.3	1.0	1.7	2.7	
17	IC-0301 (SZM 421)	3.0	3.0	3.0	2.7	4.0	1.8	2.9	2.5	1.5	2.0	2.7	
CHECKS:													
18	SURYA	3.0	2.3	3.0	2.7	4.0	2.3	2.9	2.6	1.8	2.2	2.8	
19	HIM - 129	3.0	3.3	2.3	2.0	2.0	2.2	2.4	2.5	1.8	2.1	2.6	
MEAN LOCATION													
C.D. AT 5%													
C.V. †													
F (Prob)													
		.290	.016	.000	.075	.000	.002	-	5.0	14.5	-	-	
									.000	.000			

TABLE NO. 6 (CONT.)

Sl	No PEDIGREE	PLANT HEIGHT (cm)										ZN 2		GORA	
		ALMO	BAJA	KANG	MEAN	LUDEH	KARN	PANT	KAMP	MEAN	BELI	VARA	DHOL	KUSH	
1	D E H - 105	180	159	238	192	139	167	191	147	161	119	214	130	169	
2	D E H - 107	192	149	232	191	144	153	195	153	161	128	225	127	144	
3	D E H - 111	187	135	231	184	151	163	196	144	164	120	230	123	161	
4	F H - 3245	205	150	243	199	135	148	186	151	155	135	198	128	159	
5	F H - 3248	194	149	254	199	128	162	181	159	157	119	228	123	162	
6	F H - 3277	181	145	259	195	143	152	192	135	155	135	215	134	151	
7	F H - 3288	188	131	232	183	136	158	192	150	159	117	218	120	138	
8	V L - 103	181	142	245	189	153	183	197	154	172	130	228	131	179	
9	V L - 105	187	147	247	194	156	170	200	155	170	123	223	134	171	
10	V L - 108	184	134	262	194	141	152	198	170	165	124	230	124	147	
11	V L - 109	184	143	242	190	135	163	185	164	162	120	218	125	137	
12	V L - 110	182	131	224	179	146	153	181	140	155	120	225	131	116	
13	V L - 111	181	134	251	189	128	145	188	149	152	113	216	120	149	
14	J H - 31053	220	175	253	216	166	187	213	183	187	143	238	150	167	
15	CHH - 212	212	182	296	230	194	225	230	185	208	167	248	162	185	
16	CHH - 215	216	176	272	222	163	182	213	146	176	133	240	152	206	
17	IC-0301 (SZM 421)	230	152	251	211	170	213	223	179	196	146	248	144	185	
CHECKS:															
18	SURYA	200	146	245	197	144	167	204	133	162	119	224	135	175	
19	HIM - 129	174	144	223	180	145	148	187	115	149	112	235	120	150	
MEAN LOCATION		194	151	249	198	149	171	200	157	169	129	227	134	163	
C.D. AT 5%		8.5	15.6	39.7	21.3	20.5	10.6	16.5	7.0	13.7	9.2	21.3	15.4	18.6	
C.V. %		3.1	6.3	9.7	-	9.8	3.8	5.8	2.7	-	5.1	5.7	8.1	8.1	
F (Prob)		.000	.000	.093	-	.000	.000	.000	.000	-	.000	.003	.000	.000	

TABLE NO. 6 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)										OV'L MEAN	
		AMBI	ZN 3 MEAN	AYDE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI		ZN 5 MEAN
1	DEH - 105	189	164	105	122	201	125	118	134	231	148	189	163
2	DEH - 107	200	165	105	131	206	131	150	145	189	165	177	164
3	DEH - 111	204	167	108	136	197	126	125	139	223	164	193	164
4	FH - 3245	198	163	105	145	209	133	132	145	211	158	184	165
5	FH - 3248	178	162	90	147	213	125	128	141	213	154	183	163
6	FH - 3277	211	169	103	141	193	135	142	143	223	165	194	166
7	FH - 3288	194	157	100	140	178	144	130	138	208	161	184	160
8	VL - 103	194	172	120	145	203	158	133	152	229	175	202	173
9	VL - 105	203	171	95	142	191	130	127	137	239	173	206	169
10	VL - 108	174	160	95	137	204	126	110	134	214	165	189	163
11	VL - 109	182	156	125	126	189	122	112	135	206	141	174	159
12	VL - 110	180	154	113	141	198	128	122	140	209	148	178	157
13	VL - 111	193	158	108	128	190	122	108	131	195	146	171	156
14	JH - 31053	206	180	135	148	211	157	153	161	244	174	209	185
15	CHH - 212	232	199	135	158	219	157	163	166	231	181	206	198
16	CHH - 215	212	188	115	144	204	171	157	158	241	183	212	186
17	IC-0301 (SZM 421)	207	186	145	142	214	165	170	167	233	180	206	189
CHECKS:													
18	SURYA	213	173	105	155	216	133	115	145	205	159	182	168
19	HIM - 129	199	163	95	142	203	142	107	138	218	145	181	158
MEAN LOCATION													
C.D. AT 5%													
C.V. %													
F (Prob)													
		25.7	18.1	13.6	11.2	30.0	7.5	32.4	18.9	13.2	17.0	15.1	-
		9.2	-	8.5	5.6	9.1	3.8	14.9	-	4.2	7.4	-	-
		.000	-	.000	.000	.671	.000	.002	-	.000	.000	-	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)												
		ALMO	BAJA	KANG	ZN 1 MEAN	LJUDH	KARN	PANT	KANP	ZN 2 MEAN	BELI	VARA	DHOL	KUSH
1	D E H - 105	85	78	106	90	71	73	89	70	76	43	88	62	88
2	D E H - 107	88	63	97	82	71	63	89	88	78	42	83	55	67
3	D E H - 111	86	52	105	81	74	77	86	69	76	46	108	57	87
4	F H - 3245	87	52	103	80	56	62	82	65	66	41	55	50	65
5	F H - 3248	81	65	95	80	54	67	79	67	67	44	78	46	67
6	F H - 3277	73	53	99	75	58	60	80	59	64	44	75	51	57
7	F H - 3288	79	51	93	74	60	72	80	76	72	39	85	50	54
8	V L - 103	79	57	103	79	68	85	85	56	73	50	80	58	85
9	V L - 105	77	62	98	79	68	75	88	70	75	47	80	58	73
10	V L - 108	86	48	93	75	74	67	86	73	75	43	80	51	60
11	V L - 109	83	55	90	76	61	65	79	58	66	44	78	58	68
12	V L - 110	78	43	84	68	60	75	74	72	70	40	80	56	68
13	V L - 111	78	49	106	78	48	68	84	66	66	43	80	46	67
14	J H - 31053	116	83	117	105	86	77	98	82	86	50	98	67	86
15	CHH - 212	108	77	124	103	101	117	108	92	104	85	98	75	89
16	CHH - 215	107	78	143	109	84	82	96	61	81	45	108	69	106
17	IC-0301 (SZM 421)	117	66	145	109	83	107	96	78	91	56	120	63	101
CHECKS:														
18	SURYA	92	79	106	92	75	77	87	45	71	38	80	58	88
19	HIM - 129	78	54	91	74	59	63	76	55	63	38	75	53	68
MEAN LOCATION		88	63	106	86	69	77	88	73	77	48	87	59	78
C.D. AT 5%		8.4	18.3	13.8	13.5	15.4	8.7	10.0	6.8	10.2	9.6	21.8	12.9	14.5
C.V. %		6.7	17.8	7.9	-	15.8	6.8	8.0	5.7	-	14.1	15.2	15.6	13.2
F (Prob)		.000	.000	.000	-	.000	.000	.000	.000	-	.000	.000	.000	.000

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	EAR HEIGHT (cm)										OV'L MEAN	
		AMBI	ZN 3 MEAN	HYOE	KARI	MAND	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI		ZN 5 MEAN
1	D E H - 105	78	72	48	48	98	46	52	58	86	78	82	73
2	D E H - 107	76	65	50	44	87	54	62	59	73	80	76	70
3	D E H - 111	67	73	45	38	79	43	52	51	93	74	83	70
4	F H - 3245	57	54	45	44	87	49	50	55	73	59	66	62
5	F H - 3248	61	59	35	40	98	50	62	57	75	60	68	64
6	F H - 3277	68	59	40	46	90	55	57	58	85	64	74	64
7	F H - 3288	68	59	58	46	80	60	60	61	70	70	70	66
8	V L - 103	78	70	50	51	96	50	62	62	93	80	86	72
9	V L - 105	70	66	43	43	94	42	57	56	88	76	82	69
10	V L - 108	66	60	45	54	86	41	55	56	83	73	78	66
11	V L - 109	67	63	40	39	83	37	53	50	69	70	69	63
12	V L - 110	65	62	40	44	94	53	52	56	78	59	68	64
13	V L - 111	73	62	53	41	86	51	52	56	65	68	66	64
14	J H - 31053	84	77	58	61	104	83	62	73	103	81	92	84
15	CHH - 212	86	87	58	63	111	76	72	76	105	91	98	91
16	CHH - 215	82	82	55	66	95	73	68	71	93	95	94	84
17	IC-0301 (SZM 421)	83	84	60	58	101	75	78	74	100	88	94	88
CHECKS:													
18	SURYA	71	67	50	51	110	69	47	65	85	75	80	73
19	HIM - 129	70	61	35	50	86	63	48	56	90	68	79	64
MEAN LOCATION		73	69	50	49	92	58	58	62	87	76	81	73
C.D. AT 5%		9.9	13.7	8.3	8.7	21.2	5.3	24.4	13.6	8.9	11.5	10.2	-
C.V. %		9.6	-	11.7	12.5	14.0	6.5	25.7	-	7.3	10.7	-	-
P (Prob)		.000	-	.000	.000	.224	.000	.718	-	.000	.000	-	-

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	EAR No. / PLANT										
		ALMO	KANG	LU DH	BELI	VARA	KUSH	AMBI	HYDE	KARI	MAND	COIM
1	DEH - 105	1.05	1.06	0.93	0.98	1.00	0.92	1.00	1.06	0.96	1.10	0.93
2	DEH - 107	0.98	1.04	0.90	0.98	1.03	0.86	1.07	1.00	0.73	1.02	1.06
3	DEH - 111	1.01	1.03	0.89	0.96	0.99	0.85	1.06	1.17	0.92	1.01	0.95
4	FH - 3245	1.01	0.96	0.93	0.95	0.97	0.92	1.16	1.05	0.77	0.96	0.92
5	FH - 3248	1.01	0.98	0.91	0.96	0.93	0.99	1.15	1.15	0.84	1.18	0.94
6	FH - 3277	1.00	0.99	0.90	0.97	0.98	0.94	1.03	1.11	0.90	0.99	0.95
7	FH - 3288	0.99	0.98	0.96	0.94	1.03	0.88	1.06	1.11	0.79	0.96	0.98
8	VL - 103	1.03	0.97	1.02	0.94	1.02	1.01	1.03	1.15	0.83	0.98	0.91
9	VL - 105	1.05	1.00	1.03	0.89	0.96	1.01	1.00	1.09	0.82	0.96	0.94
10	VL - 108	1.00	0.99	0.93	0.95	1.00	0.91	0.98	1.16	0.85	1.05	0.91
11	VL - 109	0.99	0.98	0.95	0.98	0.96	0.92	0.99	1.15	0.72	0.99	0.98
12	VL - 110	1.02	0.98	0.95	0.96	1.01	0.97	1.03	1.00	0.82	1.09	0.95
13	VL - 111	1.08	0.98	1.04	0.93	1.00	0.91	1.11	1.07	0.78	0.99	0.97
14	JH - 31053	0.97	0.98	1.03	0.96	1.02	0.96	1.03	0.95	0.85	1.23	1.00
15	CHH - 212	1.02	0.99	1.03	0.92	0.96	0.89	1.07	1.12	0.83	0.97	0.94
16	CHH - 215	1.03	0.98	0.97	0.94	1.00	0.82	1.12	1.04	0.84	0.92	1.01
17	IC-0301 (SZM 421)	1.05	0.97	1.01	0.95	0.99	1.00	0.99	1.01	0.72	1.04	0.98
CHECKS:												
18	SURYA	0.99	0.99	0.92	0.96	0.96	0.97	1.19	1.00	0.96	1.03	0.93
19	HIM - 129	1.00	0.95	0.93	0.95	0.97	0.98	0.98	1.09	0.81	1.06	1.00
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

TABLE NO. 6 (CONT.)

SI NO	PEDIGREE	EAR No. / PLANT				H.turcicum *				H.maydis *			
		KOLH	UDAI	CHHI	OV'L MEAN	ALMO	BAJA	ZN 1 MEAN	ZN 4 KOLH	OV'L MEAN	ALMO	BAJA	ZN 1 MEAN
1	D E H - 105	0.69	0.94	0.96	0.97	2.7	1.8	2.2	2.7	2.4	2.0	1.3	1.7
2	D E H - 107	0.90	0.97	0.99	0.97	2.6	2.0	2.3	2.3	2.3	1.9	1.7	1.8
3	D E H - 111	0.89	0.91	0.98	0.97	3.0	2.0	2.5	2.7	2.6	2.0	1.2	1.6
4	F H - 3245	0.99	0.95	0.97	0.97	1.8	1.5	1.7	1.8	1.7	1.5	1.3	1.4
5	F H - 3248	1.02	0.97	1.01	1.00	1.7	1.7	1.7	1.8	1.7	1.6	1.5	1.5
6	F H - 3277	1.05	0.95	0.96	0.98	1.6	1.2	1.4	2.2	1.6	1.5	1.2	1.3
7	F H - 3288	1.01	0.91	1.03	0.97	1.7	2.3	2.0	2.0	2.0	1.7	1.7	1.7
8	V L - 103	0.95	0.96	0.94	0.98	2.8	2.0	2.4	2.5	2.4	2.1	1.3	1.7
9	V L - 105	0.84	0.95	0.92	0.96	2.3	1.5	1.9	2.7	2.2	2.0	1.2	1.6
10	V L - 108	1.02	0.92	0.98	0.97	3.3	1.5	2.4	2.5	2.5	2.0	1.2	1.6
11	V L - 109	1.06	0.92	1.00	0.97	3.4	2.3	2.9	2.5	2.7	1.8	1.0	1.4
12	V L - 110	1.06	0.99	0.94	0.98	3.1	2.3	2.7	2.5	2.6	1.7	1.3	1.5
13	V L - 111	1.12	0.95	0.95	0.99	2.7	1.8	2.3	2.3	2.3	1.8	1.2	1.5
14	J H - 31053	0.91	0.93	0.99	0.99	3.3	2.0	2.6	2.8	2.7	2.0	1.3	1.7
15	CHH - 212	0.99	0.99	0.99	0.98	2.7	1.8	2.3	2.7	2.4	1.8	1.3	1.6
16	CHH - 215	0.88	0.92	0.95	0.96	2.6	1.7	2.1	2.0	2.1	2.3	1.2	1.7
17	IC-0301 (SZM 421)	0.81	0.95	0.91	0.96	2.2	1.3	1.8	1.8	1.8	1.9	1.2	1.5
CHECKS:													
18	SURYA	1.23	0.89	0.93	1.00	3.7	2.2	2.9	2.5	2.8	1.9	1.2	1.5
19	HIM - 129	0.88	0.97	0.93	0.97	2.3	1.3	1.8	2.3	2.0	1.8	1.2	1.5
MEAN LOCATION													
C.D. AT 5%													
C.V. %													
F (Prob)													
						0.4	0.7	0.5	0.5		0.4	0.5	0.4
						9.9	23.8		13.5		14.4	22.1	
						.000	.022		.000		.022	.465	

TABLE NO. 6 (CONT.)

SI NO PEDIGREE	STAND AT HARVEST										GORA			
	ALMO	BAJA	KANG	LUJH	KARN	PANT	KAMP	BELI	VARA	DHOL	KUSH			
1 D E H - 105	23	35	22	36	27	40	33	35	34	34	37			
2 D E H - 107	23	35	19	38	22	39	33	33	34	39	37			
3 D E H - 111	23	34	20	39	24	39	34	35	35	36	34			
4 F H - 3245	23	33	28	34	23	38	38	36	37	38	37			
5 F H - 3248	22	36	29	30	27	39	37	39	37	34	30			
6 F H - 3277	22	36	20	33	26	38	39	36	35	39	36			
7 F H - 3288	22	34	22	34	23	36	38	35	37	37	30			
8 V L - 103	21	35	22	32	22	31	35	30	35	28	30			
9 V L - 105	23	36	23	35	22	37	37	35	37	36	34			
10 V L - 108	22	33	21	30	21	39	35	32	33	33	31			
11 V L - 109	23	34	21	31	24	36	35	31	35	41	29			
12 V L - 110	21	35	22	35	23	40	34	35	37	38	34			
13 V L - 111	23	36	21	35	20	40	34	37	36	42	37			
14 J H - 31053	23	33	19	34	26	31	37	34	38	24	28			
15 CHH - 212	22	34	18	36	26	36	37	31	34	39	30			
16 CHH - 215	23	35	26	33	25	39	38	33	35	37	30			
17 IC-0301 (SZM 421)	22	36	19	31	24	29	36	30	35	25	34			
CHECKS:														
18 SURYA	22	36	25	26	21	33	37	30	34	34	29			
19 HIM - 129	22	36	20	33	23	35	35	27	36	33	35			
MEAN LOCATION														
C.D. AT 5% =	1.9	3.0	3.6	5.7	3.0	5.8	1.7	4.1	2.5	8.3	10.8			
C.V. % =	5.9	5.2	9.3	11.9	7.6	11.3	2.9	8.5	4.3	16.7	23.4			
F (Prob)	.435	.010	.000	.005	.000	.005	.000	.000	.001	.002	.736			

TABLE NO. 6 (CONT.)

Sl NO	PEDIGREE	STAND AT HARVEST										OV'L MEAN
		AMBI	HYDE	KARI	ARBH	MAND	COIM	KOLH	UDAI	CHHI		
1	DEH - 105	39	15	41	42	34	26	41	31	41	33	
2	DEH - 107	38	17	31	36	38	27	43	33	43	33	
3	DEH - 111	38	16	37	38	34	28	47	30	43	33	
4	FH - 3245	33	15	31	46	35	31	42	34	39	34	
5	FH - 3248	35	18	35	46	35	28	44	37	40	34	
6	FH - 3277	40	22	40	46	33	27	45	39	39	34	
7	FH - 3288	38	15	38	45	37	29	45	36	42	34	
8	V L - 103	37	18	33	41	31	28	44	27	39	31	
9	V L - 105	41	18	34	37	35	27	42	34	42	33	
10	V L - 108	32	13	28	38	35	27	44	30	39	31	
11	V L - 109	35	15	30	37	36	29	43	31	43	32	
12	V L - 110	36	15	30	38	39	27	44	31	41	33	
13	V L - 111	36	18	32	46	37	25	38	36	41	33	
14	J H - 31053	36	15	37	35	40	26	44	35	41	32	
15	CHH - 212	36	17	38	47	38	28	43	34	40	33	
16	CHH - 215	37	19	36	45	39	30	43	38	37	34	
17	IC-0301 (SZM 421)	30	15	30	42	33	27	41	28	39	30	
CHECKS:												
18	SURYA	28	12	35	38	39	26	41	29	37	30	
19	HIM - 129	40	14	34	46	39	29	41	33	37	32	
MEAN LOCATION												
C.D. AT 5%												
C.V. %												
F (Prob)												
		6.5	8.3	5.1	6.1	8.1	2.7	6.0	6.2	4.5	-	
		12.8	34.5	10.3	10.5	13.7	6.8	8.4	13.5	8.0	-	
		.011	.400	.000	.000	.568	.000	.770	.022	.223	-	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 5 ENTRIES)

TABLE NO. 7

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-II, AT LUDHIANA, KARNAL, PANTNAGAR AET 1st YEAR, IN TRIAL NO. TR65Z2 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD % SUPERIORITY OVER					
		LUDH	R	KARN	R	PANT	R	ZN 2 MEAN	THE BIO - 9681 LUDH	KARN	PANT	ZN 2 MEAN	
1	J H - 10655	9739	1	7768	1	5417	6	7642	1	62.33	29.10	10.48	35.48
2	J C 1441 C3 FS	6332	10	6176	9	4093	15	5534	12	5.54	2.64	-	-
3	B H - 3301	7791	5	6819	4	5069	10	6560	5	29.86	13.32	3.38	16.30
4	B H - 3313	8653	2	7576	3	6634	1	7621	2	44.23	25.90	35.31	35.12
5	B H - 3316	6547	9	6174	10	5554	5	6092	9	9.13	2.60	13.28	8.01
6	M H - 01 - 1	3250	15	6523	6	4179	14	4651	15	-	8.39	-	-
7	M H - 01 - 2	7633	6	5918	12	5099	8	6217	6	27.22	-	3.99	10.22
8	M H - 01 - 3	5600	14	6187	8	4540	13	5442	13	-	2.81	-	-
9	M H - 01 - 4	6819	8	5533	14	6094	3	6149	8	13.66	-	24.28	9.01
10	P M Z - 235	6268	11	5816	13	4828	12	5638	11	4.48	-	-	-
CHECKS:													
11	BIO - 9681	6000	12	6018	11	4903	11	5640	10	-	-	-	-
12	SEEDTEC - 2324	8017	3	6194	7	5633	4	6615	4	33.63	2.93	14.89	17.28
13	PARBHAT	5678	13	4877	15	5079	9	5211	14	-	-	3.59	-
14	PRO - 311	7939	4	7606	2	6238	2	7261	3	32.32	26.39	27.22	28.73
MEAN YIELD=													
MEAN STAND													
C.D. AT 5% =													
C.V. % =													
F (Prob)													
PLOT SIZE=													
AGRONOMY DATA:													
SOWING DATE (2004)		28-06		20-06		11-06							
HARVEST DATE (2004)		6-10		23-09		6-10							
IRRIGATION NOS		7		4									
FERTILIZER APPLIED N		150		150		120							
P		60		60		60							
K		30		40									

TABLE NO. 7 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC - 2324				PARBHAT				ZN 2 MEAN
		LU DH	KARN	PANT	ZN 2 MEAN	LU DH	KARN	PANT	ZN 2 MEAN	
1	J H - 10655	21.48	25.42	-	15.52	71.54	59.29	6.65	46.64	
2	J C 1441 C3 FS	-	-	-	-	11.53	26.65	-	6.20	
3	B H - 3301	-	10.10	-	-	37.23	39.83	-	25.88	
4	B H - 3313	7.93	22.31	17.77	15.21	52.41	55.35	30.62	46.25	
5	B H - 3316	-	-	-	-	15.32	26.60	9.36	16.90	
6	M H - 01 - 1	-	5.30	-	-	-	33.75	-	-	
7	M H - 01 - 2	-	-	-	-	34.44	21.35	0.39	19.29	
8	M H - 01 - 3	-	-	-	-	-	26.86	-	4.43	
9	M H - 01 - 4	-	-	8.17	-	20.11	13.45	19.98	17.99	
10	P M Z - 235	-	-	-	-	10.41	19.26	-	8.18	
CHECKS:										
11	BIO - 9681	-	-	-	-	5.67	23.39	-	8.23	
12	SEEDTEC - 2324	-	-	-	-	41.21	27.01	10.91	26.94	
13	PARBHAT	-	-	-	-	-	-	-	-	
14	PRO - 311	-	22.79	10.73	9.77	39.83	55.95	22.81	39.33	

SI NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE PRO - 311				DAYS 50% POLLEN SHED				
		LU DH	KARN	PANT	ZN 2 MEAN	LU DH	KARN	PANT	ZN 2 MEAN	
1	J H - 10655	22.68	2.14	-	5.24	56.0	52.7	-	54.3	
2	J C 1441 C3 FS	-	-	-	-	57.0	53.7	-	55.3	
3	B H - 3301	-	-	-	-	56.5	52.7	-	54.6	
4	B H - 3313	9.00	-	6.36	4.96	57.8	54.3	-	56.0	
5	B H - 3316	-	-	-	-	57.8	51.0	-	52.4	
6	M H - 01 - 1	-	-	-	-	57.5	53.3	-	55.4	
7	M H - 01 - 2	-	-	-	-	55.3	54.3	-	54.8	
8	M H - 01 - 3	-	-	-	-	55.3	53.3	-	53.3	
9	M H - 01 - 4	-	-	-	-	56.3	51.7	-	55.0	
10	P M Z - 235	-	-	-	-	55.3	51.7	-	53.5	
CHECKS:										
11	BIO - 9681	-	-	-	-	53.5	50.3	-	51.9	
12	SEEDTEC - 2324	0.99	-	-	-	54.5	53.0	-	53.8	
13	PARBHAT	-	-	-	-	56.3	54.0	-	55.1	
14	PRO - 311	-	-	-	-	54.8	51.7	-	53.2	
MEAN LOCATION										
C.D. AT 5%		-	-	-	-	55.8	52.8	-	54.3	
C.V. %		-	-	-	-	2.4	0.8	-	1.6	
F (Prob)		-	-	-	-	0.14	1.00	-	-	

TABLE NO. 7 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING				DAYS 50% DRY HUSK				MOISTURE % AT HARVEST				
		LUDH	KARN	PANT	ZN 2 MEAN	LUDH	KARN	PANT	ZN 2 MEAN	LUDH	PANT	ZN 2 MEAN	LUDH	PANT
1	J H - 10655	57.3	55.3	61.0	57.9	90.5	90.3	90.4	23.1	29.1	26.1	1.4	1.8	1.8
2	J H - 1411	58.7	55.5	60.8	58.2	92.5	90.0	91.3	22.5	28.2	25.5	3.3	2.5	3.3
3	J H - 33101	59.3	57.0	63.0	59.8	91.8	89.3	91.5	22.7	31.1	27.4	5.3	3.3	5.3
4	B B H - 3316	55.9	54.0	62.0	56.0	89.3	90.3	90.8	22.3	25.9	22.6	3.7	4.2	3.6
5	B M H - 01 - 1	58.8	56.0	61.0	58.3	91.8	89.0	90.4	22.4	25.7	22.6	3.3	4.4	3.4
6	M H - 01 - 2	56.8	54.3	60.3	57.4	90.5	88.3	89.4	22.3	26.4	24.3	6.8	4.9	6.8
7	M H - 01 - 4	57.5	54.3	60.3	58.8	88.7	88.3	89.5	22.3	25.2	22.6	3.3	4.4	3.1
8	M H - 01 - 4	56.8	54.3	60.3	57.4	90.5	88.3	89.4	22.3	26.4	24.3	6.8	4.9	6.8
9	P M Z - 235	56.8	54.3	60.3	58.8	88.7	88.3	89.5	22.3	25.2	22.6	3.3	4.4	3.1
10	CHECKS													
11	BIO - 9681	55.0	52.7	58.3	55.3	88.0	85.7	87.2	22.4	29.3	25.9	5.5	3.3	5.5
12	SEEDTEC - 2324	55.3	55.7	60.8	57.9	89.0	89.7	89.2	22.5	28.6	26.1	3.3	3.1	3.3
13	PARBHAT	55.5	53.7	60.8	56.6	88.3	87.3	87.8	22.3	30.6	26.6	5.7	6.8	5.5
14	PRO - 311	57.2	50.8	61.7	57.5	90.2	89.3	89.8	22.0	28.0	25.5	2.9	1.5	2.9
	MEAN LOCATION	2.1	0.9	1.2	1.5	1.7	1.3	1.7	0.7	2.0	1.1	0.7	1.5	1.1
	C.D. AT 5%	2.6	0.9	1.2	1.5	1.7	1.3	1.7	0.7	2.0	1.1	0.7	1.5	1.1
	C.V. %	2.00	0.00	1.00	1.00	1.02	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00
	F (Prob)													

SI NO	PEDIGREE	PLANT HEIGHT (CM)				EAR HEIGHT (CM)				EAR NO. / PLANT				STAND AT HARVEST			
		LUDH	KARN	PANT	ZN 2 MEAN	LUDH	KARN	PANT	ZN 2 MEAN	LUDH	KARN	PANT	ZN 2 MEAN	LUDH	KARN	PANT	ZN 2 MEAN
1	J H - 10655	230	257	252	246	125	150	108	128	0.99	49	50	36	45			
2	J H - 1411	206	220	219	215	108	120	90	106	1.01	76	50	55	61			
3	J H - 33101	223	233	244	240	111	128	94	101	0.97	71	55	52	63			
4	B B H - 3316	189	215	254	214	98	127	105	114	1.04	73	56	66	65			
5	B M H - 01 - 1	178	212	200	183	75	117	104	104	0.99	72	54	67	61			
6	M H - 01 - 2	195	210	211	207	104	113	91	103	1.00	43	36	33	37			
7	M H - 01 - 3	198	212	211	207	104	107	86	109	1.00	45	32	32	33			
8	M H - 01 - 4	193	220	221	216	108	120	98	106	0.97	71	55	51	64			
9	P M Z - 235	193	220	221	211	108	118	98	102	0.97	71	55	51	64			
10	CHECKS																
11	BIO - 9681	196	217	229	214	89	95	83	89	0.79	73	54	44	57			
12	SEEDTEC - 2324	211	220	215	204	94	110	85	97	0.98	68	54	56	60			
13	PARBHAT	199	213	240	224	114	117	97	109	1.02	66	50	39	52			
14	PRO - 311	199	220	218	215	109	118	94	107	0.96	76	52	71	66			
	MEAN LOCATION	19.3	13.2	16.6	16.4	15.0	10.8	10.7	12.2	-	67	4.0	14.4	8.8			
	C.D. AT 5%	6.8	3.6	5.1	-	10.4	5.7	8.1	-	-	8.4	4.6	19.4	-			
	C.V. %	0.00	0.00	0.00	-	0.00	0.00	0.00	-	-	0.00	0.00	0.00	-			
	F (Prob)																

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 1 ENTRIES)

TABLE NO. 8

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBIKAPUR IN IET TRIAL No. TR65Z3 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												Zn 3			
		GORA		BELI		VARA		DHOL		RUSH		JASH		AMBI		MEAN	R
1	M H - 01 - 1	3436	8	4358	7	2727	8	3508	8	3429	8	2701	6	3360	8		
2	M H - 01 - 2	4121	5	5357	3	5269	2	4583	7	4549	5	2526	8	4401	5		
3	M H - 01 - 3	3771	7	4152	8	3477	7	5918	4	3597	7	2716	5	3938	7		
4	M H - 01 - 4	4261	2	4739	6	4608	5	5499	5	4279	6	3767	4	4526	4		
5	BIO - 9681	4198	4	5074	5	4756	4	7835	2	4587	3	4397	1	5141	3		
6	SEEDTEC - 2324	5198	1	5860	1	4971	3	8026	1	4905	2	4187	2	5524	1		
7	PARBHAT	3779	6	5117	4	3945	6	5164	6	4570	4	2698	7	4212	6		
8	PRO - 311	4216	3	5797	2	5746	1	5923	3	5168	1	4071	3	5154	2		
	MEAN YIELD=	4122		5057		4437		5807		4385		3383		4532			
	MEAN STAND	63		69		68		55		64		59		63			
	C.D. AT 5%	399		441		982		1609		115		1140		781			
	C.V. %	6.62		5.01		15.13		18.94		1.79		19.36		-			
	F (Prob)	.000		.000		.000		.000		.000		.000		-			
	PLOT SIZE=	12.00		15.00		15.00		7.50		12.00		15.00		-			
AGRONOMY DATA:																	
	SOWING DATE(2004)	28-06		18-06		23-06		14-07		3-07		23-06		-			
	HARVEST DATE(2004)	30-09		17-09		2-11		26-10		19-10		-		-			
	IRRIGATION Nos	2		2		-		2		-		-		-			
	FERTILIZER APPLIED N	120		120		100		120		120		100		-			
	P	60		60		60		60		60		60		-			
	K	60		40		40		40		60		40		-			

TABLE NO. 8 (CONT.)

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE BIO - 9681								ZN 3 MEAN
	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI			
1 M H - 01 - 1	-	-	-	-	-	-	-	-	-
2 M H - 01 - 2	-	5.57	10.78	-	-	-	-	-	-
3 M H - 01 - 3	-	-	-	-	-	-	-	-	-
4 M H - 01 - 4	1.52	-	-	-	-	-	-	-	-
CHECKS:									
5 BIO - 9681	-	-	-	-	-	-	-	-	-
6 SEEDTEC - 2324	23.83	15.48	4.51	2.44	6.95	-	-	-	7.46
7 PARBHAT	-	0.85	-	-	-	-	-	-	-
8 PRO - 311	0.45	14.25	20.81	-	12.67	-	-	-	0.24

S1 NO PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SEEDTEC - 2324								ZN 3 MEAN
	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI			
1 M H - 01 - 1	-	-	-	-	-	-	-	-	-
2 M H - 01 - 2	-	-	6.00	-	-	-	-	-	-
3 M H - 01 - 3	-	-	-	-	-	-	-	-	-
4 M H - 01 - 4	-	-	-	-	-	-	-	-	-
CHECKS:									
5 BIO - 9681	-	-	-	-	-	-	-	5.02	-
6 SEEDTEC - 2324	-	-	-	-	-	-	-	-	-
7 PARBHAT	-	-	-	-	-	-	-	-	-
8 PRO - 311	-	-	15.60	-	5.35	-	-	-	-

TABLE NO. 8 (CONT.)

SI NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARBHAT							ZN 3 MEAN
	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI		
1 M H - 01 - 1	-	-	-	-	-	0.11	-	
2 M H - 01 - 2	9.05	4.68	33.55	-	-	-	4.48	
3 M H - 01 - 3	-	-	-	14.60	-	0.65	-	
4 M H - 01 - 4	12.77	-	16.80	6.48	-	39.62	7.44	
CHECKS:								
5 BIO - 9681	11.08	-	20.56	51.71	0.37	62.97	22.05	
6 SEEDTEC - 2324	37.55	14.51	25.99	55.40	7.35	55.18	31.15	
7 PARBHAT	-	-	-	-	-	-	-	
8 PRO - 311	11.58	13.28	45.64	14.70	13.09	50.89	22.35	

SI NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311							ZN 3 MEAN
	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI		
1 M H - 01 - 1	-	-	-	-	-	-	-	
2 M H - 01 - 2	-	-	-	-	-	-	-	
3 M H - 01 - 3	-	-	-	-	-	-	-	
4 M H - 01 - 4	1.07	-	-	-	-	-	-	
CHECKS:								
5 BIO - 9681	-	-	-	32.27	-	8.00	-	
6 SEEDTEC - 2324	23.28	1.08	-	35.49	-	2.84	7.19	
7 PARBHAT	-	-	-	-	-	-	-	
8 PRO - 311	-	-	-	-	-	-	-	

TABLE NO. 8 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *							EAR ASPECT *						
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN
1	M H - 01 - 1	2.5	1.8	2.5	3.0	3.0	2.4	2.5	2.1	3.0	4.0	2.5	3.0	2.8	2.9
2	M H - 01 - 2	2.6	1.8	2.5	3.3	2.0	2.5	2.4	2.0	2.8	2.9	2.8	2.0	2.7	2.5
3	M H - 01 - 3	2.5	1.5	2.5	2.8	1.5	2.6	2.2	2.3	2.5	3.0	2.3	2.0	2.6	2.4
4	M H - 01 - 4	2.4	2.3	1.9	2.9	2.0	2.7	2.4	2.1	2.8	2.8	2.3	2.0	2.4	2.4
CHECKS:															
5	BIO - 9681	2.4	1.8	2.5	2.8	1.3	2.6	2.2	2.0	2.5	2.4	2.3	1.5	2.3	2.1
6	SEEDTEC - 2324	2.3	1.5	2.5	2.5	1.8	2.4	2.1	2.0	2.3	1.9	2.0	1.8	2.3	2.0
7	PARBHAT	2.9	2.3	2.3	3.0	1.8	2.5	2.4	2.3	2.8	3.0	2.5	1.8	2.5	2.5
8	PRO - 311	2.4	2.3	1.9	2.8	1.0	2.5	2.1	2.0	2.8	2.0	2.3	1.3	2.1	2.1
MEAN LOCATION															
C.D. AT 5% =															
C.V. % =															
F (Prob) =															

SI NO	PEDIGREE	HUSK COVER *							UNIFORMITY *						
		GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN		
1	M H - 01 - 1	2.0	2.5	2.8	2.8	2.5	2.5	2.3	2.8	3.4	3.3	2.6	2.8		
2	M H - 01 - 2	2.0	3.0	2.8	2.5	2.7	2.6	2.8	2.8	3.0	2.8	2.6	2.8		
3	M H - 01 - 3	2.4	2.5	3.0	2.3	2.6	2.5	2.5	2.5	2.5	2.0	2.6	2.5		
4	M H - 01 - 4	2.4	3.0	3.0	3.3	2.3	2.8	2.4	2.5	2.3	2.3	2.2	2.3		
CHECKS:															
5	BIO - 9681	1.8	2.8	2.6	2.3	2.1	2.3	2.6	2.8	2.6	2.3	2.2	2.5		
6	SEEDTEC - 2324	1.9	2.3	3.0	1.5	2.3	2.2	2.4	2.3	2.0	1.8	2.3	2.1		
7	PARBHAT	2.0	2.5	3.0	2.0	2.5	2.4	3.0	3.0	2.5	2.8	2.5	2.8		
8	PRO - 311	1.8	2.0	2.1	1.0	2.2	1.8	2.6	2.3	1.6	1.3	2.3	2.0		
MEAN LOCATION															
C.D. AT 5% =															
C.V. % =															
F (Prob) =															

TABLE NO. 8 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 3 MEAN	AMBI	JASH	KUSH	DHOL	VARA	BELI	GORA	ZN 3 MEAN	AMBI	JASH	KUSH	DHOL	VARA	BELI	GORA	ZN 3 MEAN		
		BELI	VARA	DHOL	KUSH	JASH	AMBI	BELI	VARA																		DHOL	KUSH
1	M H - 01 - 1	119	198	142	147	152	188	157	43	78	56	61	61	63	60	60	60	63	63	61	61	61	61	61	61	61	61	63
2	M H - 01 - 2	115	230	142	179	176	198	173	39	93	69	76	91	76	74	74	74	76	76	91	76	91	76	91	76	74	74	
3	M H - 01 - 3	129	230	156	178	170	211	179	48	100	76	79	82	80	78	78	78	80	80	82	79	82	80	82	80	78	78	
4	M H - 01 - 4	142	245	167	181	173	218	188	67	120	99	95	89	95	94	94	94	95	95	89	95	89	95	89	95	94	94	
CHECKS:																												
5	BIO - 9681	150	248	172	181	177	210	189	40	95	72	69	70	63	68	68	68	63	70	69	70	69	70	69	70	63	68	
6	SEEDTEC - 2324	129	220	151	155	157	210	170	49	88	76	70	76	77	73	73	73	77	76	70	76	70	76	77	77	73	73	
7	PARBHAT	162	253	170	159	186	216	191	63	120	84	60	89	81	83	83	83	81	89	60	89	84	60	89	81	83	83	
8	PRO - 311	141	200	162	158	157	219	173	60	88	90	82	72	86	80	80	80	86	82	90	82	90	82	72	86	80	80	
MEAN LOCATION		136	228	158	167	169	209	178	51	98	78	74	79	78	76	76	76	78	79	78	74	79	78	79	78	76	76	
C.D. AT 5%		14.0	10.2	17.0	19.9	5.5	16.5	13.8	12.6	18.7	17.5	14.4	3.2	12.6	13.2	13.2	13.2	12.6	3.2	14.4	3.2	12.6	14.4	3.2	12.6	13.2	13.2	
C.V. %		7.0	2.6	7.3	8.1	2.2	4.5	-	16.7	11.0	15.4	13.2	2.7	9.3	-	-	-	9.3	2.7	11.0	15.4	13.2	2.7	9.3	-	-	-	
F (Prob)		.000	.000	.005	.005	.000	.013	-	.000	.002	.002	.001	.000	.001	.001	.001	.001	.000	.000	.002	.001	.000	.000	.000	.001	.001	-	

SI NO	PEDIGREE	EAR NO. / PLANT				H.MAY. STAND AT HARVEST				ZN 3 MEAN	AMBI	JASH	KUSH	DHOL	VARA	BELI	GORA	ZN 3 MEAN	AMBI	JASH	KUSH	DHOL	VARA	BELI	GORA	ZN 3 MEAN
		BELI	VARA	KUSH	JASH	BELI	VARA	KUSH	JASH																	
1	M H - 01 - 1	0.98	0.96	0.97	1.00	1.01	0.99	3.8	59	75	74	61	63	60	65	65	65	60	63	61	63	61	63	60	65	65
2	M H - 01 - 2	0.97	0.98	1.04	1.00	1.09	1.02	3.0	45	58	34	37	58	48	47	47	47	48	37	58	34	37	58	48	47	47
3	M H - 01 - 3	0.98	0.95	1.05	1.00	1.01	1.00	2.6	61	67	73	52	66	59	63	63	63	59	66	73	52	66	59	66	63	63
4	M H - 01 - 4	0.99	1.04	1.04	1.00	0.99	1.01	2.4	69	72	75	51	65	67	67	67	67	67	72	75	51	65	65	67	67	67
CHECKS:																										
5	BIO - 9681	0.99	0.98	1.04	1.00	1.07	1.01	2.6	64	66	79	58	64	65	66	66	66	65	66	79	58	64	66	65	66	66
6	SEEDTEC - 2324	0.99	0.97	1.38	1.00	1.04	1.08	2.6	75	71	71	62	65	63	68	68	68	63	65	71	62	65	63	65	68	68
7	PARBHAT	0.99	0.97	1.03	1.00	1.00	1.00	2.9	60	70	66	67	64	45	62	62	62	45	67	66	67	64	45	65	62	62
8	PRO - 311	0.98	1.00	1.00	1.00	1.02	1.00	2.4	74	69	74	51	65	65	66	66	66	65	65	74	51	65	65	65	66	66
MEAN LOCATION		-	-	-	-	-	-	2.8	63	69	68	55	64	59	63	63	63	59	64	69	68	55	64	59	63	63
C.D. AT 5%		-	-	-	-	-	-	0.5	6.7	8.9	10.8	24.1	4.5	12.1	11.2	11.2	11.2	11.7	4.5	10.8	24.1	4.5	12.1	11.7	11.2	11.2
C.V. %		-	-	-	-	-	-	12.5	7.2	7.4	10.8	29.9	4.8	11.7	-	-	-	11.7	4.8	7.4	10.8	29.9	4.8	11.7	-	-
F (Prob)		-	-	-	-	-	-	.000	.000	.037	.000	.291	.054	.011	-	-	-	.011	.054	.037	.000	.291	.054	.011	-	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 9

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-IV, AT KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, IN IET, TRIAL. NO. TR65Z4 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		KARI	R	ARBH	R	MAND	R	COIM	R	MEAN	R					
1	J H - 10655	7300	4	5620	2	5214	4	6349	2	6121	3					
2	J C 1441 C3 FS	5681	8	4858	7	3449	12	5058	7	4761	8					
3	B H - 3315	4969	12	5016	6	4060	11	4454	11	4625	11					
4	M H - 01 - 1	3728	13	2980	13	5223	3	3614	13	3886	13					
5	M H - 01 - 2	5350	10	4590	9	4785	5	4638	10	4841	7					
6	M H - 01 - 3	5776	7	3787	12	4349	8	4837	8	4687	10					
7	M H - 01 - 4	6958	5	4161	10	4584	7	4811	9	5129	6					
8	P M Z - 235	6479	6	5094	4	4587	6	5583	4	5436	5					
CHECKS:																
9	BIO - 9681	5378	9	5073	5	3059	13	5372	5	4720	9					
10	SEEDTEC - 2324	8022	3	5782	1	5470	2	6173	3	6362	2					
11	PARBHAT	5022	11	4101	11	4072	10	4225	12	4355	12					
12	PRO - 311	8611	1	4721	8	4239	9	5227	6	5699	4					
	MEAN YIELD=	6256		4696		4532		5178		5166						
	MEAN STAND	70		65		51		54		60						
	C.D. AT 5% =	826		1122		1528		744		1055						
	C.V. % =	9.22		16.69		20.05		10.04		-						
	F (Prob)	.000		.003		.086		.000		-						
	PLOT SIZE=	12.00		15.00		10.50		9.60		-						
AGRONOMY DATA:																
	SOWING DATE (2004)	16-07		1-07		24-07		29-06		-						
	HARVEST DATE (2004)	26-10		16-11		7-12		29-10		-						
	IRRIGATION Nos	-		8		6		9		-						
	FERTILIZER APPLIED N	180		150		150		135		-						
	P	60		75		75		53		-						
	K	40		38		40		50		-						

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20.1%) : HYDE 23.9% ; MONS 20.3% ; KOLH 36.0%

TABLE NO. 9 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 4						
		KARI	ARBH	MAND	COIM	MEAN	KARI	ARBH	MAND	COIM	MEAN	COIM	MEAN			
1	J H - 10655	54.3	63.0	50.7	55.5	55.9	56.3	63.3	52.0	57.3	57.2					
2	J C 1441 C3 FS	54.3	63.8	51.0	58.0	56.8	56.5	66.8	52.3	57.0	59.4					
3	B H - 3315	54.0	60.5	47.7	53.9	53.9	57.5	61.0	49.3	56.0	56.1					
4	M H - 01 - 1	53.8	63.3	51.3	57.3	56.4	56.3	65.3	54.3	60.5	59.1					
5	M H - 01 - 2	53.3	61.5	51.0	56.3	55.5	56.3	61.8	53.3	58.3	57.4					
6	M H - 01 - 3	53.8	62.8	51.0	55.5	55.8	57.8	66.0	53.3	58.5	58.9					
7	M H - 01 - 4	54.3	62.0	48.7	55.5	55.1	56.0	64.3	51.3	58.3	57.5					
8	P M Z - 235	54.8	61.5	50.7	55.5	55.6	57.3	62.3	52.0	58.3	57.4					
CHECKS:																
9	BIO - 9681	54.5	61.3	48.7	55.0	54.9	57.3	63.0	50.7	57.0	57.0					
10	SEEDTEC - 2324	52.5	61.5	51.0	57.0	55.5	55.5	61.8	52.0	60.0	57.3					
11	PARBHAT	54.8	62.0	49.7	56.5	55.7	58.0	65.0	52.7	60.5	59.0					
12	PRO - 311	54.3	62.8	51.7	56.3	56.5	56.5	63.5	54.0	60.3	58.6					
	MEAN LOCATION	53.9	62.2	50.4	56.1	55.6	56.6	63.7	52.4	58.9	57.9					
	C.D. AT 5% =	2.3	1.9	1.9	1.0	1.8	2.3	2.1	2.8	1.1	2.1					
	C.V. % =	3.0	2.1	2.3	1.2	-	2.8	2.3	3.2	1.3	-					
	F (Prob)	.747	.043	.003	.000	-	.279	.000	.061	.000	-					
SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE & AT HARVEST				PLANT ASPECT *						
		KARI	MAND	COIM	MEAN	ZN 4	ARBH	MAND	MEAN	ZN 4	KARI	ARBH	MAND	COIM	MEAN	ZN 4
1	J H - 10655	89.5	84.3	102.0	91.9	25.0	20.2	22.6	22.6	2.0	2.0	1.7	2.0	1.9		
2	J C 1441 C3 FS	93.0	87.0	107.0	95.7	19.7	18.1	18.9	18.9	2.8	3.0	3.0	3.0	2.6		
3	B H - 3315	95.0	86.3	101.5	94.3	19.1	20.3	19.7	19.7	2.5	2.7	2.3	3.0	2.6		
4	M H - 01 - 1	92.3	87.0	105.5	94.9	19.3	18.8	19.1	19.1	3.5	2.8	2.7	3.8	3.2		
5	M H - 01 - 2	92.8	86.0	103.3	94.0	18.1	19.4	18.8	18.8	3.3	3.0	2.0	3.0	2.8		
6	M H - 01 - 3	93.8	85.7	103.5	94.3	19.3	17.3	18.3	18.3	2.8	2.7	2.7	3.0	2.8		
7	M H - 01 - 4	92.5	85.0	103.3	93.6	17.3	19.8	18.5	18.5	3.0	2.8	2.7	3.0	2.9		
8	P M Z - 235	92.0	85.0	103.3	93.4	21.0	19.4	20.2	20.2	2.0	2.3	2.0	2.0	2.1		
CHECKS:																
9	BIO - 9681	91.0	84.7	102.0	92.6	20.7	20.3	20.5	20.5	3.3	2.3	2.3	2.0	2.5		
10	SEEDTEC - 2324	92.5	85.0	105.0	94.2	21.9	19.4	20.6	20.6	2.3	2.0	2.3	2.0	2.1		
11	PARBHAT	93.8	85.0	105.5	94.8	20.1	19.0	19.6	19.6	3.8	2.8	2.7	3.0	3.0		
12	PRO - 311	92.0	84.7	105.3	94.0	20.1	19.8	20.0	20.0	3.0	2.5	2.3	3.0	2.7		
	MEAN LOCATION	92.7	85.7	103.9	94.1	20.5	19.3	19.9	19.9	2.8	2.5	2.3	2.7	2.6		
	C.D. AT 5% =	2.9	2.1	1.1	2.0	1.5	2.1	1.8	1.8	1.9	0.8	0.8	0.2	0.6		
	C.V. % =	2.2	1.4	0.7	-	4.9	6.6	-	-	24.9	5.6	21.8	5.2	-		
	F (Prob)	.045	.029	.000	-	.000	.215	-	-	.006	.000	.026	.000	-		

TABLE NO. 9 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *				HUSK COVER *				ZN 4						
		KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	ARBH	MAND	COIM	ZN 4 MEAN
1	J H - 10655	1.3	1.8	1.3	2.0	1.6	2.0	1.7	2.0	2.0	2.3	2.3	1.7	2.0	2.0	2.5
2	J C 1441 C3 FS	2.3	2.5	2.3	3.0	2.5	3.0	2.3	3.0	2.0	2.5	2.3	2.0	3.0	2.3	2.3
3	B H - 3315	1.8	2.3	2.7	3.0	2.4	3.0	2.0	3.0	2.0	2.0	2.3	2.0	3.0	2.3	2.3
4	M H - 01 - 1	2.0	3.0	3.0	3.8	2.9	3.0	3.0	3.8	2.5	2.5	2.8	3.0	3.8	2.6	2.6
5	M H - 01 - 2	1.5	3.0	2.3	3.0	2.5	3.0	2.3	3.0	2.6	2.8	2.8	3.3	3.0	3.0	3.0
6	M H - 01 - 3	1.8	2.5	3.0	3.0	2.6	3.0	2.7	3.0	2.5	2.5	2.5	3.3	3.0	2.9	2.9
7	M H - 01 - 4	1.5	3.0	2.7	3.0	2.5	3.0	2.7	3.0	2.5	2.8	2.5	3.3	3.0	2.9	2.9
8	P M Z - 235	2.0	2.5	3.0	2.0	2.4	2.0	2.0	2.0	2.4	1.3	2.3	2.0	2.0	2.0	1.9
CHECKS:																
9	BIO - 9681	2.3	2.8	3.0	3.0	2.8	3.0	3.0	3.0	2.8	2.0	2.0	2.3	3.0	2.3	2.3
10	SEEDTEC - 2324	1.3	2.3	2.0	2.0	1.9	2.0	2.0	2.0	1.9	1.3	2.0	2.0	2.0	2.0	1.8
11	PARBHAT	2.5	3.0	3.0	4.0	3.1	3.0	3.0	4.0	3.1	2.0	2.3	2.7	3.0	2.5	2.5
12	PRO - 311	1.0	3.0	3.0	3.0	2.5	3.0	2.0	2.8	2.4	1.8	2.3	2.0	3.0	2.4	2.4
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob) =																
32.3 6.3 17.2 4.9 0.2 0.9 0.2 0.9 0.2 0.9 31.3 6.4 22.5 5.0 0.20 .010 .000																
SI NO	PEDIGREE	UNIFORMITY *				PLANT HEIGHT (cm)				ZN 4						
		KARI	ARBH	MAND	COIM	ZN 4 MEAN	KARI	MAND	COIM	ZN 4 MEAN	KARI	MAND	COIM	ZN 4 MEAN		
1	J H - 10655	2.0	2.0	2.3	2.0	2.1	204	237	186	209	204	237	186	209		
2	J C 1441 C3 FS	3.5	3.0	3.0	3.0	3.1	216	211	164	197	216	211	164	197		
3	B H - 3315	2.5	2.0	2.0	3.0	2.4	191	215	165	190	191	215	165	190		
4	M H - 01 - 1	3.0	2.0	2.0	3.8	2.7	163	195	147	168	163	195	147	168		
5	M H - 01 - 2	3.5	2.5	2.7	3.0	2.9	179	213	150	181	179	213	150	181		
6	M H - 01 - 3	3.3	2.5	2.3	3.0	2.8	179	216	169	188	179	216	169	188		
7	M H - 01 - 4	2.8	2.0	2.7	3.0	2.6	185	222	169	192	185	222	169	192		
8	P M Z - 235	2.8	2.3	2.0	3.0	2.5	207	209	168	195	207	209	168	195		
CHECKS:																
9	BIO - 9681	3.3	2.3	2.3	2.0	2.5	185	212	181	193	185	212	181	193		
10	SEEDTEC - 2324	2.3	2.0	2.0	2.0	2.1	195	203	149	182	195	203	149	182		
11	PARBHAT	3.0	2.5	2.7	4.0	3.0	196	224	183	201	196	224	183	201		
12	PRO - 311	2.8	2.0	2.3	3.0	2.5	179	200	160	180	179	200	160	180		
MEAN LOCATION																
C.D. AT 5% =																
C.V. % =																
F (Prob) =																
1.3 0.1 0.9 0.2 0.6 12.0 15.4 8.5 12.0 4.4 4.3 3.6 3.6 .000 .001 .000																

TABLE NO. 9 (CONT.)

SL NO PEDIGREE	EAR HEIGHT (cm)			EAR NO. / PLANT			STAND AT HARVEST			ZN 4 COIM MEAN	
	KARI	MAND	COIM	KARI	MAND	COIM	KARI	ARBH	MAND		COIM
1 J H - 10655	99	127	101	1.00	0.90	0.93	73	59	45	56	58
2 J C 1441 C3 FS	86	103	83	0.98	0.80	0.97	75	71	50	57	63
3 B H - 3315	87	96	66	0.95	0.83	0.93	65	70	57	41	58
4 M H - 01 - 1	73	105	82	1.02	0.85	0.96	64	61	44	47	54
5 M H - 01 - 2	83	112	73	0.97	1.16	0.94	65	51	42	35	48
6 M H - 01 - 3	90	120	85	0.98	0.84	0.94	74	66	54	53	62
7 M H - 01 - 4	88	126	92	0.96	0.98	0.91	70	69	53	62	64
8 P M Z - 235	85	110	88	0.90	1.01	0.93	76	65	55	64	65
CHECKS:											
9 BIO - 9681	74	87	86	0.90	0.98	0.97	69	56	56	59	60
10 SEEDTEC - 2324	85	97	82	0.95	0.90	1.00	69	67	56	57	62
11 PARBHAT	94	117	89	0.94	1.00	1.02	68	71	59	58	64
12 PRO - 311	86	99	79	0.94	0.98	0.99	69	76	49	61	64
MEAN LOCATION	86	108	84	-	-	-	70	65	51	54	60
C.D. AT 5%	12.6	14.1	6.8	-	-	-	9.2	15.9	10.1	4.1	9.8
C.V. †	10.3	7.8	5.6	-	-	-	9.2	17.0	11.7	5.3	-
F (Prob)	.018	.000	.000	-	-	-	.185	.146	.011	.000	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) .
(DELETED 1 ENTRY)

TABLE NO. 10

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-I&II, AT
BAJAURA, KANGRA, LUDDHIANA, KARNAL, IN AWT 1st YEAR, TRIAL NO. TR66Z12 DURING
KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L			
		BAJA			KANG			LUDDH			KARN			ZN 2		MEAN	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
1	J C - 1459	4241	11	3486	11	3863	12	9030	9	5695	7	7363	8	5613	11		
2	B H - 3443	5766	4	5065	3	5415	4	10868	1	7263	1	9066	1	7240	1		
3	P M Z - 136	7105	2	3922	10	5514	3	8594	10	4409	11	6502	11	6008	8		
4	KAVERI - 2288	7575	1	4015	8	5795	1	10423	2	6396	3	8409	2	7102	2		
5	B I O - 22069	4830	8	5068	2	4949	6	9774	4	5473	8	7623	7	6286	6		
6	X - 2005	4092	12	5006	4	4549	10	9091	7	6232	4	7661	6	6105	7		
7	S M H - 3758	6259	3	5244	1	5752	2	9988	3	6679	2	8334	3	7043	3		
CHECKS:																	
8	NAVJOT	4807	9	3323	12	4065	11	6717	12	4158	12	5437	12	4751	12		
9	KH 510	5330	6	3976	9	4653	8	9071	8	4885	10	6978	10	5816	9		
	MEAN YIELD=	5429		4425		4927		9237		5742		7489		6208			
	MEAN STAND	50		48		49		70		51		61		55			
	C.D. AT 5% =	756		946		851		925		562		743		797			
	C.V. % =	9.70		12.66		-		6.97		5.79		-		-			
	F (Prob)	.000		.002		-		.000		.000		-		-			
	PLOT SIZE=	9.60		9.60		-		10.40		9.00		-		-			
AGRONOMY DATA:																	
	SOWING DATE(2004)	10-06		10-06		-		28-06		20-06		-		-			
	HARVEST DATE(2004)	5-10		22-09		-		6-10		21-09		-		-			
	IRRIGATION Nos	2		-		-		7		3		-		-			
	FERTILIZER APPLIED N	120		80		-		150		150		-		-			
	P	60		60		-		60		60		-		-			
	K	40		40		-		30		40		-		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : PANT 34.5%

TABLE NO. 10 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT							OV'L MEAN
		BAJA	KANG	ZN 1 MEAN	LJDH	KARN	ZN 2 MEAN		
1	J C - 1459	-	4.90	-	34.44	36.98	35.41	18.14	
2	B H - 3443	19.94	52.44	33.22	61.81	74.67	66.73	52.39	
3	P M Z - 136	47.80	18.04	35.64	27.95	6.04	19.57	26.45	
4	KAVERI - 2288	57.58	20.83	42.56	55.18	53.81	54.66	49.48	
5	B I O - 22069	0.48	52.52	21.75	45.51	31.62	40.20	32.31	
6	X - 2005	-	50.66	11.91	35.34	49.89	40.90	28.50	
7	S M H - 3758	30.20	57.83	41.49	48.71	60.64	53.27	48.23	
CHECKS:									
8	NAVJOT	-	-	-	-	-	-	-	-
9	KH 510	10.87	19.66	14.46	35.06	17.49	28.34	22.40	

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KH 510							OV'L MEAN
		BAJA	KANG	ZN 1 MEAN	LJDH	KARN	ZN 2 MEAN		
1	J C - 1459	-	-	-	-	16.59	5.51	-	
2	B H - 3443	8.18	27.39	16.39	19.81	48.67	29.91	24.50	
3	P M Z - 136	33.31	-	18.50	-	-	-	3.30	
4	KAVERI - 2288	42.13	0.97	24.55	14.90	30.92	20.51	22.12	
5	B I O - 22069	-	27.46	6.37	7.74	12.03	9.24	8.09	
6	X - 2005	-	25.90	-	0.21	27.58	9.79	4.98	
7	S M H - 3758	17.43	31.90	23.61	10.11	36.73	19.42	21.10	
CHECKS:									
8	NAVJOT	-	-	-	-	-	-	-	
9	KH 510	-	-	-	-	-	-	-	

TABLE NO. 10 (CONT.)

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED				ZN 1		ZN 2		OV'L	
	BAJA	KANG	LUDH	KARN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
1 J C - 1459	73.5	54.3	63.9	52.5	52.7	52.6	58.3			
2 B H - 3443	70.5	53.3	61.9	49.0	49.3	49.2	55.5			
3 P M Z - 136	66.3	51.0	58.6	48.5	50.0	49.3	53.9			
4 KAVERI - 2288	67.3	54.3	60.8	51.0	51.3	51.2	56.0			
5 B I O - 22069	70.0	53.7	61.8	49.5	50.3	49.9	55.9			
6 X - 2005	72.0	52.3	62.2	51.0	51.0	51.0	56.6			
7 S M H - 3758	69.8	51.0	60.4	50.3	51.7	51.0	55.7			
CHECKS:										
8 NAVJOT	70.3	52.3	61.3	48.8	48.3	48.5	54.9			
9 KH 510	70.3	53.3	61.8	49.3	50.0	49.6	55.7			
MEAN LOCATION	70.2	53.4	61.8	50.8	50.9	50.8	56.3			
C.D. AT 5%	1.8	1.6	1.7	1.0	0.8	0.9	-			
C.V. %	1.8	1.8	-	1.3	1.0	-	-			
F (Prob)	.000	.000	-	.000	.000	-	-			

SI NO PEDIGREE	DAYS TO 50% SILKING				ZN 1		ZN 2		OV'L	
	BAJA	KANG	LUDH	KARN	MEAN	MEAN	MEAN	MEAN	MEAN	MEAN
1 J C - 1459	75.8	58.7	67.2	53.5	54.7	54.1	60.6			
2 B H - 3443	73.0	58.0	65.5	50.0	51.7	50.8	58.2			
3 P M Z - 136	69.0	55.3	62.2	49.5	52.0	50.8	56.5			
4 KAVERI - 2288	69.8	58.3	64.0	52.0	53.3	52.7	58.4			
5 B I O - 22069	72.5	58.7	65.6	50.5	53.3	51.9	58.8			
6 X - 2005	74.8	57.0	65.9	53.0	53.7	53.3	59.6			
7 S M H - 3758	71.8	55.3	63.5	51.3	54.0	52.6	58.1			
CHECKS:										
8 NAVJOT	73.0	57.0	65.0	49.8	51.3	50.5	57.8			
9 KH 510	72.8	56.0	64.4	50.3	52.0	51.1	57.8			
MEAN LOCATION	72.7	57.6	65.2	51.9	53.4	52.6	58.9			
C.D. AT 5%	2.2	1.6	1.9	0.9	1.0	1.0	-			
C.V. %	2.1	1.6	-	1.3	1.1	-	-			
F (Prob)	.000	.000	-	.000	.000	-	-			

TABLE NO. 10 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)				EAR NO. / PLANT					
		BAJA	KANG	ZN 1 MEAN	LUDH	KARN	ZN 2 MEAN	OV'L MEAN	KANG	LUDH	OV'L MEAN
1	J C - 1459	72	118	95	110	113	112	103	1.00	0.99	1.00
2	B H - 3443	67	109	88	113	93	103	95	1.00	1.06	1.03
3	P M Z - 136	79	112	96	105	103	104	100	1.00	1.02	1.01
4	KAVERI - 2288	91	123	107	106	110	108	108	1.01	1.00	1.00
5	B I O - 22069	82	117	85	108	95	101	93	1.02	1.02	1.02
6	X - 2005	68	117	93	105	92	98	96	1.01	0.99	1.00
7	S M H - 3758	81	120	101	111	108	110	105	1.01	1.00	1.01
CHECKS:											
8	NAVJOT	84	114	99	105	98	102	100	1.01	1.12	1.07
9	KH 510	61	119	90	105	98	102	96	0.99	1.03	1.01
MEAN LOCATION											
	C.D. AT 5%	13.5	12.7	13.1	13.4	9.1	11.3	-	-	-	-
	C.V. %	12.4	6.4	-	8.6	5.2	-	-	-	-	-
	F (Prob)	.000	.408	-	.487	.000	-	-	-	-	-

Sl No	PEDIGREE	H.tur. * H.may. * STAND AT HARVEST				OV'L					
		BAJA	BAJA	BAJA	BAJA	KANG	LUDH	KARN	OV'L MEAN	KANG	LUDH
1	J C - 1459	1.5	1.3	51	43	71	49	53	53	54	54
2	B H - 3443	2.0	1.5	46	45	71	53	54	62	58	58
3	P M Z - 136	1.4	1.6	61	58	76	53	58	56	58	58
4	KAVERI - 2288	1.1	1.4	55	50	73	48	51	51	51	51
5	B I O - 22069	1.1	1.0	49	48	79	51	51	51	51	51
6	X - 2005	2.3	1.5	55	53	73	51	51	51	51	51
7	S M H - 3758	2.0	1.3	49	42	69	49	49	49	49	49
CHECKS:											
8	NAVJOT	2.5	1.3	49	46	71	49	49	49	49	49
9	KH 510	1.9	1.3	47	49	66	49	49	49	49	49
MEAN LOCATION											
	C.D. AT 5%	0.6	0.3	4.5	8.3	6.8	4.9	4.9	4.9	4.9	4.9
	C.V. %	24.4	18.3	6.2	10.1	6.8	5.7	5.7	5.7	5.7	5.7
	F (Prob)	.000	.051	.000	.018	.000	.000	.000	.000	.000	.000

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 3 ENTRIES)

TABLE NO. 11

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-III. AT BELIPAR GORAKHPUR, VARANASI, DHOLI, JASHIPUR, AMBICAPUR IN AET 1st YEAR, TRIAL No. TR66Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3		
		GORA		BELI		VARA		DHOL		JASH		AMBI		MEAN	R	
1	L - 134	3728	9	4320	9	3385	9	3372	9	3717	8	3705	9			
2	E H - 30969	4478	7	5105	6	3516	8	4162	6	4034	6	4259	7			
3	H K H - 1200	5051	1	4953	7	5284	5	5794	2	4764	3	5169	3			
4	A H - 24008	4970	2	5267	5	4325	7	4083	7	3778	7	4485	6			
5	B I O - 22069	4279	8	6543	2	6377	1	5934	1	6225	1	5872	1			
CHECKS:																
6	NAVJOT	4583	6	4602	8	4515	6	3899	8	3643	9	4249	8			
7	KH 510	4682	4	5738	3	5871	3	5088	4	4427	4	5161	4			
	MEAN YIELD=	4576		5403		5030		4652		4441		4820				
	MEAN STAND	67		72		79		63		66		69				
	C.D. AT 5%	641		248		1095		190		770		589				
	C.V. %	9.64		3.16		14.97		2.82		11.93		-				
	F (Prob)	.000		.000		.000		.000		.000		-				
	PLOT SIZE=	12.00		15.00		15.00		12.00		15.00		-				
AGRONOMY DATA:																
	SOWING DATE(2004)	27-06		17-06		22-06		5-07		22-06		-				
	HARVEST DATE(2004)	29-09		18-09		1-11		20-10		-		-				
	IRRIGATION Nos	2		2		-		-		-		-				
	FERTILIZER APPLIED N	120		100		100		120		100		100				
	P	60		60		60		60		60		60				
	K	60		40		40		60		40		40				

TABLE NO. 11 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE NAVJOT										
SL NO	PEDIGREE	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN			
1	L - 134	-	-	-	-	2.02	-			
2	E H - 30969	-	10.92	-	6.75	10.73	0.25			
3	H K H - 1200	10.22	7.63	17.02	48.58	30.75	21.67			
4	A H - 24008	8.45	14.45	-	4.72	3.71	5.56			
5	B I O - 22069	-	42.19	41.22	52.20	70.87	38.21			
CHECKS:										
6	NAVJOT	-	-	-	-	-	-			
7	KH 510	2.15	24.70	30.02	30.49	21.51	21.48			
GRAIN YIELD % SUPERIORITY OVER THE KH 510										
SL NO	PEDIGREE	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN			
1	L - 134	-	-	-	-	-	-			
2	E H - 30969	-	-	-	-	-	-			
3	H K H - 1200	7.90	-	-	13.86	7.61	0.15			
4	A H - 24008	6.17	-	-	-	-	-			
5	B I O - 22069	-	14.03	8.61	16.63	40.63	13.77			
CHECKS:										
6	NAVJOT	-	-	-	-	-	-			
7	KH 510	-	-	-	-	-	-			
DAYS TO 50% POLLEN SHED										
SL NO	PEDIGREE	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN	DAYS TO 50% SILKING		
1	L - 134	52.8	46.5	50.3	47.0	50.0	49.3	GORA BELI	ZN 3 MEAN	
2	E H - 30969	52.3	44.8	50.3	45.3	48.3	48.2	55.0	50.8	
3	H K H - 1200	53.3	51.0	53.3	50.5	52.0	52.0	54.3	48.0	
4	A H - 24008	54.3	46.3	51.3	47.8	51.8	50.3	55.3	53.5	
5	B I O - 22069	53.0	47.5	51.8	48.8	51.0	50.4	56.8	52.0	
CHECKS:										
6	NAVJOT	52.3	48.0	52.0	47.0	49.3	49.7	55.5	52.0	
7	KH 510	54.0	49.0	51.8	48.3	52.5	51.1	54.5	50.5	
MEAN LOCATION										
C.D. AT 5%		1.0	2.2	1.2	1.6	1.3	1.5	1.1	1.3	1.6
C.V. %		1.2	3.1	1.7	2.3	1.8	-	1.4	2.0	2.1
F (Prob)		.000	.000	.001	.000	.000	-	.000	.000	.001

TABLE NO. 11 (CONT.)

SL NO	PEDIGREE	EAR NO. / PLANT				OV'L		H.turc. H.*	
		GORA BELI	VARA	JASH	AMBI	MEAN	AMBI	JASH	
1	L - 134	0.99	0.96	1.00	1.03	1.00	1.5	2.5	
2	E H - 30969	0.99	1.00	1.00	0.98	0.99	1.0	3.4	
3	H K H - 1200	1.00	0.97	1.00	1.10	1.02	1.3	2.1	
4	A H - 24008	0.99	0.97	1.00	1.00	0.99	1.3	2.1	
5	B I O - 22069	1.00	0.99	1.00	1.08	1.02	1.5	2.3	
CHECKS:									
6	NAVJOT	0.99	0.98	1.00	1.10	1.02	1.0	3.6	
7	KH 510	0.98	0.98	1.00	1.02	0.99	1.0	2.3	
MEAN LOCATION									
C.D. AT 5% =									
C.V. % =									
F (Prob) =									

SL NO	PEDIGREE	STAND AT HARVEST				ZIN 3	
		GORA BELI	VARA	DHOL	JASH	AMBI	MEAN
1	L - 134	66	71	82	63	75	72
2	E H - 30969	65	71	79	64	51	66
3	H K H - 1200	73	72	79	64	75	73
4	A H - 24008	72	70	83	63	72	72
5	B I O - 22069	68	72	83	64	72	71
CHECKS:							
6	NAVJOT	58	70	74	60	54	63
7	KH 510	61	72	70	62	47	62
MEAN LOCATION							
C.D. AT 5% =							
C.V. % =							
F (Prob) =							

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR).
(DELETED 2 ENTRIES)

TABLE NO. 12

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-IV, AT BAKARAM KANCHAN GANGA, KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, IN AET 1st YEAR, TRIAL NO. TR56Z4 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4		
		BAKA		KARI		ARBH		MAND		COIM		R		MEAN	R	
1	E H - 31079	5120	10	3968	10	5122	8	3573	11	3940	9	4345	9			
2	H K H - 1200	6219	3	5773	2	5632	5	4879	3	5874	4	5675	3			
3	A H - 23071	5832	5	4317	8	5205	7	3685	10	4516	7	4711	7			
4	A H - 017045	5276	8	4163	9	4726	10	3720	9	3605	11	4298	11			
5	A H - 24008	5432	7	4746	6	5095	9	4036	8	3938	10	4649	8			
6	P M Z - 136	5715	6	4746	7	6593	2	4583	4	5411	5	5410	6			
7	B I O - 22069	4951	11	6088	1	6808	1	4577	5	6342	1	5753	2			
8	X - 2005	6051	4	5296	4	6100	4	5657	1	6256	2	5872	1			
CHECKS:																
9	NAVJOT	5235	9	3674	11	4482	11	4246	7	3960	8	4319	10			
10	KH 510	6316	1	4874	5	6411	3	4273	6	5983	3	5571	4			
	MEAN YIELD=	5672		4834		5603		4415		4975		5100				
	MEAN STAND	57		77		75		57		52		63				
	C.D. AT 5%	645		797		653		1159		546		760				
	C.V. %	7.90		11.44		8.09		15.46		7.62		-				
	F (Prob)	.000		.000		.000		.010		.000		-				
	PLOT SIZE=	15.00		12.00		15.00		10.50		9.60		-				
AGRONOMY DATA:																
	SOWING DATE (2004)	5-06		23-07		5-07		24-07		30-06		-				
	HARVEST DATE (2004)	26-09		10-11		2-12		7-12		20-10		-				
	IRRIGATION NOS	7		-		8		6		8		-				
	FERTILIZER APPLIED N	120		150		150		150		135		-				
	P	60		60		75		75		63		-				
	K	40		40		38		40		50		-				

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : HYDE 21.8% ; KOLH 22.2%

TABLE NO. 12 (CONT.)

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE NAVJOT							ZN 4 MEAN
		KANC BAKA	KARI	ARBH	MAND	COIM	COIM		
1	EH - 31079	-	8.01	14.27	-	-	-	0.58	
2	HKH - 1200	18.81	57.14	25.66	14.89	48.36	48.36	31.40	
3	AH - 23071	11.42	17.51	16.12	-	14.05	14.05	9.07	
4	AH - 017045	0.80	13.32	5.43	-	-	-	-	
5	AH - 24008	3.76	29.20	13.68	-	-	-	7.64	
6	PMZ - 136	9.19	29.19	47.09	7.92	36.65	36.65	25.24	
7	BIO - 22069	-	65.73	51.88	7.78	60.15	60.15	33.19	
8	X - 2005	15.60	44.17	36.09	33.21	57.99	57.99	35.95	
CHECKS:									
9	NAVJOT	-	-	-	-	-	-	-	
10	KH 510	20.66	32.69	43.02	0.64	51.09	51.09	28.99	

SI No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KH 510							ZN 4 MEAN
		KANC BAKA	KARI	ARBH	MAND	COIM	COIM		
1	EH - 31079	-	-	-	-	-	-	-	
2	HKH - 1200	-	18.42	-	14.16	-	-	1.87	
3	AH - 23071	-	-	-	-	-	-	-	
4	AH - 017045	-	-	-	-	-	-	-	
5	AH - 24008	-	-	-	-	-	-	-	
6	PMZ - 136	-	-	2.84	7.24	-	-	-	
7	BIO - 22069	-	24.90	6.19	7.09	6.00	6.00	3.26	
8	X - 2005	-	8.65	-	32.37	4.56	4.56	5.39	
CHECKS:									
9	NAVJOT	-	-	-	-	-	-	-	
10	KH 510	-	-	-	-	-	-	-	

TABLE NO. 12 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 4						
		KANC BAKA	KARI	ARBH	MAND	COIM	MEAN	ZN 4 MEAN	COIM	MAND	ARBH	BAKA	KARI	ARBH	MAND	COIM
1	E H - 31079	51.5	54.8	55.3	44.7	48.0	50.8	51.5	57.5	55.3	46.3	51.5	52.4			
2	H K H - 1200	55.0	55.3	61.0	45.7	54.8	55.5	56.5	58.8	62.3	53.3	57.3	57.6			
3	A H - 23071	55.5	55.0	55.8	45.7	49.5	52.3	56.0	57.5	57.0	46.3	52.5	53.9			
4	A H - 017045	51.5	55.3	55.3	45.7	48.3	51.2	51.5	58.0	55.5	47.0	52.3	52.8			
5	A H - 24008	52.5	54.8	56.3	46.3	51.5	52.3	53.5	57.3	58.0	48.0	53.5	54.0			
6	P M Z - 136	52.5	56.0	56.3	46.7	52.0	52.7	53.5	58.5	57.3	48.3	55.0	54.5			
7	B I O - 22069	53.0	54.0	56.0	46.3	52.3	52.3	53.5	56.8	57.8	48.3	55.3	54.3			
8	X - 2005	55.0	54.8	58.3	48.3	53.3	53.9	55.5	57.5	59.3	50.0	56.5	55.8			
CHECKS:																
9	NAVJOT	52.0	55.3	56.3	45.7	51.8	52.2	53.0	58.0	57.0	47.3	54.8	54.0			
10	KH 510	54.0	54.8	58.0	49.0	51.5	53.5	55.0	56.5	59.0	50.0	54.3	55.0			
MEAN LOCATION																
C.D. AT 5% = 1.3																
C.V. % = 1.7																
F (Prob) = .000																

S1 NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *				ZN 4		
		KARI	MAND	COIM	MEAN	ARBH	MAND	COIM	MEAN	KARI	ARBH	MAND	COIM	MEAN	ZN 4 MEAN	COIM
1	E H - 31079	89.8	80.0	94.5	88.1	14.1	18.4	14.1	16.2	2.8	2.5	2.7	3.8	2.9		
2	H K H - 1200	91.3	86.3	100.3	92.6	15.1	20.4	15.1	17.8	1.8	2.0	2.0	2.0	1.9		
3	A H - 23071	89.5	82.7	95.5	89.2	15.9	19.1	15.9	17.5	2.8	2.3	3.0	4.0	3.0		
4	A H - 017045	89.0	84.0	95.3	89.4	15.5	19.1	15.5	17.3	2.3	2.3	2.0	4.0	2.6		
5	A H - 24008	89.5	85.0	96.5	90.3	15.4	18.8	15.4	17.1	2.5	2.3	2.0	4.0	2.7		
6	P M Z - 136	90.0	81.3	98.0	89.8	15.6	19.2	15.6	17.4	2.5	2.0	2.3	2.0	2.2		
7	B I O - 22069	88.3	84.0	98.3	90.2	14.9	18.7	14.9	16.8	1.8	2.0	2.7	2.0	2.1		
8	X - 2005	89.0	82.7	99.5	90.4	14.4	20.0	14.4	17.2	2.3	2.0	2.3	2.0	2.1		
CHECKS:																
9	NAVJOT	89.8	83.0	97.8	90.2	14.5	18.8	14.5	16.6	3.0	2.8	2.7	4.0	3.1		
10	KH 510	87.8	84.0	97.0	89.6	14.5	19.5	14.5	17.0	3.3	2.0	2.0	3.0	2.6		
MEAN LOCATION																
C.D. AT 5% = 2.0																
C.V. % = 1.2																
F (Prob) = .004																

TABLE NO. 12 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *				HUSK COVER *				ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KARI	ARBH	MAND	COIM	
1	E H - 31079	3.5	3.0	3.0	2.8	2.0	3.0	3.7	2.8	2.6
2	H K H - 1200	2.5	3.0	1.7	2.0	1.5	2.5	3.0	2.0	2.3
3	A H - 23071	2.0	3.0	3.0	3.0	1.8	2.3	2.7	3.0	2.4
4	A H - 017045	1.5	3.0	2.3	3.0	1.3	2.5	2.3	3.0	2.3
5	A H - 24008	2.8	2.8	3.0	2.0	1.8	2.3	2.7	3.0	2.4
6	P M Z - 136	1.3	3.0	2.3	2.0	1.8	2.5	2.3	2.0	2.1
7	B I O - 22069	2.0	2.5	2.3	2.0	1.0	2.0	2.0	2.0	1.8
8	X - 2005	2.0	2.5	2.3	2.0	1.5	2.0	2.3	2.0	2.0
CHECKS:										
9	NAVJOT	2.0	3.3	3.0	3.0	2.0	2.5	2.3	3.0	2.5
10	KH 510	3.0	3.3	2.3	2.0	1.8	2.3	2.3	2.0	2.1
MEAN LOCATION										
	C.D. AT 5% =	1.0	0.3	0.9	0.2	0.7	0.3	1.0	0.2	0.6
	C.V. % =	30.2	6.1	21.6	6.0	29.2	8.8	24.9	6.0	-
	F (Prob)	.002	.000	.068	.000	.139	.000	.672	.000	-

SI NO	PEDIGREE	UNIFORMITY *				PLANT HEIGHT (cm)				ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KANC BAKA	KARI	MAND	COIM	
1	E H - 31079	2.5	2.8	3.0	3.8	243	179	216	159	199
2	H K H - 1200	1.8	2.0	2.3	2.0	248	177	222	172	205
3	A H - 23071	3.0	2.5	3.0	3.0	243	175	200	154	193
4	A H - 017045	1.5	2.5	2.0	3.0	239	176	208	140	191
5	A H - 24008	2.0	2.5	2.0	2.0	223	165	195	149	183
6	P M Z - 136	2.5	2.5	2.3	3.0	245	181	211	180	204
7	B I O - 22069	1.5	2.3	3.0	2.0	240	179	229	177	206
8	X - 2005	2.5	2.5	2.7	2.0	238	190	199	170	199
CHECKS:										
9	NAVJOT	2.5	2.8	3.0	4.0	233	173	207	179	198
10	KH 510	2.8	3.0	3.0	3.0	243	175	207	172	199
MEAN LOCATION										
	C.D. AT 5% =	2.3	2.5	2.6	2.8	239	175	209	164	197
	C.V. % =	1.0	0.3	0.6	0.2	17.2	12.2	13.6	9.4	13.1
	F (Prob)	29.6	7.4	13.4	5.4	5.0	4.8	3.8	4.0	-
		.033	.000	.003	.000	.234	.002	.001	.000	-

TABLE NO. 12 (CONT.)

Sl No	PEDIGREE	EAR HEIGHT (cm)				EAR No. / PLANT				ZN 4 MEAN
		KANC	BAKA	KARI	MAND	KANC	BAKA	KARI	MAND	
1	E H - 31079	100	86	123	79	0.99	0.93	0.93	0.99	0.96
2	H K H - 1200	95	76	121	81	1.02	0.92	0.93	1.02	0.97
3	A H - 23071	95	84	94	83	1.01	0.95	0.98	0.98	0.98
4	A H - 017045	101	75	99	74	1.01	0.85	1.01	1.03	0.97
5	A H - 24008	111	75	97	78	1.03	0.85	0.88	0.98	0.94
6	P M Z - 136	96	73	90	87	1.04	0.95	0.91	0.97	0.97
7	B I O - 22069	100	72	103	82	1.03	0.87	0.84	0.99	0.93
8	X - 2005	98	76	96	80	1.05	0.84	0.89	0.99	0.94
CHECKS:										
9	NAVJOT	94	74	102	84	1.01	0.91	0.96	1.00	0.97
10	KH 510	104	73	98	83	0.99	0.86	0.98	0.98	0.95
MEAN LOCATION										
		100	76	102	81	-	-	-	-	-
C.D. AT 5%		14.1	9.3	19.5	6.0	-	-	-	-	-
C.V. %		9.8	8.5	11.3	5.1	-	-	-	-	-
F (Prob)		.382	.075	.033	.012	-	-	-	-	-

Sl No	PEDIGREE	STAND AT HARVEST				ZN 4 MEAN
		KANC	BAKA	KARI	ARBH	
1	E H - 31079	55	83	79	55	64
2	H K H - 1200	67	78	74	58	66
3	A H - 23071	49	75	78	61	62
4	A H - 017045	58	77	72	51	62
5	A H - 24008	56	78	74	54	63
6	P M Z - 136	57	73	87	57	65
7	B I O - 22069	56	75	71	59	63
8	X - 2005	53	79	70	54	63
CHECKS:						
9	NAVJOT	49	78	73	65	62
10	KH 510	60	76	66	53	60
MEAN LOCATION						
		57	77	75	57	63
C.D. AT 5%		15.3	8.4	11.1	11.1	4.5
C.V. %		18.7	7.6	10.3	11.5	6.0
F (Prob)		.309	.617	.049	.401	.002

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 1 ENTRY)

TABLE NO. 13

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-V, AT UDAIPUR, GODHRA (KHEDBRAMHA), CHHINDIWARA IN AET 1st YEAR, TRIAL NO. TR66Z5 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						ZN 5	
		UDAI R	GODH R	CHHI R	MEAN R	UDAI R	CHHI R	MEAN R	ZN 5
1	A H - 017045	6113	4	3539	4	5327	6	4993	5
2	A H - 017051	4249	6	2812	6	5668	5	4243	6
3	P M Z - 136	6318	3	3787	2	6977	3	5694	3
CHECKS:									
4	NAVJOT	3511	7	2166	7	4774	7	3484	7
5	KH 510	6832	1	3683	3	7945	1	6154	1
	MEAN YIELD=	5598		3319		6461		5126	
	MEAN STAND	68		89		73		77	
	C.D. AT 5% =	841		944		1031		939	
	C.V. % =	10.19		19.29		10.82		-	
	F (Prob)	.000		.006		.000		-	
	PLOT SIZE=	12.00		12.00		11.20		-	
AGRONOMY DATA:									
	SOWING DATE(2004)	2-07		7-07		30-06		-	
	HARVEST DATE(2004)	5-10		18-10		25-10		-	
	IRRIGATION Nos	-		1		-		-	
	FERTILIZER APPLIED N	100		80		100		-	
	P	60		40		60		-	
	K	-		-		40		-	

TABLE NO. 13 (CONT.)

S1 NO	PEDIGREE	GRAIN NAVJOT			YIELD %			SUPERIORITY OVER THE KH 510			KHEH GODH	CHHI	ZIN 5 MEAN
		UDAI	KHEH GODH	CHHI	ZIN 5 MEAN	UDAI	KHEH GODH	CHHI					
1	A H - 017045	74.10	63.40	11.57	43.32	-	-	-	-	-	-	-	
2	A H - 017051	21.00	29.83	18.73	21.79	-	-	-	-	-	-	-	
3	P M Z - 136	79.92	74.87	46.14	63.44	-	-	-	2.84	-	-	-	
CHECKS:													
4	NAVJOT	-	-	-	-	-	-	-	-	-	-	-	
5	KH 510	94.59	70.03	66.42	76.63	-	-	-	-	-	-	-	

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			
		UDAI	KHEH GODH	ZIN 5 MEAN	UDAI	KHEH GODH	ZIN 5 MEAN	UDAI	KHEH GODH	ZIN 5 MEAN	
1	A H - 017045	51.8	48.3	49.3	53.8	52.3	52.0	83.8	75.0	80.3	79.7
2	A H - 017051	51.8	50.5	50.0	54.0	55.5	52.8	82.5	77.0	80.8	80.1
3	P M Z - 136	53.0	49.8	52.0	55.0	52.5	53.7	84.0	74.5	81.0	79.8
CHECKS:											
4	NAVJOT	52.5	49.8	50.8	54.8	53.5	53.3	81.5	77.8	80.0	79.8
5	KH 510	53.5	51.0	52.0	55.5	54.0	54.2	85.8	79.0	84.5	83.1
MEAN LOCATION											
	C.D. AT 5% =	0.9	1.2	1.5	1.0	2.3	1.6	0.9	4.2	1.3	2.1
	C.V. % =	1.1	1.6	2.0	1.2	2.9	2.0	0.7	3.6	1.0	-
	F (Prob)	.000	.000	.000	.000	.003	.001	.000	.155	.000	-

S1 NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *			
		UDAI	KHEH GODH	ZIN 5 MEAN	UDAI	KHEH GODH	ZIN 5 MEAN	UDAI	KHEH GODH	ZIN 5 MEAN	
1	A H - 017045	17.3	14.6	16.0	2.0	2.8	1.8	1.5	3.0	1.3	1.9
2	A H - 017051	15.8	16.3	17.5	2.5	2.5	2.0	2.9	3.3	1.0	2.4
3	P M Z - 136	17.0	12.4	16.7	2.0	1.5	1.8	1.8	3.3	1.5	2.2
CHECKS:											
4	NAVJOT	15.9	14.0	18.4	2.8	3.3	1.5	2.8	3.0	1.5	2.4
5	KH 510	17.5	14.6	20.2	1.6	1.8	1.0	1.3	3.0	1.0	1.8
MEAN LOCATION											
	C.D. AT 5% =	0.3	2.1	0.4	0.3	0.9	0.3	0.6	1.3	0.1	0.7
	C.V. % =	1.4	9.3	1.5	8.9	28.7	12.9	19.2	30.1	8.2	-
	F (Prob)	.000	.005	.000	.000	.007	.000	.000	.895	.000	-

TABLE NO. 13 (CONT.)

S1 NO PEDIGREE	HUSK COVER *		UNIFORMITY *			PLANT HEIGHT (cm)			ZN 5													
	UDAI	KHED GODH	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	MEAN	
1 A H - 017045	1.8	2.0	2.0	2.0	1.3	2.0	2.0	1.3	2.0	2.0	1.3	2.0	2.0	1.3	2.0	2.0	1.3	2.0	2.0	1.3	2.0	2.0
2 A H - 017051	2.5	1.8	1.8	1.8	1.5	1.9	1.8	1.5	1.9	1.8	1.5	1.9	1.8	1.5	1.9	1.8	1.5	1.9	1.8	1.5	1.9	1.8
3 P M Z - 136	1.6	2.0	1.3	2.0	1.3	2.5	2.0	1.3	2.5	2.0	1.3	2.5	2.0	1.3	2.5	2.0	1.3	2.5	2.0	1.3	2.5	2.0
CHECKS:																						
4 NAVJOT	2.3	2.3	1.3	2.3	1.3	2.8	3.0	1.0	2.8	3.0	1.0	2.8	3.0	1.0	2.8	3.0	1.0	2.8	3.0	1.0	2.8	3.0
5 KH 510	1.6	2.0	1.5	2.0	1.5	2.4	2.0	1.5	2.4	2.0	1.5	2.4	2.0	1.5	2.4	2.0	1.5	2.4	2.0	1.5	2.4	2.0
MEAN LOCATION																						
C.D. AT 5%	0.4	0.4	0.2	0.4	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3	0.3	0.4	0.3
C.V. %	15.4	14.4	9.2	11.5	9.0	17.5	11.5	9.0	17.5	11.5	9.0	17.5	11.5	9.0	17.5	11.5	9.0	17.5	11.5	9.0	17.5	11.5
F (Prob)	.000	.455	.000	.001	.000	.018	.001	.000	.018	.001	.000	.018	.001	.000	.018	.001	.000	.018	.001	.000	.018	.001

S1 NO PEDIGREE	EAR HEIGHT (cm)		EAR No. / PLANT			STAND AT HARVEST			OV'L															
	UDAI	KHED GODH	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI	MEAN
1 A H - 017045	90	83	85	83	83	1.01	0.83	0.97	0.93	0.93	0.93	74	90	69	78	78	79	77	77	77	77	77	77	77
2 A H - 017051	99	76	90	94	94	0.99	0.81	0.94	0.91	0.91	0.91	71	92	74	79	79	79	79	79	79	79	79	79	79
3 P M Z - 136	95	80	88	89	89	1.01	0.81	0.95	0.92	0.92	0.92	66	89	78	77	77	77	77	77	77	77	77	77	77
CHECKS:																								
4 NAVJOT	113	76	92	89	89	1.04	0.79	0.97	0.93	0.93	0.93	62	83	75	73	73	73	73	73	73	73	73	73	73
5 KH 510	98	70	86	91	91	0.95	0.83	0.99	0.92	0.92	0.92	67	87	68	74	74	74	74	74	74	74	74	74	74
MEAN LOCATION																								
C.D. AT 5%	13.1	11.9	12.8	13.4	13.4	-	-	-	-	-	-	7.1	7.0	10.3	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
C.V. %	8.9	10.6	10.0	10.0	10.0	-	-	-	-	-	-	7.0	5.2	9.5	-	-	-	-	-	-	-	-	-	-
F (Prob)	.058	.214	.331	.331	.331	-	-	-	-	-	-	.001	.063	.393	-	-	-	-	-	-	-	-	-	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) ENTRIES.
(DELETED 2 ENTRIES)

TABLE NO. 14

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN DIFFERENT ZONES, AT ALMORA, BAJAURA, KANGRA, BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR, KARIMNAGAR, ARBHAVI, COIMBATORE, KOLHAPUR, UDAIPUR, CHHINDIWARA IN AET 1st YEAR, TRIAL NO. TR67A DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 1		
		ALMO	R	BAJA	R	KANG	R	KANG	R	MEAN	R	MEAN	R			
1	B V M - 5	4848	5	3115	7	3651	5	3871	6							
2	B V M - 6	4715	6	4472	3	4379	4	4522	4							
3	X - 1182 D	7145	1	4702	2	4634	3	5494	2							
4	X - 1182 K	6641	2	5247	1	5063	1	5650	1							
CHECKS:																
5	KIRAN	3753	8	3466	6	3104	7	3441	7							
6	MAHI KANCHAN	3988	7	2894	8	1853	8	2912	8							
7	PARKASH	5221	4	3922	4	3148	6	4097	5							
8	X - 3342	6415	3	3560	5	4941	2	4972	3							
	MEAN YIELD=	5341		3922		3847		4370								
	MEAN STAND	43		57		35		45								
	C.D. AT 5%	995		644		1555		1064								
	C.V. %	12.73		9.43		27.63		-								
	F (Prob)	.000		.000		.000		-								
	PLOT SIZE=	7.20		9.60		7.20		-								
AGRONOMY DATA:																
	SOWING DATE (2004)	13-07		25-06		9-06		-								
	HARVEST DATE (2004)	10-11		19-10		24-09		-								
	IRRIGATION NOS	-		2		-		-								
	FERTILIZER APPLIED N	80		120		80		-								
	P	60		60		60		-								
	K	40		40		40		-								

LOCATIONS REJECTED DUE TO HIGH C.V. (l.e.> 30%) : MAND 32.1%

TABLE NO. 14 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												Zn 3	
		BELI	VARA	RHOL	R	KUSH	R	JASH	R	AMBI	R	MEAN	R		
1	B V M - 5	4041	3	4333	7	2650	5	3004	6	4573	5	3894	6	3749	6
2	B V M - 6	3970	5	4193	8	2635	6	3385	3	4747	4	4504	5	3906	5
3	X - 1182 D	3498	8	5043	3	3805	2	3304	4	6061	1	5404	1	4519	2
4	X - 1182 K	3790	6	5066	2	4462	1	3865	1	5680	2	4830	2	4616	1
CHECKS:															
5	KIRAN	3981	4	4476	6	2316	7	2005	8	3684	8	3799	7	3377	7
6	MAHI KANCHAN	3511	7	4611	5	1899	8	2805	7	3721	7	3266	8	3302	8
7	PARKASH	4099	2	4823	4	3126	4	3140	5	4181	6	4580	4	3991	4
8	X - 3342	4408	1	5720	1	3349	3	3516	2	5010	3	4722	3	4454	3
	MEAN YIELD=	3912		4783		3030		3128		4707		4375		3989	
	MEAN STAND	63		70		61		58		63		71		64	
	C.D. AT 5%	309		288		646		1136		240		884		584	
	C.V. %	5.40		4.12		14.56		24.82		3.48		13.82		-	
	F (Prob)	.000		.000		.000		.004		.000		.001		-	
	PLOT SIZE=	12.00		15.00		15.00		15.00		12.00		12.00		-	
AGRONOMY DATA:															
	SOWING DATE(2004)	28-06		18-06		22-06		11-07		2-07		8-07		-	
	HARVEST DATE(2004)	30-09		16-09		3-11		19-10		19-10		-		-	
	IRRIGATION Nos	2		2		-		2		-		-		-	
	FERTILIZER APPLIED N	120		80		100		120		120		80		-	
	P	60		40		60		60		60		50		-	
	K	60		40		40		40		60		30		-	

TABLE NO. 14 (CONT.)

S1	NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												OV'L									
		KARI	R	ARBH	R	COIM	R	KOLH	R	ZN 4	MEAN	R	UDAI	R	CHHI	R	ZN 5	MEAN	R	ZN 5	MEAN	R	
1	B V M - 5	3343	5	4556	5	3817	5	2771	4	3622	5	2851	5	5299	6	4075	6	3783	6	3783	6	3783	6
2	B V M - 6	3474	4	4128	6	3676	6	2594	6	3468	6	2705	8	5025	7	3865	7	3907	5	3907	7	3907	5
3	X - 1182 D	4878	1	5797	2	4934	2	4717	2	5081	2	3933	2	7007	2	5470	2	4991	2	4991	2	4991	2
4	X - 1182 K	4856	2	6442	1	6470	1	5798	1	5891	1	6859	1	9091	1	7975	1	5611	1	5611	1	5611	1
CHECKS:																							
5	KIRAN	3245	6	3114	8	3543	7	1897	8	2950	7	2847	6	6253	4	4550	4	3432	7	3432	4	3432	7
6	MAHI KANCHAN	2754	8	3282	7	3143	8	2117	7	2824	8	2811	7	3535	8	3173	8	3079	8	3079	8	3079	8
7	PARKASH	3202	7	4574	4	4256	3	2633	5	3666	4	3161	4	6845	3	5003	3	4061	4	4061	3	4061	4
8	X - 3342	3503	3	4709	3	4205	4	4147	3	4141	3	3202	3	5735	5	4468	5	4476	3	4476	5	4476	3
MEAN YIELD=		3657		4575		4256		3334		3955		3546		6099		4822		4167		4167		4167	
MEAN STAND		66		76		49		76		67		59		72		65		61		61		61	
C.D. AT 5%		880		488		511		1465		836		798		1325		1061		811		811		811	
C.V. %		16.45		7.29		8.21		25.24		-		15.38		14.85		-		-		-		-	
F (Prob)		.000		.000		.000		.000		-		.000		.000		-		-		-		-	
PLOT SIZE=		12.00		15.00		9.60		12.00		-		12.00		11.20		-		-		-		-	
AGRONOMY DATA:																							
SOW. DATE (2004)		14-07		1-07		30-06		16-07		-		1-07		30-06		-		-		-		-	
HAR. DATE (2004)		30-10		16-11		13-10		2-11		-		6-10		25-10		-		-		-		-	
IRRIGATION NOS		-		8		8		-		-		-		-		-		-		-		-	
FERTILIZER APP.N		180		150		135		100		-		90		80		-		-		-		-	
P		60		75		63		50		-		60		50		-		-		-		-	
K		40		38		50		30		-		-		30		-		-		-		-	

TABLE NO. 14 (CONT.)

SI	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN									
		ALMO	BAJA	KANG	ZN 1 MEAN	BELI	VARA	DHOL	KUSH	JASH	AMBI
1	B V M - 5	29.17	-	17.62	12.51	1.51	-	14.43	49.83	24.14	2.52
2	B V M - 6	25.64	29.04	41.05	31.41	-	-	13.80	68.82	28.87	18.58
3	X - 1182 D	90.37	35.68	49.27	59.65	-	12.66	64.31	64.78	64.54	42.27
4	X - 1182 K	76.94	51.39	63.10	64.20	-	13.17	92.70	92.74	54.21	27.16
	CHECKS:										
5	KIRAN	-	-	-	-	-	-	-	-	-	-
6	MAHI KANCHAN	6.26	-	-	-	-	3.01	-	39.86	1.03	-
7	PARKASH	39.11	13.15	1.42	19.06	2.99	7.74	34.97	56.58	13.51	20.57
8	X - 3342	70.93	2.73	59.16	44.49	10.74	27.77	44.63	75.33	36.01	24.31

SI	No PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN										OV'L MEAN
		ZN 3 MEAN	KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN		
1	B V M - 5	11.03	2.99	46.29	7.76	46.09	22.78	0.13	-	-	-	10.23
2	B V M - 6	15.67	7.04	32.56	3.78	36.74	17.57	-	-	-	-	13.83
3	X - 1182 D	33.84	50.29	86.14	39.27	148.70	72.27	38.14	12.06	20.22	45.41	
4	X - 1182 K	36.69	49.63	106.85	82.64	205.67	99.73	140.92	45.39	75.27	63.47	
	CHECKS:											
5	KIRAN	-	-	-	-	-	-	-	-	-	-	-
6	MAHI KANCHAN	-	-	5.39	-	11.64	-	-	-	-	-	-
7	PARKASH	18.21	-	46.88	20.14	38.80	24.29	11.02	9.47	9.96	18.31	
8	X - 3342	31.91	7.95	51.22	18.69	118.67	40.39	12.46	-	-	30.42	

TABLE NO. 14 (CONT.)

GRAIN YIELD * SUPERIORITY OVER THE MAHI KANCHAN

SI NO PEDIGREE	ZN 1 GORA									
	ALMO	BAJA	KANG	MEAN	BELI	VARA	DHOL	KUSH	JASH	AMBI
1 B V M - 5	21.56	7.64	97.02	32.96	15.08	-	39.55	7.13	22.88	19.25
2 B V M - 6	18.24	54.53	136.26	55.30	13.06	-	38.78	20.71	27.56	37.93
3 X - 1182 D	79.16	62.47	150.04	88.67	-	9.37	100.39	17.81	62.87	65.48
4 X - 1182 K	66.52	81.29	173.20	94.05	7.94	9.87	135.00	37.80	52.64	47.91
CHECKS:										
5 KIRAN	-	19.75	67.51	18.18	13.37	-	21.95	-	-	16.31
6 MAHI KANCHAN	-	-	-	-	-	-	-	-	-	-
7 PARKASH	30.92	35.50	69.88	40.70	16.75	4.59	64.60	11.95	12.35	40.24
8 X - 3342	60.87	23.02	166.60	70.76	25.54	24.04	76.38	25.36	34.63	44.59

GRAIN YIELD * SUPERIORITY OVER THE MAHI KANCHAN

SI NO PEDIGREE	ZN 3										ZN 4			OV'L MEAN	
	MEAN	KARI	ARBH	COIM	KOLH	MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN					
1 B V M - 5	13.54	21.36	38.80	21.45	30.86	28.23	1.41	49.89	28.42	22.85					
2 B V M - 6	18.28	26.13	25.77	16.96	22.49	22.79	-	42.14	21.80	26.87					
3 X - 1182 D	36.86	77.09	76.62	56.97	122.78	79.92	39.92	98.19	72.38	62.07					
4 X - 1182 K	39.78	76.31	96.27	105.84	173.80	108.60	144.01	157.13	151.32	82.20					
CHECKS:															
5 KIRAN	2.26	17.83	-	12.70	-	4.44	1.28	76.86	43.39	11.45					
6 MAHI KANCHAN	-	-	-	-	-	-	-	-	-	-					
7 PARKASH	20.87	16.24	39.36	35.41	24.33	29.81	12.45	93.61	57.66	31.86					
8 X - 3342	34.88	27.20	43.48	33.77	95.87	46.63	13.91	62.21	40.81	45.36					

TABLE NO. 14 (CONT.)

SI	NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARKASH									
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI
1	B V M - 5	-	-	15.98	-	-	-	-	-	9.37	-
2	B V M - 6	-	14.05	39.08	10.38	-	-	7.82	13.54	-	-
3	X - 1182 D	36.85	19.91	47.18	34.09	-	4.57	21.74	5.23	44.96	18.00
4	X - 1182 K	27.19	33.80	60.82	37.91	-	5.04	42.77	23.09	35.86	5.47
CHECKS:											
5	KIRAN	-	-	-	-	-	-	-	-	-	-
6	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	-
7	PARKASH	-	-	-	-	-	-	-	-	-	-
8	X - 3342	22.87	-	56.94	21.36	7.52	18.59	7.15	11.97	19.82	3.11

SI	NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PARKASH									
		ZN 3 MEAN	KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
1	B V M - 5	-	4.40	-	-	5.25	-	-	-	-	-
2	B V M - 6	-	8.51	-	-	-	-	-	-	-	-
3	X - 1182 D	13.22	52.35	26.73	15.92	79.18	38.60	24.43	2.37	9.34	22.91
4	X - 1182 K	15.64	51.68	40.83	52.02	120.22	60.70	117.00	32.81	59.40	38.17
CHECKS:											
5	KIRAN	-	1.37	-	-	-	-	-	-	-	-
6	MAHI KANCHAN	-	-	-	-	-	-	-	-	-	-
7	PARKASH	-	-	-	-	-	-	-	-	-	-
8	X - 3342	11.59	9.43	2.95	-	57.54	12.96	1.30	-	-	10.23

TABLE NO. 14 (CONT.)

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED									
	ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI
1 B V M - 5	55.3	68.0	55.0	59.4	56.5	45.3	58.3	48.3	47.5	47.3
2 B V M - 6	53.8	66.3	55.8	58.6	57.0	45.5	57.8	48.0	46.5	47.0
3 X - 1182 D	59.8	71.7	55.3	62.2	58.3	51.3	60.8	50.0	50.3	52.0
4 X - 1182 K	57.0	66.3	53.8	59.0	58.3	48.3	60.0	49.3	50.8	51.3
CHECKS:										
5 KIRAN	54.5	68.0	55.0	59.2	55.3	45.0	57.0	46.5	45.8	46.8
6 MAHI KANCHAN	53.0	66.7	54.5	58.1	56.0	44.3	58.5	46.5	44.3	46.0
7 PARKASH	53.8	66.3	53.3	57.8	55.8	45.5	56.8	46.5	44.0	48.5
8 X - 3342	54.3	66.7	56.8	59.2	55.3	44.8	58.5	46.3	44.8	47.3
MEAN LOCATION	55.2	67.5	54.9	59.2	56.5	46.2	58.4	47.7	46.7	48.3
C.D. AT 5% =	1.0	2.2	2.7	2.0	1.0	0.9	3.1	2.6	1.7	1.4
C.V. % =	1.3	1.9	3.3	-	1.2	1.3	3.6	3.7	2.4	2.0
F (Prob)	.000	.002	.243	-	.000	.000	.173	.038	.000	.000

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED									
	ZN 3 MEAN	KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
1 B V M - 5	50.5	45.5	56.8	50.8	61.7	53.7	51.5	56.0	53.8	53.6
2 B V M - 6	50.3	45.8	56.3	51.5	60.7	53.5	50.0	53.8	51.9	53.0
3 X - 1182 D	53.8	46.5	60.5	53.3	64.3	56.1	53.8	56.5	55.1	56.3
4 X - 1182 K	53.0	46.5	60.3	53.0	63.7	55.9	52.5	56.8	54.6	55.2
CHECKS:										
5 KIRAN	49.4	46.3	57.3	46.5	60.7	52.7	50.5	53.5	52.0	52.6
6 MAHI KANCHAN	49.3	44.5	56.0	44.8	56.7	50.5	49.8	52.5	51.1	51.6
7 PARKASH	49.5	47.0	56.5	50.5	62.7	54.2	49.8	52.0	50.9	52.6
8 X - 3342	49.5	46.0	56.3	49.5	58.3	52.5	49.3	53.3	51.3	52.5
MEAN LOCATION	50.6	46.0	57.5	50.0	61.1	53.6	50.9	54.3	52.6	53.4
C.D. AT 5% =	1.8	1.6	1.1	1.1	2.6	1.6	1.1	1.4	1.2	-
C.V. % =	-	2.4	1.3	1.5	2.5	-	1.4	1.8	-	-
F (Prob)	-	.107	.000	.000	.000	-	.000	.000	-	-

TABLE NO. 14 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% SILKING									
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI
1	B V M - 5	56.5	70.7	50.8	59.3	58.8	50.3	61.3	49.5	50.8	50.3
2	B V M - 6	55.0	58.7	51.3	58.3	59.3	49.3	60.8	49.5	48.8	50.3
3	X - 1182 D	60.8	73.7	51.5	62.0	60.8	55.5	63.3	51.0	53.3	55.0
4	X - 1182 K	57.8	68.3	49.0	58.4	60.3	53.8	62.8	50.3	52.8	54.8
CHECKS:											
5	KIRAN	55.8	70.3	49.8	58.6	57.5	50.5	61.5	47.3	49.3	50.5
6	MAHI KANCHAN	54.8	69.7	49.8	58.1	58.3	48.5	61.5	47.0	47.5	49.3
7	PARKASH	55.0	68.7	48.3	57.3	58.3	49.5	59.5	47.8	47.0	51.8
8	X - 3342	55.5	70.0	49.3	58.3	57.8	48.0	61.3	47.0	48.5	50.0
MEAN LOCATION											
	C.D. AT 5% =	0.8	2.1	1.3	1.4	1.2	1.8	2.9	2.4	2.1	1.8
	C.V. % =	0.9	1.7	1.8	-	1.4	2.4	3.2	3.3	2.9	2.4
	F (Prob)	.000	.002	.000	-	.000	.000	.265	.007	.000	.000

Sl NO	PEDIGREE	DAYS TO 50% SILKING									
		ZN 3 MEAN	KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN
1	B V M - 5	53.5	50.0	58.3	54.8	63.3	56.6	53.5	57.3	55.4	55.7
2	B V M - 6	53.0	50.3	58.8	54.5	62.7	56.5	52.0	55.5	53.8	55.1
3	X - 1182 D	56.5	50.3	61.0	55.3	66.0	58.1	55.5	58.0	56.8	58.0
4	X - 1182 K	55.8	50.5	60.0	56.0	65.7	58.0	53.5	57.5	55.5	56.9
CHECKS:											
5	KIRAN	52.8	50.8	59.3	49.5	61.7	55.3	52.8	56.0	54.4	54.8
6	MAHI KANCHAN	52.0	50.8	57.0	48.8	58.3	53.7	51.8	54.8	53.3	53.8
7	PARKASH	52.3	50.8	57.3	54.0	64.3	56.6	51.8	53.5	52.6	54.5
8	X - 3342	52.1	49.8	56.5	52.5	59.7	54.6	51.3	54.8	53.0	54.1
MEAN LOCATION											
	C.D. AT 5% =	2.0	1.2	1.3	1.2	2.5	1.6	1.1	1.4	1.2	-
	C.V. % =	-	1.6	1.6	1.5	2.3	-	1.4	1.7	-	-
	F (Prob)	-	.544	.000	.000	.000	-	.000	.000	-	-

TABLE NO. 14 (CONT.)

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK					GORA				
	ALMO	BAJA	KANG	ZN 1 MEAN	BELI	VARA	DHOL	JASH	AMBI	
1 B V M - 5	98.0	107.0	85.0	96.7	83.3	76.5	92.5	84.5	83.8	
2 B V M - 6	97.8	106.3	85.0	96.4	84.8	75.5	92.3	87.5	84.8	
3 X - 1182 D	107.5	109.3	86.8	101.2	84.0	78.0	95.3	89.3	89.0	
4 X - 1182 K	106.8	108.3	86.8	100.6	82.5	82.3	97.8	88.5	89.8	
CHECKS:										
5 KIRAN	96.3	107.3	88.0	97.2	82.0	76.3	89.8	84.0	85.3	
6 MAHI KANCHAN	95.8	104.0	85.3	95.0	84.3	73.0	86.8	82.5	84.8	
7 PARKASH	99.0	108.7	86.5	98.1	83.3	77.5	95.0	86.8	86.8	
8 X - 3342	100.3	110.0	85.0	98.4	83.8	75.3	91.3	83.5	84.5	
MEAN LOCATION	100.2	107.6	86.0	97.9	83.5	76.8	92.6	85.8	86.1	
C.D. AT 5% =	1.1	3.5	1.4	2.0	1.9	4.7	3.4	2.2	2.6	
C.V. % =	0.7	1.9	1.1	-	1.5	4.1	2.5	1.7	2.0	
F (Prob)	.000	.056	.001	-	.100	.029	.000	.000	.000	

S1 NO PEDIGREE	DAYS TO 50% DRY HUSK					OV'L				
	ZN 3 MEAN	KARI	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
1 B V M - 5	84.1	79.5	95.8	97.7	91.0	80.0	88.8	84.4	88.6	
2 B V M - 6	84.9	79.8	95.5	97.0	90.8	78.8	86.8	82.8	88.6	
3 X - 1182 D	87.1	80.3	96.3	98.3	91.6	82.0	89.5	85.8	91.2	
4 X - 1182 K	88.2	79.8	97.0	99.3	92.0	84.0	90.3	87.1	91.8	
CHECKS:										
5 KIRAN	83.4	80.8	90.5	96.0	89.1	79.3	87.3	83.3	87.9	
6 MAHI KANCHAN	82.3	80.8	89.8	93.3	87.9	79.0	80.8	79.9	86.1	
7 PARKASH	85.8	80.0	95.0	98.3	91.1	79.3	91.0	85.1	89.8	
8 X - 3342	83.7	80.3	93.5	94.3	89.4	78.8	86.0	82.4	88.2	
MEAN LOCATION	84.9	80.1	94.2	96.8	90.4	80.1	87.5	83.8	89.0	
C.D. AT 5% =	3.0	1.2	1.2	2.5	1.6	1.3	2.1	1.7	-	
C.V. % =	-	1.1	0.8	1.5	-	1.1	1.6	-	-	
F (Prob)	-	.345	.000	.002	-	.000	.000	-	-	

TABLE NO. 14 (CONT.)

SI NO	PEDIGREE	MOISTURE & AT HARVEST											
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	KUSH	JASH	ZN 3 MEAN	ZN 4 MEAN	ZN 5 MEAN	OV'L MEAN
1	B V M - 5	32.3	24.5	24.1	26.9	22.9	32.0	24.9	17.1				
2	B V M - 6	31.1	23.1	21.7	25.3	22.5	30.0	27.9	18.1				
3	X - 1182 D	40.8	24.5	24.4	29.9	23.0	36.8	26.6	17.0				
4	X - 1182 K	42.2	24.9	23.7	30.3	23.5	35.2	26.3	19.4				
	CHECKS:												
5	KIRAN	30.8	22.6	24.7	26.1	22.6	29.6	27.2	17.6				
6	MAHI KANCHAN	26.2	22.3	22.0	23.5	22.5	28.3	21.5	17.5				
7	PARKASH	30.4	24.5	22.9	25.9	22.1	31.3	26.0	18.6				
8	X - 3342	33.2	24.9	24.0	27.4	21.8	31.0	24.5	18.0				
	MEAN LOCATION	33.4	23.9	23.4	26.9	22.6	31.8	25.6	17.9				
	C.D. AT 5%	2.4	1.7	4.2	2.8	1.5	0.6	1.4	0.5				
	C.V. %	4.8	4.2	12.3	-	4.6	1.3	3.8	1.8				
	F (Prob)	.000	.028	.747	-	.425	.000	.000	.000				

SI NO	PEDIGREE	MOISTURE & AT HARVEST									
		ALMO	ARBH	KOLH	ZN 3 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN		
1	B V M - 5	24.2	18.0	21.5	19.8	16.3	17.8	17.0	22.9		
2	B V M - 6	24.6	18.8	21.3	20.0	15.1	15.6	15.4	22.3		
3	X - 1182 D	25.8	19.0	19.0	19.0	16.7	18.7	17.7	24.2		
4	X - 1182 K	26.1	21.6	23.5	22.6	16.8	21.0	18.9	25.3		
	CHECKS:										
5	KIRAN	24.3	18.4	21.6	20.0	16.6	19.7	18.2	22.9		
6	MAHI KANCHAN	22.4	17.6	20.9	19.2	16.0	16.0	16.0	21.0		
7	PARKASH	24.5	17.3	22.0	19.6	16.5	20.2	18.4	22.9		
8	X - 3342	23.9	19.2	22.4	20.8	15.9	19.8	17.8	23.1		
	MEAN LOCATION	24.5	18.7	21.5	20.1	16.2	18.6	17.4	23.1		
	C.D. AT 5%	1.0	0.7	2.8	1.7	0.3	0.9	0.6	-		
	C.V. %	-	2.5	7.4	-	1.2	3.2	-	-		
	F (Prob)	-	.000	.119	-	.000	.000	-	-		

TABLE NO. 14 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *									
	ALMO	BAJA	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	
1 B V M - 5	2.5	3.0	2.8	2.6	2.5	3.3	2.9	2.8	2.5	
2 B V M - 6	2.5	2.7	2.6	2.6	2.3	3.1	2.9	2.0	2.5	
3 X - 1182 D	2.5	2.7	2.6	2.3	1.8	2.5	2.8	1.0	2.4	
4 X - 1182 K	2.5	2.5	2.5	2.3	2.3	2.0	2.6	1.0	2.5	
CHECKS:										
5 KIRAN	2.8	3.0	2.9	2.8	2.8	3.4	3.1	3.0	2.6	
6 MAHI KANCHAN	2.7	3.0	2.9	2.6	2.8	3.5	3.1	2.8	2.6	
7 PARKASH	2.5	3.0	2.8	2.5	2.8	2.4	2.6	2.0	2.4	
8 X - 3342	2.5	2.7	2.6	2.0	2.3	2.9	2.6	2.3	2.3	
MEAN LOCATION	2.6	2.8	2.7	2.5	2.4	2.9	2.8	2.1	2.5	
C.D. AT 5% =	0.1	0.3	0.2	0.4	0.1	0.6	0.5	0.5	0.3	
C.V. % =	2.1	6.3	-	10.3	3.0	14.8	11.0	15.3	9.5	
F (Prob)	.000	.011	-	.005	.000	.000	.135	.000	.606	

S1 NO PEDIGREE	PLANT ASPECT *									
	MEAN	KARI	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
1 B V M - 5	2.8	3.0	3.0	2.3	2.8	2.4	1.5	1.9	2.6	
2 B V M - 6	2.6	2.3	3.0	2.5	2.6	2.8	1.5	2.1	2.5	
3 X - 1182 D	2.1	2.8	2.0	2.0	2.3	1.8	1.0	1.4	2.1	
4 X - 1182 K	2.1	1.5	2.0	1.5	1.7	1.6	1.0	1.3	1.9	
CHECKS:										
5 KIRAN	2.9	2.5	3.8	2.5	2.9	2.8	1.5	2.1	2.8	
6 MAHI KANCHAN	2.9	3.0	3.0	2.5	2.8	2.9	2.0	2.4	2.8	
7 PARKASH	2.4	2.3	2.0	2.3	2.2	2.5	1.3	1.9	2.3	
8 X - 3342	2.4	3.0	3.0	2.3	2.8	2.8	1.3	2.0	2.5	
MEAN LOCATION	2.5	2.5	2.7	2.3	2.5	2.4	1.4	1.9	2.4	
C.D. AT 5% =	0.4	0.6	0.3	0.5	0.5	0.6	0.3	0.5	-	
C.V. % =	-	16.5	6.5	13.6	-	18.0	13.7	-	-	
F (Prob)	-	.000	.000	.016	-	.002	.000	-	-	

TABLE NO. 14 (CONT.)

SL NO	PEDIGREE	EAR ASPECT *										ZN 3 MEAN
		ALMO	BAJA	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI		
1	B V M - 5	2.7	2.7	2.7	2.0	2.8	2.6	2.5	3.0	2.5	2.6	2.6
2	B V M - 6	2.6	2.5	2.5	2.4	2.8	2.8	2.4	2.3	2.5	2.5	2.5
3	X - 1182 D	2.3	2.5	2.4	2.1	2.8	1.9	2.3	1.0	2.3	2.0	2.0
4	X - 1182 K	2.5	2.2	2.3	2.0	3.3	1.6	2.4	1.3	2.5	2.2	2.2
CHECKS:												
5	KIRAN	2.8	2.8	2.8	2.1	2.3	2.8	2.8	3.0	2.6	2.6	2.6
6	MAHI KANCHAN	2.7	2.8	2.7	2.9	3.0	3.5	2.6	2.8	2.6	2.6	2.9
7	PARKASH	2.5	2.7	2.6	2.0	3.0	2.4	2.1	2.0	2.5	2.3	2.3
8	X - 3342	2.5	2.5	2.5	1.8	2.8	2.1	2.1	2.0	2.2	2.1	2.1
MEAN LOCATION												
	C.D. AT 5%	0.2	0.5	0.4	0.4	0.2	0.8	0.5	0.5	0.3	0.5	0.5
	C.V. %	4.5	11.9	-	13.7	5.5	23.1	13.8	14.9	8.4	-	-
	F (Prob)	.001	.238	-	.001	.000	.004	.125	.000	.033	-	-

SL NO	PEDIGREE	EAR ASPECT *										ZN 5 MEAN	OV'L MEAN
		KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN			
1	B V M - 5	2.0	2.5	3.0	1.8	2.3	2.6	1.3	1.9	1.9	2.4	2.4	
2	B V M - 6	2.3	3.0	3.0	1.8	2.5	2.6	1.3	1.9	1.9	2.4	2.4	
3	X - 1182 D	1.8	2.5	2.0	2.0	2.1	2.0	1.0	1.5	1.5	2.0	2.0	
4	X - 1182 K	1.0	2.3	2.0	1.5	1.7	1.5	1.3	1.4	1.4	1.9	1.9	
CHECKS:													
5	KIRAN	2.0	3.0	3.8	2.2	2.7	2.8	1.5	2.1	2.1	2.6	2.6	
6	MAHI KANCHAN	2.8	3.0	3.0	2.7	2.9	2.9	1.3	2.1	2.1	2.7	2.7	
7	PARKASH	1.8	2.5	3.0	2.0	2.3	2.8	1.0	1.9	1.9	2.3	2.3	
8	X - 3342	2.5	2.5	3.0	1.7	2.4	2.4	1.0	1.7	1.7	2.2	2.2	
MEAN LOCATION													
	C.D. AT 5%	0.6	0.1	0.3	0.6	0.4	0.5	0.2	0.4	0.4	0.4	0.4	
	C.V. %	21.1	2.7	6.2	18.1	-	13.2	13.0	-	-	-	-	
	F (Prob)	.000	.000	.000	.038	-	.000	.001	-	-	-	-	

TABLE NO. 14 (CONT.)

SI NO	PEDIGREE	HUSK COVER *									
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN
1	B V M - 5	2.2	2.5	1.0	1.9	1.6	3.0	2.5	2.0	2.5	2.3
2	B V M - 6	2.2	2.3	1.5	2.0	1.8	2.5	2.8	2.0	2.6	2.3
3	X - 1182 D	1.7	2.3	1.0	1.7	1.8	2.8	2.3	1.0	2.3	2.0
4	X - 1182 K	2.5	2.3	1.5	2.1	2.0	3.8	2.8	1.0	2.7	2.4
CHECKS:											
5	KIRAN	2.0	2.7	1.3	2.0	2.5	2.5	3.0	2.0	2.6	2.5
6	MAHI KANCHAN	2.2	2.7	1.8	2.2	2.1	2.5	3.0	2.8	2.5	2.6
7	PARKASH	2.4	2.7	1.5	2.2	2.4	3.3	2.5	2.5	2.5	2.6
8	X - 3342	2.4	2.2	1.8	2.1	2.4	2.8	2.5	1.8	2.3	2.3
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											
		.000	10.3	28.6	-	12.1	7.3	17.5	24.0	9.7	-
		.000	.173	.080	-	.000	.000	.319	.000	.316	-

SI NO	PEDIGREE	HUSK COVER *									
		KARI	ARBH	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
1	B V M - 5	2.3	2.5	3.0	1.7	2.4	2.5	1.3	1.9	2.2	
2	B V M - 6	2.3	2.5	3.0	2.2	2.5	2.4	1.8	2.1	2.3	
3	X - 1182 D	2.0	2.0	2.0	1.8	2.0	1.4	1.0	1.2	1.8	
4	X - 1182 K	2.0	2.0	3.0	1.7	2.2	1.6	1.3	1.4	2.1	
CHECKS:											
5	KIRAN	2.3	2.5	3.8	2.0	2.6	2.5	1.8	2.1	2.4	
6	MAHI KANCHAN	2.0	2.5	3.0	2.2	2.4	2.6	1.8	2.2	2.4	
7	PARKASH	2.0	2.0	3.0	2.3	2.3	2.6	1.0	1.8	2.3	
8	X - 3342	2.0	2.3	3.0	2.0	2.3	2.4	1.8	2.1	2.2	
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											
		14.4	12.6	6.0	19.0	-	14.7	10.7	-	-	
		.643	.025	.000	.340	-	.000	.000	-	-	

TABLE NO. 14 (CONT.)

S1 NO	PEDIGREE	UNIFORMITY *					ZN 3 MEAN			
		AIMO	BAJA	ZN 1 MEAN	GORA BELI	VARA		DHOL	JASH	AMBI
1	B V M - 5	3.0	2.7	2.8	2.8	2.8	3.4	2.0	2.5	2.7
2	B V M - 6	3.1	2.7	2.9	2.9	3.0	3.4	2.5	2.5	2.8
3	X - 1182 D	2.7	2.5	2.6	2.3	2.8	2.1	1.0	2.5	2.1
4	X - 1182 K	2.8	2.7	2.8	2.4	3.0	2.0	1.0	2.3	2.1
	CHECKS:									
5	KIRAN	2.8	2.7	2.7	3.1	2.8	4.0	2.8	2.5	3.0
6	MAHI KANCHAN	2.9	2.8	2.9	3.0	2.8	3.4	2.3	2.3	2.7
7	PARKASH	2.8	2.5	2.7	2.5	3.0	2.5	2.0	2.2	2.4
8	X - 3342	2.8	2.8	2.8	2.4	3.0	3.3	2.0	2.2	2.6
	MEAN LOCATION	2.9	2.7	2.8	2.7	2.9	3.0	1.9	2.4	2.6
	C.D. AT 5% =	0.2	0.6	0.4	0.4	0.2	0.4	0.6	0.4	0.4
	C.V. % =	3.9	12.7	-	10.6	5.0	8.7	20.7	11.2	-
	F (Prob)	.002	.877	-	.001	.013	.000	.000	.410	-

S1 NO	PEDIGREE	UNIFORMITY *					ZN 5 MEAN	OV'L MEAN		
		KARI	ARBH	COIM	KOLH	ZN 4 MEAN			UDAI	CHHI
1	B V M - 5	3.0	3.0	3.0	2.3	2.8	2.9	1.5	2.2	2.7
2	B V M - 6	2.8	2.8	3.0	2.3	2.7	2.6	2.0	2.3	2.7
3	X - 1182 D	2.8	2.0	2.0	1.8	2.1	1.9	1.3	1.6	2.1
4	X - 1182 K	2.0	2.0	2.0	2.2	2.0	1.9	1.0	1.4	2.1
	CHECKS:									
5	KIRAN	3.0	3.0	3.8	2.3	3.0	2.8	1.8	2.3	2.9
6	MAHI KANCHAN	2.8	3.0	3.0	2.5	2.8	2.6	1.8	2.2	2.7
7	PARKASH	2.5	3.0	3.0	2.3	2.7	2.3	1.5	1.9	2.5
8	X - 3342	2.5	2.5	3.0	2.2	2.5	2.8	1.8	2.3	2.5
	MEAN LOCATION	2.7	2.7	2.8	2.3	2.6	2.5	1.6	2.0	2.5
	C.D. AT 5% =	0.7	0.2	0.3	0.6	0.5	0.5	0.2	0.4	-
	C.V. % =	18.7	5.7	6.2	15.0	-	15.2	9.2	-	-
	F (Prob)	.157	.000	.000	.448	-	.003	.000	-	-

TABLE NO. 14 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)									
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI
1	B V M - 5	247	198	230	225	157	245	160	219	209	220
2	B V M - 6	244	194	250	229	144	233	152	197	191	212
3	X - 1182 D	247	203	232	227	143	225	150	184	200	203
4	X - 1182 K	250	191	243	228	143	250	154	200	196	214
CHECKS:											
5	KIRAN	226	176	240	214	143	238	136	179	197	204
6	MAHI KANCHAN	249	201	226	225	137	220	144	201	201	214
7	PARKASH	244	175	245	221	132	233	137	193	189	195
8	X - 3342	232	196	224	218	139	238	144	193	184	202
MEAN LOCATION											
C.D. AT 5%		9.5	19.5	33.5	20.8	11.3	11.3	14.1	17.0	7.6	15.9
C.V. %		2.7	5.8	9.6	-	5.4	3.3	6.5	5.9	2.6	5.2
F (Prob)		.000	.045	.656	-	.014	.000	.020	.004	.000	.055

SI NO	PEDIGREE	PLANT HEIGHT (cm)									
		ZN 3 MEAN	KARI	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
1	B V M - 5	202	172	161	163	166	258	196	227	203	
2	B V M - 6	188	192	155	172	173	238	186	212	197	
3	X - 1182 D	184	163	161	153	159	241	181	211	192	
4	X - 1182 K	193	177	177	177	177	260	190	225	202	
CHECKS:											
5	KIRAN	183	170	156	150	159	221	178	199	187	
6	MAHI KANCHAN	186	159	133	135	142	245	166	206	188	
7	PARKASH	180	169	165	163	166	248	181	214	191	
8	X - 3342	183	169	153	140	154	255	178	216	189	
MEAN LOCATION											
C.D. AT 5%		12.9	14.2	7.7	37.4	19.7	14.4	19.4	16.9	-	-
C.V. %		-	5.6	3.3	13.6	-	4.0	7.2	-	-	-
F (Prob)		-	.005	.000	.270	-	.000	.123	-	-	-

TABLE NO. 14 (CONT.)

S1 NO	PEDIGREE	EAR HEIGHT (cm)									
		ALMO	BAJA	KANG	ZN 1 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI
1	B V M - 5	129	123	133	128	63	98	77	112	103	82
2	B V M - 6	124	105	134	121	55	90	68	103	103	78
3	X - 1182 D	126	98	127	117	50	93	67	92	99	72
4	X - 1182 K	133	105	139	125	57	105	75	111	100	81
CHECKS:											
5	KIRAN	117	83	126	109	54	93	53	79	106	74
6	MAHI KANCHAN	138	97	119	118	54	83	71	100	97	77
7	PARKASH	127	88	127	114	53	93	69	107	98	69
8	X - 3342	121	102	112	111	61	98	67	91	93	67
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

S1 NO	PEDIGREE	EAR HEIGHT (cm)									
		ZN 3 MEAN	KARI	COIM	KOLH	ZN 4 MEAN	UDAI	CHHI	ZN 5 MEAN	OV'L MEAN	
1	B V M - 5	89	77	82	72	77	118	99	108	97	
2	B V M - 6	83	85	79	70	78	110	88	99	92	
3	X - 1182 D	79	72	79	65	72	105	88	96	88	
4	X - 1182 K	88	79	90	83	84	120	95	108	98	
CHECKS:											
5	KIRAN	76	73	75	65	71	105	83	94	85	
6	MAHI KANCHAN	80	77	64	60	67	113	78	95	88	
7	PARKASH	81	78	79	70	76	111	95	103	90	
8	X - 3342	80	70	77	63	70	103	89	96	87	
MEAN LOCATION											
C.D. AT 5% =											
C.V. % =											
F (Prob) =											

TABLE NO. 14 (CONT.)

Sl No	PEDIGREE	EAR No. / PLANT										
		ALMO	KANG	BELI	VARA	KUSH	JASH	AMBI	KARI	COIM	KOLH	UDAI
1	B V M - 5	1.03	1.01	0.99	0.97	0.95	1.02	0.99	0.86	1.01	0.77	0.99
2	B V M - 6	0.96	0.97	0.98	0.98	0.97	1.00	0.99	0.91	1.02	0.81	0.98
3	X - 1182 D	1.00	0.95	0.98	0.99	1.02	1.00	1.02	0.87	0.99	0.76	0.95
4	X - 1182 K	1.00	0.98	0.99	0.96	0.87	1.00	0.99	0.92	1.00	0.82	0.96
CHECKS:												
5	KIRAN	0.98	0.98	0.99	1.01	1.03	1.00	1.03	0.86	0.98	0.87	0.96
6	MAHI KANCHAN	0.99	0.91	0.99	1.00	0.95	1.00	0.99	0.86	1.00	0.78	0.99
7	PARKASH	0.99	0.89	0.97	1.01	1.05	1.00	1.00	1.01	0.93	0.84	0.95
8	X - 3342	0.96	0.98	0.97	1.00	0.92	1.00	1.00	0.89	1.01	0.81	0.99
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

Sl No	PEDIGREE	EAR No. / PLANT										
		CHHI	OV'L MEAN	H.turcicum *			H.maydis *			OV'L MEAN		
				ALMO	BAJA	ZN 1 MEAN	ZN 4 KOLH	OV'L MEAN	ZN 1 ALMO	ZN 3 JASH		
1	B V M - 5	1.01	0.96	2.9	3.2	3.0	2.7	2.9	2.0	3.5	2.8	
2	B V M - 6	0.97	0.96	2.9	2.2	2.5	2.5	2.5	2.7	3.3	3.0	
3	X - 1182 D	0.92	0.95	2.0	1.8	1.9	2.2	2.0	1.6	2.6	2.1	
4	X - 1182 K	1.05	0.96	2.1	1.5	1.8	2.0	1.9	1.7	2.4	2.0	
CHECKS:												
5	KIRAN	0.99	0.97	3.7	3.0	3.3	2.5	3.1	2.0	3.5	2.8	
6	MAHI KANCHAN	0.96	0.95	3.6	3.0	3.3	2.8	3.1	2.2	3.8	3.0	
7	PARKASH	0.98	0.97	4.0	3.0	3.5	2.7	3.2	2.0	2.9	2.5	
8	X - 3342	0.96	0.96	3.0	1.7	2.3	2.3	2.3	2.1	3.0	2.5	
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												

TABLE NO. 14 (CONT.)

SI NO	PEDIGREE	STAND AT HARVEST									
		ALMO	BAJA	KANG	BELI	VARA	DHOL	KUSH	JASH	AMBI	GORA
1	B V M - 5	41	57	26	68	66	61	60	64	72	
2	B V M - 6	46	57	39	48	69	53	67	62	65	
3	X - 1182 D	46	60	43	72	75	65	62	64	72	
4	X - 1182 K	44	59	38	63	72	71	61	64	73	
CHECKS:											
5	KIRAN	41	48	27	48	64	55	36	58	65	
6	MAHI KANCHAN	43	58	32	67	69	63	55	63	76	
7	PARKASH	43	59	32	68	68	61	53	62	75	
8	X - 3342	44	61	44	73	75	58	66	64	75	
MEAN LOCATION											
	C.D. AT 5%	4.7	5.5	7.4	6.0	6.3	12.7	12.6	3.9	11.6	
	C.V. %	7.3	5.5	14.5	6.4	6.1	14.2	14.7	4.3	11.0	
	F (Prob)	.296	.005	.000	.000	.011	.178	.001	.095	.339	

SI NO	PEDIGREE	STAND AT HARVEST										OV'L MEAN
		KARI	ARBH	COIM	KOLH	UDAI	CHHI	UDAI	CHHI	UDAI	CHHI	
1	B V M - 5	61	80	51	80	62	64	61	61	61	61	61
2	B V M - 6	58	74	49	68	59	74	59	74	62	62	62
3	X - 1182 D	76	86	52	85	63	78	66	78	66	66	66
4	X - 1182 K	79	81	56	80	67	76	65	76	65	65	65
CHECKS:												
5	KIRAN	57	66	39	57	44	57	51	57	51	51	51
6	MAHI KANCHAN	61	69	46	86	56	74	62	74	62	62	62
7	PARKASH	73	77	50	76	59	67	61	67	61	61	61
8	X - 3342	67	76	49	76	65	84	65	84	65	65	65
MEAN LOCATION												
	C.D. AT 5%	5.9	10.2	5.2	13.7	4.5	7.5	-	7.5	-	-	-
	C.V. %	6.0	9.1	7.2	10.3	5.2	7.1	-	7.1	-	-	-
	F (Prob)	.000	.010	.000	.008	.000	.000	-	.000	-	-	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 15

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-I, AT ALMORA, KANGRA IN AET1st YEAR, TRIAL NO. TR67Z1 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN					
		ALMO	R	KANG	R	MEAN	ZN 1	KIRAN		MAHI KANCHAN		ZN 1	MEAN
1	F H - 3259	6628	4	5892	2	6260	3	84.08	3.51	34.72	91.76	60.77	75.81
2	J H - 31005	4885	7	3591	10	4238	9	35.69	-	-	41.35	-	19.03
3	J H - 31036	4780	8	2418	11	3599	10	32.75	-	-	38.29	-	1.07
4	H K H - 1176	6368	5	5366	4	5867	4	76.87	-	26.26	84.25	46.40	64.77
5	J K M H - 1701	7747	2	5047	6	6397	2	115.18	-	37.67	124.15	37.70	79.66
6	X - 2097	8040	1	6723	1	7382	1	123.30	18.11	58.86	132.62	83.45	107.31
CHECKS:													
7	KIRAN	3600	10	5693	3	4647	7	-	-	-	4.17	55.33	30.50
8	MAHI KANCHAN	3456	11	3665	9	3561	11	-	-	-	-	-	-
9	PARKASH	4167	9	5027	7	4597	8	15.74	-	-	20.57	37.17	29.11
10	X - 3342	5807	6	5238	5	5522	6	61.29	-	18.85	68.02	42.92	55.10
	MEAN YIELD=	5662		4863		5262							
	MEAN STAND	58		51		55							
	C.D. AT 5%	1023		865		944							
	C.V. %	12.54		10.48		-							
	F (Prob)	.000		.000		-							
	PLOT SIZE=	9.60		9.60		-							
AGRONOMY DATA:													
	SOWING DATE(2004)	10-07		9-06		-							
	HARVEST DATE(2004)	2-11		18-09		-							
	IRRIGATION NOS	-		-		-							
	FERTILIZER APPLIED	100		80		-							
		P		60		-							
		K		40		-							

TABLE NO. 15 (CONT.)

Sl NO	PEDIGREE	MOISTURE % AT HARVEST		Zn 1 MEAN	PLANT ASP.		EAR ASP.	HUSK COV.		UNIFORMITY	PLANT HEIGHT (cm)		Zn 1 MEAN
		ALMO	KANG		ALMO	KANG		ALMO	KANG		ALMO	KANG	
1	F H - 3259	33.6	17.9	25.8	2.5	2.3	2.0	2.2	2.2	2.2	214	270	242
2	J H - 31005	30.8	17.7	24.2	2.8	2.6	2.0	2.5	2.5	2.5	230	271	250
3	J H - 31036	32.7	18.3	25.5	2.7	2.7	2.0	2.3	2.3	2.3	232	243	237
4	H K H - 1176	36.1	17.0	26.5	2.7	2.5	2.2	2.4	2.4	2.4	227	275	251
5	J K M H - 1701	39.5	18.1	28.8	2.4	2.2	2.1	2.3	2.3	2.3	228	235	232
6	X - 2097	36.2	16.3	26.2	2.4	2.1	2.2	2.2	2.2	2.2	231	256	243
CHECKS:													
7	KIRAN	28.2	16.4	22.3	2.7	2.8	2.1	2.5	2.5	2.5	225	257	241
8	MAHI KANCHAN	26.4	17.9	22.2	2.8	2.9	2.2	2.8	2.8	2.8	221	251	236
9	PARKASH	27.3	17.7	22.5	2.7	2.7	2.2	2.3	2.3	2.3	226	263	245
10	X - 3342	31.8	18.0	24.9	2.7	2.5	2.2	2.3	2.3	2.3	233	260	246
MEAN LOCATION													
	C.D. AT 5% =	2.2	1.6	1.9	2.6	2.5	2.1	2.4	2.4	2.4	226	258	242
	C.V. % =	4.7	5.4	-	4.9	4.5	6.0	6.2	6.2	6.2	7.5	22.5	15.0
	F (Prob) =	.000	.191	-	.000	.000	.019	.000	.000	.000	.001	.041	-

Sl NO	PEDIGREE	EAR HEIGHT (cm)		Zn 1 MEAN	EAR No.		H.tur.	H.may.	STAND AT HARVEST	Zn 1 MEAN
		ALMO	KANG		ALMO	KANG				
1	F H - 3259	99	123	111	1.01	1.01	1.7	1.3	61	56
2	J H - 31005	124	139	131	0.97	1.00	3.5	1.5	60	53
3	J H - 31036	120	114	117	1.03	1.00	3.5	1.5	60	54
4	H K H - 1176	119	116	118	0.99	1.00	2.4	1.6	55	54
5	J K M H - 1701	113	91	102	0.98	1.00	2.1	1.4	60	57
6	X - 2097	102	107	104	1.00	0.99	1.7	1.5	59	53
CHECKS:										
7	KIRAN	118	123	121	1.02	1.00	3.5	1.8	57	54
8	MAHI KANCHAN	111	123	117	1.00	0.99	3.5	1.9	58	53
9	PARKASH	119	131	125	1.01	0.99	3.5	1.6	56	55
10	X - 3342	116	110	113	0.99	0.99	2.8	1.6	60	57
MEAN LOCATION										
	C.D. AT 5% =	7.6	13.9	10.8	-	-	0.4	0.2	4.0	8.7
	C.V. % =	4.7	6.9	-	-	-	9.1	9.6	4.8	10.0
	F (Prob) =	.000	.000	-	-	-	.000	.000	.033	.252

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 1 ENTRY)

TABLE NO. 16

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-II, AT LUDHIANA (2), KARNAL, PANLITNAGAR, KANPUR, MAINPURI IN AET 1st YEAR TRIAL NO. TR67Z2 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 2	
		LUD2	R	KARN	R	PAN1	R	KANP	R	MAIN	R	MEAN	R		
1	F H - 3259	3276	8	3364	10	3952	8	4167	6	4083	9	3768	8		
2	H K H - 1176	4920	2	3996	7	5103	1	4300	2	4252	8	4514	2		
3	KAVERI - 2020	3407	7	4422	4	4592	4	4152	8	4698	2	4254	6		
4	J K M H - 1701	5082	1	4630	3	4718	3	4158	7	4424	6	4602	1		
CHECKS:															
5	KIRAN	3271	9	3432	9	3080	10	4263	3	4656	3	3740	9		
6	MAHI KANCHAN	2794	10	3581	8	3573	9	4070	10	3998	10	3603	10		
7	PARKASH	4579	3	4037	5	4895	2	4123	9	4265	7	4380	3		
8	X - 3342	3693	4	4669	2	4222	7	4181	5	4656	4	4284	5		
	MEAN YIELD=	3835		4085		4275		4191		4436		4164			
	MEAN STAND	72		40		73		69		66		64			
	C.D. AT 5%=	1453		138		1663		285		350		778			
	C.V. % =	26.19		1.98		26.90		3.98		4.62		-			
	F (Prob)	.016		.000		.124		.495		.003		-			
	PLOT SIZE=	10.92		9.00		15.00		12.00		12.00		-			
AGRONOMY DATA:															
	SOWING DATE (2004)	8-07		20-06		24-06		24-06		14-07		-			
	HARVEST DATE (2004)	23-10		22-09		7-10		21-09		15-10		-			
	IRRIGATION Nos	-		4		-		-		-		-			
	FERTILIZER APPLIED N	90		150		120		80		80		-			
	P	40		60		60		40		40		-			
	K	-		40		-		40		40		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : LUD1 39.9% : PAN2 53.2%

TABLE NO. 16 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE KIRAN					ZN 2 MEAN
		LOD2	KARN	PANI	KANP	MAIN	
1	F H - 3259	0.13	-	28.31	-	-	0.74
2	H K H - 1176	50.40	16.41	65.71	0.85	-	20.68
3	KAVERI - 2020	4.15	28.83	49.12	-	0.90	13.74
4	J K M H - 1701	55.34	34.90	53.19	-	-	23.05
CHECKS:							
5	KIRAN	-	-	-	-	-	-
6	MAHI KANCHAN	-	4.32	16.01	-	-	-
7	PARKASH	39.97	17.61	58.94	-	-	17.09
8	X - 3342	12.89	36.02	37.10	-	-	14.54

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE MAHI KANCHAN					ZN 2 MEAN
		LOD2	KARN	PANI	KANP	MAIN	
1	F H - 3259	17.23	-	10.61	2.36	2.13	4.58
2	H K H - 1176	76.09	11.58	42.84	5.63	6.34	25.28
3	KAVERI - 2020	21.94	23.49	28.54	2.01	17.49	18.07
4	J K M H - 1701	81.88	29.31	32.05	2.16	10.66	27.73
CHECKS:							
5	KIRAN	17.08	-	-	4.74	16.45	3.81
6	MAHI KANCHAN	-	-	-	-	-	-
7	PARKASH	63.87	12.73	37.01	1.30	6.67	21.55
8	X - 3342	32.17	30.39	18.18	2.72	16.45	18.90

TABLE NO. 16 (CONT.)

GRAIN YIELD % SUPERIORITY OVER THE PARKASH							
S1	NO PEDIGREE	LU2	KARN	PAN1	KANP	MAIN	ZN 2 MEAN
1	F H - 3259	-	-	-	1.05	-	-
2	H K H - 1176*	7.45	-	4.26	4.28	-	3.07
3	KAVERI - 2020	-	9.54	-	0.70	10.15	-
4	J K M H - 1701	10.99	14.70	-	0.85	3.74	5.09
CHECKS:							
5	KIRAN	-	-	-	3.39	9.16	-
6	MAHI KANCHAN	-	-	-	-	-	-
7	PARKASH	-	-	-	-	-	-
8	X - 3342	-	15.66	-	1.41	9.16	-

GRAIN YIELD % SUPERIORITY OVER THE X - 3342							
S1	NO PEDIGREE	LU2	KARN	PAN1	KANP	MAIN	ZN 2 MEAN
1	F H - 3259	-	-	-	-	-	-
2	H K H - 1176	33.23	-	20.86	2.83	-	5.36
3	KAVERI - 2020	-	-	8.77	-	0.90	-
4	J K M H - 1701	37.61	-	11.73	-	-	7.43
CHECKS:							
5	KIRAN	-	-	-	1.96	-	-
6	MAHI KANCHAN	-	-	-	-	-	-
7	PARKASH	23.99	-	15.93	-	-	2.23
8	X - 3342	-	-	-	-	-	-

TABLE NO. 16 (CONT.)

SI NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 2		
	LUD2	KARN	KANP	MAIN	MEAN	LUD2	KARN	PAN1	KANP	MAIN	MEAN
1 F H - 3259	46.0	49.3	52.3	52.0	49.9	46.8	51.7	50.3	57.3	56.3	52.5
2 H K H - 1176	52.3	52.7	54.3	58.0	54.3	54.0	55.3	53.5	59.3	63.0	57.0
3 KAVERI - 2020	46.8	51.3	52.0	53.3	50.9	48.0	53.3	53.5	57.3	58.0	54.0
4 J K M H - 1701	49.5	51.3	54.0	57.7	53.1	50.8	54.3	51.8	59.0	62.7	55.7
CHECKS:											
5 KIRAN	47.5	49.3	53.3	51.3	50.4	49.5	52.3	51.5	58.3	56.3	53.6
6 MAHI KANCHAN	47.3	49.7	50.0	52.7	49.9	49.3	52.7	52.0	55.3	57.0	53.3
7 PARKASH	46.8	49.7	51.7	52.0	50.0	48.0	51.7	50.0	56.7	57.0	52.7
8 X - 3342	47.0	50.3	51.3	51.7	50.1	49.0	52.3	51.0	56.3	56.7	53.1
MEAN LOCATION	48.2	50.8	52.6	53.6	51.3	49.7	53.3	51.8	57.6	58.4	54.1
C.D. AT 5% =	2.2	1.0	1.2	1.6	1.5	2.3	0.9	2.0	1.2	1.6	1.6
C.V. % =	3.1	1.2	1.3	1.7	-	3.2	1.0	2.6	1.2	1.6	-
F (Prob)	.000	.000	.000	.000	-	.000	.000	.011	.000	.000	-

SI NO PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				ZN 2	
	LUD2	KARN	KANP	MAIN	MEAN	LUD2	PAN1	LUD2	PAN1	MEAN
1 F H - 3259	74.5	79.7	82.3	80.7	79.3	20.1	22.8	20.1	22.8	21.5
2 H K H - 1176	81.8	82.7	84.3	82.3	82.8	20.3	24.0	20.3	24.0	22.2
3 KAVERI - 2020	77.0	81.3	82.3	79.7	80.1	19.4	23.5	19.4	23.5	21.4
4 J K M H - 1701	80.5	82.0	84.0	79.3	81.5	21.1	29.0	21.1	29.0	25.1
CHECKS:										
5 KIRAN	76.0	81.3	83.3	81.7	80.6	20.8	26.0	20.8	26.0	23.4
6 MAHI KANCHAN	74.8	81.3	80.3	80.0	79.1	19.6	23.2	19.6	23.2	21.4
7 PARKASH	79.0	79.3	81.7	80.0	80.0	20.0	25.8	20.0	25.8	22.9
8 X - 3342	76.3	80.3	81.3	78.0	79.0	20.0	26.6	20.0	26.6	23.3
MEAN LOCATION	77.6	81.1	82.6	80.0	80.3	20.1	25.2	20.1	25.2	22.6
C.D. AT 5% =	3.3	1.0	1.2	2.1	1.9	0.5	2.2	0.5	2.2	1.4
C.V. % =	3.0	0.7	0.8	1.5	-	1.7	6.1	1.7	6.1	-
F (Prob)	.001	.000	.000	.009	-	.000	.000	.000	.000	-

TABLE NO. 16 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
	KANP	MAIN	ZN 2 MEAN	KANP	MAIN	ZN 2 MEAN	KANP	MAIN	ZN 2 MEAN	KANP	MAIN	ZN 2 MEAN
1 F H - 3259	2.8	2.8	2.8	2.7	2.5	2.6	2.5	3.0	2.8	3.0	3.0	3.0
2 H K H - 1176	3.0	2.7	2.8	2.5	2.8	2.7	2.8	2.8	2.8	2.7	2.8	2.8
3 KAVERI - 2020	2.3	2.3	2.3	2.7	3.0	2.8	2.3	2.7	2.5	2.0	3.0	2.5
4 J K M H - 1701	2.3	2.7	2.5	2.9	3.0	3.0	2.3	2.5	2.4	2.4	2.8	2.6
CHECKS:												
5 KIRAN	3.0	3.0	3.0	3.0	2.7	2.8	2.7	2.7	2.7	3.2	2.8	3.0
6 MAHI KANCHAN	2.8	2.7	2.8	2.5	2.5	2.5	2.6	2.7	2.6	2.5	3.0	2.8
7 PARKASH	3.0	2.7	2.8	2.8	2.7	2.8	2.5	2.5	2.5	2.8	3.0	2.9
8 X - 3342	2.9	2.7	2.8	3.0	2.7	2.8	2.7	2.7	2.7	2.6	2.5	2.5
MEAN LOCATION												
C.D. AT 5%	0.6	0.7	0.7	0.7	0.6	0.6	0.9	0.8	0.8	0.5	0.5	0.5
C.V. %	13.2	14.7	-	15.5	11.8	-	20.3	16.9	-	11.3	11.0	-
F (Prob)	.046	.811	-	.771	.406	-	.973	.821	-	.009	.597	-

S1 NO PEDIGREE	EAR NO. / PLANT		PLANT HEIGHT (cm)						ZN 2	
	LU2	LU2	LU2	KARN	PANI	KANP	MAIN	MAIN	MEAN	
1 F H - 3259	0.89	134	143	222	140	138	155	155	155	
2 H K H - 1176	0.91	161	175	217	154	144	170	170	170	
3 KAVERI - 2020	1.00	169	167	197	159	132	165	165	165	
4 J K M H - 1701	0.98	160	168	222	160	137	169	169	169	
CHECKS:										
5 KIRAN	0.97	189	187	226	161	149	182	182	182	
6 MAHI KANCHAN	0.91	186	175	229	168	155	183	183	183	
7 PARKASH	0.94	188	183	246	161	149	185	185	185	
8 X - 3342	0.97	186	183	230	150	143	179	179	179	
MEAN LOCATION										
C.D. AT 5%	-	22.4	9.2	33.4	3.4	17.9	17.3	17.3	17.3	
C.V. %	-	9.0	3.1	10.3	1.3	7.3	-	-	-	
F (Prob)	-	.000	.000	.383	.000	.317	-	-	-	

TABLE NO. 16 (CONT.)

Sl	NO PEDIGREE	EAR HEIGHT (cm)					STAND AT HARVEST					ZN 2	
		LUD2	KARN	PAN1	KANP	MAIN	MEAN	LUD2	KARN	PAN1	KANP	MAIN	MEAN
1	F H - 3259	50	53	83	60	62	62	77	38	79	69	66	66
2	H K H - 1176	78	87	92	79	56	78	52	40	53	70	68	56
3	KAVERI - 2020	84	70	83	77	57	74	68	39	70	68	65	62
4	J K M H - 1701	64	70	80	59	53	65	79	40	86	71	67	69
CHECKS:													
5	KIRAN	104	93	98	58	62	83	71	39	73	68	65	63
6	MAHI KANCHAN	98	80	99	92	69	87	77	34	74	68	64	63
7	PARKASH	105	85	107	61	66	85	68	39	73	65	64	62
8	X - 3342	104	88	94	56	59	80	81	42	81	69	65	68
MEAN LOCATION		83	77	90	65	59	75	72	40	73	69	66	64
C.D. AT 5%		15.5	7.8	17.2	4.6	15.7	12.1	6.1	3.9	9.5	3.2	3.1	5.2
C.V. %		12.9	5.9	13.1	4.1	15.5	-	5.9	5.8	8.9	2.7	2.8	-
F (Prob)		.000	.000	.046	.000	.352	-	.000	.003	.000	.050	.173	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) .
 (DELETED 2 ENTRIES) .

TABLE NO. 17

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR IN AET 1st YEAR, TRIAL NO. TR67Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												Zn 3			
		GORA		BELI		VARA		DHOL		KUSH		JASH		AMBI		MEAN	
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	
1	F H - 3259	7	5234	6	3814	10	3682	3	5066	4	5402	9	4643	8			
2	J H - 31036	3	5188	7	5601	1	3257	5	4973	5	6031	6	5046	4			
3	H K H - 1176	8	4621	9	4846	6	2777	9	4943	6	5802	8	4580	9			
4	J K M H - 1701	2	6692	1	4398	7	3218	6	5562	1	7378	1	5566	2			
5	X - 2097	1	5834	2	5165	2	4832	1	5329	2	6812	3	5859	1			
CHECKS:																	
6	KIRAN	5	4001	11	3864	9	2462	11	4216	11	5377	10	4131	10			
7	MAHI KANCHAN	10	4361	10	3151	11	2547	10	4228	10	5034	11	3878	11			
8	PARKASH	11	5341	5	4930	4	3439	4	4363	8	6444	4	4711	6			
9	X - 3342	4	5426	4	4890	5	3709	2	5083	3	6815	2	5166	3			
	MEAN YIELD=		5228		4539		3276		4786		6128		4820				
	MEAN STAND		68		82		63		63		40		64				
	C.D. AT 5%		333		1030		600		175		1350		754				
	C.V. %		4.42		15.76		12.72		2.54		15.29		-				
	F (Prob)		.000		.000		.000		.000		.002		-				
	PLOT SIZE=		15.00		15.00		15.00		12.00		6.00		-				
AGRONOMY DATA:																	
	SOWING DATE (2004)		28-06		22-06		11-07		2-07		22-06		-				
	HARVEST DATE (2004)		28-09		30-10		18-10		18-10		-		-				
	IRRIGATION Nos		2		-		2		-		-		-				
	FERTILIZER APPLIED		N 120		100		120		120		80		-				
			P 60		60		60		60		50		-				
			K 60		40		40		60		30		-				

TABLE NO. 17 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE KIRAN								ZN 3 MEAN
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	AMBI		
1	F H - 3259	-	30.84	-	49.58	20.17	0.48	-	12.40	
2	J H - 31036	7.45	29.67	44.95	32.31	17.98	12.17	-	22.16	
3	H K H - 1176	-	15.51	25.41	12.83	17.26	7.92	-	10.87	
4	J K M H - 1701	26.30	67.29	13.81	30.71	31.94	37.22	-	34.73	
5	X - 2097	47.61	45.83	33.66	96.29	26.41	26.71	-	41.84	
CHECKS:										
6	KIRAN	-	-	-	-	-	-	-	-	
7	MAHI KANCHAN	-	9.01	-	3.48	0.29	-	-	-	
8	PARKASH	-	33.50	27.59	39.69	3.51	19.85	-	14.04	
9	X - 3342	4.29	35.64	26.55	50.68	20.58	26.75	-	25.07	

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN								ZN 3 MEAN
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	AMBI		
1	F H - 3259	17.97	20.03	21.04	44.56	19.82	7.31	-	19.71	
2	J H - 31036	32.35	18.96	77.75	27.86	17.64	19.80	-	30.11	
3	H K H - 1176	13.63	5.96	53.78	9.04	16.93	15.26	-	18.08	
4	J K M H - 1701	55.61	53.46	39.56	26.32	31.56	46.55	-	43.50	
5	X - 2097	81.86	33.78	63.90	89.69	26.04	35.32	-	51.07	
CHECKS:										
6	KIRAN	23.20	-	22.62	-	-	6.80	-	6.50	
7	MAHI KANCHAN	-	-	-	-	-	-	-	-	
8	PARKASH	-	22.47	56.45	34.99	3.21	28.00	-	21.46	
9	X - 3342	28.49	24.43	55.18	45.62	20.24	35.37	-	33.21	

TABLE NO. 17 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED					DAYS TO 50% SILKING					ZN 3 MEAN			
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL		KUSH	JASH	AMBI
1	F H - 3259	50.5	44.0	47.5	46.0	41.3	48.5	46.3	52.5	47.8	50.5	47.0	45.0	52.5	49.2
2	J H - 31036	53.5	47.0	52.0	48.3	47.5	52.0	50.0	55.5	51.3	52.5	49.5	50.8	56.3	52.6
3	H K H - 1176	53.0	46.5	54.0	50.8	50.5	52.5	51.2	55.3	54.5	56.8	52.5	53.3	56.3	54.8
4	J K M H - 1701	51.8	46.0	51.8	49.5	47.0	51.5	49.6	53.8	51.3	53.8	51.0	50.0	55.0	52.5
5	X - 2097	53.3	46.0	51.5	48.0	47.0	50.5	49.4	55.5	51.3	53.5	49.5	50.5	54.5	52.5
CHECKS:															
6	KIRAN	53.0	45.0	50.5	47.5	46.8	48.3	48.5	55.3	49.8	52.8	49.0	50.3	52.3	51.5
7	MAHI KANCHAN	52.0	42.8	50.0	46.5	46.5	47.0	47.5	54.0	48.8	52.5	48.5	49.8	51.8	50.9
8	PARKASH	52.3	45.0	50.5	48.0	44.0	51.0	48.5	54.3	49.5	52.3	49.0	47.3	54.5	51.1
9	X - 3342	52.8	44.5	49.3	47.0	44.0	49.3	47.8	54.8	48.8	51.8	48.3	47.0	52.8	50.5
MEAN LOCATION															
	C.D. AT 5% =	1.0	2.3	1.6	1.7	1.6	2.1	1.7	1.0	1.9	1.8	1.7	1.8	1.6	1.6
	C.V. % =	1.3	3.6	2.2	2.4	2.3	3.0	-	1.3	2.6	2.4	2.3	2.5	2.0	-
	F (Prob)	.000	.018	.000	.000	.000	.000	-	.000	.000	.000	.000	.000	.000	-

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK					MOISTURE % AT HARVEST					ZN 3 MEAN					
		GORA BELI	VARA	DHOL	JASH	AMBI	GORA BELI	VARA	KUSH	JASH	AMBI						
1	F H - 3259	78.0	78.8	79.0	81.5	87.8	22.8	31.5	22.1	17.7	23.5	81.0	22.8	31.5	22.1	17.7	23.5
2	J H - 31036	80.8	84.3	86.3	83.0	89.8	20.8	31.2	24.3	17.2	23.4	84.8	20.8	31.2	24.3	17.2	23.4
3	H K H - 1176	85.8	84.0	86.3	85.5	89.3	22.4	33.7	22.0	17.8	24.0	86.2	22.4	33.7	22.0	17.8	24.0
4	J K M H - 1701	79.8	84.5	81.8	84.0	87.3	24.0	31.6	29.9	18.7	26.1	83.4	24.0	31.6	29.9	18.7	26.1
5	X - 2097	80.3	82.8	84.3	84.3	89.5	21.9	33.2	24.9	18.2	24.5	84.2	21.9	33.2	24.9	18.2	24.5
CHECKS:																	
6	KIRAN	79.0	82.5	82.8	85.0	88.0	21.1	30.5	26.1	17.8	23.9	83.4	21.1	30.5	26.1	17.8	23.9
7	MAHI KANCHAN	77.5	79.0	79.0	82.5	89.0	20.4	28.5	25.8	17.2	23.0	81.4	20.4	28.5	25.8	17.2	23.0
8	PARKASH	81.0	85.0	85.3	84.8	90.5	22.4	30.3	27.5	17.5	23.9	85.3	22.4	30.3	27.5	17.5	23.9
9	X - 3342	79.5	79.8	82.3	82.8	89.5	22.0	28.8	25.5	17.9	23.6	82.8	22.0	28.8	25.5	17.9	23.6
MEAN LOCATION																	
	C.D. AT 5% =	1.2	2.3	3.5	1.4	2.6	0.9	0.4	2.4	0.4	1.0	1.2	0.9	0.4	2.4	0.4	1.0
	C.V. % =	1.0	2.0	2.9	1.2	2.0	3.0	0.8	6.5	1.7	-	-	3.0	0.8	6.5	1.7	-
	F (Prob)	.000	.000	.001	.000	.152	.000	.000	.000	.000	-	-	.000	.000	.000	.000	-

TABLE NO. 17 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *							EAR ASPECT *						
		BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN
1	F H - 3259	1.9	2.8	2.3	2.6	1.0	2.4	2.1	2.6	2.5	2.3	2.1	2.0	2.5	2.3
2	J H - 31036	2.3	2.3	2.1	2.6	2.3	2.5	2.3	2.0	3.0	2.5	2.3	2.0	2.5	2.4
3	H K H - 1176	2.4	3.3	2.3	3.0	1.8	2.8	2.6	2.1	3.5	2.0	2.6	1.0	2.4	2.3
4	J K M H - 1701	2.1	2.0	2.5	2.8	1.0	2.2	2.1	1.9	2.3	2.6	2.3	1.0	2.2	2.0
5	X - 2097	2.5	1.8	2.5	2.3	1.3	2.3	2.1	2.3	2.0	2.5	2.1	1.5	2.3	2.1
CHECKS:															
6	KIRAN	2.4	2.8	3.0	3.0	2.0	2.5	2.6	2.8	2.5	2.9	2.5	2.3	2.5	2.6
7	MAHI KANCHAN	2.4	2.3	3.5	3.3	3.0	2.4	2.8	2.8	3.3	3.6	2.9	3.3	2.7	3.1
8	PARKASH	2.4	3.3	2.1	2.5	2.3	2.4	2.5	2.4	3.5	2.4	2.0	2.0	2.5	2.5
9	X - 3342	2.3	3.5	2.6	2.6	1.3	2.5	2.5	2.0	2.8	2.1	2.1	1.5	2.6	2.2
MEAN LOCATION															
	C.D. AT 5%	0.3	0.1	0.5	0.4	0.5	0.4	0.4	0.3	0.2	0.7	0.4	0.5	0.4	0.4
	C.V. %	9.5	4.1	13.2	9.3	19.0	11.3	-	10.3	5.9	20.6	12.3	17.1	10.0	-
	F (Prob)	.003	.000	.000	.001	.000	.325	-	.000	.000	.003	.006	.000	.089	-

SI NO	PEDIGREE	HUSK COVER *							UNIFORMITY *						
		GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN		
1	F H - 3259	1.8	2.8	1.9	1.3	2.5	2.0	2.1	2.8	1.5	1.3	2.5	2.0		
2	J H - 31036	2.1	2.8	3.0	2.5	2.5	2.6	2.5	2.8	1.9	1.8	2.7	2.3		
3	H K H - 1176	2.4	3.0	2.3	2.5	2.8	2.6	2.4	3.3	2.0	2.0	2.8	2.5		
4	J K M H - 1701	1.8	2.8	2.5	1.3	2.0	2.0	2.3	2.3	2.8	1.5	2.3	2.2		
5	X - 2097	2.1	2.8	2.8	2.3	2.2	2.4	2.6	3.0	2.5	1.8	2.5	2.5		
CHECKS:															
6	KIRAN	2.4	2.5	2.8	2.5	2.5	2.5	2.8	2.5	3.3	3.0	2.3	2.8		
7	MAHI KANCHAN	2.0	2.8	2.8	3.0	2.7	2.6	2.8	3.0	3.3	3.0	2.8	3.0		
8	PARKASH	2.5	3.0	2.6	3.0	2.5	2.7	2.6	2.8	2.3	2.0	2.6	2.4		
9	X - 3342	2.1	3.3	2.4	1.5	2.3	2.3	2.6	2.3	2.8	2.0	2.3	2.4		
MEAN LOCATION															
	C.D. AT 5%	0.6	0.2	0.7	0.6	0.3	0.5	0.4	0.1	0.5	0.5	0.5	0.4		
	C.V. %	20.3	6.2	18.7	19.8	8.6	-	10.8	3.6	13.6	15.5	7.9	-		
	F (Prob)	.247	.000	.043	.000	.001	-	.044	.000	.000	.000	.010	-		

TABLE NO. 17 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 3 MEAN	ZN 3 AMBI	ZN 3 MEAN	
		GORA BELI	VARA	DHOL	KUSH	JASH	GORA BELI	VARA	DHOL	KUSH	JASH				AMBI
1	F H - 3259	117	180	151	169	180	192	165	34	45	56	75	73	77	60
2	J H - 31036	143	210	144	163	180	212	175	48	78	74	73	95	89	76
3	H K H - 1176	134	218	153	167	177	211	176	52	68	76	76	86	86	74
4	J K M H - 1701	130	213	137	166	186	204	172	46	60	61	74	79	74	66
5	X - 2097	167	250	161	194	199	225	199	65	83	69	89	87	81	79
CHECKS:															
6	KIRAN	140	203	156	184	190	208	180	56	78	71	88	93	90	79
7	MAHI KANCHAN	154	213	153	174	186	222	184	59	70	67	78	92	88	76
8	PARKASH	142	210	144	186	191	226	183	59	70	76	93	100	93	82
9	X - 3342	145	230	154	178	196	214	186	57	78	71	89	93	83	78
	MEAN LOCATION	143	212	150	174	187	212	180	53	66	67	80	87	83	73
	C.D. AT 5% =	13.8	14.2	17.7	17.0	5.7	22.7	15.2	15.5	10.7	17.2	12.5	4.8	13.0	12.3
	C.V. % =	6.7	4.6	8.2	6.8	2.1	7.4	-	20.1	11.2	17.8	10.8	3.8	10.8	-
	F (Prob)	.000	.000	.104	.015	.000	.087	-	.024	.000	.123	.004	.000	.072	-

Sl No	PEDIGREE	EAR No. / PLANT					H. may. STAND AT HARVEST					ZN 3 AMBI	ZN 3 AMBI
		GORA BELI	VARA	KUSH	JASH	AMBI	GORA BELI	VARA	DHOL	KUSH	JASH		
1	F H - 3259	0.98	0.97	0.79	1.01	1.03	2.4	65	87	79	61	43	46
2	J H - 31036	0.99	0.98	0.92	1.01	1.01	3.0	67	80	60	64	46	31
3	H K H - 1176	0.98	0.97	0.95	1.00	1.04	2.9	54	71	55	62	31	46
4	J K M H - 1701	0.99	0.94	0.93	1.00	1.01	2.6	68	87	55	64	46	39
5	X - 2097	0.98	0.98	0.99	1.00	1.00	2.5	74	89	78	65	39	44
CHECKS:													
6	KIRAN	0.96	1.00	0.91	1.00	1.03	3.6	65	77	63	64	44	38
7	MAHI KANCHAN	0.97	0.91	0.93	1.00	1.00	3.9	63	83	59	62	33	33
8	PARKASH	0.99	1.03	0.88	1.01	1.01	3.0	56	78	57	61	33	45
9	X - 3342	0.98	0.95	0.96	1.00	0.99	2.9	67	89	77	63	45	40
	MEAN LOCATION	-	-	-	-	-	3.0	65	82	63	63	40	40
	C.D. AT 5% =	-	-	-	-	-	0.5	3.8	7.0	20.2	4.7	6.2	10.7
	C.V. % =	-	-	-	-	-	11.4	4.0	7.1	22.1	5.2	10.7	10.7
	F (Prob)	-	-	-	-	-	.000	.000	.023	.000	.073	.415	.000

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 2 ENTRIES)

TABLE NO. 18

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-IV, AT BAKARAM KANCHAN GANGA HYDERABAD, JK SEED HYDERABAD, KAVERI SEEDS HYDERABAD, KARIMNAGAR, ARBHAVI, SONA AHMEDABAD, MONSANTO BANGLORE, MANDYA, COIMBATORE, KOLHAPUR IN AET 1st YEAR, TRIAL NO. TR67Z4 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												AHME	
		KANC		HYDE		HYDE		KARI		ARBH		SONA		R	R
		DAKA	R	JKSE	R	KAVE	R	KARI	R	ARBH	R	SONA	R	R	
1	F H - 3246	6194	19	5300	15	5373	13	3049	16	1595	19	3974	19		
2	R - 03/702	6260	17	3722	18	3719	18	2308	19	1844	16	4103	16		
3	J H - 31005	6342	16	6466	9	5465	11	3327	12	1998	15	4215	14		
4	J H - 3964	6777	10	7162	1	5774	9	3798	10	1816	17	4370	5		
5	A H - 24007	6867	9	5063	17	4130	17	3221	14	2662	7	4461	2		
6	A H - 01411	6989	8	6288	11	4299	16	3155	15	2610	8	4564	1		
7	KAVERI - 2020	6637	13	6359	10	7202	1	4864	6	2430	10	4368	6		
8	M C H - 15	7985	4	7068	2	6357	4	5911	1	3958	2	4331	8		
9	J K M H - 1701	8225	2	6696	8	6603	3	5104	3	3903	3	4334	7		
10	X - 2097	7845	7	6870	6	6077	7	4331	8	2181	14	4388	4		
CHECKS:															
11	KIRAN	6520	15	5139	16	3490	19	2527	18	2199	13	4325	9		
12	MAHI KANCHAN	6761	11	3642	19	4370	15	2547	17	1704	18	4322	10		
13	PARKASH	6560	14	5553	14	5306	14	3351	11	2491	9	4197	15		
14	X - 3342	6752	12	5942	13	5377	12	3307	13	2206	12	4405	3		
	MEAN YIELD=	7107		6053		5496		3923		2639		4274			
	MEAN STAND	61		94		76		67		66		32			
	C.D. AT 5% =	526		653		797		1012		770		445			
	C.V. % =	5.23		7.62		10.24		18.22		20.61		7.35			
	F (Prob)	.000		.000		.000		.000		.000		.535			
	PLOT SIZE=	12.00		15.00		12.00		12.00		15.00		5.00			
AGRONOMY DATA:															
	SOWING DATE (2004)	6-06		3-07		20-07		13-07		10-08		12-07			
	HARVEST DATE (2004)	18-09		3-11		9-11		28-10		13-12		15-10			
	IRRIGATION NOS	7		6		6		-		8		2			
	FERTILIZER APPLIED N	120		140		-		180		150		120			
	P	60		40		-		60		75		64			
	K	40		40		-		40		38		332			

TABLE NO. 18 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		BANG	MONS		MAND		COIM		KOLH		R		MEAN	R	
1	F H - 3246	3280	10	5980	8	3645	13	4558	6	4295	12				
2	R - 03/702	2351	17	3400	19	2560	16	3377	16	3364	19				
3	J H - 31005	2436	16	3452	18	2447	19	3739	13	3989	16				
4	J H - 3964	2619	14	5501	9	3957	11	4871	2	4665	10				
5	A H - 24007	2914	12	4638	13	2826	15	3153	18	3994	15				
6	A H - 01411	2519	15	4073	14	3696	12	3506	14	4170	14				
7	KAVERI - 2020	3453	9	5047	12	4179	9	3262	17	4780	9				
8	M C H - 15	4371	2	6645	4	5447	1	4970	1	5704	1				
9	J K M H - 1701	4768	1	6242	6	5280	3	4621	5	5577	2				
10	X - 2097	4064	5	6035	7	4516	7	4387	7	5069	7				
CHECKS:															
11	KIRAN	1804	19	3918	16	2526	17	3889	9	3634	17				
12	MAHI KANCHAN	2276	18	3638	17	2475	18	2626	19	3436	18				
13	PARKASH	3040	11	4069	15	3586	14	3849	10	4200	13				
14	X - 3342	2656	13	5481	10	4098	10	3785	12	4401	11				
	MEAN YIELD=	3301		5302		3986		3968		4605					
	MEAN STAND	40		47		49		82		61					
	C.D. AT 5% =	595		1477		593		1845		871					
	C.V. % =	12.72		16.84		10.51		28.10		-					
	F (Prob)	.000		.000		.000		.220		-					
	PLOT SIZE=	15.00		10.50		9.60		12.00		-					
AGRONOMY DATA:															
	SOWING DATE(2004)	20-07		24-07		30-06		23-07		-					
	HARVEST DATE(2004)	21-11		7-12		13-10		4-11		-					
	IRRIGATION NOS	13		6		8		-		-					
	FERTILIZER APPLIED N	-		150		135		100		-					
	P	-		75		33		50		-					
	K	-		40		50		30		-					

TABLE NO. 18 (CONT.)

Sl No	PEDIGREE	% SUPERIORITY OVER THE KIRAN										ZN 4 MEAN	
		GRAIN YIELD	HYDE	JKSE	KAVE	KARI	ARBH	AHME	SONA	BANG MONS	MAND		COIM
1	F H - 3246	3.14	53.95	20.63	-	-	-	-	81.77	52.64	44.28	17.19	18.19
2	R - 03/702	-	6.55	31.64	-	-	-	-	30.27	-	1.34	-	-
3	J H - 31005	25.83	56.58	50.26	-	-	-	35.03	45.17	40.40	56.66	25.24	9.77
4	J H - 3964	3.94	65.44	27.46	-	-	-	1.04	61.49	18.40	11.89	-	28.36
5	A H - 24007	5.31	18.34	24.82	21.08	18.69	3.16	3.53	39.60	3.95	46.33	-	9.90
6	A H - 01411	7.19	23.18	92.47	10.52	10.52	5.53	1.00	91.40	28.83	65.44	-	14.75
7	KAVERI - 2020	1.79	106.34	133.89	80.01	80.01	0.14	142.25	69.61	59.34	115.61	27.78	31.55
8	M C H - 15	22.47	82.13	101.93	77.49	77.49	0.22	164.25	59.34	59.34	109.00	18.81	53.49
9	J K M H - 1701	26.14	89.18	71.36	-	-	1.47	125.21	54.05	54.05	78.77	12.80	39.51
10	X - 2097	20.32	74.11	-	-	-	-	-	-	-	-	-	-
CHECKS:													
11	KIRAN	-	-	-	-	-	-	-	-	-	-	-	-
12	MAHI KANCHAN	3.68	25.20	0.78	-	-	-	-	26.14	-	-	-	-
13	PARKASH	0.61	52.03	32.58	13.28	13.28	-	68.50	47.21	3.86	41.97	-	15.59
14	X - 3342	3.55	54.06	30.86	0.32	0.32	1.85	47.21	39.90	39.90	62.22	-	21.11

Sl No	PEDIGREE	% SUPERIORITY OVER THE MAHI KANCHAN										ZN 4 MEAN	
		GRAIN YIELD	HYDE	JKSE	KAVE	KARI	ARBH	AHME	SONA	BANG MONS	MAND		COIM
1	F H - 3246	45.53	22.96	19.70	-	-	-	-	44.11	64.37	47.27	73.54	24.99
2	R - 03/702	2.21	-	30.62	8.26	17.28	-	-	3.28	-	3.44	28.57	-
3	J H - 31005	77.56	25.06	49.10	6.58	6.58	1.10	15.09	15.09	51.19	59.92	42.37	16.09
4	J H - 3964	0.25	32.14	26.48	56.27	56.27	3.22	28.03	27.50	17.50	14.21	85.47	35.75
5	A H - 24007	1.57	-	23.85	53.20	53.20	5.59	10.67	11.94	11.94	49.36	20.03	16.23
6	A H - 01411	3.38	-	90.98	42.64	42.64	1.06	51.74	38.73	38.73	68.87	33.48	21.36
7	KAVERI - 2020	74.61	64.80	132.09	132.33	132.33	0.20	92.05	82.64	82.64	120.09	24.21	39.12
8	M C H - 15	94.08	45.47	100.38	129.09	129.09	0.28	109.50	71.58	71.58	113.34	89.23	66.01
9	J K M H - 1701	21.66	51.10	70.04	28.04	28.04	1.53	78.55	65.89	65.89	82.49	75.95	62.32
10	X - 2097	16.04	39.06	-	-	-	-	-	-	-	-	67.04	47.54
CHECKS:													
11	KIRAN	-	-	-	-	-	-	-	-	-	-	-	-
12	MAHI KANCHAN	41.11	-	29.07	0.06	0.06	-	-	7.69	7.69	2.08	48.09	5.76
13	PARKASH	52.49	21.43	31.56	46.21	46.21	-	33.59	11.85	11.85	44.92	46.54	22.25
14	X - 3342	63.16	23.04	29.85	29.49	29.49	1.91	16.71	50.65	50.65	65.59	44.11	28.08

TABLE NO. 18 (CONT.)

SI NO	PEDIGREE	% SUPERIORITY OVER THE PARKASH										ZIN 4 MEAN		
		KANC BAKA	HYDE JKSE	HYDE KAVE	KARI	ARBH	AHME SONA	BANG MONS	MAND	COIM	KOLH			
1	F H - 3246	-	-	1.26	-	-	-	-	-	7.88	46.96	1.62	18.42	2.24
2	R - 03/702	-	-	-	-	-	-	-	-	-	-	-	-	-
3	J H - 31005	-	16.44	2.99	-	-	-	-	-	0.42	-	-	-	-
4	J H - 3964	3.31	28.96	8.82	13.33	-	-	-	-	4.11	35.18	10.35	26.56	11.05
5	A H - 24007	4.67	-	-	-	6.88	-	-	-	6.29	13.99	-	-	-
6	A H - 01411	6.53	13.22	-	-	4.78	-	-	-	8.73	0.09	3.06	-	-
7	KAVERI - 2020	1.16	14.51	35.72	45.17	-	-	-	-	4.07	24.04	16.53	-	13.80
8	M C H - 15	21.72	27.27	19.80	76.41	58.91	-	-	-	3.18	63.30	51.87	29.13	35.80
9	J K M H - 1701	25.37	20.57	24.43	52.31	56.68	-	-	-	3.26	53.41	47.21	20.07	32.79
10	X - 2097	19.58	23.70	14.52	29.25	-	-	-	-	4.55	48.32	25.92	13.99	20.69
CHECKS:														
11	KIRAN	-	-	-	-	-	-	-	-	3.04	-	-	1.05	-
12	MAHI KANCHAN	3.05	-	-	-	-	-	-	-	2.97	-	-	-	-
13	PARKASH	-	-	-	-	-	-	-	-	-	-	-	-	-
14	X - 3342	2.92	7.00	1.33	-	-	-	-	-	4.94	34.69	14.26	-	4.77

SI NO	PEDIGREE	% SUPERIORITY OVER THE X - 3342										ZIN 4 MEAN		
		KANC BAKA	HYDE JKSE	HYDE KAVE	KARI	ARBH	AHME SONA	BANG MONS	MAND	COIM	KOLH			
1	F H - 3246	-	-	-	-	-	-	-	-	-	23.47	9.11	20.43	-
2	R - 03/702	-	-	-	-	-	-	-	-	-	-	-	-	-
3	J H - 31005	-	8.82	1.64	0.59	-	-	-	-	-	-	-	-	-
4	J H - 3964	0.38	20.52	7.39	14.82	-	-	-	-	-	0.36	-	28.70	5.99
5	A H - 24007	1.70	-	-	-	20.69	-	-	-	1.29	-	-	-	-
6	A H - 01411	3.51	5.81	-	-	18.31	-	-	-	3.61	-	-	-	-
7	KAVERI - 2020	-	7.02	33.94	47.08	10.16	-	-	-	-	30.01	1.98	-	8.62
8	M C H - 15	18.27	18.95	18.22	78.73	79.43	-	-	-	-	64.55	32.91	31.31	29.62
9	J K M H - 1701	21.81	12.68	22.80	54.31	76.92	-	-	-	-	79.50	28.84	22.09	26.74
10	X - 2097	16.19	15.61	13.02	30.95	-	-	-	-	-	52.98	10.11	15.91	15.19
CHECKS:														
11	KIRAN	-	-	-	-	-	-	-	-	-	-	-	2.76	-
12	MAHI KANCHAN	0.13	-	-	-	-	-	-	-	-	-	-	-	-
13	PARKASH	-	-	-	-	-	-	-	-	-	-	-	-	-
14	X - 3342	-	-	-	1.32	12.92	-	-	-	-	14.46	-	1.69	-

TABLE NO. 18 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% DRY			HUSK		BANG MONS	MAND	COIM	KOLH	ZN 4 MEAN
		HYDE JKSE	HYDE KAVE	KARI	AHME SONA						
1	F H - 3246	86.5	96.8	81.8	92.3	91.5	83.0	95.3	93.0	90.0	
2	R H - 03/702	75.0	83.8	80.3	92.5	90.3	82.0	91.3	90.0	85.6	
3	J H - 31005	91.5	99.3	80.8	91.8	92.5	85.0	97.3	93.3	91.4	
4	J H - 3964	88.0	101.5	81.8	92.3	90.3	83.7	98.0	94.3	89.1	
5	A H - 24007	87.5	89.0	83.0	89.3	90.3	85.0	95.8	92.7	91.2	
6	A H - 01411	89.0	100.8	83.3	91.8	91.5	84.0	95.0	93.0	88.9	
7	KAVERI - 2020	87.0	85.8	82.5	90.8	91.8	84.7	96.8	95.0	91.9	
8	M C H - 15	90.0	103.5	82.0	91.5	101.8	84.3	97.8	94.0	88.2	
9	J K M H - 1701	86.5	99.0	81.0	92.5	94.3	84.3	97.8	94.0	91.2	
10	X - 2097	89.5	89.0	82.0	90.3	98.0	84.7	95.8	94.3	90.4	
	CHECKS:										
11	KIRAN	87.8	93.8	82.3	91.3	90.0	84.3	94.5	94.3	89.8	
12	MAHI KANCHAN	76.3	87.5	79.8	92.8	89.0	82.7	91.8	89.0	86.0	
13	PARKASH	86.3	95.5	83.8	92.0	92.8	83.7	97.5	94.3	90.5	
14	X - 3342	87.8	98.3	82.0	92.0	92.0	82.0	97.0	93.5	90.5	
	MEAN LOCATION	87.1	95.7	82.1	91.2	93.9	84.1	96.3	93.5	90.5	
	C.D. AT 5% =	1.4	2.8	2.2	1.7	2.1	2.0	1.9	2.6	2.1	
	C.V. % =	1.4	2.0	1.9	1.3	2.0	1.4	1.9	1.6	2.1	
	F (Prob)	.000	.000	.026	.000	.000	.000	.000	.000	.000	

Sl NO	PEDIGREE	MOISTURE % AT HARVEST			BANG MONS	MAND	KOLH	ZN 4 MEAN
		HYDE JKSE	HYDE KAVE	ARBH				
1	F H - 3246	13.6	31.3	13.9	20.3	18.7	20.5	20.0
2	R H - 03/702	14.6	28.5	15.0	20.4	18.8	21.4	20.3
3	J H - 31005	14.6	32.9	16.5	20.6	19.5	21.7	20.7
4	J H - 3964	14.8	29.0	16.6	20.1	19.7	19.1	20.9
5	A H - 24007	15.4	31.5	18.6	20.5	17.6	21.0	20.4
6	A H - 01411	15.4	33.8	15.6	20.7	20.0	20.9	21.4
7	KAVERI - 2020	16.3	26.3	17.1	20.5	19.4	20.5	20.0
8	M C H - 15	16.9	33.5	17.3	20.1	19.7	20.3	21.0
9	J K M H - 1701	15.9	34.0	21.3	20.1	18.4	20.3	21.4
10	X - 2097	15.9	32.3	18.3	20.3	19.2	22.8	21.7
	CHECKS:							
11	KIRAN	13.9	30.8	18.1	20.3	19.6	19.4	20.6
12	MAHI KANCHAN	15.5	30.0	14.1	20.5	19.0	15.9	19.9
13	PARKASH	14.7	26.8	16.5	20.8	18.6	18.5	19.9
14	X - 3342	15.5	30.8	17.8	20.4	19.6	20.1	20.9
	MEAN LOCATION	15.0	30.9	17.8	20.4	19.1	20.1	20.9
	C.D. AT 5% =	0.4	3.8	1.7	0.9	1.8	1.6	2.1
	C.V. % =	1.8	8.7	7.2	3.2	5.6	7.7	2.1
	F (Prob)	.000	.002	.000	.926	.262	.007	.000

TABLE NO. 18 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)				KARI	AHME SONA	BANG MONS	MAND	COIM	KOLH	ZN 4 MEAN
		KANC BAKA	HYDE JKSE	HYDE KAVE	HYDE KAVE							
1	F H - 3246	224	200	205	144	188	191	194	151	173	186	
2	R - 03/702	230	200	177	150	195	164	184	121	157	175	
3	J H - 31005	239	210	207	129	201	195	196	146	173	188	
4	J H - 3964	240	214	207	141	203	185	200	148	180	189	
5	A H - 24007	248	213	204	131	189	185	197	148	170	184	
6	A H - 01411	240	200	198	117	196	198	193	143	162	182	
7	KAVERI - 2020	240	214	188	144	195	170	188	141	162	191	
8	M C H - 15	244	223	210	137	184	220	196	146	165	193	
9	J K H - 1701	246	219	212	154	194	218	198	132	163	191	
10	X - 2097	260	240	223	142	183	255	212	167	175	206	
	CHECKS:											
11	KIRAN KANCHAN	249	209	204	144	194	175	194	154	178	189	
12	MAHI KANCHAN	245	220	222	143	203	184	215	140	177	194	
13	PARKASH	254	235	220	129	179	204	208	143	175	194	
14	X - 3342	250	226	199	156	185	230	204	143	168	196	
	MEAN LOCATION	244	226	209	142	191	206	201	146	172	192	
	C.D. AT 5%	11.0	9.5	20.2	11.0	8.6	27.6	20.5	8.1	22.6	15.4	
	C.V. %	3.2	3.1	6.8	5.4	3.2	9.5	6.2	3.9	7.9	-	
	F (Prob)	.000	.000	.001	.000	.000	.000	.242	.000	.595	-	

SI NO	PEDIGREE	EAR HEIGHT (cm)				KARI	AHME SONA	BANG MONS	MAND	COIM	KOLH	ZN 4 MEAN
		KANC BAKA	HYDE JKSE	HYDE KAVE	HYDE KAVE							
1	F H - 3246	89	70	66	50	85	88	82	68	72	74	
2	R - 03/702	89	83	51	47	94	69	77	62	72	72	
3	J H - 31005	110	94	93	47	81	131	103	71	80	90	
4	J H - 3964	101	94	72	47	93	96	95	64	87	83	
5	A H - 24007	109	74	72	44	90	105	95	77	82	87	
6	A H - 01411	198	94	89	44	78	124	104	74	75	87	
7	KAVERI - 2020	198	86	59	44	93	129	84	70	70	75	
8	M C H - 15	198	86	86	47	99	125	100	76	83	91	
9	J K H - 1701	198	81	66	47	88	198	86	68	67	77	
10	X - 2097	111	74	71	45	98	109	106	72	72	84	
	CHECKS:											
11	KIRAN KANCHAN	116	90	79	49	95	96	102	71	88	87	
12	MAHI KANCHAN	198	75	79	44	90	130	106	76	77	81	
13	PARKASH	113	90	88	50	94	86	103	77	77	91	
14	X - 3342	100	75	67	42	91	106	99	66	77	80	
	MEAN LOCATION	102	82	74	46	90	108	95	71	78	83	
	C.D. AT 5%	11.5	6.7	6.9	11.2	5.8	24.5	15.4	6.0	15.8	11.5	
	C.V. %	17.9	5.8	6.6	17.1	4.5	16.1	9.8	6.0	12.3	-	
	F (Prob)	.000	.000	.000	.870	.000	.000	.008	.000	.378	-	

TABLE NO. 18 (CONT.)

Sl NO	PEDIGREE	EAR NO. / PLANT		AHME BANG		COIM		KOLH		ZN 4	H. turcicum *		H. may *
		KANC HYDE BAKA	HYDE KAVE	KARI	SONA	MONS	MAND	COIM	KOLH	MAND	COIM	KOLH	ZN 4
1	F H - 3246	1.02	1.00	0.95	1.12	0.98	1.04	0.82	0.99	0.99	1.7	2.8	2.0
2	R H - 03/702	1.01	1.02	0.91	1.18	0.98	1.01	0.86	0.99	0.99	2.8	2.8	2.0
3	J H - 31005	1.00	0.99	0.91	1.18	0.98	1.01	0.86	0.99	0.99	2.8	2.8	2.0
4	J H - 3964	1.00	0.97	0.79	1.17	0.93	1.01	0.81	0.98	0.97	2.8	2.8	2.7
5	A H - 24007	1.00	1.05	0.90	1.09	0.88	1.01	0.74	0.91	0.96	2.8	2.8	2.0
6	A H - 01411	1.02	1.00	0.90	1.03	0.97	1.03	0.63	0.92	0.95	2.8	2.8	2.3
7	KAVERI - 2020	1.08	0.95	1.02	1.07	0.98	1.03	0.89	0.94	0.98	2.8	2.8	2.0
8	M C H - 15	1.02	0.98	1.04	1.15	1.03	1.00	0.88	0.96	1.01	2.8	2.8	2.0
9	J K M H - 1701	1.02	1.05	0.92	1.18	0.93	1.00	0.90	0.91	0.99	2.8	2.8	2.0
10	X - 2097	0.99	0.95	0.86	1.18	0.96	0.97	0.70	0.96	0.95	2.8	2.8	1.0
CHECKS:													
11	KIRAN	1.04	1.02	0.95	1.24	0.98	0.96	0.65	1.02	0.99	2.7	3.0	2.0
12	MAHI KANCHAN	1.03	1.02	0.86	1.16	0.93	1.11	0.71	1.03	0.98	3.2	3.0	3.0
13	PARKASH	1.00	0.98	0.84	1.09	1.02	0.93	0.88	0.97	0.97	2.8	2.8	1.7
14	X - 3342	1.02	1.00	0.86	1.16	0.98	1.03	0.88	1.02	1.00	2.3	3.0	1.0
MEAN LOCATION													
C.V. AT 5% =													
F (Prob) =													

Sl NO	PEDIGREE	STAND AT HARVEST		AHME BANG		COIM		KOLH		ZN 4	H. turcicum *		H. may *
		KANC BAKA	HYDE KAVE	KARI	SONA	MONS	MAND	COIM	KOLH	MAND	COIM	KOLH	ZN 4
1	F H - 3246	59	76	64	33	41	43	33	41	43	52	93	63
2	R H - 03/702	58	76	64	32	41	47	32	41	47	49	82	59
3	J H - 31005	65	77	74	31	41	44	31	41	44	49	84	64
4	J H - 3964	64	80	74	32	40	45	32	40	45	38	71	68
5	A H - 24007	62	74	62	30	40	49	30	40	45	48	76	59
6	A H - 01411	63	73	68	32	40	47	32	40	47	49	74	68
7	KAVERI - 2020	57	77	71	33	41	45	33	41	45	59	85	61
8	M C H - 15	70	78	76	33	41	53	33	41	53	48	85	62
9	J K M H - 1701	63	84	68	32	40	54	32	40	54	48	85	62
10	X - 2097	64	78	71	32	40	41	32	40	41	51	82	62
CHECKS:													
11	KIRAN	48	67	58	32	40	44	32	40	44	46	75	55
12	MAHI KANCHAN	44	77	57	32	41	45	32	41	45	48	85	57
13	PARKASH	56	73	61	32	41	44	32	41	44	47	77	58
14	X - 3342	63	78	76	32	41	51	32	41	51	47	87	63
MEAN LOCATION													
C.V. AT 5% =													
F (Prob) =													

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 5 ENTRIES)

TABLE NO. 19 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN			SUPERIORITY OVER THE PARKASH			ZN 5 MEAN
		UDAI	KHED GODH	CHHI	ZN 5 MEAN	UDAI	KHED GODH	
1	J H - 31036	126.77	66.04	31.63	64.26	35.81	23.06	13.05
2	J K M H - 1701	179.78	95.92	85.45	112.15	67.55	45.20	46.01
3	X - 2097	156.32	93.19	74.10	99.75	53.50	43.18	37.47
CHECKS:								
4	KIRAN	15.65	9.35	7.30	9.93	-	-	-
5	MAHI KANCHAN	-	-	-	-	-	-	-
6	PARKASH	66.98	34.93	39.18	45.30	-	-	-
7	X - 3342	34.43	49.30	37.81	39.68	-	10.65	-

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE X - 3342			DAYS TO 50% POLLEN SHED			ZN 5 MEAN	
		UDAI	KHED GODH	CHHI	UDAI	KHED GODH	CHHI		
1	J H - 31036	68.69	11.22	-	17.59	50.8	51.8	53.8	52.1
2	J K M H - 1701	108.12	31.23	34.57	51.88	50.8	54.3	52.3	52.4
3	X - 2097	90.68	29.40	26.33	43.00	50.3	50.8	51.3	50.8
CHECKS:									
4	KIRAN	-	-	-	-	49.3	49.8	53.3	50.8
5	MAHI KANCHAN	-	-	-	-	48.5	48.0	50.5	49.0
6	PARKASH	24.22	-	1.00	4.02	49.5	50.8	50.8	50.3
7	X - 3342	-	-	-	-	49.0	49.3	49.5	49.3
MEAN LOCATION									
C.D. AT 5%		-	-	-	-	1.0	3.1	1.6	1.9
C.V. %		-	-	-	-	1.3	4.2	2.1	-
F (Prob)		-	-	-	-	.000	.011	.000	-

TABLE NO. 19 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK				
		UDAI	GODH	CHHI	UDAI	GODH	CHHI	UDAI	GODH	CHHI		
1	J H - 31036	50.8	51.8	53.8	52.1	54.5	54.3	53.8	82.8	75.0	84.3	80.7
2	J K M H - 1701	50.8	54.3	52.3	52.4	54.0	54.5	53.7	84.0	76.5	85.5	82.0
3	X - 2097	50.3	50.8	51.3	50.8	53.5	52.8	52.8	83.0	81.5	84.5	83.0
CHECKS:												
4	KIRAN	49.3	49.8	53.3	50.8	53.0	54.8	53.1	79.0	78.0	82.0	79.7
5	MAHI KANCHAN	48.5	48.0	50.5	49.0	52.0	53.3	51.9	78.5	78.3	80.8	79.2
6	PARKASH	49.5	50.8	50.8	50.3	53.8	52.5	52.6	80.3	78.5	84.0	80.9
7	X - 3342	49.0	49.3	49.5	49.3	51.0	52.0	51.7	79.0	77.8	81.3	79.3
MEAN LOCATION												
	C.D. AT 5% =	1.0	3.1	1.6	1.9	0.9	1.8	1.5	1.1	6.2	1.8	3.0
	C.V. % =	1.3	4.2	2.1	-	1.2	2.3	1.9	0.9	5.5	1.4	-
	F (Prob)	.000	.011	.000	-	.000	.018	.000	.000	.679	.000	-

Sl NO	PEDIGREE	MOISTURE & AT HARVEST			PLANT ASPECT *			EAR ASPECT *					
		UDAI	GODH	CHHI	UDAI	GODH	CHHI	UDAI	GODH	CHHI			
1	J H - 31036	20.2	13.4	18.5	17.4	2.0	2.0	1.0	1.7	2.0	2.8	1.3	2.0
2	J K M H - 1701	18.7	12.8	19.9	17.1	1.5	1.8	1.0	1.4	1.4	2.5	1.0	1.6
3	X - 2097	19.8	12.8	18.9	17.2	1.8	2.0	1.0	1.6	2.0	2.5	1.5	2.0
CHECKS:													
4	KIRAN	17.0	10.3	16.8	14.7	2.8	2.8	1.8	2.4	3.6	3.8	1.3	2.9
5	MAHI KANCHAN	17.6	12.3	13.5	14.5	3.1	3.0	2.0	2.7	3.6	2.3	1.5	2.5
6	PARKASH	18.1	15.1	16.8	16.7	2.3	2.5	1.3	2.0	2.0	2.8	1.0	1.9
7	X - 3342	17.9	13.3	17.1	16.1	2.8	2.0	1.5	2.1	2.5	3.0	1.0	2.2
MEAN LOCATION													
	C.D. AT 5% =	0.5	3.0	0.8	1.4	0.5	0.7	0.1	0.4	0.6	1.3	0.2	0.7
	C.V. % =	2.0	15.5	3.2	-	15.1	22.5	7.7	-	17.5	33.0	10.9	-
	F (Prob)	.000	.001	.000	-	.000	.030	.000	-	.000	.611	.000	-

TABLE NO. 19 (CONT.)

Sl NO	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 5 MEAN
		UDAI	CHHI	ZN 5 MEAN	UDAI	GODH	CHHI	UDAI	GODH	CHHI	
1	J H - 31036	2.6	1.8	2.2	2.0	2.0	1.3	2.39	197	176	204
2	J K M H - 1701	1.6	1.0	1.3	1.9	1.8	1.0	235	198	180	204
3	X - 2097	2.0	1.5	1.8	2.3	2.0	1.0	249	207	200	219
CHECKS:											
4	KIRAN	2.5	1.8	2.1	2.6	2.8	1.8	226	189	183	199
5	MAHI KANCHAN	3.1	1.8	2.4	2.8	2.8	1.5	238	193	186	205
6	PARKASH	2.3	1.8	2.0	2.1	2.0	1.5	249	194	188	210
7	X - 3342	2.5	1.3	1.9	2.5	2.0	1.0	241	203	160	201
MEAN LOCATION											
	C.D. AT 5%	0.5	0.3	0.4	0.4	0.4	0.2	238	195	181	204
	C.V. %	14.8	14.5	~	12.5	14.2	11.8	4.6	6.2	5.8	16.1
	F (Prob)	.000	.000	-	.003	.001	.000	.001	.120	.000	-

Sl NO	PEDIGREE	EAR HEIGHT (cm)			EAR NO. / PLANT			STAND AT HARVEST			ZN 5 MEAN	
		UDAI	GODH	CHHI	ZN 5 MEAN	UDAI	GODH	CHHI	UDAI	GODH		CHHI
1	J H - 31036	101	83	95	93	1.02	0.83	0.97	73	85	80	79
2	J K M H - 1701	88	78	81	82	1.01	0.84	0.96	69	84	79	77
3	X - 2097	98	86	91	91	0.98	0.83	0.99	71	92	73	78
CHECKS:												
4	KIRAN	98	74	91	88	0.95	0.80	0.95	58	75	72	68
5	MAHI KANCHAN	100	83	91	91	1.03	0.82	1.02	65	90	76	77
6	PARKASH	118	83	95	99	1.02	0.82	1.02	57	86	65	69
7	X - 3342	105	86	83	91	1.04	0.85	1.03	64	86	81	77
MEAN LOCATION												
	C.D. AT 5%	10.9	11.3	8.7	10.3	-	-	-	4.5	11.6	10.2	8.7
	C.V. %	7.7	9.9	6.7	-	-	-	-	4.6	9.6	9.3	-
	F (Prob)	.000	.011	.023	-	-	-	-	.000	.108	.105	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 3 ENTRIES)

TABLE NO. 20 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD %			SUPERIORITY OVER THE			HIM - 129			Zn 1			
		ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ALMO	BAJA	KANG	ALMO	BAJA	KANG
1	F H - 3211	129.36	-	7.25	39.68	69.92	-	55.24	-	46.56	-	-	-	-
2	B V M - 7	29.82	-	-	-	-	-	-	-	-	-	-	-	-
CHECKS:														
3	SURYA	-	-	-	-	-	-	-	-	-	-	-	-	-
4	KIRAN	-	-	-	-	-	-	-	-	-	-	-	-	-
5	HIM - 129	34.98	-	-	-	-	-	1.89	44.73	4.93	-	-	-	-

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK						
		ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN	
1	F H - 3211	47.3	66.0	44.3	52.5	48.3	68.5	49.5	55.4	98.5	98.5	87.5	94.8	
2	B V M - 7	48.0	66.3	46.3	53.5	49.3	69.0	50.8	56.3	91.5	100.3	87.0	92.9	
CHECKS:														
3	SURYA	47.8	66.5	44.8	53.0	48.8	69.5	49.8	56.0	89.0	100.0	89.3	92.8	
4	KIRAN	49.8	65.8	49.0	54.8	50.8	68.5	54.0	57.8	90.3	99.5	88.8	92.8	
5	HIM - 129	44.5	63.3	45.0	50.9	45.5	65.5	50.3	53.8	89.8	97.3	87.3	91.4	
MEAN LOCATION														
	C.D. AT 5% =	1.2	2.1	0.8	1.3	1.2	2.6	0.9	1.6	1.3	3.1	1.4	1.9	
	C.V. % =	1.6	2.0	1.1	-	1.7	2.5	1.1	-	0.9	2.1	1.0	-	
	F (Prob)	.000	.030	.000	-	.000	.045	.000	-	.000	.273	.014	-	

S1 NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASPECT *			EAR ASPECT *						
		ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN	ALMO	BAJA	KANG	ZN 1 MEAN	
1	F H - 3211	35.4	18.8	17.4	23.9	2.5	2.9	2.9	2.7	2.3	2.8	2.5	2.8	
2	B V M - 7	31.1	18.3	21.2	23.5	2.6	2.8	2.8	2.7	2.7	2.9	2.8	2.8	
CHECKS:														
3	SURYA	26.0	17.3	18.1	20.5	2.8	3.1	3.0	3.0	2.8	3.4	3.1	3.1	
4	KIRAN	30.1	18.2	18.9	22.6	2.7	2.9	2.8	2.8	2.5	2.8	2.6	2.8	
5	HIM - 129	29.5	17.2	20.3	22.3	2.6	2.9	2.8	2.8	2.6	2.9	2.8	2.8	
MEAN LOCATION														
	C.D. AT 5% =	30.4	18.1	19.2	22.6	0.3	0.5	0.4	0.4	0.2	0.4	0.3	0.3	
	C.V. % =	1.5	0.8	5.7	2.7	6.8	11.3	-	-	4.2	9.6	-	-	
	F (Prob)	3.2	2.8	19.4	-	.193	.611	-	-	.000	.032	-	-	
		.000	.001	.600	-			-	-			-	-	

TABLE NO. 20 (CONT.)

SI NO	PEDIGREE	HUSK COVER *			UNIFORMITY *			PLANT HEIGHT (cm)			ZN 1 MEAN
		ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	
1	F H - 3211	1.8	2.0	1.9	2.0	1.8	1.9	223	135	227	195
2	B V M - 7	2.0	2.3	2.1	2.6	2.9	2.7	225	157	262	215
CHECKS:											
3	SURYA	2.0	2.3	2.1	2.7	2.6	2.6	219	148	237	201
4	KIRAN	2.0	2.1	2.1	2.8	2.9	2.8	228	152	276	219
5	HIM - 129	2.2	2.4	2.3	2.5	2.0	2.3	205	151	218	191
MEAN LOCATION											
	C.D. AT 5%	0.1	0.5	0.3	0.2	0.5	0.3	7.1	11.9	23.0	14.0
	C.V. %	4.7	14.8	-	4.7	12.3	-	2.1	5.2	6.1	-
	F (Prob)	.013	.568	-	.000	.000	-	.000	.019	.001	-

SI NO	PEDIGREE	EAR HEIGHT (cm)			EAR NO. / PLANT			H. turcicum *			ZN 1 MEAN
		ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	
1	F H - 3211	103	41	111	85	1.05	1.04	2.0	2.0	2.4	2.2
2	B V M - 7	113	68	140	107	1.00	1.02	2.7	2.7	2.1	2.4
CHECKS:											
3	SURYA	111	69	117	99	1.01	0.99	3.7	3.7	2.6	3.2
4	KIRAN	117	61	153	110	1.03	0.97	3.7	3.7	2.9	3.3
5	HIM - 129	103	53	112	89	1.02	1.03	2.2	2.2	1.6	1.9
MEAN LOCATION											
	C.D. AT 5%	6.0	15.5	11.5	11.0	-	-	0.3	0.3	1.1	0.7
	C.V. %	3.6	17.3	5.9	-	-	-	7.1	7.1	29.4	-
	F (Prob)	.001	.011	.000	-	-	-	.000	.000	.161	-

SI NO	PEDIGREE	H. maydis *			STAND AT HARVEST			ZN 1 MEAN
		ALMO	BAJA	ZN 1 MEAN	ALMO	BAJA	ZN 1 MEAN	
1	F H - 3211	1.3	1.4	1.4	37	57	50	
2	B V M - 7	1.9	1.6	1.8	35	55	43	
CHECKS:								
3	SURYA	2.1	1.4	1.8	30	55	41	
4	KIRAN	2.0	1.3	1.6	33	52	37	
5	HIM - 129	1.5	1.4	1.4	36	56	43	
MEAN LOCATION								
	C.D. AT 5%	1.8	0.4	0.3	34	55	45	
	C.V. %	0.2	20.6	-	3.5	3.1	14.6	
	F (Prob)	7.1	.494	-	6.7	3.7	21.1	
		.000		-	.011	.054	.035	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 21

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-II, AT LUDHIANA, KARNAL, PANTNAGAR, KANPUR IN AET 1st YEAR TRIAL NO. TR68Z2 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE											
		LUDH		KARN		PANT		KANP		R		ZN 2	
		R	R	R	R	R	R	R	R	R	R	R	R
1	F H - 3211	6408	1	3293	5	4115	5	5244	1	4765	1	4765	1
2	B V M - 7	4997	5	3738	3	3911	7	4622	5	4317	5	4317	5
3	H K H - 1183	6318	2	3861	2	4228	4	4644	4	4763	2	4763	2
4	A H - 23021	5273	4	3617	4	4310	3	4822	2	4505	4	4505	4
5	A H - 23025	5708	3	4196	1	4346	2	4578	6	4707	3	4707	3
CHECKS:													
6	SURYA	4528	6	3268	6	4024	6	4711	3	4133	6	4133	6
7	HIM - 129	3793	7	2289	7	4379	1	4511	7	3743	7	3743	7
	MEAN YIELD=	5289		3466		4188		4733		4419		4419	
	MEAN STAND	64		42		47		75		57		57	
	C.D. AT 5%	613		286		651		1323		718		718	
	C.V. %	7.86		4.68		10.54		15.85		-		-	
	F (Prob)	.001		.000		.001		.825		-		-	
	PLOT SIZE=	10.92		9.00		15.00		12.00		-		-	
AGRONOMY DATA:													
	SOWING DATE (2004)	7-07		20-06		-		24-06		-		-	
	HARVEST DATE (2004)	20-10		21-09		6-10		21-09		-		-	
	IRRIGATION Nos	-		3		-		-		-		-	
	FERTILIZER APPLIED N	88		150		150		80		-		-	
	P	40		60		460		40		-		-	
	K	-		40		-		40		-		-	

TABLE NO. 21 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SURYA					ZN 2 MEAN
		LODH	KARN	PANT	KANP	ZN 2	
1	F H - 3211	41.54	0.77	2.27	11.32	15.31	
2	B V M - 7	10.37	14.40	-	-	4.46	
3	H K H - 1183	39.55	18.16	5.08	-	15.25	
4	A H - 23021	16.45	10.68	7.12	2.36	9.02	
5	A H - 23025	26.06	28.40	8.02	-	13.90	
CHECKS:							
6	SURYA	-	-	-	-	-	
7	HIM - 129	-	-	8.84	-	-	

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129					ZN 2 MEAN
		LODH	KARN	PANT	KANP	ZN 2	
1	F H - 3211	68.98	43.88	-	16.26	27.31	
2	B V M - 7	31.76	63.34	-	2.46	15.34	
3	H K H - 1183	66.60	68.70	-	2.96	27.25	
4	A H - 23021	39.03	58.02	-	6.90	20.37	
5	A H - 23025	50.49	83.33	-	1.48	25.76	
CHECKS:							
6	SURYA	19.39	42.78	-	4.43	10.41	
7	HIM - 129	-	-	-	-	-	

TABLE NO. 21 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK						
		LJDH	KARN	KAMP	ZN 2 MEAN	LUDH	KARN	PANT	KAMP	ZN 2 MEAN	LUDH	KARN	KAMP	ZN 2 MEAN
1	F H - 3211	43.0	47.7	44.0	44.9	44.0	50.7	51.5	50.7	49.2	76.8	78.0	77.7	77.5
2	B V M - 7	46.0	47.7	47.3	47.0	47.3	50.3	54.0	51.7	50.8	77.8	80.0	80.7	79.5
3	H K H - 1183	50.8	48.7	47.3	48.9	52.0	51.7	59.5	52.0	53.8	84.0	84.0	79.0	82.3
4	A H - 23021	46.5	49.0	44.0	46.5	48.3	52.0	55.0	49.0	51.1	79.8	81.0	77.7	79.5
5	A H - 23025	47.5	48.7	47.7	47.9	49.6	51.7	55.8	52.3	52.4	82.8	81.3	80.7	81.6
CHECKS:														
6	SURYA	44.8	48.0	49.0	47.3	46.3	51.0	53.5	52.0	50.7	75.8	78.3	80.3	78.1
7	HIM - 129	42.5	47.7	43.7	44.6	43.8	50.7	51.8	50.7	49.2	72.0	82.0	74.7	76.2
MEAN LOCATION														
C.D. AT 5% =		1.4	0.7	2.2	1.5	1.4	0.9	2.0	3.2	1.9	2.6	3.9	4.8	3.8
C.V. % =		2.1	0.9	2.7	-	2.0	1.0	2.5	3.5	-	2.3	2.7	3.4	-
F (Prob)		.000	.005	.001	-	.000	.011	.000	.331	-	.000	.067	.150	-

SI NO	PEDIGREE	MOISTURE % AT HARVEST			PLANT ASP.*			EAR ASP.*			HUSK COV.*			UNIFO.*			
		LJDH	PANT	MEAN	ZN 2 MEAN	LUDH	ASP.*	KARN	KAMP	LUDH	ASP.*	KARN	KAMP	LUDH	ASP.*	KARN	KAMP
1	F H - 3211	21.4	29.7	25.5	25.5	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.5	3.5	3.5	3.5	3.5
2	B V M - 7	21.5	28.5	25.0	25.0	3.0	3.0	2.8	3.0	3.0	3.0	3.0	3.2	3.2	3.2	3.2	3.2
3	H K H - 1183	22.1	26.5	24.3	24.3	2.5	2.5	2.5	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
4	A H - 23021	21.5	29.0	25.3	25.3	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.7	2.7	2.7	2.7	2.7
5	A H - 23025	22.0	30.0	26.0	26.0	3.3	3.3	3.3	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.3	3.3
CHECKS:																	
6	SURYA	21.3	27.8	24.5	24.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2	3.2	3.2	3.2	3.2
7	HIM - 129	21.0	26.0	23.5	23.5	3.2	3.2	3.2	3.0	3.0	3.0	3.0	3.1	3.1	3.1	3.1	3.1
MEAN LOCATION																	
C.D. AT 5% =		0.2	2.1	1.1	1.1	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
C.V. % =		0.6	5.0	-	-	5.6	6.9	6.9	6.7	6.7	6.7	6.7	7.6	7.6	7.6	7.6	7.6
F (Prob)		.000	.005	-	-	.000	.001	.001	.007	.007	.007	.007	.014	.014	.014	.014	.014

TABLE NO. 21 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 2 MEAN
	LU DH	KARN	PANT	KANP	LU DH	KARN	PANT	KANP	
1 F H - 3211	179	153	206	163	74	65	68	73	70
2 B V M - 7	189	177	232	174	98	75	101	73	87
3 H K H - 1183	189	175	221	166	85	85	89	71	83
4 A H - 23021	189	170	222	157	105	77	92	74	87
5 A H - 23025	201	183	223	138	108	78	99	58	86
CHECKS:									
6 SURYA	188	157	214	176	95	67	85	97	86
7 HIM - 129	165	158	196	172	83	67	74	82	76
MEAN LOCATION									
C.D. AT 5%	16.5	9.2	22.0	31.6	16.9	7.5	13.1	17.7	13.8
C.V. %	6.0	3.1	6.9	10.8	12.3	5.8	10.2	13.1	-
F (Prob)	.010	.000	.056	.225	.005	.001	.000	.016	-

S1 NO PEDIGREE	EAR NO. /PLANT	STAND AT HARVEST				ZN 2 MEAN
		LU DH	KARN	PANT	KANP	
1 F H - 3211	1.12	69	34	47	77	57
2 B V M - 7	0.98	65	40	52	77	58
3 H K H - 1183	1.10	49	43	27	74	48
4 A H - 23021	1.02	69	42	52	74	59
5 A H - 23025	1.05	72	51	51	74	62
CHECKS:						
6 SURYA	1.02	56	42	36	73	52
7 HIM - 129	1.08	69	43	69	74	64
MEAN LOCATION						
C.D. AT 5%	-	64	42	47	75	57
C.V. %	-	10.9	5.4	14.5	2.2	8.3
F (Prob)	-	11.4	7.2	20.6	1.7	-
	-	.002	.001	.000	.021	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 22

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRID & COMPOSITE IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR IN AET 1st YEAR, TRIAL No. TR68Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3			
		BELI	R	VARA	R	DHOL	R	KUSH	R	JASH	R	AMBI	R	MEAN	R
1	B V M - 7	3680	2	3241	3	3511	4	3064	2	2605	4	4477	2	3430	3
2	A H - 23021	3591	3	2464	5	3889	2	2496	5	2593	5	4318	4	3225	5
CHECKS:															
3	SURYA	3252	4	3004	4	3884	3	2595	4	3467	1	4025	5	3371	4
4	KIRAN	4678	1	3559	2	4364	1	2652	3	3282	2	4593	1	3855	1
5	HIM - 129	3165	5	4422	1	3026	5	3131	1	2685	3	4352	3	3463	2
	MEAN YIELD=	3673		3338		3735		2788		2927		4353		3469	
	MEAN STAND	67		65		77		60		62		73		67	
	C.D. AT 5% =	356		180		791		989		329		810		576	
	C.V. % =	6.39		2.92		13.97		23.39		7.42		12.27		-	
	F (Prob)	.000		.000		.053		.302		.003		.160		-	
	PLOT SIZE=	12.00		15.00		15.00		15.00		12.00		12.00		-	
AGRONOMY DATA:															
	SOWING DATE(2004)	28-06		28-06		23-06		13-07		3-07		8-07		-	
	HARVEST DATE(2004)	30-09		1-10		21-10		18-10		19-10		-		-	
	IRRIGATION Nos	2		2		-		2		-		-		-	
	FERTILIZER APPLIED N	120		80		100		120		120		80		-	
	P	60		40		60		60		60		50		-	
	K	60		40		40		40		60		30		-	

TABLE NO. 22 (CONT.)

Sl NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 3 MEAN							
	GORA	BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN		GORA	BELI	VARA	DHOL	KUSH	JASH	AMBI
1 B V M - 7	51.5	50.5	50.3	45.0	44.8	45.3	47.9	53.5	56.5	52.0	47.0	48.8	48.0	51.0		
2 A H - 23021	52.8	52.0	48.8	46.0	45.8	45.8	48.5	54.8	57.5	50.5	47.5	50.0	48.8	51.5		
CHECKS:																
3 SURYA	50.0	45.5	47.8	43.5	43.3	44.0	45.7	52.5	50.5	50.5	44.5	46.5	47.3	48.6		
4 KIRAN	52.8	50.5	49.0	45.8	45.8	46.3	48.3	55.0	56.0	51.5	47.5	49.3	49.3	51.4		
5 HIM - 129	48.5	44.5	46.0	41.8	40.3	41.0	43.7	50.8	49.0	48.0	43.0	43.5	45.0	46.5		
MEAN LOCA.	51.1	48.6	48.3	44.4	44.0	44.5	46.8	53.3	53.9	50.5	45.9	47.6	47.7	49.8		
C.D. AT 5%	0.9	0.9	1.4	1.9	1.2	2.0	1.4	1.4	0.5	1.9	2.3	1.8	1.4	1.5		
C.V. %	1.2	1.0	1.9	2.8	1.8	2.9	-	1.7	0.5	2.4	3.3	2.4	1.8	-		
F (Prob)	.000	.000	.000	.002	.000	.001	-	.000	.000	.006	.003	.000	.000	-		

Sl NO PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				ZN 3 MEAN				
	GORA	BELI	VARA	DHOL	JASH	AMBI	MEAN	GORA		BELI	VARA	KUSH	JASH
1 B V M - 7	76.3	86.0	79.8	80.0	80.8	80.8	80.6	21.0	29.3	25.9	17.0	23.3	
2 A H - 23021	76.3	88.5	84.8	80.8	80.8	80.8	82.2	19.4	35.2	25.6	17.5	24.4	
CHECKS:													
3 SURYA	75.8	84.0	79.5	78.8	81.3	79.8	79.8	19.4	27.3	23.5	17.0	21.8	
4 KIRAN	77.8	86.5	81.8	81.8	82.0	81.9	81.9	20.6	30.1	28.0	18.4	24.3	
5 HIM - 129	76.0	82.5	75.3	78.3	77.8	77.9	77.9	20.4	29.1	23.5	17.6	22.6	
MEAN LOCATION	76.4	85.5	80.2	79.9	80.5	80.5	80.5	20.1	30.2	25.3	17.5	23.3	
C.D. AT 5%	0.7	1.4	3.7	1.8	2.6	2.0	2.0	1.0	0.0	2.9	0.2	1.0	
C.V. %	0.6	0.9	3.0	1.5	2.1	-	-	3.3	0.0	7.5	0.7	-	
F (Prob)	.000	.000	.002	.008	.038	-	-	.014	.000	.029	.000	-	

TABLE NO. 22 (CONT.)

Sl No	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 3 MEAN			
		BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN	BELI	VARA	DHOL		KUSH	JASH	AMBI
1	B V M - 7	2.5	3.3	2.3	2.6	4.3	2.4	2.9	2.5	3.3	2.4	2.3	4.5	2.5	2.9
2	A H - 23021	2.8	2.5	2.3	2.8	4.3	2.5	2.8	2.3	2.8	2.0	2.3	3.5	2.5	2.5
CHECKS:															
3	SURYA	2.8	2.0	2.4	3.0	3.5	2.6	2.7	2.9	2.8	2.4	2.5	4.0	2.3	2.8
4	KIRAN	2.3	3.0	2.4	3.0	3.0	2.3	2.6	2.5	3.3	2.3	2.5	2.8	2.3	2.6
5	HIM - 129	2.6	2.3	2.6	3.0	4.5	2.2	2.9	2.9	2.3	2.8	2.5	4.5	2.4	2.9
MEAN LOCAT.															
	C.D. AT 5%	0.6	0.3	0.7	0.2	0.7	0.3	0.5	0.3	0.5	0.7	0.3	0.8	0.4	0.5
	C.V. %	14.2	5.3	18.9	5.5	11.7	7.0	-	8.0	9.6	19.9	7.6	14.2	10.8	-
	F (Prob)	.320	.000	.761	.013	.003	.027	-	.004	.010	.310	.124	.003	.581	-

Sl No	PEDIGREE	HUSK COVER *					UNIFORMITY *					ZN 3 MEAN	
		BELI	VARA	DHOL	JASH	AMBI	ZN 3 MEAN	BELI	VARA	DHOL	JASH		AMBI
1	B V M - 7	2.3	2.3	2.6	4.0	2.6	2.8	3.0	3.3	2.6	4.5	2.5	3.2
2	A H - 23021	2.8	3.0	2.3	3.5	2.6	2.8	3.0	3.3	2.8	3.5	2.6	3.0
CHECKS:													
3	SURYA	2.6	2.8	2.1	3.3	2.4	2.6	3.0	3.0	3.0	3.8	2.4	3.0
4	KIRAN	2.0	2.8	2.6	2.5	2.5	2.5	2.4	3.3	3.4	3.0	2.3	2.8
5	HIM - 129	2.3	2.8	2.4	3.3	2.3	2.6	2.8	3.0	2.5	3.5	2.3	2.8
MEAN LOCAT.													
	C.D. AT 5%	0.8	0.4	0.8	0.9	0.3	0.7	0.5	0.3	0.7	1.0	0.3	0.6
	C.V. %	21.4	8.3	22.2	18.6	8.7	-	10.7	4.3	16.3	17.3	9.0	-
	F (Prob)	.277	.034	.603	.056	.124	-	.049	.087	.125	.063	.211	-

TABLE NO. 22 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)					EAR HEIGHT (cm)					ZN 3	
	BELI	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN	GORA BELI	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN
1 B V M - 7	140	149	196	147	199	166	53	71	96	66	69	71
2 A H - 23021	124	124	172	145	198	152	45	61	80	67	62	63
CHECKS:												
3 SURYA	129	143	175	153	192	158	47	63	77	59	62	61
4 KIRAN	148	153	179	155	203	167	58	65	86	64	72	69
5 HIM - 129	111	115	166	132	176	140	42	50	75	53	56	55
MEAN LOCATION	130	137	177	147	193	157	49	62	83	62	64	64
C.D. AT 5%	16.1	21.9	9.3	5.4	12.8	13.1	10.6	20.1	9.7	4.0	10.8	11.1
C.V. %	8.0	10.4	3.4	2.4	4.3	-	14.2	21.1	7.6	4.3	11.0	-
F (Prob)	.003	.011	.000	.000	.005	-	.036	.296	.003	.000	.052	-

S1 NO PEDIGREE	EAR NO. / PLANT					STAND AT HARVEST					ZN 3	
	GORA BELI	KUSH	AMBI	H. may.* JASH	ZN 3 MEAN	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	ZN 3 MEAN
1 B V M - 7	0.99	1.12	1.01	2.4	68	64	77	66	62	78	69	
2 A H - 23021	0.99	0.99	1.00	2.1	72	64	81	68	63	72	70	
CHECKS:												
3 SURYA	0.99	0.92	1.00	2.9	54	67	70	51	59	62	60	
4 KIRAN	0.99	0.88	1.06	3.0	75	66	77	51	64	76	68	
5 HIM - 129	0.98	1.01	1.07	2.8	67	64	81	64	65	77	69	
MEAN LOCATION	0.99	0.98	1.03	2.6	67	65	77	60	62	73	67	
C.D. AT 5%	0.0	0.1	0.0	0.4	4.6	2.0	6.7	13.4	4.2	12.0	7.2	
C.V. %	1.4	5.8	2.2	9.0	4.5	1.7	5.6	14.6	4.4	10.7	-	
F (Prob)	.816	.001	.003	.001	.000	.031	.023	.031	.102	.068	-	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 23

PERFORMANCE OF EXTAR EARLY EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-IV, AT KARIMNAGAR, ARBHAVI, MANDYA, COIMBATORE, KOLHAPUR IN TRIAL NO. TR6824 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
		KARI	R	ARBH	R	MAND	R	COIM	R	KOLH	R	MEAN	R		
1	D E H - 10103	1917	7	3533	9	5468	6	3220	4	877	11	3003	7		
2	D E H - 10303	2433	4	3932	6	5672	4	2981	6	2177	4	3439	5		
3	D E H - 10503	1826	8	3801	7	5000	9	3064	5	1516	7	3042	6		
4	D E H - 11303	1537	10	3007	10	5076	8	2386	11	934	10	2588	10		
5	F H - 3211	2426	5	5043	3	6364	1	4109	2	2788	3	4146	2		
6	B V M - 7	1373	11	3978	5	5083	7	2617	9	1688	6	2948	8		
7	H K H - 1183	3981	1	5474	1	6021	2	4381	1	3451	1	4661	1		
8	A H - 23025	2733	3	5012	4	5523	5	3810	3	3447	2	4105	3		
9	A H - 23035	2852	2	5105	2	5681	3	2733	7	1887	5	3652	4		
CHECKS:															
10	SURYA	1805	9	2965	11	4155	11	2658	8	934	9	2503	11		
11	HIM - 129	1941	6	3651	8	4740	10	2479	10	1482	8	2859	9		
	MEAN YIELD=	2257		4137		5344		3131		1926		3359			
	MEAN STAND	64		72		52		52		75		63			
	C.D. AT 5%	653		643		848		376		720		648			
	C.V. %	20.10		10.79		9.34		8.33		22.01		-			
	F (Prob)	.000		.000		.001		.000		.000		-			
	PLOT SIZE=	12.00		15.00		10.50		9.60		12.00		-			
AGRONOMY DATA:															
	SOWING DATE (2004)	14-07		5-07		24-07		30-06		17-07		-			
	HARVEST DATE (2004)	30-10		2-12		7-12		11-10		2-11		-			
	IRRIGATION Nos	-		8		6		8		-		-			
	FERTILIZER APPLIED N	100		150		150		135		100		-			
	P	80		75		75		63		50		-			
	K	60		38		40		50		30		-			

TABLE NO. 23 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SURYA							ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH			
1	D E H - 10103	6.24	19.13	31.60	21.16	-	-	19.96	
2	D E H - 10303	34.83	32.60	36.50	12.15	133.18	-	37.38	
3	D E H - 10503	1.20	28.19	20.33	15.30	62.35	-	21.50	
4	D E H - 11303	-	1.42	22.16	-	-	-	3.39	
5	F H - 3211	34.46	70.07	53.16	54.59	198.58	-	65.62	
6	B V M - 7	-	34.15	22.34	-	80.79	-	17.77	
7	H K H - 1183	120.60	84.60	44.89	64.83	269.59	-	86.21	
8	A H - 23025	51.44	69.04	32.91	43.34	269.12	-	63.98	
9	A H - 23035	58.05	72.16	36.73	2.85	102.04	-	45.88	
CHECKS:									
10	SURYA	-	-	-	-	-	-	-	
11	HIM - 129	7.54	23.12	14.08	-	58.76	-	14.19	

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE HIM - 129							ZN 4 MEAN
		KARI	ARBH	MAND	COIM	KOLH			
1	D E H - 10103	-	-	15.36	29.89	-	-	5.05	
2	D E H - 10303	25.37	7.70	19.66	20.24	46.88	-	20.30	
3	D E H - 10503	-	4.12	5.48	23.61	2.27	-	6.40	
4	D E H - 11303	-	-	7.08	-	-	-	-	
5	F H - 3211	25.03	38.14	34.26	65.74	88.07	-	45.04	
6	B V M - 7	-	8.96	7.24	5.59	13.88	-	3.13	
7	H K H - 1183	105.13	49.94	27.01	76.71	132.80	-	63.07	
8	A H - 23025	40.82	37.29	16.51	53.68	132.51	-	43.60	
9	A H - 23035	46.96	39.83	19.85	10.26	27.27	-	27.74	
CHECKS:									
10	SURYA	-	-	-	7.21	-	-	-	
11	HIM - 129	-	-	-	-	-	-	-	

TABLE NO. 23 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 4 MEAN			
		KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	KARI	ARBH		MAND	COIM	KOLH
1	D E H - 10103	42.0	53.0	42.0	41.8	61.0	48.0	46.8	53.3	42.7	45.8	63.0	50.3
2	D E H - 10303	43.5	53.0	42.0	43.5	61.3	48.7	48.5	54.5	43.7	47.5	63.3	51.5
3	D E H - 10503	42.3	53.3	42.3	41.3	58.7	47.5	46.8	53.5	43.7	45.5	60.3	50.0
4	D E H - 11303	42.8	53.0	42.0	42.5	59.3	47.9	48.3	53.0	42.3	46.5	61.3	50.3
5	F V M - 3211	43.3	53.0	43.0	41.5	63.3	48.8	48.3	53.5	44.3	45.8	65.0	51.4
6	B V M - 7	43.8	53.3	42.7	43.5	63.3	49.3	48.5	54.8	45.0	48.5	65.3	52.4
7	H K H - 1183	46.8	60.3	49.3	48.0	66.3	54.1	50.3	60.8	51.3	52.0	67.7	56.4
8	A H - 23025	46.3	57.8	47.3	48.3	65.3	53.0	50.5	58.5	49.7	51.5	67.0	55.4
9	A H - 23035	46.0	56.5	45.3	48.5	64.7	52.2	49.5	56.5	47.0	52.5	67.0	54.5
CHECKS:													
10	SURYA	43.3	53.3	42.3	45.0	60.7	48.9	48.5	54.8	44.7	48.8	62.3	51.8
11	HIM - 129	42.3	53.0	42.0	42.3	58.3	47.6	47.0	53.0	42.7	46.0	60.0	49.7
MEAN LOCATION													
C.D. AT 5%		1.3	0.9	1.5	1.1	1.5	1.2	1.5	1.3	1.5	1.1	1.5	1.4
C.V. %		2.0	1.2	2.0	1.7	1.4	-	2.1	1.7	1.9	1.6	1.4	-
F (Prob)		.000	.000	.000	.000	.000	-	.000	.000	.000	.000	.000	-
S1 NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				ZN 4 MEAN			
		KARI	ARBH	MAND	COIM	KOLH	ZN 4 MEAN	KARI	ARBH		MAND	KOLH	
1	D E H - 10103	79.8	82.0	82.0	86.8	96.0	86.1	15.0	19.6	21.4	18.7	18.7	
2	D E H - 10303	78.8	82.3	82.0	88.5	96.7	86.6	15.0	20.7	20.5	18.7	18.7	
3	D E H - 10503	78.3	82.0	81.0	86.5	94.0	85.2	14.5	19.9	18.5	17.6	17.6	
4	D E H - 11303	80.0	81.0	81.0	87.5	95.0	85.9	14.0	20.5	20.3	18.3	18.3	
5	F V M - 3211	80.0	85.3	86.8	86.8	98.0	87.5	14.8	19.7	20.7	18.4	18.4	
6	B V M - 7	78.8	82.3	82.3	89.5	98.7	87.3	14.5	19.7	20.5	18.2	18.2	
7	H K H - 1183	80.3	85.7	85.7	93.0	99.0	89.5	16.7	20.1	20.0	18.9	18.9	
8	A H - 23025	80.3	83.0	83.0	92.5	99.7	88.9	15.7	20.3	21.3	19.1	19.1	
9	A H - 23035	79.8	84.0	84.0	93.5	99.3	89.1	16.9	20.5	20.1	19.1	19.1	
CHECKS:													
10	SURYA	79.5	81.3	81.3	89.8	96.0	86.6	13.6	20.9	21.0	18.5	18.5	
11	HIM - 129	79.5	81.3	81.3	87.0	94.3	85.5	13.9	19.8	21.4	18.4	18.4	
MEAN LOCATION													
C.D. AT 5%		1.4	1.5	1.5	1.1	1.8	1.4	0.9	1.9	1.7	1.5	1.5	
C.V. %		1.2	1.0	1.0	0.8	1.1	-	4.1	5.5	4.9	-	-	
F (Prob)		.087	.000	.000	.000	.000	-	.000	.869	.086	-	-	

TABLE NO. 23 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 4 MEAN
		KARI	MAND	COIM	KOLH	KARI	MAND	COIM	KOLH	
1	D E H - 10103	157	197	126	98	61	86	60	47	63
2	D E H - 10303	160	204	143	127	56	101	65	58	73
3	D E H - 10503	157	189	134	93	60	83	56	42	60
4	D E H - 11303	154	185	144	98	60	87	63	45	64
5	F H M - 3211	150	199	123	123	62	80	49	60	63
6	B V M - 7	177	210	156	135	74	103	77	45	75
7	H K H - 1183	161	196	178	123	72	92	78	45	73
8	A H - 23025	150	206	153	140	73	102	71	62	77
9	A H - 23035	160	203	147	133	62	89	72	60	71
CHECKS:										
10	SURYA	156	197	136	98	69	97	66	42	69
11	HIM - 129	162	199	131	122	68	79	60	50	64
	MEAN LOCATION	158	199	143	117	66	91	65	51	68
	C.D. AT 5%	15.2	19.4	7.5	26.1	8.7	13.5	4.7	13.7	10.2
	C.V. %	6.6	5.7	3.7	13.0	9.2	8.7	5.1	15.8	-
	F (Prob)	.071	.356	.000	.006	.007	.005	.000	.026	-

Sl No	PEDIGREE	STAND AT HARVEST				ZN 4 MEAN
		KARI	MAND	COIM	KOLH	
1	D E H - 10103	0.75	0.97	0.94	0.52	0.80
2	D E H - 10303	0.75	0.98	0.95	0.51	0.80
3	D E H - 10503	0.80	1.03	0.92	0.84	0.90
4	D E H - 11303	0.74	1.04	0.92	0.52	0.81
5	F H M - 3211	0.72	0.94	0.94	0.74	0.84
6	B V M - 7	0.84	0.98	0.94	0.68	0.86
7	H K H - 1183	0.68	0.94	0.96	0.78	0.84
8	A H - 23025	0.77	0.99	0.94	0.64	0.83
9	A H - 23035	0.74	0.98	0.95	0.55	0.81
CHECKS:						
10	SURYA	0.75	0.98	0.92	0.76	0.85
11	HIM - 129	0.80	0.99	0.94	0.66	0.85
	MEAN LOCATION	-	-	-	-	-
	C.D. AT 5%	-	-	-	-	-
	C.V. %	-	-	-	-	14.6
	F (Prob)	-	-	-	-	.085

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 24 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			HUSK COVER		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	D E H - 10103	45.5	48.3	46.9	47.5	50.0	48.8	73.5	76.8	75.1			
2	F H - 3211	45.8	48.0	46.9	46.8	50.0	48.4	76.0	81.0	78.5			
3	B V M H - 7	47.8	51.0	49.4	50.5	53.0	51.8	80.0	83.3	81.6			
4	J K M H - 204-1	52.0	55.8	53.9	53.5	57.5	55.5	82.0	91.0	86.5			
5	H K H - 1183	52.0	55.0	53.5	53.3	59.3	56.3	83.5	91.3	87.4			
6	A H H - 23021	49.8	53.5	51.6	52.3	56.3	54.3	83.5	85.5	84.5			
7	A H H - 23025	50.0	55.3	52.6	52.5	57.8	55.1	80.5	87.0	83.8			
8	A H H - 23035	50.5	53.3	51.9	52.3	55.5	53.9	83.5	87.0	85.3			
9	A H H - 23039	50.0	51.0	50.5	51.0	52.5	51.8	81.8	83.5	82.6			
CHECKS:													
10	SURYA	46.3	50.3	48.3	49.8	52.0	50.9	74.8	79.8	77.3			
11	HIM - 129	43.3	49.0	46.1	46.3	50.0	48.1	73.3	79.8	76.5			
MEAN LOCATION													
	C.D. AT 5%	1.0	2.1	1.6	1.0	1.5	1.2	3.0	2.4	2.7			
	C.V. %	1.5	2.8	-	1.3	1.9	-	2.6	2.0	-			
	F (Prob)	.000	.000	-	.000	.000	-	.000	.000	-			
SI NO	PEDIGREE	MOISTURE & AT HARVEST			PLANT ASPECT			EAR ASPECT			HUSK COVER		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	D E H - 10103	18.6	11.4	15.0	2.5	1.8	2.1	2.5	1.8	2.2	2.5	2.0	2.2
2	F H - 3211	16.5	11.6	14.2	2.3	1.3	1.7	2.4	1.3	2.3	2.3	1.3	1.8
3	B V M H - 7	18.2	14.6	18.7	2.6	1.0	1.8	2.5	1.3	1.9	2.3	1.3	1.8
4	J K M H - 204-1	22.8	12.9	17.3	2.0	1.3	1.6	2.3	1.0	1.6	2.3	1.3	1.8
5	H K H - 1183	21.8	12.4	15.4	2.1	1.0	1.5	2.4	1.0	1.7	2.2	1.5	1.9
6	A H H - 23021	19.5	12.3	16.0	2.2	1.3	1.7	2.3	1.0	1.7	2.3	1.3	1.8
7	A H H - 23025	19.6	12.3	16.9	2.2	1.3	1.6	2.3	1.0	1.6	2.3	1.3	1.8
8	A H H - 23035	21.5	12.2	16.9	2.2	1.3	1.7	2.3	1.0	1.6	2.3	1.3	1.8
9	A H H - 23039	20.7	12.0	16.4	2.1	1.3	1.7	2.3	1.3	1.8	2.4	1.5	2.0
CHECKS:													
10	SURYA	17.5	11.8	14.6	2.6	1.5	2.0	2.5	1.5	2.0	2.5	1.3	1.9
11	HIM - 129	19.7	11.4	15.9	2.3	1.3	1.8	2.4	1.3	1.8	2.4	1.5	2.2
MEAN LOCATION													
	C.D. AT 5%	0.2	0.8	0.5	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.3
	C.V. %	0.7	4.4	-	5.2	10.2	-	8.0	10.6	-	6.7	14.0	-
	F (Prob)	.000	.000	-	.000	.000	-	.168	.000	-	.184	.000	-

TABLE NO. 24 (CONT.)

Sl NO	PEDIGREE	UNIFORMITY *			PLANT HEIGHT (cm)			EAR HEIGHT (cm)			Zn 5 MEAN
		UDAI	CHHI	Zn 5 MEAN	UDAI	CHHI	Zn 5 MEAN	UDAI	CHHI	Zn 5 MEAN	
1	D E H - 10103	2.4	1.8	2.1	228	161	194	88	80	84	
2	F V M - 3211	2.3	1.5	2.0	235	151	193	70	64	67	
3	B V M H - 7	2.5	1.5	1.9	225	186	206	88	83	85	
4	J K M H - 204-1	2.3	1.0	1.8	220	169	194	86	80	83	
5	H K H - 1183	2.3	1.0	1.7	234	184	209	105	85	95	
6	A H H - 23021	2.4	1.5	1.9	249	176	213	100	83	91	
7	A H H - 23025	2.3	1.5	1.9	250	180	215	100	89	94	
8	A H H - 23035	2.3	1.3	1.8	214	171	193	98	83	90	
9	A H H - 23039	2.4	1.8	2.1	253	171	212	106	90	98	
CHECKS:											
10	SURYA	2.5	1.5	2.0	241	166	204	105	75	90	
11	HIM - 129	2.5	1.5	2.0	211	160	186	69	75	72	
MEAN LOCATION											
C.D. AT 5%		0.2	0.4	0.3	9.4	15.0	12.2	10.7	13.7	12.2	
C.V. %		7.2	17.5	-	2.8	6.1	-	8.1	11.8	-	
F (Prob)		.464	.001	-	.000	.001	-	.000	.033	-	

Sl NO	PEDIGREE	EAR NO. / PLANT			STAND AT HARVEST			Zn 5 MEAN
		UDAI	CHHI	Zn 5 MEAN	UDAI	CHHI	Zn 5 MEAN	
1	D E H - 10103	0.97	0.98	0.97	60	81	70	
2	F V M - 3211	0.98	0.96	0.97	62	75	68	
3	B V M H - 7	0.94	1.04	0.99	65	76	71	
4	J K M H - 204-1	0.94	0.97	0.96	33	74	53	
5	H K H - 1183	0.94	0.90	0.92	45	70	57	
6	A H H - 23021	0.96	0.98	0.97	67	82	75	
7	A H H - 23025	0.96	0.97	0.96	61	80	71	
8	A H H - 23035	0.95	0.93	0.94	70	76	73	
9	A H H - 23039	0.94	1.02	0.98	72	81	76	
CHECKS:								
10	SURYA	0.95	0.98	0.96	52	78	65	
11	HIM - 129	0.96	0.96	0.96	70	80	75	
MEAN LOCATION								
C.D. AT 5%		-	-	-	60	77	68	
C.V. %		-	-	-	7.6	5.5	6.6	
F (Prob)		-	-	-	8.9	5.0	-	
		-	-	-	.000	.003	-	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR).

TABLE NO. 25

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS IN ZONE-IV, AT HYDERABAD, KARIMNAGAR, ARBHAVI, MONSANTO BANGLORE, MANDYA, COIMBATORE, IN AET 2nd YEAR, TRIAL No. TR69Z4 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4								
		HYDE			KARI			ARBH			MONS			MAND			COIM			MEAN	R	
1	ROBUST	5418	5	5646	8	5817	6	3879	8	7119	9	7030	7	5818	9							
2	M C H - 1	4872	9	5657	7	5198	9	3518	9	9583	5	8373	2	6200	6							
3	M C H - 2	5385	6	5660	6	6847	2	4288	7	10440	1	9039	1	6943	2							
CHECKS:																						
4	BIO - 9681	4990	8	5597	9	6047	5	4365	4	7502	8	6984	8	5914	8							
5	PRO - 311	5372	7	5965	4	5810	7	4301	6	8341	7	6845	9	6106	7							
6	SEEDTEC - 2324	6139	3	6221	2	6901	1	4763	1	9504	6	7627	6	6859	3							
7	PAREHAT	4533	10	4847	10	4957	10	3189	10	6175	10	5441	10	4857	10							
	MEAN YIELD=	5507		5780		5973		4139		8867		7583		6308								
	MEAN STAND	100		119		114		40		84		85		90								
	C.D. AT 5%	1386		885		1489		366		800		650		929								
	C.V. %	17.40		10.59		17.24		6.11		5.28		5.92		-								
	F (Prob)	.013		.053		.147		.000		.000		.000		-								
	PLOT SIZE=	22.50		18.00		22.50		18.00		17.50		14.40		-								
AGRONOMY DATA:																						
	SOWING DATE(2004)	26-06		23-07		1-07		20-07		24-07		29-06		-								
	HARVEST DATE(2004)	17-10		10-11		17-11		21-11		7-12		29-10		-								
	IRRIGATION Nos	7		-		8		13		6		9		-								
	FERTILIZER APPLIED	N 120		180		150		-		150		135		-								
	P	60		60		75		-		75		53		-								
	K	40		40		38		-		40		50		-								

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

TABLE NO. 25 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE BIO - 9681						ZN 4 MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	
1	ROBUST	8.57	0.88	-	-	-	0.66	-
2	M C H - 1	-	1.07	-	-	27.73	19.89	4.83
3	M C H - 2	7.91	1.13	13.22	-	39.16	29.43	17.40
CHECKS:								
4	BIO - 9681	-	-	-	-	-	-	-
5	PRO - 311	7.66	6.57	-	-	11.18	-	3.24
6	SEEDTEC - 2324	23.02	11.16	14.12	9.14	26.67	9.22	15.98
7	PARBHAT	-	-	-	-	-	-	-

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRO - 311						ZN 4 MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	
1	ROBUST	0.85	-	0.12	-	-	2.70	-
2	M C H - 1	-	-	-	-	14.89	22.32	1.55
3	M C H - 2	0.23	-	17.86	-	25.17	32.05	13.72
CHECKS:								
4	BIO - 9681	-	-	4.09	1.47	-	2.03	-
5	PRO - 311	-	-	-	-	-	-	-
6	SEEDTEC - 2324	14.27	4.30	18.79	10.74	13.94	11.43	12.34
7	PARBHAT	-	-	-	-	-	-	-

S1 NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SEEDTEC - 2324						ZN 4 MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	
1	ROBUST	-	-	-	-	-	-	-
2	M C H - 1	-	-	-	-	0.83	9.78	-
3	M C H - 2	-	-	-	-	9.86	18.51	1.22
CHECKS:								
4	BIO - 9681	-	-	-	-	-	-	-
5	PRO - 311	-	-	-	-	-	-	-
6	SEEDTEC - 2324	-	-	-	-	-	-	-
7	PARBHAT	-	-	-	-	-	-	-

TABLE NO. 25 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE PARBHAT														
Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				ZN 4				
		HYDE	KARI	ARBH	BANG MONS	HYDE	KARI	ARBH	BANG MONS	MAND	COIM	MAND	COIM	MEAN
1	ROBUST	19.52	16.49	17.36	21.65	15.30	29.21	19.80						
2	M C H - 1	7.48	16.70	4.86	10.34	55.20	53.89	27.66						
3	M C H - 2	18.79	16.78	38.14	34.48	69.09	66.13	42.96						
CHECKS:														
4	BIO - 9681	10.09	15.47	22.01	36.88	21.51	28.36	21.77						
5	PRO - 311	18.52	23.06	17.21	34.90	35.09	25.81	25.72						
6	SEEDTEC - 2324	35.43	28.36	39.23	49.39	53.92	40.18	41.23						
7	PARBHAT													
DAYS TO 50% POLLEN SHED														
Sl No	PEDIGREE	DAYS TO 50% DRY HUSK				DAYS TO 50% AT HARVEST				ZN 4				
		HYDE	KARI	ARBH	BANG MONS	HYDE	KARI	ARBH	BANG MONS	MAND	COIM	MAND	COIM	MEAN
1	ROBUST	60.8	56.0	59.3	54.8	49.0	55.3	55.8	62.8	59.3	60.5	55.8	51.0	58.0
2	M C H - 1	61.8	57.0	62.0	58.0	51.3	57.0	57.8	63.8	60.0	63.8	59.0	54.3	60.2
3	M C H - 2	60.8	57.3	61.8	57.0	51.0	56.3	57.3	62.8	61.3	63.8	58.0	54.3	59.8
CHECKS:														
4	BIO - 9681	60.8	55.5	59.0	54.0	49.0	54.3	55.4	62.8	58.8	60.0	55.0	50.7	57.4
5	PRO - 311	60.3	56.5	61.8	56.3	52.0	55.8	57.1	62.3	59.3	63.0	57.3	53.7	58.9
6	SEEDTEC-2324	60.8	56.3	60.5	51.0	51.0	57.0	56.9	62.8	59.0	61.3	57.0	52.3	59.6
7	PARBHAT	60.8	56.8	61.0	57.5	49.7	58.8	56.9	62.8	61.8	63.3	58.5	51.3	59.5
MEAN LOCATION														
	C.D. AT 5% =	2.4	1.4	1.2	0.8	1.2	0.8	1.3	2.4	2.4	1.2	0.8	1.2	0.9
	C.V. % =	2.7	1.7	1.3	1.0	1.4	1.0	1.0	2.6	2.7	1.3	1.0	1.3	1.0
	F (Prob) =	.990	.345	.000	.000	.000	.000	.000	.990	.217	.000	.000	.000	.000
MOISTURE & AT HARVEST														
Sl No	PEDIGREE	DAYS TO 50% DRY HUSK				DAYS TO 50% AT HARVEST				ZN 4				
		HYDE	KARI	ARBH	BANG MONS	HYDE	KARI	ARBH	BANG MONS	MAND	COIM	MAND	COIM	MEAN
1	ROBUST	99.8	99.0	100.5	87.7	103.5	98.1	25.7	20.0	25.1	20.7	22.9		
2	M C H - 1	101.0	99.5	98.0	88.3	105.3	98.4	25.2	18.9	22.6	21.0	21.9		
3	M C H - 2	101.5	102.5	100.0	89.0	104.0	99.4	26.3	20.0	25.6	19.7	22.9		
CHECKS:														
4	BIO - 9681	101.3	99.8	100.3	86.3	102.3	98.0	24.2	16.4	23.9	20.0	21.0		
5	PRO - 311	101.5	99.0	98.5	86.3	102.8	97.6	25.5	18.2	23.8	20.3	22.2		
6	SEEDTEC - 2324	101.3	100.0	100.5	87.0	104.5	98.7	26.0	18.0	24.3	20.5	22.2		
7	PARBHAT	101.0	103.0	99.0	87.7	104.5	99.0	25.6	18.9	23.2	20.0	21.9		
MEAN LOCATION														
	C.D. AT 5% =	101.1	100.3	100.3	87.5	103.9	98.7	25.7	19.3	24.7	20.3	22.5		
	C.V. % =	2.4	1.8	1.7	1.8	0.9	1.9	0.9	1.7	1.7	1.7	1.5		
	F (Prob) =	1.6	1.8	1.2	1.2	0.6	1.1	2.3	6.3	4.7	4.8	1.1		
		.452	.065	.000	.106	.000	.000	.000	.000	.000	.586	.000		

TABLE NO. 25 (CONT.)

S1 NO	PEDIGREE	PLANT ASPECT *							EAR ASPECT *							ZN 4 MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	HYDE	KARI	ARBH	BANG MONS	MAND	COIM		
1	ROBUST	3.3	2.3	2.5	1.5	2.0	3.0	2.4	3.0	1.8	2.5	1.8	2.7	3.0	2.4	
2	M C H - 1	3.1	2.5	2.0	2.8	2.0	2.0	2.4	3.1	1.3	2.8	2.5	2.0	2.0	2.3	
3	M C H - 2	2.8	2.5	2.5	2.3	2.0	1.9	2.3	2.8	2.0	2.0	1.0	2.0	1.9	1.9	
CHECKS:																
4	BIO - 9681	3.0	2.5	2.0	1.8	2.0	3.0	2.4	3.1	2.5	2.8	1.5	2.7	2.0	2.4	
5	PRO - 311	3.3	2.5	2.0	2.3	2.0	2.0	2.3	3.4	1.8	3.0	1.0	3.0	2.0	2.4	
6	SEEDTEC - 2324	2.8	2.3	2.5	1.3	2.3	3.0	2.3	2.4	2.0	2.5	1.0	2.0	2.0	2.0	
7	PARBHAT	3.0	2.5	2.8	2.5	2.0	3.0	2.6	3.5	2.5	2.8	2.8	2.7	4.0	3.0	
MEAN LOCATION																
	C.D. AT 5%	0.5	0.8	0.2	0.7	0.4	0.1	0.4	2.9	1.8	2.6	1.5	2.3	2.3	2.2	
	C.V. %	10.7	22.1	6.3	26.0	11.8	3.2	-	0.6	0.9	0.3	0.4	0.7	0.1	0.5	
	F (Prob)	.108	.568	.000	.000	.474	.000	-	15.0	33.5	8.4	20.6	16.3	3.5	-	
									.006	.049	.000	.000	.020	.000	-	

S1 NO	PEDIGREE	HUSK COVER *							UNIFORMITY *							ZN 4 MEAN
		HYDE	KARI	ARBH	BANG MONS	MAND	COIM	ZN 4 MEAN	HYDE	KARI	ARBH	BANG MONS	MAND	COIM		
1	ROBUST	2.4	1.8	2.3	2.5	2.3	3.0	2.4	3.4	2.5	2.5	2.3	2.0	3.0	2.6	
2	M C H - 1	2.4	1.8	2.0	2.3	2.7	2.0	2.2	3.4	2.3	2.3	1.0	2.7	2.0	2.3	
3	M C H - 2	2.6	1.8	2.0	3.3	2.7	1.9	2.4	2.9	1.8	2.3	1.0	2.3	1.9	2.0	
CHECKS:																
4	BIO - 9681	2.4	1.8	2.3	2.0	2.3	2.0	2.1	3.1	2.5	2.0	1.5	2.7	3.0	2.5	
5	PRO - 311	2.4	1.5	2.0	2.3	2.0	2.0	2.0	2.9	2.0	2.0	1.5	2.3	2.0	2.1	
6	SEEDTEC - 2324	2.5	1.3	2.0	2.0	2.0	2.0	2.0	2.8	1.3	2.0	1.0	2.0	3.0	2.0	
7	PARBHAT	2.5	2.0	2.5	2.3	2.0	3.0	2.4	3.1	3.0	2.8	3.5	3.0	4.0	3.2	
MEAN LOCATION																
	C.D. AT 5%	2.4	1.7	2.1	2.4	2.3	2.2	2.2	3.0	2.0	2.2	1.5	2.4	2.6	2.3	
	C.V. %	0.3	0.7	0.1	0.6	0.7	0.1	0.4	0.5	0.9	0.3	0.6	0.9	0.1	0.5	
	F (Prob)	9.2	29.0	4.6	17.5	18.8	3.6	-	11.4	29.5	9.1	27.6	20.8	3.1	-	
		.547	.688	.000	.002	.204	.000	-	.017	.000	.000	.000	.367	.000	-	

TABLE NO. 25 (CONT.)

S1 NO	PEDIGREE	PLANT HEIGHT (CM)				EAR HEIGHT (CM)				ZN 4	
		KARI	BANG	MAND	COIM	KARI	BANG	MAND	COIM	MEAN	MEAN
1	ROBUST	173	265	217	161	76	131	102	81	204	97
2	M C H - 1	190	270	215	184	80	141	104	101	215	106
3	M C H - 2	179	273	223	178	74	141	116	91	213	105
CHECKS:											
4	BIO - 9681	178	269	222	175	74	135	108	85	211	100
5	PRO - 311	180	268	217	172	82	153	112	94	209	110
6	SEEDTEC - 2324	168	256	210	159	73	135	103	79	198	98
7	PARBHAT	202	279	227	176	88	156	118	88	221	113
MEAN LOCATION											
	C.D. AT 5%	10.9	6.2	15.6	8.5	9.8	8.5	14.5	5.1	10.3	9.5
	C.V. %	4.2	1.6	4.2	3.5	8.9	4.1	7.8	4.0	-	-
	F (Prob)	.000	.000	.505	.000	.016	.000	.379	.000	-	-

S1 NO	PEDIGREE	EAR NO. / PLANT				H.t.u.c. STAND AT HARVEST				ZN 4		
		HYDE	KARI	BANG	MONS	MONS	HYDE	KARI	ARBH	MONS	MAND	COIM
1	ROBUST	1.04	0.98	0.95	0.98	3.0	65	112	108	40	77	80
2	M C H - 1	1.02	0.99	0.96	0.98	3.0	100	117	112	40	83	89
3	M C H - 2	1.02	1.01	0.97	1.00	2.5	115	119	126	40	84	95
CHECKS:												
4	BIO - 9681	1.00	1.02	0.99	0.99	4.0	93	120	115	38	81	89
5	PRO - 311	1.32	0.95	1.04	0.99	4.0	96	121	104	41	85	89
6	SEEDTEC - 2324	1.05	0.98	0.95	1.09	3.3	109	119	111	38	82	91
7	PARBHAT	1.05	0.98	1.02	1.11	3.8	99	118	110	36	89	89
MEAN LOCATION												
	C.D. AT 5%	-	-	-	-	3.1	100	119	114	40	84	90
	C.V. %	-	-	-	-	0.4	18.1	5.4	17.5	2.3	16.5	6.9
	F (Prob)	-	-	-	-	9.9	12.5	3.2	10.6	4.1	11.5	5.6
		-	-	-	-	.000	.000	.021	.386	.001	.710	.123

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 3 ENTRIES)

TABLE NO. 26

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS IN ZONE-V, AT UDAIPUR, CHHINDIWARA IN AET 2nd YEAR, TRIAL NO. TR6925 DURING KHARIF (2004).

Sl NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD % SUPERIORITY OVER THE BIO- 9681			
	UDAI	R	CHHI	R	UDAI	R	CHHI	MEAN
1 ROBUST	5508	4	10102	3	7805	4	5.89	7.10
2 NECH - 117	7175	1	12731	1	9953	1	33.45	36.59
CHECKS:								
3 BIO - 9681	5034	5	9540	5	7287	5	-	-
4 SREYTEC - 2324	6583	2	11169	2	8876	2	17.08	21.81
5 PRO - 311	5895	3	9978	4	7937	3	4.59	8.91
6 PARBHAT	4045	6	7382	6	5714	6	-	-
MEAN YIELD=	5707		10150		7929			
MEAN STAND	83		109		96			
C.D. AT 5%=	786		949		868			
C.V. % =	9.24		6.27		-			
F (Prob)	.000		.000		-			
PLOT SIZE=	18.00		16.80		-			
AGRONOMY DATA:								
SOWING DATE (2004)	2-07		30-06		-			
HARVEST DATE (2004)	12-10		26-10		-			
IRRIGATION Nos	-		-		-			
FERTILIZER APPLIED N	120		120		-			
P	60		60		-			
K	-		40		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 22.3%

TABLE NO. 26 (CONT.)

SL NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE				MOISTURE & AT HARVEST			
	SEEDTEC - 2324 UDAI	ZN 5 MEAN	PRO - 311 UDAI	CHHI	ZN 5 MEAN	PARBHAT UDAI	CHHI	ZN 5 MEAN
1 ROBUST	-	-	-	1.24	-	36.15	36.84	36.59
2 NECH - 117	9.00	13.98	21.71	27.59	25.41	77.38	72.45	74.19
CHECKS:								
3 BIO - 9681	-	-	-	-	-	24.44	29.23	27.53
4 SEEDTEC - 2324	-	-	11.66	11.94	11.84	62.73	51.30	55.34
5 PRO - 311	-	-	-	-	-	45.73	35.16	38.90
6 PARBHAT	-	-	-	-	-	-	-	-

SL NO PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING				DAYS TO 50% DRY HUSK			
	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1 ROBUST	53.8	55.0	54.4	56.5	56.3	56.4	90.8	92.0	91.4	18.2	18.3	18.3
2 NECH - 117	54.3	55.3	54.8	57.0	56.5	56.8	92.0	91.8	91.9	19.3	18.1	18.7
CHECKS:												
3 BIO - 9681	51.5	52.8	52.1	54.0	54.0	54.0	90.3	89.5	89.9	18.6	14.5	16.6
4 SEEDTEC - 2324	55.3	54.0	54.6	58.3	55.3	56.8	91.0	90.5	90.8	18.3	18.5	18.4
5 PRO - 311	54.8	55.0	54.9	57.0	56.3	56.6	91.0	90.3	90.6	19.0	17.3	18.1
6 PARBHAT	55.0	55.8	55.4	57.8	57.8	57.8	88.3	91.5	89.9	18.8	17.4	18.1
MEAN LOCATION												
C.D. AT 5%	1.3	2.1	1.7	1.3	2.3	1.8	2.7	2.5	2.6	0.6	0.7	0.6
C.V. %	1.5	2.5	-	1.5	2.7	-	2.0	1.8	-	2.2	2.6	-
F (Prob)	.000	.078	-	.000	.053	-	.134	.260	-	.020	.000	-

TABLE NO. 26 (CONT.)

Sl No	PEDIGREE	PLANT		EAR		HUSK		UNIF.		PLANT HEIGHT (cm)		EAR HEIGHT (cm)	
		ASP.* UDAI	ASP.* UDAI	ASP.* UDAI	COV.* UDAI	UDAI	UDAI	UDAI	CHHI	UDAI	CHHI	UDAI	CHHI
1	ROBUST	2.5	2.4	2.4	2.5	2.4	2.4	2.4	2.4	210	181	196	85
2	NECH - 117	1.9	1.8	1.8	2.1	1.9	1.9	1.9	1.9	229	194	211	93
CHECKS:													
3	BIO - 9681	2.0	2.2	2.2	2.0	2.1	2.1	2.1	2.1	256	204	230	108
4	SEEDTEC - 2324	2.1	2.2	2.2	2.1	2.1	2.1	2.1	2.1	226	175	201	95
5	PRO - 311	2.3	2.3	2.3	2.3	2.2	2.3	2.2	2.2	238	175	206	113
6	PARBHAT	2.1	2.4	2.4	2.1	2.0	2.1	2.0	2.0	248	201	224	118
MEAN LOCATION													
	C.D. AT 5%	0.4	0.4	0.4	0.4	0.2	0.4	0.2	0.2	19.4	13.7	16.5	15.4
	C.V. %	12.6	10.7	10.7	12.4	6.8	12.4	6.8	6.8	5.5	4.8	-	10.1
	F (Prob)	.067	.024	.024	.353	.003	.353	.003	.003	.002	.001	-	.003

Sl No	PEDIGREE	EAR NO./PLANT		STAND AT HARVEST		ZN 5	
		UDAI	CHHI	UDAI	CHHI	UDAI	CHHI
1	ROBUST	0.92	1.02	70	91	81	81
2	NECH - 117	0.94	0.97	88	115	101	101
CHECKS:							
3	BIO - 9681	0.98	1.01	75	117	96	96
4	SEEDTEC - 2324	1.01	0.98	86	103	94	94
5	PRO - 311	0.94	1.00	88	118	103	103
6	PARBHAT	0.91	1.01	94	111	102	102
MEAN LOCATION							
	C.D. AT 5%	-	-	83	109	96	96
	C.V. %	-	-	11.3	14.7	13.0	13.0
	F (Prob)	-	-	9.0	8.9	-	-
		-	-	.003	.011	-	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 27

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-I, AT BAJAURA, KANGRA IN AET 2nd YEAR, TRIAL No. TR70Z1 DURING KHARIF (2004).

Sl NO PEDIGREE	GRAIN YIELD (kg/ha)				GRAIN YIELD & SUPERIORITY OVER THE							
	AT 15% MOISTURE				NAVJOT							
	BAJA	R	KANG	R	BAJA	KANG	BAJA	KANG	ZN 1 MEAN	ZN 1 MEAN		
1 P M Z - 131	5003	2	3125	5	4064	3	5.52	-	0.76	22.07	-	9.41
CHECKS:												
2 KH 510	4742	3	3325	4	4033	4	-	-	-	15.69	-	8.58
3 NAVJOT	4098	5	3330	3	3714	5	-	0.16	-	-	-	-
MEAN YIELD=	4954		3903		4428							
MEAN STAND	92		42		67							
C.D. AT 5%	592		1151		871							
C.V. %	7.88		19.45		-							
F (Prob)	.000		.001		-							
PLOT SIZE=	14.40		7.20		-							
AGRONOMY DATA:												
SOWING DATE (2004)	10-06		10-06		-							
HARVEST DATE (2004)	6-10		14-09		-							
IRRIGATION Nos	2		-		-							
FERTILIZER APPLIED N	120		80		-							
P	60		60		-							
K	40		40		-							

TABLE NO. 27 (CONT.)

SI	NO PEDIGREE	DAYS TO 50% POLLEN SHED		DAYS TO 50% SILKING		DAYS TO 50% DRY HUSK		MOISTURE % AT HARVEST		PLANT ASP.			
		BAJA	KANG	BAJA	KANG	BAJA	KANG	BAJA	KANG				
1	P M Z - 131	70.5	54.8	73.0	47.0	60.0	106.5	91.5	99.0	21.0	22.2	21.6	2.1
CHECKS:													
2	KH 510	71.5	55.8	73.8	51.8	62.8	107.8	91.5	99.6	19.3	22.2	20.8	2.3
3	NAVJOT	69.3	49.8	71.5	47.3	59.4	102.3	89.0	95.6	18.1	17.5	17.8	2.5
MEAN LOCATION		70.4	53.6	72.8	49.4	61.1	105.6	90.4	98.0	19.1	19.7	19.4	2.3
C.D. AT 5%		1.3	2.2	1.7	3.3	2.5	5.9	1.3	3.6	1.0	4.5	2.7	0.3
C.V. %		1.2	2.7	1.5	4.4	-	3.6	0.9	-	3.3	14.8	-	9.5
F (Prob)		.034	.001	.088	.029	-	.344	.004	-	.000	.043	-	.215

SI	NO PEDIGREE	EAR ASP.	HUSK COV. *	UNIFO BAJA	BAJA	PLANT HEIGHT (cm)	EAR HEIGHT (cm)	ZN 1 PLANT		H. tur. may. *	H. STAND AT HARVEST				
								BAJA	KANG			BAJA	KANG		
1	P M Z - 131	2.1	1.9	1.5	155	238	197	53	124	88	0.97	1.3	1.0	97	41
CHECKS:															
2	KH 510	2.0	2.0	2.0	164	246	205	66	136	101	0.94	1.5	1.0	83	43
3	NAVJOT	2.6	2.3	2.5	176	259	218	94	134	114	0.97	1.5	1.3	92	38
MEAN LOCATION		2.3	2.1	2.1	165	256	210	70	128	99	-	1.4	1.1	92	42
C.D. AT 5%		0.4	0.5	0.4	13.8	24.4	19.1	16.8	18.4	17.6	-	0.6	0.3	5.9	5.2
C.V. %		10.7	13.9	11.4	5.4	6.2	-	15.7	9.3	-	-	29.3	19.0	4.1	8.2
F (Prob)		.022	.163	.001	.047	.071	-	.001	.158	-	-	.898	.304	.001	.058

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 2 ENTRIES)

TABLE NO. 28

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, JASHIPUR, IN AET 2nd YEAR, TRIAL No. TR70Z3 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE KH 510								
		GORA		VARA		JASH		GORA		BELI		VARA		JASH		
		BELI	R	VARA	R	JASH	R	MEAN	R	BELI	R	VARA	R	JASH	MEAN	ZN 3
1	H K H - 1208	4650	3	3980	5	4767	4	4466	5	4.26	-	-	-	-	-	-
2	P M Z - 131	5388	1	6677	1	5170	2	5745	1	20.80	8.55	-	-	-	9.21	-
3	N E C H - 120	5359	2	6454	2	4846	3	5553	2	20.16	4.93	-	-	-	5.56	-
CHECKS:																
4	KH 510	4460	4	6150	3	5170	1	5260	3	-	-	-	-	-	-	-
5	NAVJOT	4427	5	5156	4	4117	5	4566	4	-	-	-	-	-	-	-
	MEAN YIELD=	4857		5683		4814		5118								
	MEAN STAND	101		113		97		104								
	C.D. AT 5%	437		251		92		260								
	C.V. %	5.94		2.91		1.60		-								
	F (Prob)	.000		.000		.000		-								
	PLOT SIZE=	18.00		22.50		18.00		-								
AGRONOMY DATA:																
	SOWING DATE(2004)	27-06		19-06		3-07		-								
	HARVEST DATE(2004)	29-09		21-09		19-10		-								
	IRRIGATION NOS	2		2		-		-								
	FERTILIZER APPLIED N	120		100		120		-								
	P	60		60		60		-								
	K	60		40		60		-								

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : DHOL 26.0% : KUSH 20.9% : AMBI 24.8%

TABLE NO. 28 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE NAVJOT			DAYS TO 50% POLLEN SHED			ZN 3		
		GORA BELI	VARA	JASH MEAN	GORA BELI	VARA	JASH MEAN	GORA BELI	VARA	JASH MEAN
1	H K H - 1208	5.04	-	15.80	55.8	47.5	51.0	51.4		
2	P M Z - 131	21.72	29.50	25.58	53.8	47.8	48.5	50.0		
3	N E C H - 120	21.07	25.17	17.71	53.8	49.3	51.8	51.6		
CHECKS:										
4	KH 510	0.75	19.29	25.60	54.5	47.0	49.3	50.3		
5	NAVJOT	-	-	-	54.8	44.8	46.2	48.6		
MEAN LOCATION										
	C.D. AT 5% =	-	-	-	54.5	47.3	49.4	50.4		
	C.V. % =	-	-	-	1.5	1.6	1.4	1.5		
	F (Prob) =	-	-	-	1.8	2.2	2.4	-		
		-	-	-	.075	.001	.000	-		

Sl NO	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE & AT HARVEST		
		GORA BELI	VARA	JASH MEAN	GORA BELI	VARA	JASH MEAN	GORA BELI	VARA	JASH MEAN
1	H K H - 1208	58.0	56.8	55.0	91.0	84.3	90.0	24.4	38.4	18.5
2	P M Z - 131	55.8	53.5	52.0	88.0	85.5	88.0	24.6	35.6	20.6
3	N E C H - 120	56.0	54.0	54.8	90.8	84.3	92.5	24.5	36.0	20.8
CHECKS:										
4	KH 510	56.5	52.3	52.7	86.5	82.0	85.7	24.2	31.5	19.3
5	NAVJOT	57.0	51.3	50.2	82.8	82.5	86.2	23.3	29.8	19.4
MEAN LOCATION										
	C.D. AT 5% =	1.6	2.1	1.1	1.3	3.0	1.3	0.6	0.3	0.5
	C.V. % =	1.9	2.5	1.7	1.0	2.3	1.3	1.6	0.5	2.3
	F (Prob) =	.068	.001	.000	.000	.127	.000	.002	.000	.000

TABLE NO. 28 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *					
		GORA BELI	VARA	JASH	ZN 3 MEAN	GORA BELI	VARA	JASH	ZN 3 MEAN	GORA BELI	VARA	JASH	ZN 3 MEAN
1	H K H - 1208	1.5	1.8	2.0	1.8	2.9	2.0	2.0	2.3	2.3	2.3	2.8	2.4
2	P M Z - 131	2.4	2.5	1.0	2.0	1.9	2.8	1.0	1.9	1.8	2.8	1.2	1.9
3	N E C H - 120	2.8	2.0	1.5	2.1	1.6	2.3	1.0	1.6	1.8	2.3	1.3	1.8
CHECKS:													
4	KH 510	3.0	1.8	1.0	1.9	2.1	2.3	1.0	1.8	1.8	2.3	1.8	1.9
5	NAVJOT	3.1	1.8	3.0	2.6	2.4	2.5	2.2	2.3	1.9	2.3	2.7	2.3
MEAN LOCATION													
C.D. AT 5% = 0.5 0.3 0.3 0.4 0.4 0.2 0.2 0.2 0.3 0.5 0.0 0.6 0.4													
C.V. % = 13.3 8.8 14.4 - 11.9 4.8 12.7 - 17.2 0.0 24.4 -													
F (Prob) = .000 .000 .000 .000 .000 .000 .000 .000 .000 .194 .000 .000 .000 .000													

SI NO	PEDIGREE	UNIFORMITY *			PLANT HEIGHT (cm)			EAR HEIGHT (cm)					
		GORA BELI	VARA	JASH	ZN 3 MEAN	GORA BELI	VARA	JASH	ZN 3 MEAN	GORA BELI	VARA	JASH	ZN 3 MEAN
1	H K H - 1208	1.5	1.8	2.0	1.8	129	175	148	151	53	78	70	67
2	P M Z - 131	2.4	2.8	2.0	2.4	174	248	169	197	72	103	76	83
3	N E C H - 120	2.3	1.8	2.0	2.0	169	253	181	201	72	115	84	90
CHECKS:													
4	KH 510	3.0	2.8	2.3	2.7	148	228	165	180	63	105	64	77
5	NAVJOT	3.0	2.8	3.2	3.0	153	228	167	183	59	93	73	75
MEAN LOCATION													
C.D. AT 5% = 0.5 0.3 0.3 0.4 13.3 8.8 5.3 9.1 11.5 8.1 5.8 8.5													
C.V. % = 13.0 7.8 11.8 - 5.6 2.5 2.6 - 11.7 5.4 6.5 -													
F (Prob) = .000 .000 .000 .000 .000 .000 .000 .000 .000 .012 .000 .000 .000 .000													

TABLE NO. 28 (CONT.)

Sl No	EAR No. / PLANT				H.		BLSB		STAND AT HARVEST			ZN 3 MEAN
	GORA		ZN 3		may.*		*		GORA			
	BELI	VARA	JASH	MEAN	JASH	JASH	JASH	BELI	VARA	JASH		
1	0.99	0.97	1.00	0.99	2.1	3.1	95	115	97	102		
2	0.99	0.98	1.00	0.99	2.0	3.0	111	114	99	108		
3	0.99	0.94	1.00	0.98	1.8	2.5	107	113	101	107		
CHECKS:												
4	0.98	0.98	1.00	0.98	2.2	3.3	97	111	94	101		
5	0.98	0.96	1.00	0.98	3.8	3.3	96	111	94	100		
MEAN LOCATION												
C.D. AT 5%	0.0	0.0	0.0	0.0	0.4	0.4	5.5	4.4	3.4	4.4		
C.V. %	0.9	2.6	0.6	-	12.7	10.1	3.5	2.5	2.9	-		
F (Prob)	.254	.220	.725	-	.000	.001	.000	.201	.001	-		

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 29

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES IN ZONE-IV, AT BAKARAM KANCHAN GANGA, KARIMNAGAR, ARBHAVI, MONSANTO BANGLORE, ZAURI SEED'S BANGALORE, MANDYA, COIMBATORE, IN AET 2nd YEAR, TRIAL NO. TR70Z4 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4					
		KANC		BAKA		KARI		ARBH		MONS		ZAUR		MAND		COIM		R	
1	E C - 3121	6516	15	3463	14	4512	14	3147	13	3661	14	4056	15	4982	14	4334	15		
2	B H - 2359	7900	7	5856	2	6153	5	4454	2	5442	12	4504	14	7490	3	5971	5		
3	H K H - 1203	7467	8	4777	6	5442	9	3944	8	5048	13	4603	13	5739	13	5289	12		
4	H K H - 1208	6909	11	3923	11	4684	13	3146	14	3124	15	4947	10	5941	12	4668	13		
5	SEEDTEC - 1081	8652	2	5692	3	6780	2	4706	1	7594	1	8519	1	8285	2	7175	2		
6	P M Z - 131	8360	3	4086	10	5477	8	3918	11	6352	8	4632	12	7344	4	5738	9		
7	P M Z - 237	7111	9	3832	12	5027	12	3889	12	5878	11	5924	8	7043	6	5529	11		
8	X - 26	8094	5	4211	9	5310	10	4205	6	5996	9	6409	6	6788	8	5859	8		
CHECKS:																			
9	KH 510	8018	6	4905	5	5809	7	4316	5	6399	7	6118	7	6123	11	5956	6		
10	NAVJOT	6707	13	3209	15	4025	15	2485	15	5888	10	4856	11	4507	15	4525	14		
	MEAN YIELD=	7578		4579		5649		3939		5929		5965		6683		5760			
	MEAN STAND	62		95		101		40		64		78		82		75			
	C.D. AT 5% =	939		749		919		633		1330		1482		452		929			
	C.V. % =	8.69		11.47		11.42		11.28		15.74		14.88		4.74		-			
	F (Prob)	.000		.000		.000		.000		.000		.000		.000		-			
	PLOT SIZE=	12.00		18.00		22.50		18.00		12.00		17.50		14.40		-			
AGRONOMY DATA:																			
	SOWING DATE(2004)	5-06		14-07		15-07		22-07		26-07		24-07		30-06		-			
	HARVEST DATE(2004)	26-09		10-11		8-12		22-11		15-11		7-12		20-10		-			
	IRRIGATION Nos	8		-		8		13		-		6		8		-			
	FERTILIZER APPLIED N	120		180		150		-		120		150		135		-			
	P	60		60		75		-		60		75		63		-			
	K	40		40		38		-		40		40		50		-			

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : HYDE 21.0% : KOLH 24.6%

TABLE NO. 29 (CONT.)

SI NO	PEDIGREE	TO 50% POLLEN SHED				TO 50% SILKING				ZN 4 MEAN
		DAYS KANC BAKA	KARI	ARBH	BANG MONS	BANG ZAUZ	MAND	COIM	ZN 4 MEAN	
1	E C - 3121	51.0	51.0	54.5	54.5	54.5	44.3	48.0	51.1	
2	B H - 2359	56.0	51.8	61.5	58.0	56.5	49.0	55.3	55.4	
3	H K H - 1203	54.0	50.3	58.8	54.3	54.3	47.0	53.8	53.2	
4	H K H - 1208	53.0	52.3	57.0	56.3	54.8	49.0	52.8	53.6	
5	SEEDTEC - 1081	57.5	51.8	60.0	57.3	55.3	51.7	55.8	55.6	
6	P M Z - 131	54.0	49.5	57.3	56.3	55.5	49.7	51.3	53.3	
7	P M Z - 237	54.5	51.8	56.5	55.0	58.0	46.7	52.0	53.5	
8	X - 26	52.0	51.3	57.0	54.5	58.5	47.3	51.5	53.2	
	CHECKS:									
	KH 510	53.5	51.0	57.5	55.8	58.3	49.3	50.8	53.7	
10	NAVJOT	52.0	50.3	55.3	53.5	59.0	45.7	48.5	52.0	
	MEAN LOCATION	54.1	51.3	57.5	55.6	56.5	48.4	52.3	53.7	
	C.D. AT 5% =	0.8	2.0	1.3	1.2	0.9	2.6	1.0	1.4	
	C.V. % =	1.0	2.8	1.6	1.6	1.1	3.3	1.3	-	
	F (Prob)	.000	.082	.000	.000	.000	.000	.000	-	
1	E C - 3121	53.0	53.5	55.0	55.5	55.5	45.7	51.8	52.8	
2	B H - 2359	56.5	54.3	62.8	59.0	58.3	53.3	58.3	57.5	
3	H K H - 1203	54.5	53.3	59.0	55.3	55.5	49.0	57.3	54.8	
4	H K H - 1208	55.5	55.3	61.0	57.3	55.8	51.0	56.0	56.0	
5	SEEDTEC - 1081	57.5	54.3	60.3	58.3	57.3	53.7	58.8	57.1	
6	P M Z - 131	54.0	52.8	58.5	57.3	57.3	51.3	55.0	55.2	
7	P M Z - 237	55.0	54.3	58.5	56.0	59.3	50.3	55.3	55.5	
8	X - 26	53.5	54.5	58.8	55.5	59.8	49.3	54.8	55.2	
	CHECKS:									
	KH 510	53.5	54.8	58.5	56.8	59.5	51.0	54.0	55.4	
10	NAVJOT	53.0	53.5	57.8	54.5	60.3	47.0	53.0	54.1	
	MEAN LOCATION	54.7	54.3	58.8	56.6	57.8	50.6	55.6	55.5	
	C.D. AT 5% =	1.0	1.9	1.3	1.2	0.7	2.2	0.8	1.3	
	C.V. % =	1.2	2.5	1.5	1.5	0.9	2.6	1.1	-	
	F (Prob)	.000	.165	.000	.000	.000	.000	.000	-	

TABLE NO. 29 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST						
		KARI	BANG MONS	BANG ZAUR	MAND	COIM	ZN 4 MEAN	ARBH	BANG MONS	BANG ZAUR	MAND	ZN 4 MEAN
1	E C - 3121	88.0	92.3	93.8	85.3	94.8	90.8	15.6	17.8	16.4	18.4	17.0
2	B H - 2359	90.0	96.5	100.0	87.7	101.3	95.1	16.7	22.8	22.3	20.1	20.5
3	H K H - 1203	89.3	92.0	97.3	85.7	100.3	92.9	15.9	17.0	18.6	19.8	17.8
4	H K H - 1208	91.8	94.5	97.0	86.7	99.0	93.8	16.4	17.4	22.3	19.5	18.9
5	SEEDTEC - 1081	90.5	97.5	96.3	87.0	101.8	94.6	17.8	23.8	18.8	20.2	20.1
6	P M Z - 131	89.8	96.0	96.5	87.0	98.0	93.4	15.6	18.1	22.5	20.0	19.0
7	P M Z - 237	90.0	92.8	100.3	87.7	98.3	93.8	15.0	20.8	18.6	19.0	18.3
8	X - 26	90.5	93.3	101.0	87.3	97.8	94.0	16.4	20.0	22.1	18.9	19.3
CHECKS:												
9	KH 510	90.8	93.5	99.5	87.7	97.0	93.7	15.6	20.5	22.5	20.0	19.6
10	NAVJOT	89.0	92.0	99.3	86.7	96.0	92.6	15.4	16.9	20.3	18.9	17.9
MEAN LOCATION												
	C.D. AT 5%	2.5	2.1	2.3	2.2	0.8	2.0	0.8	3.2	5.3	1.7	2.8
	C.V. %	1.9	1.6	1.6	1.5	0.6	-	3.4	11.6	18.3	5.3	-
	F (Prob)	.340	.000	.000	.403	.000	-	.000	.000	.351	.559	-

SI NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *									
		KARI	ARBH	BANG MONS	BANG ZAUR	MAND	COIM	ZN 4 MEAN	KARI	ARBH	BANG MONS	BANG ZAUR	MAND	COIM	ZN 4 MEAN
1	E C - 3121	2.8	2.5	3.0	2.5	3.0	3.0	2.8	3.0	3.0	2.8	3.0	3.0	3.0	3.0
2	B H - 2359	2.3	2.0	1.5	1.8	3.0	2.0	2.1	1.8	2.8	1.5	2.5	2.7	2.0	2.2
3	H K H - 1203	2.8	2.5	2.5	2.8	2.7	3.8	2.8	1.8	2.8	2.3	2.8	2.7	2.8	2.5
4	H K H - 1208	2.5	2.0	2.8	3.8	2.3	3.0	2.7	4.0	3.0	3.3	3.3	3.0	3.0	3.3
5	SEEDTEC - 1081	2.5	2.0	1.5	3.8	1.7	2.0	2.2	2.0	2.5	1.0	3.5	2.0	2.0	2.2
6	P M Z - 131	3.0	2.0	1.3	3.3	2.0	2.0	2.3	2.5	3.0	2.5	3.5	2.7	2.0	2.7
7	P M Z - 237	3.3	2.3	3.0	2.8	2.3	2.0	2.6	2.5	3.0	2.0	3.3	2.3	2.0	2.5
8	X - 26	2.8	2.3	2.8	2.8	2.0	3.0	2.6	2.3	3.0	1.5	3.3	2.3	3.0	2.6
CHECKS:															
9	KH 510	2.8	2.0	2.3	2.8	2.0	3.0	2.5	2.0	2.8	1.5	3.0	2.7	3.0	2.5
10	NAVJOT	3.0	2.8	2.8	3.0	2.3	4.0	3.0	2.5	3.5	3.8	3.5	3.3	3.0	3.3
MEAN LOCATION															
	C.D. AT 5%	0.8	0.2	0.8	0.8	0.7	0.2	0.6	0.8	0.3	1.0	0.7	0.9	0.2	0.6
	C.V. %	22.7	5.5	26.9	17.4	18.3	4.9	-	25.1	6.4	35.8	15.5	19.8	5.3	-
	F (Prob)	.086	.000	.000	.000	.018	.000	-	.000	.000	.000	.153	.158	.000	-

TABLE NO. 29 (CONT.)

Sl NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 4 MEAN				
		KARI	ARBH	BANG MONS	ZAUR	KARI	ARBH	BANG MONS	ZAUR					
1	E C - 3121	2.0	2.3	2.0	2.5	2.3	3.0	2.3	3.0	2.8	2.3	2.5	3.0	2.8
2	B H - 2359	2.8	2.3	2.5	2.5	2.3	2.0	2.4	2.8	2.3	1.3	1.8	3.0	2.2
3	H K H - 1203	2.3	2.8	2.8	3.0	3.0	2.8	2.8	2.5	2.3	2.8	3.0	2.8	2.5
4	H K H - 1208	1.5	2.5	2.3	3.3	2.3	3.0	2.5	2.5	2.3	4.0	3.8	3.0	2.9
5	SEEDTEC - 1081	2.3	2.0	2.0	3.8	1.7	2.0	2.3	2.3	2.3	1.0	3.8	2.0	2.2
6	P M Z - 131	1.5	2.0	2.0	3.3	2.0	2.0	2.1	2.3	2.5	2.0	3.8	2.0	2.4
7	P M Z - 237	2.5	2.5	2.3	3.0	2.0	2.0	2.4	2.5	2.5	2.0	3.0	2.0	2.3
8	X - 26	2.0	2.3	2.3	3.0	2.0	3.0	2.4	2.5	2.3	1.0	3.0	3.0	2.3
CHECKS:														
9	KH 510	2.5	2.3	2.5	3.5	2.0	3.0	2.6	2.5	2.8	1.3	3.0	3.0	2.4
10	NAVJOT	2.3	2.8	2.0	3.3	2.3	3.0	2.6	3.0	3.0	4.0	3.0	3.0	3.1
MEAN LOCATION														
	C.D. AT 5%	0.8	0.3	0.6	0.7	0.7	0.2	0.5	0.9	0.3	0.9	0.5	0.8	0.6
	C.V. %	27.8	7.7	16.9	14.6	18.3	5.1	-	24.8	9.3	29.6	11.6	20.7	-
	F (Prob)	.057	.000	.016	.028	.058	.000	-	.629	.000	.000	.000	.029	.000

Sl NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 4 MEAN				
		KANC	KARI	BANG MONS	ZAUR	BAKA	KARI	BANG MONS	ZAUR					
1	E C - 3121	249	197	269	208	205	172	216	106	84	140	95	94	99
2	B H - 2359	255	204	279	223	212	183	226	116	93	158	118	107	115
3	H K H - 1203	226	177	240	195	182	156	196	95	79	118	86	80	90
4	H K H - 1208	214	138	191	194	167	143	174	86	66	103	85	83	82
5	SEEDTEC - 1081	229	184	265	213	209	176	213	96	77	143	100	104	101
6	P M Z - 131	240	175	268	215	205	161	211	99	78	140	99	100	99
7	P M Z - 237	223	180	270	228	197	166	210	84	76	106	100	96	90
8	X - 26	248	170	266	210	210	175	213	101	74	125	91	95	95
CHECKS:														
9	KH 510	235	174	264	210	208	175	211	99	68	126	94	94	94
10	NAVJOT	248	171	266	208	211	161	211	103	81	130	103	90	98
MEAN LOCATION														
	C.D. AT 5%	22.1	13.0	12.4	21.4	14.2	9.5	15.4	12.9	11.9	14.0	13.2	13.5	11.9
	C.V. %	6.5	5.2	3.3	6.9	4.2	3.9	-	9.2	10.8	7.4	9.5	8.4	-
	F (Prob)	.008	.000	.000	.002	.000	.000	-	.000	.018	.000	.005	.000	.000

TABLE NO. 29 (CONT.)

S1 NO	PEDIGREE	EAR No. / PLANT				BANG				H. turcicum *			
		KANC	BAKA	KARI	MONS	ZOUR	ARBH	MONS	MAND	COIM	ZN 4 MEAN	BANG MONS	BANG ZOUR
1	E C - 3121	0.97	0.93	1.10	0.99	0.99	0.98	0.96	0.99	0.99	3.3	1.5	2.4
2	B H - 2359	0.98	0.97	1.03	1.04	0.99	0.99	1.00	1.00	1.00	3.0	2.3	2.6
3	H K H - 1203	0.97	0.91	1.08	0.96	0.99	0.99	0.96	0.98	0.98	4.0	2.0	3.0
4	H K H - 1208	0.99	0.90	1.01	1.00	0.95	1.00	0.98	0.98	0.98	3.5	3.0	3.3
5	SEEDTEC - 1081	1.03	1.01	1.05	1.02	0.96	0.96	0.98	1.01	1.01	2.8	3.0	2.9
6	P M Z - 131	0.97	0.92	0.94	0.95	1.03	0.95	0.96	0.96	0.96	3.5	3.0	3.3
7	P M Z - 237	1.00	0.98	0.97	0.99	1.00	1.00	1.03	0.99	0.99	3.8	2.8	3.3
8	X - 26	0.98	0.90	1.05	0.98	1.00	1.00	1.00	0.99	0.99	3.0	3.0	3.0
CHECKS:													
9	KH 510	0.99	0.94	0.99	0.95	0.97	0.98	0.98	0.97	0.97	3.5	3.0	3.3
10	NAVJOT	0.97	0.96	0.99	0.99	1.01	1.00	1.00	0.99	0.99	3.5	2.5	3.0
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													
H. may. STAND AT HARVEST													
S1 NO	PEDIGREE	ZOUR	BAKA	KARI	ARBH	BANG MONS	BANG ZOUR	MAND	COIM	ZN 4 MEAN	BANG MONS	BANG ZOUR	ZN 4 MEAN
1	E C - 3121	2.0	61	104	93	39	54	65	71	70	71	70	70
2	B H - 2359	1.8	66	109	109	40	52	89	89	80	89	80	80
3	H K H - 1203	2.0	57	100	83	38	50	65	77	67	77	67	67
4	H K H - 1208	3.3	50	93	91	40	68	61	79	69	79	69	69
5	SEEDTEC - 1081	3.3	59	93	100	42	63	81	87	75	87	75	75
6	P M Z - 131	3.3	67	90	90	40	68	82	86	75	86	75	75
7	P M Z - 237	3.0	64	92	97	41	60	82	83	74	83	74	74
8	X - 26	3.0	66	92	100	42	63	73	76	73	76	73	73
CHECKS:													
9	KH 510	3.0	67	90	99	41	69	76	81	75	81	75	75
10	NAVJOT	2.8	55	99	100	41	67	72	75	73	75	73	73
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 5 ENTRIES)

TABLE NO. 30

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS IN ZONE-V, AT UDAIPUR, CHHINDIWARA IN AET 2nd YEAR, TRIAL NO. TR70Z5 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT			GRAIN YIELD %			SUPERIORITY			THE		
		UDAI	R	CHHI	ZN 5	MEAN	R	UDAI	CHHI	UDAI	CHHI	ZN 5	MEAN
1	SEEDTEC - 1081	7728	2	11674	1	9701	1	26.42	40.77	34.68	85.66	130.44	110.24
2	P M Z - 237	5782	4	8322	6	7052	4	-	0.35	-	38.90	64.28	52.83
3	X - 26	5545	7	7630	9	6588	8	-	-	-	33.21	50.62	42.77
CHECKS:													
4	KH 510	6113	3	8293	7	7203	3	-	-	-	46.86	63.71	56.11
5	NAVJOT	4162	10	5066	10	4614	10	-	-	-	-	-	-
	MEAN YIELD=	5794		8450		7122							
	MEAN STAND	93		109		101							
	C.D. AT 5%	473		690		581							
	C.V. %	5.65		5.64		-							
	F (Prob)	.000		.000		-							
	PLOT SIZE=	18.00		16.80		-							
AGRONOMY DATA:													
	SOWING DATE(2004)	1-07		30-06		-							
	HARVEST DATE(2004)	11-10		27-10		-							
	IRRIGATION Nos	-		-		-							
	FERTILIZER APP. N	90		100		-							
	P	60		60		-							
	K	-		40		-							

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : GODH 25.1%

TABLE NO. 30 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	SEEDTEC - 1081	56.0	56.8	56.4	58.5	57.5	58.0	86.8	93.3	90.0	22.8	17.4	20.1
2	P M Z - 237	54.3	53.0	53.6	56.3	54.0	55.1	85.8	89.8	88.3	21.1	15.9	18.5
3	X - 26	52.3	53.3	52.8	54.5	55.8	55.1	82.5	85.8	84.1	18.4	12.9	15.7
CHECKS:													
4	KH 510	53.3	53.0	53.1	56.0	55.0	55.5	84.5	89.5	87.0	22.5	17.8	20.2
5	NAVJOT	53.0	53.8	53.4	56.0	55.3	55.6	84.5	86.0	85.3	19.4	14.8	17.0
MEAN LOCATION													
	C.D. AT 5% =	1.3	1.7	1.5	1.0	1.9	1.4	1.0	1.6	1.3	0.3	0.7	0.5
	C.V. % =	1.7	2.2	1.8	1.0	2.4	1.4	0.8	1.3	1.0	1.1	3.2	1.0
	F (Prob) =	.000	.001	.001	.000	.001	.001	.000	.000	.000	.000	.000	.000

S1 NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	SEEDTEC - 1081	1.7	1.0	1.4	1.5	1.0	1.3	1.5	1.0	1.2	2.3	1.0	1.6
2	P M Z - 237	2.2	1.0	1.6	1.7	1.3	1.5	1.9	1.3	1.6	2.1	1.5	1.8
3	X - 26	2.3	1.8	2.0	1.7	1.3	1.5	1.6	1.5	1.6	2.1	1.8	1.9
CHECKS:													
4	KH 510	1.8	1.0	1.4	1.8	1.0	1.4	1.8	1.3	1.5	2.1	1.3	1.7
5	NAVJOT	2.8	1.5	2.1	3.0	2.0	2.5	2.7	1.5	2.0	2.5	2.0	2.3
MEAN LOCATION													
	C.D. AT 5% =	0.3	0.1	0.2	0.9	0.3	0.6	0.4	0.3	0.3	0.3	0.4	0.3
	C.V. % =	10.9	5.7	0.2	15.2	13.3	0.3	15.4	13.5	0.3	10.6	10.0	0.3
	F (Prob) =	.000	.000	.000	.000	.000	.000	.000	.000	.000	.009	.000	.000

S1 NO	PEDIGREE	PLANT HEIGHT (CM)			EAR HEIGHT (CM)			EAR NO. PLANT			STAND AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	SEEDTEC - 1081	194	171	183	102.5	90.0	96.3	0.99	0.99	0.99	87	99	93
2	P M Z - 237	203	184	193	82.5	73.8	78.1	1.02	1.02	1.02	80	93	87
3	X - 26	210	176	193	95.0	90.0	92.5	1.00	0.98	0.99	82	116	99
CHECKS:													
4	KH 510	165	183	174	92.5	83.8	88.1	1.00	1.01	1.00	88	108	98
5	NAVJOT	216	174	195	97.5	78.8	88.1	1.04	1.04	1.04	83	116	100
MEAN LOCATION													
	C.D. AT 5% =	36.6	18.1	27.4	17.6	10.5	14.1	-	-	-	93	109	101
	C.V. % =	12.4	6.9	12.7	12.7	8.5	14.2	-	-	-	14.2	14.2	14.2
	F (Prob) =	.113	.117	.029	.572	.029	.029	-	-	-	.003	.008	.008

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 5 ENTRIES)

TABLE NO. 31

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-II, AT KARNAL, PANTNAGAR, KANPUR, MAINPURI (KANPUR) IN AET 2nd YEAR, TRIAL NO. TR71Z2 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												GRAIN YIELD % SUPERIORITY OVER					
		KARNAL				PANTNAGAR				KANPUR				THE PARKASH		KARNAL			
		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	MAIN	MEAN
1	J H - 3851	5292	2	6626	1	4668	8	3873	9	5115	2	-	12.28	-	-	-	-	-	-
2	P M Z - 138	3848	9	3665	11	4599	10	4643	4	4189	11	-	-	-	-	-	-	-	-
3	M C H - 5	3948	8	5229	6	4668	9	5004	2	4712	7	-	-	-	-	-	-	-	-
4	J K M H - 810	4433	7	6474	2	4468	11	4505	5	4970	3	-	9.71	-	-	-	-	-	-
5	X - 2182	4729	5	5111	8	4713	6	4752	3	4826	5	-	-	-	0.55	-	-	-	-
CHECKS:																			
6	PARKASH	5313	1	5901	4	4687	7	5127	1	5257	1	-	-	-	-	-	-	-	-
7	KIRAN	3744	10	4277	9	5278	1	3712	10	4253	10	-	-	-	12.61	-	-	-	-
8	MAHI KANCHAN	3662	11	5418	5	5236	2	4477	6	4698	8	-	-	-	11.71	-	-	-	-
9	X - 3342	4891	3	5176	7	4824	5	4231	7	4781	6	-	-	-	2.92	-	-	-	-
	MEAN YIELD=	4492		5261		4829		4373		4739									
	MEAN STAND	71		78		100		99		87									
	C.D. AT 5%	227		1888		296		495		727									
	C.V. %	2.98		24.91		3.61		6.67		-									
	F (Prob)	.000		.000		.000		.000		-									
	PLOT SIZE=	13.50		22.50		18.00		18.00		-									
AGRONOMY DATA:																			
	SOWING DATE(2004)	22-06		-		24-06		14-07		-									
	HARVEST DATE(2004)	22-07		6-10		22-09		15-10		-									
	IRRIGATION NOS	4		-		-		-		-									
	FERTILIZER APP.N	150		120		80		80		-									
	P	60		60		40		40		-									
	K	40		-		40		40		-									

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 30%) : LUD1 32.5% : LUD2 36.0%

TABLE NO. 31 (CONT.)

S1 NO	PEDIGREE	GRAIN YIELD %		SUPERIORITY OVER THE X		THE MAHI KANCHAN PANT		KAMP		Zn 2 MEAN	
		KARN	PANT	KAMP	MAIN	KARN	PANT	KAMP	MAIN	KAMP	MAIN
1	J H - 3851	41.32	54.92	-	4.34	20.26	44.48	22.29	-	-	8.86
2	P M Z - 138	2.76	-	-	25.08	-	5.06	-	-	3.71	-
3	M C H - 5	5.44	22.25	-	34.81	10.80	7.80	-	-	11.78	0.29
4	J K M H - 810	18.38	51.37	-	21.37	16.86	21.03	19.49	-	0.64	5.78
5	X - 2182	26.29	19.50	-	28.01	13.48	29.12	-	-	6.14	2.72
CHECKS:											
6	PARKASH	41.90	37.97	-	38.12	23.61	45.08	8.91	-	14.53	11.89
7	KIRAN	-	-	-	-	-	2.24	-	0.80	-	-
8	MAHI KANCHAN	-	26.68	-	20.60	10.47	-	-	-	-	-
9	X - 3342	30.63	21.02	-	13.98	12.41	33.55	-	-	-	1.75

S1 NO	PEDIGREE	GRAIN YIELD %		SUPERIORITY OVER THE X		3342 ZN 2 MEAN		DAYS TO 50% POLLEN SHED		Zn 2 MEAN	
		KARN	PANT	KAMP	MAIN	KARN	PANT	KARN	PANT	KAMP	MAIN
1	J H - 3851	8.19	28.01	-	-	6.99	50.3	52.0	51.4	52.0	51.4
2	P M Z - 138	-	-	-	9.74	-	53.3	51.5	52.6	53.0	52.6
3	M C H - 5	-	1.02	-	18.28	-	53.7	53.0	53.2	53.0	53.2
4	J K M H - 810	-	25.07	-	6.48	3.96	51.3	51.0	51.4	52.0	51.4
5	X - 2182	-	-	-	12.31	0.95	52.3	52.7	53.1	54.3	53.1
CHECKS:											
6	PARKASH	8.63	14.00	-	21.18	9.97	49.3	54.5	51.3	50.0	51.3
7	KIRAN	-	-	9.42	-	-	49.7	52.0	50.6	50.0	50.6
8	MAHI KANCHAN	-	4.68	8.55	5.81	-	49.3	53.5	50.5	48.7	50.5
9	X - 3342	-	-	-	-	-	50.0	54.7	51.9	51.0	51.9
MEAN LOCATION											
C.D. AT 5% =		-	-	-	-	-	1.3	1.1	1.2	1.2	1.2
C.V. % =		-	-	-	-	-	1.5	1.2	1.3	1.3	-
F (Prob)		-	-	-	-	-	.000	.000	.000	.000	-

TABLE NO. 31 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING				DAYS TO 50% DRY HUSK				MOISTURE %	
		KARN	PANT	KANP MAIN	ZN 2 MEAN	KARN	KANP	KANP MAIN	ZN 2 MEAN	-URE	PANT
1	J H - 3851	53.3	56.0	57.0	56.1	81.0	79.0	80.7	80.2	27.2	
2	P M Z - 138	55.3	61.0	56.5	57.7	83.7	79.5	83.3	82.2	29.8	
3	M C H - 5	56.7	58.0	58.0	57.7	85.0	79.0	83.7	82.6	28.3	
4	J K M H - 810	53.3	55.8	56.0	55.5	82.0	78.0	80.0	80.0	25.3	
5	X - 2182	54.7	56.0	57.7	56.8	82.0	79.7	85.0	82.2	27.4	
CHECKS:											
6	PARKASH	51.3	54.5	59.5	55.1	83.0	80.5	81.3	81.6	26.2	
7	KIRAN	52.7	56.0	57.0	54.9	82.0	80.0	78.0	80.0	27.4	
8	MAHI KANCHAN	52.0	53.8	58.5	54.6	82.0	80.5	77.7	80.1	25.6	
9	X - 3342	52.3	55.0	58.7	55.5	83.0	79.7	81.7	81.4	29.1	
MEAN LOCATION											
		53.9	56.3	57.8	56.1	82.8	79.9	81.3	81.3	27.8	
	C.D. AT 5% =	0.6	1.8	0.8	1.1	1.2	1.1	2.6	1.6	2.3	
	C.V. % =	0.7	2.2	0.8	1.2	0.8	0.8	1.9	-	5.7	
	F (Prob)	.000	.000	.000	.000	.000	.000	.000	-	.000	

SI NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *				HUSK COVER *				UNIFORMITY *			
		KANP	MAIN	ZN 2 MEAN		KANP	MAIN	ZN 2 MEAN		KANP	MAIN	ZN 2 MEAN		KANP	MAIN	ZN 2 MEAN	
1	J H - 3851	3.0	2.7	2.8	2.8	2.8	2.3	2.6	2.6	2.8	2.5	2.7	3.0	2.2	2.2	2.6	
2	P M Z - 138	2.8	3.0	2.9	2.8	2.8	2.7	2.7	2.7	2.5	3.0	2.8	3.0	2.7	2.7	2.8	
3	M C H - 5	3.0	3.0	3.0	3.5	2.8	3.2	3.2	3.0	3.5	2.7	3.1	3.0	3.0	3.0	3.0	
4	J K M H - 810	2.5	2.5	2.5	2.5	3.0	2.8	2.8	2.8	2.8	2.5	2.6	2.5	2.7	2.7	2.6	
5	X - 2182	2.7	2.8	2.8	2.5	2.5	2.5	2.5	2.5	2.7	2.3	2.5	2.7	2.2	2.2	2.4	
CHECKS:																	
6	PARKASH	3.0	2.8	2.9	2.5	2.7	2.7	2.6	2.6	2.8	2.5	2.6	3.0	2.5	2.5	2.8	
7	KIRAN	2.5	2.7	2.6	3.0	2.7	2.7	2.8	2.8	3.0	2.5	2.8	2.5	2.7	2.7	2.6	
8	MAHI KANCHAN	2.8	2.7	2.7	2.3	2.8	2.8	2.5	2.5	2.3	2.7	2.5	2.8	2.8	2.8	2.8	
9	X - 3342	3.0	2.8	2.9	2.7	2.8	2.8	2.8	2.8	2.7	2.8	2.8	2.8	2.5	2.5	2.7	
MEAN LOCATION																	
		2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.6	2.7	2.8	2.6	2.6	2.7	
	C.D. AT 5% =	0.3	0.4	0.3	0.4	0.7	0.7	0.5	0.5	0.5	0.6	0.5	0.3	0.4	0.4	0.3	
	C.V. % =	5.9	8.6	-	9.2	14.2	-	-	-	9.6	13.5	-	6.3	8.6	-	-	
	F (Prob)	.001	.221	-	.001	.626	-	-	-	.003	.370	-	.002	.003	-	-	

TABLE NO. 31 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			KARNP MAIN	Zn 2 MEAN		
		KARN	PANT	KANP	KARN	PANT	KANP				
1	J H - 3851	183	208	168	139	175	78	83	90	54	76
2	P M Z - 138	163	188	173	136	165	80	74	76	60	72
3	M C H - 5	177	204	183	139	176	85	86	71	59	75
4	J K M H - 810	175	210	158	136	170	78	82	77	61	75
5	X - 2182	205	235	169	145	189	97	95	82	56	82
CHECKS:											
6	PARKASH	195	222	164	154	184	97	96	75	60	82
7	KIRAN	205	227	162	149	186	107	96	71	60	84
8	MAHI KANCHAN	172	222	175	149	179	95	92	75	61	80
9	X - 3342	203	239	171	140	188	102	95	81	65	86
MEAN LOCATION											
	C.D. AT 5%	9.9	12.5	8.7	27.6	14.7	9.4	7.8	12.7	20.2	12.5
	C.V. %	3.1	4.0	3.1	11.5	-	6.0	6.0	9.6	20.1	-
	F (Prob)	.000	.000	.000	.726	-	.000	.000	.175	.983	-
STAND AT HARVEST											
Sl No	PEDIGREE	KARNP MAIN			Zn 2 MEAN						
		KARN	PANT	KANP							
1	J H - 3851	76	101	98	96	93					
2	P M Z - 138	63	40	99	101	76					
3	M C H - 5	79	83	98	99	90					
4	J K M H - 810	76	93	99	98	91					
5	X - 2182	69	94	100	100	91					
CHECKS:											
6	PARKASH	64	71	99	104	85					
7	KIRAN	76	95	104	96	93					
8	MAHI KANCHAN	65	76	99	97	84					
9	X - 3342	67	95	101	100	91					
MEAN LOCATION											
	C.D. AT 5%	5.7	16.3	2.3	3.1	6.9					
	C.V. %	4.8	14.5	1.4	1.8	-					
	F (Prob)	.000	.000	.000	.001	-					

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 2 ENTRIES)

TABLE NO. 32

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-III, AT BELLIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR IN AET 2nd YEAR, TRIAL No. TR71Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 3			
		BELI	VARA	DHOL	R	KUSH	R	JASH	R	AMBI	R	MEAN	R		
1	J H - 3851	5828	4	5810	2	4258	4	3696	5	4528	7	6937	3	5176	3
2	M C H - 6	5869	3	5693	4	4045	6	4049	1	5102	1	6981	2	5290	2
3	X - 2182	5177	7	5247	7	4499	1	3318	7	4958	2	6276	5	4913	5
CHECKS:															
4	MAHI KANCHAN	4474	10	4345	9	2526	10	2181	10	4023	10	4024	10	3596	10
5	X - 3342	5409	5	5537	6	4145	5	3338	6	4891	4	6106	6	4904	6
6	PARKASH	5382	6	5093	8	3681	8	2943	8	4908	3	5714	8	4620	8
7	KIRAN	4513	9	4211	10	3117	9	2305	9	4179	9	5103	9	3905	9
MEAN YIELD=		5454		5381		3922		3344		4648		6108		4810	
MEAN STAND		104		110		106		88		96		128		105	
C.D. AT 5%		655		408		877		639		81		597		543	
C.V. %		8.31		4.43		15.47		13.21		1.20		6.75		-	
F (Prob)		.000		.000		.000		.000		.000		.000		-	
PLOT SIZE=		18.00		22.50		22.50		22.50		18.00		18.00		-	
AGRONOMY DATA:															
SOWING DATE (2004)		28-06		28-06		25-06		11-07		5-07		23-06		-	
HARVEST DATE (2004)		30-09		27-09		2-11		19-10		21-10		-		-	
IRRIGATION Nos		2		2		-		2		-		-		-	
FERTILIZER APPLIED N		120		80		100		120		120		80		-	
P		60		40		60		60		60		50		-	
K		60		40		40		40		60		30		-	

TABLE NO. 32 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE KIRAN												
Sl No	PEDIGREE	GORA BELI		VARA		DHOL		KUSH		JASH		ZN 3
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN				
1	J H - 3851	29.13	37.98	36.61	60.33	8.34	35.93	32.56				
2	M C H - 6	30.04	35.20	29.80	75.68	22.07	36.79	35.48				
3	X - 2182	14.71	24.61	44.37	43.96	18.64	22.98	25.82				
CHECKS:												
4	MAHI KANCHAN	19.86	31.49	33.00	44.82	17.02	19.65	25.60				
5	X - 3342	19.25	20.96	18.12	27.70	17.45	11.96	18.33				
6	PARKASH											
7	KIRAN											

DAYS TO 50% POLLEN SHED												
Sl No	PEDIGREE	GORA BELI		VARA		DHOL		KUSH		JASH		ZN 3
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN				
1	J H - 3851	52.3	48.7	55.0	48.8	49.3	48.3	50.4	54.3	52.7	57.0	52.3
2	M C H - 6	52.0	48.7	54.5	50.5	48.5	50.5	50.8	54.0	50.7	57.3	51.5
3	X - 2182	53.3	50.7	57.5	51.5	50.3	50.0	52.2	55.3	53.0	61.0	54.0
CHECKS:												
4	MAHI KANCHAN	52.5	46.7	54.5	47.0	45.0	44.0	48.3	54.5	52.3	57.5	49.3
5	X - 3342	52.0	48.3	54.5	48.8	46.5	47.3	49.6	54.0	52.0	57.5	50.0
6	PARKASH	52.3	47.7	53.8	47.8	46.3	48.3	49.3	54.3	51.7	56.8	49.5
7	KIRAN	52.8	46.3	54.5	48.5	44.8	45.8	48.8	54.8	51.3	57.5	47.8
MEAN LOCATION												
	C.D. AT 5%	0.7	1.8	2.7	4.9	2.4	4.7	5.0	5.4	3.2	7.0	5.0
	C.V. %	0.9	2.5	3.0	2.1	1.4	1.7	1.5	1.0	0.8	2.0	1.8
	F (Prob)	.002	.008	.014	.002	.000	.000	.000	.009	.919	.003	.000

DAYS TO 50% SILKING												
Sl No	PEDIGREE	GORA BELI		VARA		DHOL		KUSH		JASH		ZN 3
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN				
1	J H - 3851	79.8	82.3	91.0	86.5	86.5	91.3	86.2	86.2	23.4	34.3	25.3
2	M C H - 6	72.8	81.3	88.5	88.3	88.3	90.5	84.3	84.3	23.1	31.4	21.8
3	X - 2182	79.8	85.0	93.5	86.3	86.3	92.3	87.3	87.3	23.8	33.4	25.1
CHECKS:												
4	MAHI KANCHAN	77.8	80.3	86.3	82.0	82.0	87.3	82.7	82.7	23.4	31.0	27.9
5	X - 3342	79.5	81.0	92.8	85.8	85.8	89.8	86.5	86.5	23.0	31.0	25.9
6	PARKASH	80.3	80.3	88.0	85.5	85.5	88.0	84.0	84.0	23.0	30.6	23.5
7	KIRAN	78.7	82.0	89.6	84.6	84.6	89.3	84.8	84.8	23.9	31.5	24.1
MEAN LOCATION												
	C.D. AT 5%	1.5	2.2	2.5	2.1	2.1	2.7	2.1	2.1	3.9	0.9	1.8
	C.V. %	1.3	1.5	1.5	1.7	1.7	1.7	1.7	1.0	0.9	0.5	1.1
	F (Prob)	.000	.009	.000	.000	.000	.001	.000	.009	.667	.000	.000

MOISTURE % AT HARVEST												
Sl No	PEDIGREE	GORA BELI		VARA		DHOL		KUSH		JASH		ZN 3
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	MEAN				
1	J H - 3851	79.8	82.3	91.0	86.5	86.5	91.3	86.2	86.2	23.4	34.3	25.3
2	M C H - 6	72.8	81.3	88.5	88.3	88.3	90.5	84.3	84.3	23.1	31.4	21.8
3	X - 2182	79.8	85.0	93.5	86.3	86.3	92.3	87.3	87.3	23.8	33.4	25.1
CHECKS:												
4	MAHI KANCHAN	77.8	80.3	86.3	82.0	82.0	87.3	82.7	82.7	23.4	31.0	27.9
5	X - 3342	79.5	81.0	92.8	85.8	85.8	89.8	86.5	86.5	23.0	31.0	25.9
6	PARKASH	80.3	80.3	88.0	85.5	85.5	88.0	84.0	84.0	23.0	30.6	23.5
7	KIRAN	78.7	82.0	89.6	84.6	84.6	89.3	84.8	84.8	23.9	31.5	24.1
MEAN LOCATION												
	C.D. AT 5%	1.5	2.2	2.5	2.1	2.1	2.7	2.1	2.1	3.9	0.9	1.8
	C.V. %	1.3	1.5	1.5	1.7	1.7	1.7	1.7	1.0	0.9	0.5	1.1
	F (Prob)	.000	.009	.000	.000	.000	.001	.000	.009	.667	.000	.000

TABLE NO. 32 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *					EAR ASPECT *					ZN 3 MEAN			
		GORA BELI	VARA DHOL	KUSH JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA DHOL	KUSH JASH	AMBI					
1	J H - 3851	2.0	1.5	2.0	3.0	1.5	2.4	2.1	1.8	1.5	1.9	2.5	1.8	2.4	2.0
2	M C H - 6	2.3	1.5	2.5	2.6	1.0	2.5	2.1	1.8	1.5	2.3	2.3	1.3	2.6	1.9
3	X - 2182	2.4	2.0	2.0	3.4	2.0	2.5	2.4	2.4	1.8	2.0	3.0	2.0	2.4	2.3
CHECKS:															
4	MAHI KANCHAN	2.5	2.5	3.0	3.1	2.8	2.7	2.8	2.5	1.8	3.3	2.6	3.0	3.0	2.7
5	X - 3342	2.0	1.8	2.5	2.8	1.0	2.4	2.1	2.1	1.5	2.1	2.3	1.8	2.7	2.1
6	PARKASH	2.5	1.8	2.1	3.0	2.0	2.5	2.3	2.0	2.0	2.4	2.5	2.0	2.5	2.2
7	KIRAN	2.5	2.0	3.3	3.0	2.0	2.7	2.6	2.3	1.8	2.8	2.6	2.3	2.8	2.4
MEAN LOCATION															
	C.D. AT 5% =	0.3	0.2	0.6	0.5	0.4	0.3	0.4	0.4	0.3	0.8	0.5	0.5	0.4	0.5
	C.V. % =	8.7	7.8	17.1	12.0	14.7	9.6	-	12.3	10.3	23.9	14.5	18.2	10.3	-
	F (Prob)	.000	.000	.002	.028	.000	.524	-	.000	.050	.010	.046	.000	.053	-

SI NO	PEDIGREE	HUSK COVER *					UNIFORMITY *				
		GORA BELI	VARA DHOL	JASH	AMBI	ZN 3 MEAN	GORA BELI	VARA DHOL	JASH	AMBI	
1	J H - 3851	2.4	1.8	1.8	1.3	2.5	2.0	1.8	1.9	2.0	2.4
2	M C H - 6	2.1	2.0	2.9	1.5	2.5	2.4	2.5	2.1	1.8	2.5
3	X - 2182	2.3	1.8	2.1	1.5	2.5	2.5	1.5	2.3	2.5	2.5
CHECKS:											
4	MAHI KANCHAN	2.4	2.3	2.4	3.0	2.8	2.8	3.0	3.0	3.0	2.6
5	X - 3342	2.3	2.3	2.6	1.8	2.6	2.4	2.8	2.6	2.3	2.5
6	PARKASH	2.3	2.3	2.9	2.0	2.5	2.6	2.3	2.4	2.0	2.5
7	KIRAN	2.4	1.5	2.4	2.0	2.7	2.6	2.3	3.0	2.8	2.6
MEAN LOCATION											
	C.D. AT 5% =	0.5	0.3	0.5	0.6	0.4	0.4	0.2	0.9	0.5	0.3
	C.V. % =	16.4	9.2	15.5	21.0	10.2	11.3	5.7	27.1	16.0	8.4
	F (Prob)	.730	.000	.005	.000	.045	.013	.000	.184	.000	.010

TABLE NO. 32 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 3 MEAN				
	GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	GORA BELI	VARA		DHOL	KUSH	JASH	AMBI
1 J H - 3851	155	230	134	172	158	225	63	90	64	81	71	87	179
2 M C H - 6	157	245	154	178	163	217	68	105	79	90	75	91	186
3 X - 2182	165	250	150	171	179	230	61	95	66	70	81	85	191
CHECKS:													
4 MAHI KANCHAN	161	250	138	192	171	226	66	98	63	99	78	84	190
5 X - 3342	159	248	138	178	177	234	63	90	57	84	78	81	189
6 PARKASH	150	258	141	184	168	227	58	123	65	90	84	93	188
7 KIRAN	150	258	141	179	173	229	54	110	60	94	81	97	188
MEAN LOCATION	159	248	145	181	168	229	62	102	66	87	76	87	188
C.D. AT 5%	14.4	7.5	14.7	10.6	5.7	17.4	9.2	13.3	13.8	11.7	4.9	14.2	11.7
C.V. %	6.3	1.8	7.0	4.0	2.3	5.2	10.3	7.6	14.4	9.3	4.4	11.2	-
F (Prob)	.211	.000	.066	.007	.000	.559	.067	.000	.150	.003	.000	.351	-

S1 NO PEDIGREE	EAR No. / PLANT				H. STAND AT HARVEST				ZN 3 MEAN					
	GORA BELI	VARA	KUSH	JASH	AMBI	JASH	AMBI	GORA BELI		VARA	DHOL	KUSH	JASH	AMBI
1 J H - 3851	0.99	0.99	0.88	1.00	1.01	3.0	3.0	108	108	109	90	98	140	109
2 M C H - 6	0.99	0.97	0.99	1.00	1.01	2.1	3.3	113	107	116	88	97	132	109
3 X - 2182	0.98	0.98	0.90	1.00	1.00	2.6	3.3	99	113	101	41	90	119	94
CHECKS:														
4 MAHI KANCHAN	1.00	0.97	0.92	1.00	1.03	4.0	3.4	101	108	99	93	95	124	103
5 X - 3342	0.99	0.99	0.95	1.00	1.00	2.6	3.4	104	114	116	93	98	134	110
6 PARKASH	0.98	0.97	0.99	1.00	1.01	2.6	3.4	96	108	93	88	95	118	100
7 KIRAN	1.00	1.00	0.91	1.00	0.99	3.9	3.4	100	108	107	99	99	130	107
MEAN LOCATION	-	-	-	-	-	2.9	3.2	104	110	106	88	96	128	105
C.D. AT 5%	-	-	-	-	-	0.5	0.3	6.5	6.7	13.5	26.8	5.3	12.4	11.9
C.V. %	-	-	-	-	-	12.6	7.0	4.3	3.6	8.7	21.0	3.8	6.7	-
F (Prob)	-	-	-	-	-	.000	.063	.000	.275	.022	.001	.070	.035	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 3 ENTRIES) .

TABLE NO. 33

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-IV, AT BAKA KANCHAN GANGA, BISCO HYDERABAD, JK SEED HYDERABAD, KARIMNAGAR, ARBHAVI, PROAGRO BANGALORE, MONSANTO BANGLORE, ZUARI SEED'S, MANDYA, COIMBATORE, KOLHAPUR IN AET 2nd YEAR, TRIAL NO. TR71Z4 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												BANG		
		KANC		HYDE		HYDE		JKSE		KARI		ARBH		R	R	
		BAKA	R	BISC	R	HYDE	R	JKSE	R	KARI	R	ARBH	R	PROA	R	
1	B H - 2862	8274	2	4104	9	4659	14	1993	12	5016	8	7379	9			
2	P M Z - 135	7490	6	4670	5	6161	7	2298	11	5303	7	8837	5			
3	P M Z - 138	7023	10	4566	6	5860	8	3923	2	4980	9	8179	8			
4	M C H - 5	6329	12	5057	4	7640	2	3375	3	5562	6	7050	10			
5	M C H - 6	6602	11	5565	1	5831	9	4002	1	5593	5	6713	11			
6	J K M H - 810	7650	5	4512	7	6364	6	3127	5	6830	1	11162	2			
7	X - 2182	8340	1	4287	8	6548	4	2624	9	5761	4	8956	4			
CHECKS:																
8	MAHI KANCHAN	6090	14	2510	15	3454	15	1704	15	3133	15	2514	15			
9	X - 3342	7079	9	4089	10	5112	11	1981	13	4483	12	4442	13			
10	PARKASH	6176	13	3707	12	6416	5	2718	8	4541	11	4984	12			
11	KIRAN	5713	15	3414	14	4693	12	1720	14	3610	14	2673	14			
	MEAN YIELD=	7143		4277		5907		2746		5061		7488				
	MEAN STAND	63		46		138		96		98		62				
	C.D. AT 5%=	1027		1000		877		586		671		925				
	C.V. % =	10.09		14.00		10.42		14.97		9.31		8.67				
	F (Prob)	.000		.000		.000		.000		.000		.000				
	PLOT SIZE=	12.00		9.60		22.50		18.00		22.50		11.05				
AGRONOMY DATA:																
	SOWING DATE(2004)	5-06		19-07		1-07		414-07		15-07		7-07				
	HARVEST DATE(2004)	18-09		13-11		4-11		30-10		8-12		-				
	IRRIGATION NOS	8		5		6		-		8		-				
	FERTILIZER APPLIED N	120		120		120		80		150		150				
	P	60		60		60		60		75		60				
	K	40		30		40		40		38		40				
LOCATIONS REJECTED DUE TO HIGH C.V. (i.e.> 30%) : HYDE 30.4%																

TABLE NO. 33 (CONT.)

Sl NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 4	
	BANG												MEAN	R
	MONS	R	ZUAR	R	MAND	R	COIM	R	KOLH	R	MEAN	R		
1 B H - 2862	2536	11	4705	9	5294	13	3992	11	2949	9	4627	11		
2 P M Z - 135	3316	5	4609	11	6830	4	4165	9	4173	2	5259	6		
3 P M Z - 138	2973	8	6776	2	6343	8	4697	5	2407	12	5248	7		
4 M C H - 5	3034	7	6633	4	6517	7	5563	1	4029	3	5526	4		
5 M C H - 6	2675	10	5609	8	6639	6	4819	4	3465	5	5228	8		
6 J K M H - 810	3958	2	6721	3	8250	2	4630	6	3435	6	6058	3		
7 X - 2182	3116	6	4687	10	6778	5	4476	7	3339	7	5356	5		
CHECKS:														
8 MAHI KANCHAN	1694	15	2642	14	4857	15	2629	15	2398	13	3057	15		
9 X - 3342	2446	12	4130	12	6084	9	3878	12	3170	8	4263	12		
10 PARKASH	2371	13	3955	13	4882	14	3822	13	2741	10	4210	13		
11 KIRAN	2088	14	1957	15	6054	10	2792	14	2287	14	3364	14		
MEAN YIELD=	2981		5231		6330		4314		3228		4973			
MEAN STAND	39		64		82		77		112		80			
C.D. AT 5%	588		1172		1298		569		1008		884			
C.V. %	13.84		15.72		12.28		9.26		18.69		-			
F (Prob)	.000		.000		.000		.000		.000		-			
PLOT SIZE=	18.00		12.00		17.50		14.40		18.00		-			
AGRONOMY DATA:														
SOWING DATE(2004)	22-07		26-07		24-07		30-06		22-07		-			
HARVEST DATE(2004)	22-11		10-11		8-12		13-10		4-11		-			
IRRIGATION NO	13		-		6		8		-		-			
FERTILIZER APPLIED N	-		120		150		135		150		-			
P	-		60		75		63		50		-			
K	-		40		40		50		30		-			

TABLE NO. 33 (CONT.)

SI NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN									
	KANC BAKA	HYDE BISC	HYDE JKSE	KARI	ARBH	BANG PROA				
1 B H - 2862	35.86	63.49	34.88	16.91	60.12	193.51				
2 P M Z - 135	22.99	86.05	78.35	34.81	69.28	251.52				
3 P M Z - 138	15.33	81.89	69.64	130.16	58.97	225.35				
4 M C H - 5	3.92	101.45	121.17	98.02	77.53	180.43				
5 M C H - 6	8.40	121.67	68.80	134.81	78.54	167.02				
6 J K M H - 810	25.62	79.75	84.23	83.48	118.01	344.01				
7 X - 2182	36.94	70.76	89.57	53.92	83.90	256.22				
CHECKS:										
8 MAHI KANCHAN	-	-	-	-	-	-				
9 X - 3342	16.24	62.91	47.98	16.23	43.08	76.68				
10 PARKASH	1.40	47.66	85.74	59.47	44.95	98.24				
11 KIRAN	-	36.01	35.86	0.91	15.23	6.34				

SI NO PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN									
	MONS BANG	ZUAR	MAND	COIM	KOLH	ZN 4 MEAN				
1 B H - 2862	49.72	78.09	8.99	51.85	22.96	51.37				
2 P M Z - 135	95.77	74.47	40.63	58.44	74.01	72.05				
3 P M Z - 138	75.50	156.47	30.60	78.68	0.38	71.68				
4 M C H - 5	79.09	151.09	34.18	111.60	68.00	80.78				
5 M C H - 6	57.94	112.30	36.69	83.29	44.49	71.04				
6 J K M H - 810	133.67	154.41	69.86	76.10	43.24	98.18				
7 X - 2182	83.97	77.41	39.56	70.27	39.22	75.20				
CHECKS:										
8 MAHI KANCHAN	-	-	-	-	-	-				
9 X - 3342	44.41	56.33	25.27	47.51	32.17	39.46				
10 PARKASH	39.98	49.69	0.52	45.36	14.31	37.73				
11 KIRAN	23.25	-	24.65	6.20	-	10.04				

TABLE NO. 33 (CONT.)

Sl NO PEDIGREE	GRAIN YIELD * SUPERIORITY OVER THE KIRAN							BANG PROA
	KANC BAKA	HYDE BISC	HYDE JKSE	KARI	ARBH	ARBH	PROA	
1 B H - 2862	44.84	20.20	-	15.85	38.95	38.95	176.02	
2 P M Z - 135	31.11	36.79	31.27	33.59	46.90	46.90	230.57	
3 P M Z - 138	22.95	33.74	24.87	128.07	37.95	37.95	205.97	
4 M C H - 5	10.78	48.12	62.79	96.23	54.06	54.06	163.72	
5 M C H - 6	15.56	62.99	24.25	132.69	54.93	54.93	151.11	
6 J K M H - 810	33.92	32.16	35.61	81.82	89.19	89.19	317.55	
7 X - 2182	45.99	25.55	39.53	52.53	59.59	59.59	235.00	
CHECKS:								
8 MAHI KANCHAN	6.61	-	-	-	-	-	-	
9 X - 3342	23.91	19.78	8.92	15.18	24.17	24.17	66.15	
10 PARKASH	8.10	8.57	36.71	58.02	25.78	25.78	86.43	
11 KIRAN	-	-	-	-	-	-	-	

Sl NO PEDIGREE	GRAIN YIELD * SUPERIORITY OVER THE KIRAN							ZN 4 MEAN
	BANG MONS	ZUAR	MAND	COIM	KOLH	KOLH	MEAN	
1 B H - 2862	21.48	140.46	-	42.98	28.94	28.94	37.57	
2 P M Z - 135	58.84	135.58	12.82	49.19	82.47	82.47	56.36	
3 P M Z - 138	42.39	246.30	4.77	68.24	5.26	5.26	56.02	
4 M C H - 5	45.30	239.03	7.64	99.24	76.17	76.17	64.29	
5 M C H - 6	28.14	186.65	9.66	72.59	51.52	51.52	55.44	
6 J K M H - 810	89.59	243.50	36.26	65.81	50.21	50.21	80.10	
7 X - 2182	49.27	139.55	11.95	60.33	45.99	45.99	59.22	
CHECKS:								
8 MAHI KANCHAN	-	35.02	-	-	4.86	4.86	-	
9 X - 3342	17.17	111.08	0.49	38.89	38.59	38.59	26.73	
10 PARKASH	13.57	102.12	-	36.88	19.87	19.87	25.16	
11 KIRAN	-	-	-	-	-	-	-	

TABLE NO. 33 (CONT.)

SI NO	PEDIGREE	DAYS TO 50 % DRY HUSK				MOISTURE % AT HARVEST				MOISTURE % AT HARVEST			
		HYDE JKSE	KARI MONS	BANG MONS	ZUAR MONS	MAND	COIM	KOLH	ZN 4 MEAN	BISC	HYDE	JKSE	ARBH
1	B H - 2862	90.3	83.8	91.5	80.8	85.7	91.5	94.7	88.3	22.1	14.9	16.4	27.0
2	P M Z - 135	86.0	82.8	95.0	82.5	87.0	90.8	95.0	88.4	20.1	15.5	17.6	26.9
3	P M Z - 138	90.5	82.8	95.5	84.5	87.3	97.5	95.0	90.4	23.1	18.9	17.5	30.0
4	M C H - 5	93.8	82.8	99.0	84.0	88.0	98.5	94.7	91.5	22.3	16.1	17.8	24.0
5	M C H - 6	90.8	82.8	96.0	86.5	87.7	98.5	95.3	91.1	24.0	17.9	16.8	24.2
6	J K M H - 810	89.5	82.3	95.5	83.5	88.7	97.5	95.0	90.3	23.4	15.0	16.4	26.5
7	X - 2182	88.8	82.5	92.0	81.3	85.7	98.0	95.7	89.1	21.4	18.0	15.6	28.6
CHECKS:													
8	MAHI KANCHAN	80.8	82.5	90.0	76.5	84.7	92.5	92.7	85.7	11.6	13.4	15.4	23.3
9	X - 3342	85.0	82.3	91.3	79.8	84.0	91.5	96.0	87.1	19.5	13.9	15.4	25.0
10	PARKASH	94.0	83.8	92.5	78.0	88.3	90.5	94.7	88.8	13.7	14.3	17.3	25.0
11	KIRAN	82.0	82.8	90.0	79.8	85.3	91.8	93.0	86.4	19.2	16.8	15.0	24.6
MEAN LOCATION													
	C.D. AT 5%	2.2	2.5	2.3	2.4	2.8	1.1	2.6	2.3	0.1	0.3	1.7	2.1
	C.V. %	1.7	2.1	1.7	2.1	1.9	0.8	1.7	-	0.3	1.1	7.2	5.7
	F (Prob)	.000	.977	.000	.000	.047	.000	.225	-	.000	.000	.000	.000

SI NO	PEDIGREE	MOISTURE % AT HARVEST				PLANT ASPECT *				MOISTURE % AT HARVEST			
		BANG MONS	ZUAR	MAND	KOLH	ZN 4 MEAN	HYDE JKSE	KARI	ARBH	BANG MONS	ZUAR	MAND	KOLH
1	B H - 2862	20.1	18.1	21.1	19.7	19.9	2.0	3.0	2.0	3.3	3.8	2.0	2.6
2	P M Z - 135	18.9	16.9	20.1	19.4	19.4	1.7	2.8	2.5	2.0	4.0	2.2	2.4
3	P M Z - 138	21.1	20.7	21.4	19.5	21.5	1.9	2.0	2.3	2.3	4.0	2.2	2.4
4	M C H - 5	19.0	16.5	20.5	18.5	19.3	1.8	2.3	2.0	1.0	4.0	2.2	2.3
5	M C H - 6	18.9	17.9	20.2	19.5	19.9	1.8	2.0	2.3	1.8	4.0	2.0	2.3
6	J K M H - 810	21.9	15.9	19.5	18.7	19.7	1.9	3.3	2.0	2.3	3.5	1.8	2.4
7	X - 2182	19.6	17.5	20.4	18.5	20.0	1.6	2.5	2.8	2.8	2.5	2.0	2.4
CHECKS:													
8	MAHI KANCHAN	13.8	12.1	19.0	19.9	16.0	2.6	3.0	3.0	3.5	2.3	3.0	2.9
9	X - 3342	15.2	15.1	19.3	21.2	18.1	1.8	3.0	2.8	3.5	3.0	2.3	2.7
10	PARKASH	17.1	14.5	20.5	15.4	17.2	2.0	2.8	2.5	2.8	2.0	3.0	2.5
11	KIRAN	16.7	15.0	19.5	17.3	18.0	2.5	2.8	3.0	3.8	3.0	2.3	2.8
MEAN LOCATION													
	C.D. AT 5%	3.4	3.3	1.5	2.5	1.9	0.2	0.9	0.2	1.1	0.5	0.7	0.5
	C.V. %	12.5	13.9	4.5	7.7	1.9	6.0	22.8	4.7	31.9	11.6	19.0	14.4
	F (Prob)	.000	.001	.118	.001	-	.000	.072	.000	.000	.000	.016	.004

TABLE NO. 33 (CONT.)

SI NO	PEDIGREE	EAR ASPECT *				HUSK COVER *				ZN 4							
		HYDE JKSE	KARI	ARBH	BANG MONS	ZUAR	MAND	KOLH	MEAN	KARI	ARBH	BANG MONS	ZUAR	MAND	KOLH	MEAN	
1	B H - 2862	1.8	1.3	2.0	3.3	3.0	2.0	1.5	2.1	2.3	2.0	2.3	2.0	2.3	2.3	3.3	
2	P M Z - 135	1.9	2.0	2.5	2.3	3.5	3.0	1.5	2.4	1.5	3.0	2.3	2.5	2.5	2.3	3.8	
3	P M Z - 138	1.9	1.0	2.5	2.5	3.3	2.7	1.8	2.2	1.8	2.3	2.8	2.8	2.8	2.8	4.0	
4	M C H - 5	1.5	1.3	2.3	2.8	3.3	2.7	1.7	2.1	2.0	2.7	2.3	2.3	3.0	3.3	3.0	
5	M C H - 6	1.5	1.5	2.3	2.8	3.5	2.7	2.0	2.3	2.0	2.3	2.0	2.3	3.0	3.0	3.8	
6	J K M H - 810	1.6	1.8	2.3	1.0	3.0	2.7	1.7	2.0	1.7	2.7	2.0	2.0	2.0	2.3	4.0	
7	X - 2182	1.8	2.5	2.8	2.5	3.0	2.7	1.7	2.4	1.7	2.7	2.4	2.5	2.3	4.0	4.0	
CHECKS:																	
8	MAHI KANCHAN	2.0	2.5	3.0	3.8	2.8	3.0	2.3	2.8	2.3	3.0	2.8	2.0	2.5	2.5	3.8	
9	X - 3342	1.8	2.3	3.0	3.3	3.0	2.7	2.2	2.6	2.2	2.7	2.6	2.0	2.3	2.5	3.5	
10	PARKASH	1.6	2.0	2.3	3.3	2.5	2.7	2.0	2.3	2.0	2.7	2.3	2.0	2.3	2.5	3.8	
11	KIRAN	1.8	3.5	3.0	3.3	2.0	3.0	2.0	2.6	2.0	3.0	2.6	2.5	2.3	2.3	4.0	
MEAN LOCATION																	
	C.D. AT 5%	0.1	0.9	0.2	0.9	0.7	0.8	0.5	0.6	0.8	0.7	0.6	0.3	0.7	0.5	0.6	
	C.V. %	4.4	29.9	4.5	24.5	15.7	17.9	16.2	12.3	16.2	17.9	12.3	8.3	18.5	12.3	12.3	
	F (Prob)	.000	.000	.000	.000	.003	.196	.054	-	.054	.196	-	.087	.004	.001	.001	
UNIFORMITY *																	
SI NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				BANG MONS							
		MAND	KOLH	ZUAR	MEAN	HYDE JKSE	KARI	ARBH	MEAN	ZUAR	MAND	KOLH	MEAN	ZUAR	MAND	KOLH	MEAN
1	B H - 2862	1.7	2.0	2.0	2.2	1.5	1.8	2.0	3.3	1.7	2.2	3.3	3.3	1.7	2.2	2.2	2.2
2	P M Z - 135	2.3	2.0	2.0	2.4	1.5	2.5	2.8	1.8	2.7	2.8	1.8	3.5	2.7	2.2	2.4	2.4
3	P M Z - 138	2.3	2.0	2.0	2.5	1.5	2.3	2.0	1.8	2.0	2.2	1.8	3.8	2.0	2.0	2.2	2.2
4	M C H - 5	3.0	2.0	2.0	2.7	1.5	2.3	2.0	2.8	2.0	2.7	2.8	3.5	2.0	2.0	2.3	2.3
5	M C H - 6	3.0	2.0	2.0	2.5	1.6	2.3	3.0	2.8	3.0	2.7	2.8	3.5	2.7	2.0	2.5	2.5
6	J K M H - 810	2.3	1.8	2.3	2.3	1.5	2.5	2.0	1.0	2.0	2.3	1.0	3.5	2.3	1.8	2.1	2.1
7	X - 2182	2.0	2.3	2.3	2.5	1.5	2.5	3.0	1.5	2.0	2.7	1.5	3.0	2.7	2.5	2.4	2.4
CHECKS:																	
8	MAHI KANCHAN	3.0	2.5	2.5	2.7	1.8	3.0	3.0	3.8	3.0	3.0	3.8	3.0	2.7	2.7	2.8	2.8
9	X - 3342	2.3	2.3	2.3	2.5	1.7	2.5	2.0	2.3	2.0	2.5	2.3	3.0	2.0	2.5	2.5	2.5
10	PARKASH	2.0	2.5	2.5	2.5	1.8	2.8	3.0	4.0	3.0	2.8	4.0	3.3	2.7	2.5	2.9	2.9
11	KIRAN	2.3	2.1	2.1	2.5	1.6	2.5	2.5	2.4	2.5	2.3	2.4	3.3	2.3	2.3	3.0	3.0
MEAN LOCATION																	
	C.D. AT 5%	0.6	0.4	0.4	0.5	0.1	0.8	0.2	0.8	0.2	0.8	0.8	0.6	0.7	0.4	0.5	0.5
	C.V. %	16.1	10.9	10.9	-	4.9	22.0	5.7	23.4	5.7	22.0	23.4	12.6	18.0	9.6	12.6	12.6
	F (Prob)	.001	.010	.010	-	.000	.035	.000	.000	.000	.035	.000	.055	.036	.000	.055	.055

TABLE NO. 33 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)						KARI	BANG PROA	BANG MONS	ZUAR	MAND	COIM	KOLH	ZN 4 MEAN
		KANC BAKA	HYDE BISC	HYDE JKSE	HYDE	HYDE	HYDE								
1	B H - 2862	231	124	206	139	186	190	193	185	153	160	177			
2	P M Z - 135	238	120	215	150	215	250	210	195	154	178	192			
3	P M Z - 138	219	146	233	156	202	229	199	189	161	158	189			
4	M C H - 5	233	153	210	141	194	253	200	195	143	172	189			
5	M C H - 6	236	146	210	162	214	261	221	201	148	187	199			
6	J K M H - 810	244	130	206	152	221	251	200	202	161	163	193			
7	X - 2182	256	138	225	172	215	238	194	200	154	170	196			
CHECKS:															
8	MAHI KANCHAN	248	126	225	166	201	234	206	207	156	163	193			
9	X - 3342	258	152	221	155	192	213	204	203	151	167	191			
10	PARKASH	221	127	226	156	207	259	193	212	148	160	193			
11	KIRAN	258	127	216	163	201	255	193	200	158	175	194			
	MEAN LOCATION	242	141	219	157	206	242	204	201	153	172	194			
	C.D. AT 5%	21.5	2.6	14.7	11.6	12.5	27.7	14.5	17.5	8.4	25.1	15.6			
	C.V. %	6.2	1.1	4.7	5.2	4.3	8.0	5.0	5.2	3.8	8.7	-			
	F (Prob)	.003	.000	.000	.000	.000	.000	.000	.045	.000	.174	-			

SI NO	PEDIGREE	EAR HEIGHT (cm)						KARI	BANG PROA	BANG MONS	ZUAR	MAND	COIM	KOLH	ZN 4 MEAN
		KANC BAKA	HYDE BISC	HYDE JKSE	HYDE	HYDE	HYDE								
1	B H - 2862	99	48	81	63	68	85	71	90	77	73	75			
2	P M Z - 135	99	49	99	70	82	115	83	92	77	82	85			
3	P M Z - 138	90	48	93	66	65	90	84	104	75	72	79			
4	M C H - 5	104	74	95	65	75	136	91	110	77	85	91			
5	M C H - 6	101	52	100	75	85	140	98	93	80	90	91			
6	J K M H - 810	99	53	68	64	74	108	76	90	77	77	78			
7	X - 2182	108	54	104	69	76	104	72	100	77	82	85			
CHECKS:															
8	MAHI KANCHAN	109	38	98	75	84	113	80	100	79	70	65			
9	X - 3342	111	51	74	65	77	99	79	95	75	72	80			
10	PARKASH	116	48	110	63	78	135	76	101	78	75	88			
11	KIRAN	110	45	96	72	83	116	84	105	78	87	88			
	MEAN LOCATION	103	51	89	68	75	113	82	98	76	79	83			
	C.D. AT 5%	10.5	3.1	13.4	10.9	9.0	22.4	9.9	15.9	5.2	15.9	11.6			
	C.V. %	7.1	3.7	10.5	11.3	8.4	13.9	8.5	9.5	4.7	12.0	-			
	F (Prob)	.000	.000	.000	.228	.000	.000	.000	.256	.051	.219	-			

TABLE NO. 33 (CONT.)

SI NO	PEDIGREE	EAR No. / PLANT				KARI	BANG		ZUAR	MAND	COIM	KOLH	ZN 4 MEAN
		BAKA	HYDE BISC	HYDE JKSE	HYDE MONS		PROA	MONS					
1	B H - 2862	1.00	0.95	0.97	0.83	0.99	0.97	1.02	0.98	0.99	0.68	0.94	
2	P M Z - 135	1.01	1.01	0.98	0.78	1.02	0.95	1.00	0.91	1.03	0.71	0.94	
3	P M Z - 138	1.01	1.07	0.96	0.82	1.02	0.94	1.03	1.02	1.04	0.75	0.97	
4	M C H - 5	1.02	1.03	0.96	0.73	1.02	0.99	1.00	1.06	0.98	0.82	0.96	
5	M C H - 6	1.00	1.03	0.95	0.69	0.93	0.98	1.00	0.98	0.98	0.79	0.93	
6	J K M H - 810	0.97	1.06	0.95	0.83	1.02	0.97	0.99	1.00	0.97	0.65	0.94	
7	X - 2182	1.00	1.10	1.00	0.75	0.95	1.00	0.99	1.01	1.00	0.86	0.97	
CHECKS:													
8	MAHI KANCHAN	1.02	1.13	0.97	0.81	0.92	0.97	0.96	0.97	1.00	0.73	0.95	
9	X - 3342	0.98	1.02	0.99	0.76	0.89	0.97	1.00	0.99	0.98	0.78	0.94	
10	PARKASH	0.97	1.04	0.95	0.72	1.04	1.03	1.03	0.97	0.98	0.98	0.97	
11	KIRAN	0.96	1.05	0.99	0.78	1.03	1.00	1.01	1.00	1.00	0.72	0.95	
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													
H. turcicum *													
SI NO	PEDIGREE	HYDE BISC	BANG PROA	BANG MONS	ZUAR	KOLH	ZN 4 MEAN	ZUAR	H. may. *	ZUAR			
1	B H - 2862	3.3	4.0	4.0	2.8	1.8	3.2	2.8		2.8			
2	P M Z - 135	1.7	3.0	3.3	3.8	2.0	2.7	3.8		3.8			
3	P M Z - 138	1.2	1.0	2.3	3.8	1.8	2.0	4.0		4.0			
4	M C H - 5	1.3	3.5	3.0	3.8	2.0	2.7	3.5		3.5			
5	M C H - 6	1.9	3.8	2.8	3.0	2.2	2.7	3.3		3.3			
6	J K M H - 810	2.5	3.5	3.0	3.0	1.8	2.8	3.0		3.0			
7	X - 2182	2.6	3.8	3.3	2.0	2.0	2.7	2.0		2.0			
CHECKS:													
8	MAHI KANCHAN	4.7	5.0	3.8	2.3	2.5	3.6	2.3		2.3			
9	X - 3342	4.5	4.0	4.0	2.0	2.5	2.9	2.5		2.5			
10	PARKASH	4.5	5.0	3.8	2.0	3.0	3.7	2.0		2.0			
11	KIRAN	2.6	3.6	3.3	2.9	2.1	2.9	2.9		2.9			
MEAN LOCATION													
C.D. AT 5% =													
C.V. % =													
F (Prob) =													
19.6 11.1 16.2 13.5 18.9 12.4 .000 .001 .000 .003 .000													

TABLE NO. 33 (CONT.)

S1 NO PEDIGREE	STAND AT HARVEST												ZN 4 MEAN		
	KANC	HYDE	HYDE	BAKA	BISC	JKSE	KARI	ARBH	PROA	BANG	MONS	ZUAR		MAND	COIM
1 B H - 2862	64	47	149	89	60	39	84	74	102	78	84	74	102	78	
2 P M Z - 135	67	50	148	96	65	41	109	80	127	88	109	80	127	88	
3 P M Z - 138	65	50	138	94	64	40	83	82	107	80	83	82	107	80	
4 M C H - 5	69	43	139	97	67	40	75	86	128	84	75	86	128	84	
5 M C H - 6	56	52	145	99	67	40	91	85	112	84	91	85	112	84	
6 J K M H - 810	69	52	140	94	67	40	87	79	106	82	87	79	106	82	
7 X - 2182	65	53	140	103	65	41	82	75	109	82	82	75	109	82	
CHECKS:															
8 MAHI KANCHAN	53	40	142	94	67	41	92	73	102	79	92	73	102	79	
9 X - 3342	65	50	151	102	58	40	92	82	115	84	92	82	115	84	
10 PARKASH	60	42	140	87	62	40	67	75	114	76	67	75	114	76	
11 KIRAN	60	41	150	108	64	40	79	76	122	82	79	76	122	82	
MEAN LOCATION															
C.D. AT 5%	5.8	5.1	8.7	11.3	6.2	2.9	16.3	7.1	26.8	10.3	7.6	16.3	7.1	26.8	10.3
C.V. †	6.4	6.6	4.4	8.2	7.0	5.1	11.9	6.5	14.3	-	8.3	11.9	6.5	14.3	-
F (Prob)	.000	.000	.000	.047	.000	.000	.000	.000	.056	-	.000	.000	.000	.056	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)
(DELETED 4 ENTRIES)

TABLE NO. 34

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS IN ZONE-V, AT UDAIPUR, GODHRA (KHEDRAMHA), CHHINDWARA IN 2nd YEAR, TRIAL NO. TR71Z5 DURING KHARIF (2004).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						GRAIN YIELD & SUPERIORITY OVER THE					
		KHED			ZIN 5			MAHI KANCHAN	GODH	CHHI	ZIN 5 MEAN		
		UDAI	R	GODH	R	CHHI	R	CHHI	R	UDAI	GODH	CHHI	ZIN 5 MEAN
1	J H - 3851	5655	2	4783	1	7952	6	6130	2	129.51	91.99	28.97	65.36
2	P M Z - 135	4515	6	3492	8	7077	10	5028	6	83.24	40.18	14.78	35.64
3	P M Z - 138	5013	4	4000	5	8612	4	5875	4	103.45	60.55	39.67	58.48
4	M C H - 6	1863	13	3764	6	9119	1	4915	8	-	51.09	47.90	32.60
5	J K M H - 810	5373	3	4396	2	8797	3	6189	1	118.09	76.47	42.67	66.95
6	X - 2182	5747	1	3601	7	8889	2	6079	3	133.25	44.53	44.16	63.98
CHECKS:-													
7	MAHI KANCHAN	2464	11	2491	12	6166	11	3707	12	-	-	-	-
8	X - 3342	3528	8	4153	4	7119	9	4933	7	43.20	66.71	15.45	33.08
9	PARKASH	3457	9	3440	9	7439	8	4779	10	40.32	38.09	20.65	28.92
10	KIRAN	2271	12	2452	13	4974	13	3232	13	-	-	-	-
	MEAN YIELD=	3992		3563		7588		5048					
	MEAN STAND	85		132		111		109					
	C.D. AT 5% =	593		862		932		796					
	C.V. % =	10.38		16.91		8.58		-					
	F (Prob)	.000		.000		.000		-					
	PLOT SIZE=	18.00		18.00		16.80		-					
AGRONOMY DATA:													
	SOWING DATE(2004)	1-07		7-07		30-06		-					
	HARVEST DATE(2004)	5-10		18-10		26-10		-					
	IRRIGATION Nos	-		-		-		-					
	FERTILIZER APPLIED N	90		80		80		-					
	P	60		40		50		-					
	K	-		-		30		-					

TABLE NO. 34 (CONT.)

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE				PARKASH UDAI				ZN 5 MEAN
		UDAI	KHED GODH	CHHI	ZN 5 MEAN	UDAI	KHED GODH	CHHI	ZN 5 MEAN	
1	J H - 3851	60.27	15.16	11.71	24.25	63.56	39.03	6.89	28.27	
2	P M Z - 135	27.96	-	-	1.92	30.58	1.51	-	5.21	
3	P M Z - 138	42.07	-	20.97	19.08	44.99	16.27	15.76	22.93	
4	M C H - 6	-	-	28.10	-	-	9.41	22.58	2.86	
5	J K M H - 810	52.29	5.85	23.58	25.45	55.42	27.80	18.25	29.50	
6	X - 2182	62.88	-	24.87	23.22	66.22	4.67	19.48	27.20	
CHECKS:										
7	MAHI KANCHAN	-	-	-	-	-	-	-	-	
8	X - 3342	-	-	-	-	2.05	20.73	-	3.23	
9	PARKASH	-	-	4.50	-	-	-	-	-	
10	KIRAN	-	-	-	-	-	-	-	-	

SI NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE				DAYS TO 50% POLLEN SHED				
		UDAI	KHED GODH	CHHI	ZN 5 MEAN	UDAI	KHED GODH	CHHI	ZN 5 MEAN	
1	J H - 3851	148.95	95.08	59.88	89.65	47.8	51.5	53.8	51.0	
2	P M Z - 135	98.76	42.43	42.30	55.56	47.0	49.3	54.3	50.2	
3	P M Z - 138	120.68	63.14	73.15	81.75	47.5	51.8	54.8	51.3	
4	M C H - 6	-	53.52	83.35	52.07	48.5	52.5	56.0	52.3	
5	J K M H - 810	136.56	79.31	76.87	91.47	46.0	52.5	55.3	51.3	
6	X - 2182	153.00	46.86	78.71	88.06	49.0	51.0	54.8	51.6	
CHECKS:										
7	MAHI KANCHAN	8.47	1.61	23.97	14.69	45.3	46.8	51.8	47.9	
8	X - 3342	55.33	69.40	43.13	52.63	45.5	49.3	51.8	48.8	
9	PARKASH	52.21	40.31	49.57	47.85	46.5	51.0	51.3	49.6	
10	KIRAN	-	-	-	-	47.5	49.0	54.0	50.2	
MEAN LOCATION										
C.D. AT 5%		-	-	-	-	1.8	2.0	1.7	1.8	
C.V. %		-	-	-	-	2.6	2.7	2.2	-	
F (Prob)		-	-	-	-	.003	.000	.000	-	

TABLE NO. 34 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST		
		UDAI	KHED	ZN 5 MEAN	UDAI	KHED	ZN 5 MEAN	UDAI	KHED	ZN 5 MEAN
1	J H - 3851	51.0	54.8	53.8	81.3	75.8	82.9	21.9	17.5	16.7
2	P M Z - 135	49.0	52.8	52.0	80.5	75.3	81.5	21.0	21.2	16.3
3	P M Z - 138	50.8	56.0	54.4	81.5	75.3	82.8	22.3	19.3	16.3
4	M C H - 6	50.3	55.8	54.3	80.3	75.3	81.9	17.3	19.5	15.1
5	J K M H - 810	48.8	55.5	53.4	79.8	75.3	81.4	19.9	20.8	18.3
6	X - 2182	53.0	55.0	54.9	81.5	76.3	82.3	23.8	23.7	16.5
CHECKS:										
7	MAHI KANCHAN	47.8	53.3	51.2	79.8	75.0	78.9	17.7	13.9	13.7
8	X - 3342	48.5	52.8	51.3	79.8	75.3	79.7	19.9	18.6	14.9
9	PARKASH	49.3	54.5	51.7	80.3	77.8	82.8	19.7	17.3	15.4
10	KIRAN	50.5	54.5	53.8	81.5	77.8	80.3	21.0	16.3	15.5
MEAN LOCATION										
	C.D. AT 5%	2.0	2.2	1.9	80.6	76.0	81.6	20.7	18.4	15.7
	C.V. %	2.8	2.8	2.0	1.6	2.5	2.1	0.8	3.3	0.7
	F (Prob)	.001	.033	.000	1.3	2.3	1.8	2.7	12.6	3.0
					.094	.184	.000	.000	.000	.000

SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *		
		UDAI	KHED	ZN 5 MEAN	UDAI	KHED	ZN 5 MEAN	UDAI	KHED	ZN 5 MEAN
1	J H - 3851	1.8	2.5	1.5	1.6	2.0	1.3	1.8	1.8	1.8
2	P M Z - 135	1.5	1.8	1.0	1.4	2.8	1.0	2.0	1.0	1.5
3	P M Z - 138	1.5	2.5	1.5	1.7	2.5	1.0	2.0	1.3	1.6
4	M C H - 6	2.5	1.8	1.0	2.0	2.8	1.0	2.0	1.5	1.8
5	J K M H - 810	2.0	1.8	1.0	1.8	2.5	1.3	2.0	1.3	1.6
6	X - 2182	2.4	2.5	1.5	1.9	3.8	1.3	2.0	1.3	1.6
CHECKS:										
7	MAHI KANCHAN	1.9	3.5	1.5	1.9	2.0	1.8	2.0	1.8	1.9
8	X - 3342	2.2	2.3	1.0	1.5	2.5	1.0	1.8	1.5	1.6
9	PARKASH	1.5	2.3	1.5	1.5	3.3	1.0	1.8	1.5	1.6
10	KIRAN	1.9	3.8	1.8	1.6	1.8	1.3	2.0	1.8	1.9
MEAN LOCATION										
	C.D. AT 5%	2.0	2.4	1.3	1.7	2.7	1.2	1.9	1.4	1.7
	C.V. %	0.3	1.1	0.3	0.2	1.2	0.2	0.4	0.2	0.3
	F (Prob)	10.8	31.8	13.6	8.0	30.9	10.8	13.3	9.7	-
		.000	.002	.000	.000	.070	.000	.468	.000	-

TABLE NO. 34 (CONT.)

S1 NO	PEDIGREE	UNIFORMITY *			PLANT HEIGHT (cm)			EAR HEIGHT (cm)			ZN 5 MEAN
		UDAI	KHED GODH	CHHI MEAN	UDAI	KHED GODH	CHHI MEAN	UDAI	KHED GODH	CHHI MEAN	
1	J H - 3851	1.9	2.0	1.0	233	183	169	94	69	78	80
2	P M Z - 135	1.4	2.0	1.0	243	187	180	105	78	88	90
3	P M Z - 138	1.4	2.0	1.0	207	179	165	88	68	80	79
4	M C H - 6	2.3	1.8	1.3	238	191	185	100	78	99	92
5	J K M H - 810	2.0	1.3	1.0	240	191	179	102	73	91	89
6	X - 2182	2.1	2.3	1.3	253	197	194	106	72	93	90
CHECKS:											
7	MAHI KANCHAN	2.3	2.5	2.0	258	190	179	109	79	89	92
8	X - 3342	1.9	2.3	1.3	245	189	190	104	70	91	89
9	PARKASH	1.8	2.5	1.3	230	189	189	95	77	98	90
10	KIRAN	2.0	2.8	1.8	253	191	190	107	82	94	94
MEAN LOCATION											
	C.D. AT 5%	0.4	0.6	0.1	6.8	17.6	12.8	7.7	13.7	12.8	11.4
	C.V. %	12.9	20.3	8.1	2.0	6.5	4.9	5.5	12.8	10.0	-
	F (Prob)	.000	.001	.000	.000	.292	.002	.000	.229	.033	-

S1 NO	PEDIGREE	EAR NO./PLANT			STAND AT HARVEST			ZN 5 MEAN
		UDAI	KHED GODH	CHHI MEAN	UDAI	KHED GODH	CHHI MEAN	
1	J H - 3851	1.05	0.87	0.99	111	140	126	125
2	P M Z - 135	1.02	0.85	0.86	104	135	124	121
3	P M Z - 138	1.01	0.89	0.98	84	118	108	103
4	M C H - 6	1.03	0.86	1.02	106	137	126	123
5	J K M H - 810	1.02	0.87	0.96	104	139	130	124
6	X - 2182	1.02	0.82	1.00	78	130	116	108
CHECKS:								
7	MAHI KANCHAN	0.98	0.87	0.97	79	131	109	106
8	X - 3342	0.99	0.87	0.95	88	130	121	113
9	PARKASH	0.98	0.88	0.98	76	123	95	98
10	KIRAN	0.99	0.91	1.00	91	134	127	117
MEAN LOCATION								
	C.D. AT 5%	-	-	-	85	132	111	109
	C.V. %	-	-	-	12.4	12.6	12.6	12.5
	F (Prob)	-	-	-	10.2	6.7	7.9	-
		-	-	-	.000	.057	.000	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR) (DELETED 3 ENTRIES)

TABLE NO. 35

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRID IN ZONE-III, AT BELIPAR GORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR IN AET 2nd YEAR, TRIAL NO. TR72Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3			
		GORA		BELI		VARA		DHOL		KUSH		JASH		AMBI		R	MEAN
1	F H - 3210	4327	1	6424	1	2526	1	3775	1	3481	1	3636	3	4028	1		
CHECKS:																	
2	SURYA	4072	2	3883	3	1789	3	2526	3	3355	2	3854	1	3247	3		
3	HIM - 129	4030	3	4962	2	2236	2	2660	2	3187	3	3839	2	3485	2		
	MEAN YIELD=	4143		5089		2184		2987		3341		3776		3587			
	MEAN STAND	104		113		114		56		95		112		99			
	C.D. AT 5%	412		368		394		502		63		615		392			
	C.V. %	6.09		5.85		11.07		13.56		1.52		13.15		-			
	F (Prob)	.015		.000		.000		.006		.020		.318		-			
	PLOT SIZE=	18.00		22.50		22.50		15.00		18.00		18.00		-			
AGRONOMY DATA:																	
	SOWING DATE (2004)	28-06		19-06		25-06		14-07		3-07		5-07		-			
	HARVEST DATE (2004)	30-09		15-09		8-10		25-10		19-10		-		-			
	IRRIGATION Nos	2		2		-		2		-		-		-			
	FERTILIZER APPLIED N	120		80		100		120		120		80		-			
	P	60		40		60		60		60		50		-			
	K	60		40		40		40		60		30		-			

TABLE NO. 35

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRID IN ZONE-III, AT BELIPAR CORAKHPUR, VARANASI, DHOLI, KUSHMOHOT, JASHIPUR, AMBICAPUR IN AET 2nd YEAR, TRIAL NO. TR72Z3 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3		
		BELI	VARA	DHOL	KUSH	JASH	AMBI	R	R	R	R	R	R	R	MEAN	R
1	F H - 3210	4327	6424	2526	3775	3481	3636	4028	1	1	1	1	1	1	1	1
CHECKS:																
2	SURYA	4072	3883	1789	2526	3355	3854	3247	3	2	2	2	2	2	2	3
3	HIM - 129	4030	4962	2236	2660	3187	3839	3485	2	2	3	2	2	2	2	2
	MEAN YIELD=	4143	5089	2184	2987	3341	3776	3587								
	MEAN STAND	104	113	114	56	95	112	99								
	C.D. AT 5% =	412	368	394	502	63	615	392								
	C.V. % =	6.09	5.85	11.07	13.56	1.52	13.15	-								
	F (Prob)	.015	.000	.000	.006	.020	.318	-								
	PLOT SIZE=	18.00	22.50	22.50	15.00	18.00	18.00	-								
AGRONOMY DATA:																
	SOWING DATE (2004)	28-06	19-06	25-06	14-07	3-07	5-07	-								
	HARVEST DATE (2004)	30-09	15-09	8-10	25-10	19-10	-	-								
	IRRIGATION NOS	2	2	-	2	-	-	-								
	FERTILIZER APPLIED N	120	80	100	120	120	80	-								
	P	60	40	60	60	60	50	-								
	K	60	40	40	40	60	30	-								

TABLE NO. 35 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE SURYA						ZN 3 MEAN
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	
1	F H - 3210	6.26	65.45	41.19	49.41	3.74	-	24.07
CHECKS:								
2	SURYA	-	-	-	-	-	-	-
3	HIM - 129	-	27.79	24.95	5.29	-	-	7.36

Sl No	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE HIM - 129						ZN 3 MEAN
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	
1	F H - 3210	7.36	29.47	12.99	41.90	9.20	-	15.56
CHECKS:								
2	SURYA	1.04	-	-	-	5.27	0.41	-
3	HIM - 129	-	-	-	-	-	-	-

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			ZN 3 MEAN							
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI								
1	F H - 3210	47.3	42.3	47.0	42.0	42.2	41.8	43.8	49.3	46.3	49.5	43.2	45.7	45.2	46.5
CHECKS:															
2	SURYA	50.8	42.0	47.3	41.3	43.0	42.0	44.4	52.8	46.5	50.0	42.2	46.2	45.3	47.2
3	HIM - 129	48.8	40.7	45.3	41.0	38.7	40.7	42.5	50.8	44.7	48.0	42.0	42.3	44.0	45.3
MEAN LOCATION															
		48.9	41.7	46.5	41.4	41.3	41.5	43.6	50.9	45.8	49.2	42.4	44.7	44.8	46.3
C.D. AT 5%															
		1.0	1.3	2.1	0.7	0.9	0.4	1.1	1.0	1.7	2.6	0.7	1.1	0.7	1.3
C.V. %															
		1.2	2.4	2.6	1.3	1.6	0.8	-	1.1	2.9	3.1	1.2	2.0	1.2	-
F (Prob)															
		.000	.037	.105	.026	.000	.000	-	.000	.071	.236	.005	.000	.003	-

TABLE NO. 35 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				ZN 3 MEAN
		GORA BELI	VARA	DHOL	JASH	GORA BELI	VARA	KUSH	JASH	
1	F H - 3210	76.0	72.8	81.8	81.5	22	31	22	17	23
CHECKS:										
2	SURYA	76.8	72.0	79.5	79.5	21	31	25	16	23
3	HIM - 129	76.5	72.7	79.3	79.8	22	29	26	16	23
MEAN LOCATION										
	C.D. AT 5% =	76.4	72.5	80.2	80.3	21	30	24	16	23
	C.V. %	1.2	3.0	3.4	1.3	1.9	0.3	2.7	0.4	1.3
	F (Prob)	0.9	3.2	2.4	1.3	5.1	0.7	8.8	2.1	-
		.355	.808	.217	.017	.728	.000	.072	.000	-

SI NO	PEDIGREE	PLANT ASPECT *				EAR ASPECT *				ZN 3 MEAN
		GORA BELI	VARA	DHOL	AMBI	GORA BELI	VARA	DHOL	JASH	
1	F H - 3210	2.0	1.3	2.0	2.4	2.5	1.0	2.1	2.0	2.5
CHECKS:										
2	SURYA	2.5	2.3	2.8	2.3	2.4	2.7	2.4	2.8	2.4
3	HIM - 129	2.3	1.7	2.1	2.4	2.3	1.7	3.0	2.8	2.7
MEAN LOCATION										
	C.D. AT 5% =	2.3	1.8	2.3	2.4	2.4	1.8	2.5	2.6	2.5
	C.V. %	0.3	0.2	0.4	0.2	0.7	0.1	0.8	0.3	0.4
	F (Prob)	7.4	9.4	10.9	7.1	16.1	5.9	19.1	9.2	7.8
		.016	.000	.011	.402	.670	.000	.096	.000	.157

SI NO	PEDIGREE	HUSK COVER *				UNIFORMITY *				ZN 3 MEAN
		GORA BELI	VARA	DHOL	JASH	GORA BELI	VARA	DHOL	JASH	
1	F H - 3210	1.8	1.3	3.0	1.3	2.0	1.5	1.6	1.3	2.0
CHECKS:										
2	SURYA	2.1	2.3	2.6	2.3	2.6	2.8	3.1	3.2	2.6
3	HIM - 129	2.4	1.8	2.0	2.8	2.3	2.2	2.5	3.2	2.5
MEAN LOCATION										
	C.D. AT 5% =	0.5	0.2	0.9	0.7	0.3	0.2	0.6	0.6	0.3
	C.V. %	14.4	10.0	19.4	25.3	8.1	8.4	13.4	17.0	8.2
	F (Prob)	.067	.000	.072	.002	.009	.000	.000	.000	.808

TABLE NO. 35 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)				EAR HEIGHT (cm)				ZN 3 MEAN	ZN 3 AMBI	ZN 3 JASH	ZN 3 DHOL	ZN 3 KUSH	ZN 3 JASH	ZN 3 AMBI	ZN 3 MEAN
		GORA BELI	VARA	DHOL	KUSH	JASH	GORA BELI	VARA	DHOL								
1	F H - 3210	141	212	116	166	149	207	165	48	78	45	67	54	69	60		
CHECKS:																	
2	SURYA	146	230	130	168	148	216	173	72	105	61	81	65	81	77		
3	HIM - 129	134	200	116	162	148	197	160	51	77	51	75	56	70	63		
MEAN LOCATION		140	214	121	165	148	207	166	57	87	52	74	58	73	67		
C.D. AT 5%		12.7	5.2	12.8	8.7	3.8	13.9	9.5	23.5	3.3	9.2	13.2	4.0	9.1	10.4		
C.V. %		5.2	1.9	6.1	4.1	2.0	5.2	-	23.9	3.0	10.1	13.8	5.4	9.6	-		
F (Prob)		.150	.000	.063	.334	.710	.040	-	.089	.000	.013	.122	.000	.029	-		

Sl NO	PEDIGREE	EAR No. / PLANT				H. may. * BLSB			
		GORA BELI	VARA	KUSH	AMBI	JASH	AMBI	JASH	AMBI
1	F H - 3210	0.98	0.98	0.95	1.01	0.98	2.6	3.9	
CHECKS:									
2	SURYA	0.99	0.98	1.10	1.03	1.03	2.7	3.9	
3	HIM - 129	0.98	0.97	1.01	1.01	0.99	3.0	3.3	
MEAN LOCATION		-	-	-	-	-	2.8	3.7	
C.D. AT 5%		-	-	-	-	-	0.5	0.3	
C.V. %		-	-	-	-	-	13.7	6.4	
F (Prob)		-	-	-	-	-	.178	.001	

Sl NO	PEDIGREE	STAND AT HARVEST				ZN 3 MEAN			
		GORA BELI	VARA	DHOL	KUSH	JASH	AMBI	JASH	AMBI
1	F H - 3210	107	114	117	60	17	119	89	
CHECKS:									
2	SURYA	99	109	103	50	16	104	80	
3	HIM - 129	105	117	122	59	16	112	88	
MEAN LOCATION		104	113	114	56	16	112	86	
C.D. AT 5%		6.3	4.5	14.1	6.3	0.4	13.0	7.4	
C.V. %		3.5	3.1	7.2	8.7	2.1	9.0	-	
F (Prob)		.046	.006	.036	.014	.000	.079	-	

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 54 (CONT.)

S1 NO PEDIGREE	EAR HEIGHT (cm)									EAR NO/PLANT				ZN 1 MEAN
	SRIN	POON	ALMO	BAJA	KANG	PANT	ZN 1 MEAN	SRIN	ALMO	KANG	ZN 1 MEAN			
1 F H - 3313	96	94	88	63	94	70	84	1.03	1.00	1.00	1.00	1.01		
2 F H - 3314	88	107	101	56	105	82	90	1.06	1.01	0.98	1.02	1.02		
3 F H - 3315	90	104	90	62	106	75	88	1.07	1.03	1.01	1.04	1.04		
4 F H - 3320	80	99	76	72	100	78	84	1.07	1.08	1.00	1.05	1.05		
5 F H - 3321	84	93	92	72	103	79	87	1.01	1.04	1.00	1.02	1.02		
6 F H - 3324	74	99	97	72	99	79	87	1.10	0.97	0.99	1.02	1.02		
7 F H - 3325	84	98	86	71	103	73	86	1.03	1.04	1.03	1.04	1.04		
8 F H - 3326	74	97	83	83	99	68	84	1.04	1.12	1.02	1.06	1.06		
9 F H - 3327	78	99	83	73	101	76	85	1.09	1.03	1.01	1.04	1.04		
10 F H - 3328	94	109	94	77	107	77	93	1.05	1.01	1.02	1.03	1.03		
11 F H - 3329	88	107	92	78	110	85	93	1.04	1.05	1.00	1.03	1.03		
12 F H - 3330	85	96	92	71	98	79	87	1.06	0.99	0.96	1.00	1.00		
13 F H - 3334	80	114	85	88	117	79	94	1.06	1.02	0.97	1.01	1.01		
14 F H - 3335	85	88	80	75	97	71	83	1.07	1.02	0.95	1.01	1.01		
15 F H - 3341	86	94	87	68	89	70	82	1.06	1.00	0.96	1.00	1.00		
16 F H - 3342	94	81	72	54	90	70	77	1.06	0.99	0.99	1.01	1.01		
17 F H - 3343	76	83	71	63	86	71	75	1.11	1.03	0.97	1.04	1.04		
18 F H - 3345	80	101	76	58	100	67	80	1.09	1.02	0.97	1.03	1.03		
19 F H - 3350	85	105	84	68	100	80	87	1.08	1.01	0.96	1.02	1.02		
CHECKS:														
20 HIM - 129	69	95	87	63	104	85	84	1.12	1.13	0.98	1.08	1.08		
21 VIVEK SANKUL - 11	72	111	80	67	93	74	83	1.07	1.02	0.97	1.02	1.02		
22 SURYA	83	90	97	75	109	83	89	1.03	1.04	0.94	1.01	1.01		
23 VIVEK HYBRID - 9	73	99	92	62	96	78	84	1.07	0.94	1.01	1.01	1.01		
MEAN LOCATION														
C.D. AT 5% =	18.2	17.9	6.2	13.9	13.2	9.0	13.1	-	-	-	-	-		
C.V. % =	13.4	11.1	4.3	12.2	8.0	7.2	-	-	-	-	-	-		
F (Prob)	.202	.054	.000	.001	.008	.002	-	-	-	-	-	-		

TABLE NO. 54 (CONT.)

S1 NO PEDIGREE	H. turcicum *		H. maydis *		STAND AT HARVEST		ZN 1			
	ALMO	BAJA	ALMO	BAJA	SRIN POON	ALMO	BAJA	MEAN	PANT	MEAN
1 FH - 3313	2.4	1.2	1.8	1.2	25	21	24	29	21	31
2 FH - 3314	2.3	1.2	1.7	1.2	24	23	24	29	22	28
3 FH - 3316	1.7	1.2	1.4	1.2	28	20	22	29	20	21
4 FH - 3320	1.5	1.2	1.3	1.0	26	17	24	30	23	32
5 FH - 3321	1.7	1.0	1.3	1.2	26	22	23	28	20	25
6 FH - 3324	1.3	2.0	1.6	1.1	24	18	23	27	18	32
7 FH - 3325	1.3	1.5	1.4	1.1	23	17	22	32	23	27
8 FH - 3326	1.0	1.5	1.3	1.0	25	18	22	31	20	32
9 FH - 3327	1.9	1.0	1.4	1.3	24	23	23	29	25	30
10 FH - 3328	1.4	1.3	1.4	1.2	27	18	23	28	21	29
11 FH - 3329	1.0	1.0	1.0	1.0	25	19	23	31	23	30
12 FH - 3330	2.4	1.5	1.9	1.5	26	22	23	28	23	25
13 FH - 3334	1.0	1.3	1.2	1.0	28	21	23	30	22	32
14 FH - 3335	1.0	1.3	1.2	1.0	28	23	23	30	24	34
15 FH - 3341	1.5	1.5	1.5	1.0	24	21	23	30	23	35
16 FH - 3342	1.5	1.2	1.3	1.0	24	21	24	31	23	26
17 FH - 3343	1.5	1.5	1.5	1.4	24	18	22	29	22	29
18 FH - 3345	1.4	1.3	1.4	1.3	23	19	23	27	21	25
19 FH - 3350	1.0	1.2	1.1	1.0	23	23	22	29	22	28
CHECKS:										
20 HIM - 129	1.7	1.2	1.4	1.0	26	19	23	30	21	31
21 VIVEK SANKOL - 11	1.4	1.5	1.5	1.2	25	18	23	29	23	28
22 SURYA	3.6	1.2	2.4	1.2	25	13	23	24	18	21
23 VIVEK HYBRID - 9	1.4	1.0	1.2	1.0	26	17	23	32	23	31
MEAN LOCATION										
C.D. AT 5%	0.3	0.4	0.3	0.3	3.5	5.5	1.7	2.5	4.9	10.3
C.V. %	11.0	17.6	-	12.7	8.5	17.1	4.6	5.2	13.8	21.8
F (Prob)	.000	.000	-	.000	.123	.057	.628	.000	.402	.379

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 55

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS AT SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, PANTNAGAR IN ZONAL TRIAL NO. TR103A DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE										ZN 1			
		SRIN	R	POON	R	ALMO	R	BAJA	R	KANG	R	PANT	R	MEAN	R
1	F H	2716	25	7783	12	5013	12	6498	13	4114	8	4807	18	5155	14
2	H H	3214	24	7401	16	5037	16	6203	16	4429	4	5472	11	5293	11
3	D H	3778	11	5939	23	4468	20	6241	20	4181	7	5185	13	4827	29
4	D H	3713	12	8269	28	4389	16	6653	29	3614	10	6219	14	5476	21
5	D H	3659	13	8485	24	4386	17	5813	15	3471	12	5060	16	4709	16
6	D H	3826	14	8485	26	3542	15	6282	18	3222	11	5183	14	5062	15
7	D H	3779	10	8924	21	3541	22	6719	8	4445	12	6696	9	5083	7
8	L L	3521	21	9237	18	4231	18	6557	11	4097	22	5681	10	5603	2
9	L L	4140	22	7640	13	5035	15	7281	6	3097	6	5557	15	5620	6
10	L L	3502	22	7216	17	5812	24	8563	4	4206	3	6156	6	6136	1
11	L L	3556	19	9731	22	5512	8	8928	1	4435	14	6129	3	5893	3
12	L L	3782	9	9731	11	6357	4	8928	6	3421	14	6347	12	6390	13
13	L L	3564	15	7416	25	5751	6	7133	7	3004	23	5243	17	5175	4
14	J K	3647	18	6276	19	7043	3	8702	5	3279	16	5955	1	5054	2
15	J K	3580	4	6748	20	3559	20	7353	21	4217	15	8218	22	5965	4
16	K D	3831	7	8250	18	4920	13	5104	21	4217	25	4149	24	4609	22
17	K D	3860	5	5573	25	5092	9	6554	14	3378	15	2589	21	4293	17
18	R C	3460	23	8850	4	5	4	6320	14	2670	24	3988	23	4016	23
19	R C	3644	16	8628	5	4	5	6603	10	3421	13	4703	19	4482	10
20	R C	3644	16	8628	5	4	5	6603	10	3421	13	4703	19	4482	10
21	CHECKS:														
22	HIM - 129	3618	17	7630	14	5527	7	5676	19	3935	9	4889	17	5213	12
23	VIVEK SANKUL - 11	3859	6	8464	7	4521	14	4727	22	3252	19	4324	20	4858	19
24	SURYA	4165	1	8220	10	3947	19	4614	23	3306	17	5103	15	4893	18
25	VIVEK HYBRID - 9	4004	3	7854	11	7460	1	5732	18	4943	11	5799	18	5965	15
	MEAN YIELD =	3676		7596		4499		6414		3630		5196		5168	
	MEAN STAND	26		19		19		29		24		30		25	
	C.V. AT 5% =	661		3253		2014		737		930		1563		1526	
	F (Prob)	10.96		26.10		23.93		7.00		15.61		18.33		-	
	PLOT SIZE =	0.67		4.12		3.003		4.80		4.80		7.50		-	
	AGRONOMY DATA:	3.60		3.60		3.60		4.80		4.80		7.50		-	
	SOWING DATE (2004)	8-06		22-06		14-07		30-05		31-05		11-06		-	
	HARVEST DATE (2004)	29-10		27-10		11-11		25-09		15-09		4-10		-	
	IRRIGATION Nos	3		80		80		120		80		-		-	
	FERTILIZER APPLIED	90		60		60		60		60		-		-	
	N	40		40		40		40		40		-		-	
	P											-		-	
	K											-		-	

TRIALS PLANNED AT SRINAGAR, POONCH, ALMORA, BAJAURA, KANGRA, DHOLA-KUAN

TABLE NO. 55 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE HIM - 129									
Sl NO	PEDIGREE	SRIN	POON	ALMO	BAJA	KANG	PANT	ZN 1	MEAN
1	F H - 3354	-	2.00	-	14.47	4.57	-	-	-
2	F H - 3355	-	-	-	9.28	12.57	11.93	1.54	-
3	D E H - 107	4.41	-	-	-	6.25	6.05	-	-
4	D E H - 109	2.64	8.37	-	17.20	-	27.21	5.06	-
5	D E H - 115	1.15	-	-	2.41	-	3.49	-	-
6	D E H - 117	1.13	11.20	-	10.67	-	6.01	-	-
7	D E H - 119	5.76	-	-	18.38	-	36.96	-	-
8	D E H - 121	4.47	16.95	-	15.53	12.97	16.21	7.49	-
9	L - 229	-	21.06	-	28.20	-	13.67	7.83	-
10	L - 230	14.44	0.13	5.15	56.11	6.90	25.92	17.72	-
11	L - 231	-	-	-	50.86	12.71	25.36	13.05	-
12	L - 232	-	27.53	-	57.28	-	29.81	22.58	-
13	L - 233	4.52	-	15.01	25.67	-	7.25	-	-
14	J K M H - 082	0.81	-	4.04	53.32	-	21.81	16.13	-
15	J K M H - 782	-	-	32.45	29.54	-	68.09	14.44	-
16	K D M - 349	7.24	-	27.41	-	7.18	-	-	-
17	K D M - 361	-	8.18	-	-	-	-	-	-
18	K D M - 376	5.89	-	-	15.47	-	-	-	-
19	R C M - 80	6.68	-	-	11.34	-	-	-	-
20	R C M - 81	-	15.98	-	16.33	-	-	2.73	-
21	R C M - 83	0.71	13.08	-	-	-	-	-	-
CHECKS:									
22	HIM - 129	-	-	-	-	-	-	-	-
23	VIVEK SANKUL - 11	6.67	10.92	-	-	-	-	-	-
24	SURYA	15.13	7.73	-	-	-	4.38	-	-
25	VIVEK HYBRID - 9	10.66	2.93	34.97	0.98	25.62	18.62	14.44	-

TABLE NO. 55 (CONT.)

GRAIN YIELD & SUPERIORITY OVER THE VIVEK SANKUL - 11									
SI	NO PEDIGREE	SRIN	POON	ALMO	BAJA	KANG	PANT	ZN 1	MEAN
1	F H - 3354	-	-	10.87	37.46	26.50	11.18	6.12	
2	F H - 3355	-	-	11.40	31.22	36.18	26.57	8.95	
3	D E H - 107	-	-	-	14.50	28.54	19.91	-	
4	D E H - 109	-	-	-	40.74	11.13	43.84	12.73	
5	D E H - 115	-	-	-	22.97	6.71	17.02	-	
6	D E H - 117	-	0.25	-	32.89	-	19.87	4.20	
7	D E H - 119	-	-	-	42.15	9.40	54.86	4.63	
8	D E H - 121	-	-	-	38.72	36.66	31.40	15.34	
9	L - 229	-	-	11.35	53.94	-	28.53	15.70	
10	L - 230	7.29	-	28.56	87.45	29.32	42.38	26.31	
11	L - 231	-	-	21.92	81.14	36.36	41.75	21.30	
12	L - 232	-	14.98	40.60	88.86	5.17	46.78	31.54	
13	L - 233	-	-	27.20	50.91	-	21.27	6.52	
14	J K M H - 082	-	-	61.93	84.10	0.82	37.73	24.61	
15	J K M H - 782	-	-	55.76	55.55	2.67	90.06	22.80	
16	K D M - 349	0.54	-	-	7.98	29.66	-	-	
17	K D M - 361	-	-	-	-	-	-	-	
18	K D M - 376	-	-	8.81	38.65	3.88	-	3.26	
19	R C M - 80	0.02	-	-	33.69	-	-	-	
20	R C M - 81	-	4.56	12.62	39.69	5.18	8.78	10.23	
21	R C M - 83	-	1.95	-	-	-	-	-	
CHECKS:									
22	HIM - 129	-	-	22.26	20.08	20.98	13.07	7.30	
23	VIVEK SANKUL - 11	-	-	-	-	-	-	-	
24	SURYA	7.93	-	-	-	1.65	18.03	0.71	
25	VIVEK HYBRID - 9	3.75	-	65.01	21.26	51.96	34.12	22.80	

TABLE NO. 55 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE SURYA								ZN 1	
		SRIN	POON	ALMO	BAJA	KANG	PANT	MEAN	MEAN		
1	F H - 3354	-	-	26.99	40.83	24.45	-	-	5.37		
2	F H - 3355	-	-	27.60	34.44	33.97	7.23	-	8.18		
3	D E H - 107	-	-	13.19	17.31	26.45	1.59	-	-		
4	D E H - 109	-	0.59	11.20	44.19	9.32	21.87	-	11.93		
5	D E H - 115	-	-	11.11	25.99	4.98	-	-	-		
6	D E H - 117	-	3.22	-	36.16	-	1.56	-	3.47		
7	D E H - 119	-	-	-	45.64	7.63	31.21	-	3.89		
8	D E H - 121	-	8.57	7.18	42.13	34.45	11.33	-	14.52		
9	L - 229	-	12.38	27.54	57.72	-	8.90	-	14.88		
10	L - 230	-	-	47.25	92.05	27.22	20.63	-	25.42		
11	L - 231	-	-	39.65	85.59	34.14	20.10	-	20.44		
12	L - 232	-	18.39	61.05	93.50	3.46	24.36	-	30.60		
13	L - 233	-	-	45.69	54.61	-	2.75	-	5.77		
14	J K M H - 082	-	-	85.48	88.62	-	16.69	-	23.73		
15	J K M H - 782	-	-	78.42	59.37	1.00	61.03	-	21.93		
16	K D M - 349	-	-	-	10.64	27.56	-	-	-		
17	K D M - 361	-	0.43	-	-	-	-	-	-		
18	K D M - 376	-	-	24.63	42.06	2.19	-	-	2.53		
19	R C M - 80	-	-	-	36.97	-	-	-	-		
20	R C M - 81	-	7.66	29.00	43.12	3.47	-	-	9.45		
21	R C M - 83	-	4.97	-	-	-	-	-	-		
CHECKS:											
22	HIM - 129	-	-	40.03	23.03	19.01	-	-	6.54		
23	VIVEK BAKUL - 11	-	2.97	14.54	2.46	-	-	-	-		
24	SURYA	-	-	-	-	-	-	-	-		
25	VIVEK HYBRID - 9	-	-	89.00	24.24	49.50	13.64	-	21.93		

TABLE NO. 55 (CONT.)

SI	NO	PEDIGREE	DAYS TO 50 % POLLEN SHED					DAYS TO 50 % SILKING					ZN 1	
			SRIN	POON	ALMO	BAJA	KANG	MEAN	SRIN	POON	ALMO	BAJA	KANG	PANT
1	F H	- 3354	71.0	58.7	49.0	65.7	45.7	73.0	60.0	50.0	68.3	50.0	49.7	58.5
2	F H	- 3355	74.7	57.7	51.7	64.3	46.3	76.7	59.7	53.7	66.7	50.7	49.7	59.5
3	D E H	- 107	73.7	57.3	50.3	65.7	49.3	75.7	59.3	51.3	68.7	53.7	49.7	59.7
4	D E H	- 109	70.5	60.5	51.5	66.5	51.0	72.5	62.5	52.5	69.5	55.5	53.5	61.0
5	D E H	- 115	72.0	58.7	51.7	68.3	52.7	74.0	60.7	53.7	71.3	57.0	51.7	61.4
6	D E H	- 117	73.7	57.7	52.7	68.0	52.0	75.7	58.7	54.0	70.0	57.0	51.7	61.2
7	D E H	- 119	73.3	58.7	53.0	65.0	52.0	75.3	63.3	54.7	68.0	56.7	51.3	61.6
8	D E H	- 121	73.7	58.7	51.0	65.7	51.3	75.0	60.0	52.7	68.7	55.3	50.3	60.3
9	L	- 229	75.3	59.0	55.3	67.7	52.7	77.3	60.0	56.3	70.7	57.0	57.3	63.1
10	L	- 230	73.3	55.7	58.0	68.3	47.3	75.3	57.7	59.3	71.3	51.3	58.0	62.2
11	L	- 231	75.7	57.3	60.0	69.0	53.3	77.7	59.0	61.0	72.0	57.3	58.3	64.2
12	L	- 232	75.0	58.0	58.7	69.0	53.7	77.0	60.0	60.0	71.3	58.7	57.7	64.1
13	L	- 233	74.7	56.0	56.0	68.3	52.3	76.7	58.0	57.0	70.7	57.3	57.3	62.8
14	J K M H	- 082	72.7	57.7	56.3	71.0	53.3	74.7	59.7	57.3	73.0	58.0	56.3	63.2
15	J K M H	- 782	72.7	56.0	53.7	68.3	54.3	74.7	60.7	54.7	71.3	58.7	51.7	61.9
16	K D M	- 349	74.3	59.3	55.0	67.7	52.0	76.3	61.3	56.7	70.7	56.0	56.7	62.9
17	K D M	- 361	74.3	61.0	-	67.7	51.3	76.3	62.7	-	70.3	56.0	52.0	63.5
18	K D M	- 376	76.0	57.3	55.7	69.0	52.7	78.0	59.0	56.7	72.0	57.3	57.3	63.4
19	R C M	- 80	73.0	59.3	-	70.3	56.7	75.0	60.7	-	72.7	58.0	58.7	65.0
20	R C M	- 81	73.0	61.3	53.7	67.7	48.0	75.0	63.0	54.7	70.7	52.3	54.7	61.7
21	R C M	- 83	72.0	55.7	-	70.7	53.3	74.0	57.3	-	73.0	57.7	55.0	63.4
CHECKS:														
22	HIM	- 129	72.0	58.3	50.7	65.0	45.3	74.0	60.3	52.0	67.7	49.3	49.0	58.7
23	VIVEK SANKUL	- 11	73.7	57.0	51.0	66.0	50.0	75.7	59.0	52.3	69.0	54.7	51.7	60.4
24	SURYA		73.3	56.0	51.3	66.7	49.3	75.3	57.7	53.0	69.3	53.7	50.7	59.9
25	VIVEK HYBRID	- 9	73.3	62.3	50.3	66.0	47.7	75.3	64.3	51.3	69.0	52.0	51.0	60.5
	MEAN LOCATION		73.5	58.2	53.5	67.5	50.9	75.4	60.2	54.8	70.2	55.2	53.6	61.6
	C.D. AT 5%		3.9	4.6	1.3	1.6	2.9	3.9	5.8	1.1	1.7	2.6	2.2	2.9
	C.V. %		3.2	4.8	1.5	1.5	3.5	3.1	5.9	1.3	1.4	2.8	2.5	-
	F (Prob)		.503	.265	.000	.000	.000	.489	.706	.000	.000	.000	.000	-

TABLE NO. 55 (CONT.)

SI NO	PEDIGREE	DAYS TO 50 % DRY HUSK				MOISTURE % AT HARVEST				ZN 1 MEAN												
		SRIN	POON	ALMO	BAJA	SRIN	POON	ALMO	BAJA		KANG	PANT										
1	F H - 3354	133.3	115.7	95.7	94.3	109.8	21.4	27.7	30.4	17.3	22.1	30.9	25.0									
2	F H - 3355	133.7	116.0	100.3	95.3	111.3	20.6	28.3	31.8	16.8	22.0	21.0	23.4									
3	D E H - 107	132.0	117.3	96.7	96.3	110.6	16.4	27.0	29.3	17.4	22.7	25.7	23.1									
4	D E H - 109	133.0	113.5	103.5	101.0	112.8	18.0	28.5	29.3	17.6	24.9	20.5	23.1									
5	D E H - 115	130.0	116.0	96.3	98.0	110.1	19.1	25.7	31.8	18.3	22.5	30.3	24.6									
6	D E H - 117	133.7	116.0	99.7	100.7	112.5	20.5	28.7	32.8	17.5	24.7	27.8	25.3									
7	D E H - 119	135.0	116.7	101.0	97.0	112.4	22.0	27.3	30.4	17.9	22.0	26.5	24.4									
8	D E H - 121	135.7	117.3	94.0	95.3	110.6	20.8	29.0	29.9	17.6	23.8	22.1	23.9									
9	L - 229	134.0	116.0	106.3	100.0	114.1	20.1	29.7	32.7	18.5	26.6	25.6	25.5									
10	L - 230	133.0	116.0	111.7	104.3	116.3	18.4	27.0	31.4	21.5	25.1	20.6	24.0									
11	L - 231	130.3	117.0	109.7	102.0	114.8	17.5	26.7	36.4	19.0	27.7	25.7	25.5									
12	L - 232	130.3	118.0	106.3	101.7	114.1	18.2	29.3	33.3	18.4	25.9	20.8	24.3									
13	L - 233	131.3	115.3	108.3	101.3	114.1	19.9	25.7	36.1	19.2	26.4	20.2	24.6									
14	J K M H - 082	132.3	117.0	107.0	105.0	115.3	21.7	28.0	33.8	19.6	26.4	26.9	26.1									
15	J K M H - 782	133.3	119.0	107.0	101.7	115.2	21.6	27.3	34.2	18.8	24.0	24.4	25.0									
16	K D M - 349	133.7	115.7	105.3	96.7	112.8	19.2	26.7	33.5	18.9	23.4	22.8	24.1									
17	K D M - 361	133.3	113.7	-	100.3	115.8	17.7	26.7	-	18.5	23.3	18.6	21.0									
18	K D M - 376	133.0	113.0	105.7	100.7	113.1	17.3	27.0	31.1	17.8	24.9	28.7	24.4									
19	R C M - 80	134.0	116.3	-	106.0	118.8	20.2	26.3	-	20.6	24.1	25.6	23.4									
20	R C M - 81	136.0	116.0	105.7	100.3	114.5	20.4	27.7	28.3	18.3	26.1	32.5	25.5									
21	R C M - 83	131.7	117.3	-	106.0	118.3	18.4	28.3	-	21.0	26.9	19.4	22.8									
CHECKS:																						
22	HIM - 129	134.3	113.3	97.0	95.3	110.0	18.0	27.0	31.0	18.0	21.6	32.1	24.6									
23	VIVEK SANKUL - 11	135.0	116.7	96.3	97.0	111.3	17.8	28.0	31.1	18.0	24.0	26.5	24.2									
24	SURYA	134.0	114.0	97.3	98.7	111.0	15.7	28.0	22.5	17.0	24.5	22.3	21.7									
25	VIVEK HYBRID - 9	133.3	117.0	96.7	99.0	111.5	21.7	27.3	32.9	17.4	22.3	24.5	24.3									
MEAN LOCATION																						
C.D. AT 5%		4.4	3.9	2.0	2.9	3.3	2.3	2.8	2.3	1.1	4.9	8.2	3.6									
C.V. %		2.0	2.0	1.2	1.8	-	7.1	6.2	4.4	3.6	12.3	20.2	-									
F (Prob)		.439	.262	.000	.000	-	.000	.350	.000	.000	.451	.026	-									

TABLE NO. 55 (CONT.)

SI NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			ZN 1			
		SRIN	ALMO	BAJA	SRIN	ALMO	BAJA	SRIN	ALMO	BAJA	SRIN	ALMO	BAJA	MEAN
1	FH - 3354	3.0	2.9	2.2	3.1	2.6	2.5	3.1	2.6	2.5	3.0	2.1	2.2	2.2
2	FH - 3355	3.1	2.9	2.5	3.1	2.7	2.7	3.1	2.7	2.7	3.1	2.0	2.2	2.1
3	DEH - 107	3.1	2.9	2.5	3.1	2.8	2.7	3.1	2.8	2.7	3.1	2.0	2.3	2.3
4	DEH - 109	3.0	2.5	2.5	3.2	2.7	2.5	3.2	2.7	2.5	3.0	1.8	2.5	2.2
5	DEH - 115	3.1	2.8	2.5	3.1	2.8	2.5	3.1	2.8	2.5	3.0	1.9	2.3	2.1
6	DEH - 117	3.1	2.8	2.7	3.2	2.7	2.5	3.2	2.7	2.5	2.9	1.8	2.0	2.0
7	DEH - 119	3.1	2.9	2.3	3.1	2.9	2.7	3.1	2.9	2.7	3.1	1.9	2.2	2.2
8	DEH - 121	3.0	2.9	2.3	3.1	2.7	2.7	3.1	2.7	2.7	3.1	2.1	2.3	2.2
9	L - 229	3.1	2.6	2.7	3.1	2.5	2.5	3.1	2.5	2.5	3.0	1.6	2.3	2.2
10	L - 230	3.1	2.7	2.7	3.1	2.6	2.3	3.1	2.6	2.3	3.2	1.8	2.2	2.1
11	L - 231	3.1	2.7	2.8	3.1	2.6	2.2	3.1	2.6	2.2	3.1	1.6	2.0	2.0
12	L - 232	3.1	2.7	2.3	3.0	2.6	2.0	3.1	2.6	2.0	3.1	1.8	2.2	2.2
13	L - 233	3.1	2.5	2.3	3.1	2.5	2.3	3.1	2.5	2.3	3.1	1.8	1.8	2.1
14	J K M H - 082	3.3	2.3	2.2	3.1	2.2	2.0	3.1	2.2	2.0	3.2	1.8	2.0	2.1
15	J K M H - 782	3.1	2.4	2.2	3.1	2.3	2.3	3.1	2.3	2.3	3.0	1.5	1.8	2.0
16	K D M - 349	3.1	2.5	2.2	2.9	2.8	2.5	2.9	2.8	2.5	3.0	2.1	2.3	2.1
17	K D M - 361	3.2	-	2.7	3.1	-	2.7	3.1	-	2.7	3.0	-	2.2	2.1
18	K D M - 376	2.9	2.7	2.5	3.0	2.8	2.5	3.0	2.8	2.5	3.1	1.9	1.8	2.0
19	R C M - 80	3.1	-	2.3	3.1	-	2.2	3.1	-	2.2	3.0	-	2.0	2.2
20	R C M - 81	3.1	2.6	2.3	3.1	2.7	2.3	3.1	2.7	2.3	3.1	2.1	2.2	2.2
21	R C M - 83	3.0	-	2.2	3.0	-	2.3	3.0	-	2.3	3.1	-	2.2	2.3
CHECKS:														
22	HIM - 129	3.1	2.8	2.3	3.1	2.5	2.7	3.1	2.5	2.7	3.0	2.4	2.3	2.3
23	VIVEK SANKUL - 11	3.0	2.8	2.7	3.1	2.6	2.7	3.1	2.6	2.7	3.1	2.1	2.2	2.3
24	SURYA	3.2	2.9	2.8	3.0	2.9	2.8	3.1	2.9	2.8	3.1	1.8	2.3	2.1
25	VIVEK HYBRID - 9	2.9	2.5	2.5	3.0	2.4	2.3	3.0	2.4	2.3	3.1	2.2	2.3	2.1
MEAN LOCATION														
C.D. AT 5%		0.2	0.3	0.4	0.3	0.2	0.4	0.1	0.2	0.4	0.2	0.3	0.4	0.4
C.V. %		3.7	6.5	10.3	-	5.5	10.3	2.6	5.5	10.3	3.1	9.7	12.2	37.8
P (Prob)		.042	.000	.018	-	.074	.000	.074	.000	.009	.480	.000	.157	.895

TABLE NO. 55 (CONT.)

Sl NO	PEDIGREE	UNIFORMITY *					PLANT HEIGHT (cm)					ZN 1 MEAN
		SRIN	ALMO	BAJA	BAJA MEAN	SRIN	POON	ALMO	BAJA	KANG	PANT	
1	F H - 3354	3.1	2.8	1.8	2.6	200	220	185	151	217	197	195
2	F H - 3355	3.1	2.7	2.5	2.8	183	214	188	145	265	197	199
3	D E H - 107	3.1	2.8	2.3	2.8	175	223	189	135	240	208	195
4	D E H - 109	3.0	2.8	2.3	2.7	207	191	184	167	242	199	198
5	D E H - 115	3.1	2.8	2.5	2.8	207	205	188	167	247	217	205
6	D E H - 117	3.0	2.9	2.3	2.7	206	209	194	157	246	214	204
7	D E H - 119	3.1	3.0	2.5	2.9	203	207	157	182	236	224	202
8	D E H - 121	3.1	2.9	2.5	2.8	190	209	185	167	267	214	205
9	L - 229	3.1	3.1	2.2	2.8	178	219	185	177	261	231	208
10	L - 230	3.2	3.2	2.5	3.0	182	199	215	225	281	256	226
11	L - 231	3.1	3.4	2.5	3.0	184	206	216	217	287	265	229
12	L - 232	3.1	3.3	2.8	3.1	199	205	205	217	263	256	224
13	L - 233	3.0	2.8	2.3	2.7	195	202	201	172	241	203	202
14	J K M H - 082	3.2	2.4	2.3	2.6	201	197	187	192	265	223	211
15	J K M H - 782	3.0	2.5	1.8	2.5	188	206	211	171	248	222	208
16	K D M - 349	3.0	3.0	2.2	2.7	172	214	200	169	277	233	211
17	K D M - 361	3.0	-	2.3	2.7	178	225	-	148	203	182	187
18	K D M - 376	3.0	3.0	2.5	2.8	185	221	208	184	270	227	216
19	R C M - 80	3.1	-	2.5	2.8	198	213	-	190	309	217	225
20	R C M - 81	3.2	2.9	2.7	2.9	194	195	191	184	261	226	208
21	R C M - 83	3.0	-	2.5	2.7	189	210	-	164	223	212	199
CHECKS:												
22	HIM - 129	3.1	2.7	2.3	2.7	179	189	181	153	224	189	186
23	VIVEK SANKUL - 11	3.1	2.8	2.7	2.8	197	232	187	155	249	195	202
24	SURYA	3.0	2.9	2.5	2.8	184	204	201	154	255	212	202
25	VIVEK HYBRID - 9	3.0	2.4	2.3	2.6	208	199	183	162	242	216	202
MEAN LOCATION												
C.D. AT 5% =												
C.V. % =												
F (Prob) =												
.062 .000 .022 - - .000 .406 .000 .000 .000 .000 .000 .000 .000												

TABLE NO. 55 (CONT.)

SL NO	PEDIGREE	EAR HEIGHT (cm)					EAR NO./PLANT					
		SRIN	POON	ALMO	BAJA	KANG	PANT	MEAN	POON	ALMO	KANG	MEAN
1	F H - 3354	89	111	85	72	95	77	88	1.12	7.45	0.98	3.19
2	F H - 3355	87	111	81	72	135	80	94	1.15	1.03	1.00	1.06
3	D E H - 107	89	112	91	69	120	91	95	1.25	7.32	0.87	3.14
4	D E H - 109	103	100	87	89	114	86	97	1.12	1.00	1.00	1.04
5	D E H - 115	100	107	90	86	99	84	94	1.11	1.02	1.00	1.04
6	D E H - 117	99	113	92	81	106	91	97	1.08	1.05	0.97	1.04
7	D E H - 119	93	105	69	100	124	103	99	1.13	7.37	0.99	3.16
8	D E H - 121	87	111	81	91	132	101	100	1.13	1.03	0.98	1.04
9	L - 229	81	108	87	95	118	95	97	1.14	1.03	0.98	1.05
10	L - 230	90	102	107	111	133	113	109	1.08	1.00	0.97	1.02
11	L - 231	88	106	114	124	134	118	114	1.10	1.00	1.13	1.08
12	L - 232	92	105	103	104	133	108	107	0.98	8.00	0.98	3.32
13	L - 233	92	100	95	81	106	83	93	1.03	7.52	0.97	3.17
14	J K M H - 082	93	99	86	91	127	94	98	1.14	8.18	0.96	3.43
15	J K M H - 782	95	115	92	87	103	89	97	1.13	0.98	0.95	1.02
16	K D M - 349	87	109	105	88	132	105	104	1.06	1.00	0.95	1.00
17	K D M - 361	90	116	-	55	82	65	81	1.01	1.00	0.99	1.00
18	K D M - 376	96	113	109	98	132	100	108	1.01	1.00	0.97	0.99
19	R C M - 80	99	109	-	96	148	87	108	1.08	0.99	1.00	1.02
20	R C M - 81	87	96	97	80	122	98	97	1.38	8.50	0.95	3.61
21	R C M - 83	81	100	-	92	108	85	93	1.08	7.83	0.97	3.29
CHECKS:												
22	HIM - 129	88	94	82	77	104	76	87	1.06	1.01	0.98	1.02
23	VIVEK SANKUL - 11	93	111	89	75	112	79	93	1.04	0.96	0.99	1.00
24	SURYA	89	101	104	77	121	93	98	1.15	7.29	0.98	3.14
25	VIVEK HYBRID - 9	91	101	78	75	102	85	89	1.07	0.98	0.97	1.01
MEAN LOCATION												
C.D. AT 5%		14.2	21.3	8.5	20.3	23.6	14.1	17.0	-	-	-	-
C.V. %		9.5	12.2	5.6	14.3	12.2	9.4	-	-	-	-	-
F (Prob)		.276	.854	.000	.000	.000	.000	-	-	-	-	-

TABLE NO. 55 (CONT.)

Sl No	PEDIGREE	Hturcicum *		H. maydis *		STAND AT HARVEST					Zn 1 MEAN			
		ALMO	BAJA	ALMO	BAJA	SRIN	POON	ALMO	BAJA	KANG		PANT		
1	F H - 3354	2.4	1.5	2.0	2.3	1.2	1.7	27	21	21	33	26	38	28
2	F H - 3355	2.7	1.5	2.1	1.9	1.0	1.4	25	26	22	29	30	39	29
3	D E H - 107	2.7	2.0	2.3	2.4	1.5	2.0	25	23	21	31	26	40	28
4	D E H - 109	2.5	1.5	2.0	1.8	1.3	1.5	24	24	20	32	24	40	27
5	D E H - 115	2.6	1.7	2.1	2.3	1.2	1.7	27	14	21	32	23	38	26
6	D E H - 117	2.8	1.5	2.1	2.3	1.3	1.8	25	25	21	32	24	32	27
7	D E H - 119	2.6	1.7	2.1	2.4	1.3	1.8	25	24	21	33	28	26	26
8	D E H - 121	2.5	1.5	2.0	2.0	1.5	1.8	27	21	21	32	29	40	28
9	L - 229	2.6	1.5	2.1	2.3	1.0	1.6	24	20	22	30	24	34	26
10	L - 230	2.5	1.7	2.1	2.4	1.0	1.7	28	18	20	30	26	33	26
11	L - 231	2.7	1.3	2.0	2.6	1.2	1.9	26	20	21	30	26	35	26
12	L - 232	2.2	1.5	1.9	2.4	1.2	1.8	26	20	23	29	30	36	27
13	L - 233	1.8	1.7	1.7	1.5	1.0	1.3	26	19	22	29	24	35	26
14	J K M H - 082	2.1	1.3	1.7	1.8	1.0	1.4	24	19	20	28	24	26	23
15	J K M H - 782	1.0	1.5	1.3	1.2	1.0	1.1	27	23	21	35	21	36	27
16	K D M - 349	2.8	1.5	2.2	2.9	1.5	2.2	27	14	22	31	30	31	26
17	K D M - 361	-	2.2	2.2	-	1.0	1.0	24	10	-	28	14	5	16
18	K D M - 376	2.7	1.5	2.1	2.3	1.2	1.7	25	21	20	30	21	35	25
19	R C M - 80	-	1.7	1.7	-	1.2	1.2	25	14	-	28	16	8	18
20	R C M - 81	2.6	1.2	1.9	2.1	1.0	1.5	27	16	21	28	23	30	24
21	R C M - 83	-	1.3	1.3	-	1.0	1.0	25	18	-	16	23	2	17
CHECKS:														
22	HIM - 129	2.8	1.5	2.2	1.7	1.5	1.6	27	17	21	28	24	35	25
23	VIVEK SANKUL - 11	2.3	1.7	2.0	2.1	1.2	1.6	27	18	19	27	24	33	25
24	SURYA	3.6	1.5	2.5	1.8	1.0	1.4	27	17	20	29	21	23	23
25	VIVEK HYBRID - 9	1.8	1.7	1.8	1.3	1.2	1.3	28	19	22	27	26	31	26
MEAN LOCATION														
C.D. AT 5% =														
C.V. % =														
F (Prob) =														
.000 .094 - - 13.6 20.0 - 7.0 33.1 6.9 6.7 11.1 17.5 - -														
.000 .044 - .105 .352 .491 .000 .000 .000														

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 56

PERFORMANCE OF FULL SEASON EXPERIMENTAL HYBRIDS & COMPOSITES AT KARNAL IN ZONAL TRIAL No. TR201 DURING KHARIF (2004).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE		50 % POLL. SHED KARN	50% SILK -ING KARN	50% DRY HUSK KARN	PLANT HT. (cm) KARN	EAR HT. (cm) KARN	STAND AT HARV. KARN
		KARN	R						
1	JH - 10871	5871	1	57.0	59.0	89.0	193	90	26
2	HKH - 1168	5026	5	54.3	56.7	88.7	182	82	24
3	HKH - 1201	4278	11	54.3	57.0	88.0	185	87	30
4	HKH - 1220	3564	14	55.7	58.0	89.7	137	63	23
5	A H - 31409	4461	9	52.7	54.7	86.0	187	92	28
6	A H - 31039	4953	6	52.0	54.7	84.3	197	95	28
7	V - 1808	5520	3	52.0	55.0	84.5	207	98	25
8	NMH - 1270	4271	12	56.3	58.3	86.3	160	67	24
9	ZMH - 1911	5107	4	55.7	57.7	88.7	173	88	25
10	SGMH - 106	4402	10	56.7	58.7	89.0	198	102	27
CHECKS:									
11	BIO - 9681	4495	8	53.3	55.7	84.7	193	80	29
12	SEEDTEC - 2324	5726	2	55.3	57.7	86.7	177	88	31
13	PARBHAT	4170	13	54.7	57.3	85.7	203	97	20
14	PRO - 311	4891	7	56.3	57.3	87.0	185	97	25
	MEAN YIELD=	4767							
	MEAN STAND	26		54.7	57.0	87.0	184	88	26
	C.D. AT 5%	480		1.3	0.8	1.3	10.9	10.1	3.7
	C.V. %	6.01		1.4	0.8	0.9	3.5	6.9	8.5
	F (Prob)	.000		.000	.000	.000	.000	.000	.000
	PLOT SIZE=	4.50							
AGRONOMY DATA:									
	SOWING DATE (2004)	20-06							
	HARVEST DATE (2004)	23-09							
	IRRIGATION NOS	3							
	FERTILIZER APPLIED N	150							
	P	60							
	K	40							

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : LUDH 23.2%

TABLE NO. 57

PERFORMANCE OF MEDIUM MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT LUDHIANA, KARNAL IN ZONAL TRIAL NO. TR202 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE NAVJOT				THE K H - 510		ZN 2 MEAN	
		LUDH	R	KARN	R	LUDH	R	KARN	R	LUDH	KARN		
1	COMP.R - 2004-2	3779	4	6244	4	5012	4	18.60	-	-	5.30	1.81	5.22
2	JH- 10824	4858	2	4831	16	4844	6	52.45	-	-	1.79	-	1.71
3	JH- 10841	5576	1	6113	8	5845	1	75.00	-	-	22.81	-	22.72
4	JH- 10853	3678	5	6129	7	4903	5	15.42	-	-	3.02	-	2.95
5	HKH - 1129	3397	7	5278	12	4337	11	6.61	-	-	-	-	-
6	HKH - 1178	4815	3	6527	2	5671	2	51.10	3.07	19.15	6.41	6.41	19.06
7	HKH - 1189	3208	11	5179	14	4194	15	0.69	-	-	-	-	-
8	HKH - 1211	2506	16	4986	15	3746	16	-	-	-	-	-	-
9	A H - 31019	2889	15	5649	9	4269	12	-	-	-	-	-	-
10	A H - 31041	3161	13	5317	11	4239	13	-	-	-	-	-	-
11	A H - 31053	3215	10	5235	13	4225	14	0.88	-	-	-	-	-
12	ZMH - 1614	3407	6	6771	1	5089	3	6.91	6.93	6.92	10.40	10.40	6.85
13	VIPL - 1506	3249	9	5614	10	4431	10	1.96	-	-	-	-	-
14	NMH - 1102	3115	14	6224	5	4670	9	-	-	-	-	1.49	-
CHECKS:													
15	NAVJOT	3187	12	6332	3	4759	8	-	-	-	-	3.25	-
16	K H - 510	3393	8	6133	6	4763	7	6.47	-	-	0.07	-	-
	MEAN YIELD=	3589		5785		4687							
	MEAN STAND	36		27		31							
	C.D. AT 5%	1006		298		652							
	C.V. %	19.70		3.10		-							
	F (Prob)	.000		.000		-							
	PLOT SIZE=	5.20		4.50		-							
AGRONOMY DATA:													
	SOWING DATE (2004)	27-06		20-06		-							
	HARVEST DATE (2004)	5-10		23-09		-							
	IRRIGATION NOS	7		4		-							
	FERTILIZER APPLIED N	150		150		-							
	P	60		60		-							
	K	30		40		-							

TABLE NO. 57 (CONT.)

SI NO	PEDIGREE	POLLEN SHED			SILKING 50%			DRY HUSK 50%			MOIST.		
		LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN
1	COMP R - 2004-2	50.0	0.7	4.8	0.0	0.7	0.8	0.3	0.7	1.5	0.9	21.3	
2	JH - 10824	55.4	1.5	0.2	5.2	3.7	5.4	8.8	2.5	8.8	22.2		
3	JH - 10853	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
4	JH - 11011	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
5	JH - 11078	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
6	JH - 11089	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
7	JH - 11181	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
8	JH - 11210	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
9	JH - 11043	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
10	JH - 11053	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
11	JH - 11054	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
12	JH - 11054	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
13	JH - 11054	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
14	JH - 11052	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
15	NAVJOT	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
16	NAVJOT	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	CHECKS:	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	KARN	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	MEAN	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	LOCATION	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	AT 5%	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	C.V. (%)	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		
	P (Prob)	55.5	1.5	0.2	5.5	7.7	5.5	8.8	6.6	8.8	22.2		

SI NO	PEDIGREE	PLANT HEIGHT (CM)			EAR HEIGHT (CM)			EAR NO. / PLANT			STAND AT HARVEST		
		LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN	LU DH	KARN	ZN 2 MEAN
1	COMP R - 2004-2	180	188	186	90	95	90	0	0	0	3	8	5
2	JH - 10824	174	227	180	88	105	100	0	0	0	3	8	3
3	JH - 10853	176	227	180	88	105	100	0	0	0	3	8	3
4	JH - 11011	174	227	180	88	105	100	0	0	0	3	8	3
5	JH - 11078	176	227	180	88	105	100	0	0	0	3	8	3
6	JH - 11089	174	227	180	88	105	100	0	0	0	3	8	3
7	JH - 11181	174	227	180	88	105	100	0	0	0	3	8	3
8	JH - 11210	174	227	180	88	105	100	0	0	0	3	8	3
9	JH - 11043	174	227	180	88	105	100	0	0	0	3	8	3
10	JH - 11053	174	227	180	88	105	100	0	0	0	3	8	3
11	JH - 11054	174	227	180	88	105	100	0	0	0	3	8	3
12	JH - 11054	174	227	180	88	105	100	0	0	0	3	8	3
13	JH - 11054	174	227	180	88	105	100	0	0	0	3	8	3
14	JH - 11052	174	227	180	88	105	100	0	0	0	3	8	3
15	NAVJOT	171	202	186	80	105	93	0	0	0	7	26	31
16	NAVJOT	160	188	174	73	85	77	1	1	1	3	24	31
	CHECKS:	171	202	186	80	105	93	0	0	0	7	26	31
	KARN	171	202	186	80	105	93	0	0	0	7	26	31
	MEAN	171	202	186	80	105	93	0	0	0	7	26	31
	LOCATION	171	202	186	80	105	93	0	0	0	7	26	31
	AT 5%	171	202	186	80	105	93	0	0	0	7	26	31
	C.V. (%)	171	202	186	80	105	93	0	0	0	7	26	31
	P (Prob)	171	202	186	80	105	93	0	0	0	7	26	31

TABLE NO. 58

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT KARNAL IN ZONAL TRIAL NO. TR203 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE	50% POLL. SHED	50% SILK -ING	50% DRY HUSK	PLANT HT. (cm)	EAR HT. (cm)	STAND AT HARV
		KARN R	KARN	KARN	KARN	KARN	KARN	KARN
1	JH - 31052	3921	51.7	53.7	81.7	188	87	23
2	JH - 31045	5788	51.0	53.0	82.7	183	87	22
3	JC - 3287	5071	50.7	52.7	81.7	192	93	23
4	JC - 3288	6117	50.3	52.7	82.3	203	105	26
5	JC - 3289	5303	48.3	50.7	81.7	183	83	24
6	HKH - 1172	4724	52.7	54.7	82.3	170	75	23
7	HKH - 1186	5033	52.7	54.7	83.3	187	88	21
8	COM. R-2004-1	3914	47.7	50.7	79.7	163	72	22
9	A H - 31003	4993	52.0	54.0	84.0	202	92	29
10	A H - 31047	4280	49.3	51.7	81.0	185	88	27
11	A H - 31051	4951	51.0	53.3	83.3	190	93	24
12	WIPL - 1301	5057	52.7	55.3	83.7	190	93	26
13	NMH - 1076	4768	53.0	55.0	83.3	177	82	19
14	KMH - 3851	4861	51.3	53.3	82.0	177	80	24
15	ZMH - 1410	5604	52.3	54.3	84.3	187	83	26
CHECKS:								
16	X - 3342	5488	47.7	50.3	80.7	195	95	26
17	MAHI KANCHAN	4293	49.3	51.7	81.0	183	90	24
18	PEHM - 3	4959	47.3	50.0	79.7	165	70	21
19	PARKASH	4504	52.3	54.3	83.7	192	88	29
MEAN YIELD =								
MEAN STAND =								
C.D. AT 5% =								
C.V. % =								
P (Prob) =								
PLOT SIZE =								
AGRONOMY DATA:								
SOWING DATE (2004) 20-06								
HARVEST DATE (2004) 21-09								
IRRIGATION NOS 3								
FERTILIZER APPLIED N 150								
P 60								
K 40								

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

TABLE NO. 59

PERFORMANCE OF EXTRA EARLY EXPERIMENTAL HYBRIDS & COMPOSITES AT LUDHIANA, KARNAL IN ZONAL TRIAL No. TR204 DURING KHARIF (2004).

S1 No PEDIGREE	GRAIN YIELD (kg/ha) AT			GRAIN YIELD & SUPERIORITY OVER			ZN 2 MEAN	THE HIM - 129 KARN	ZN 2 MEAN			
	15% MOISTURE	ZN 2	R	THE SURYA	ZN 2	THE HIM						
	LUDH	R	KARN	LUDH	R	KARN	LUDH	R	KARN			
1 J H - 31046	4082	1	4499	4	4291	3	85.37	3.03	30.63	63.46	26.14	41.51
2 J H - 31050	3891	2	4770	2	4330	2	76.71	9.22	31.84	55.81	33.72	42.82
3 A H - 31021	3308	4	4765	3	4037	4	50.23	9.11	22.90	32.47	33.59	33.12
4 A H - 31037	3854	3	5127	1	4491	1	75.03	17.41	36.72	54.33	43.74	48.10
CHECKS:												
5 SURYA	2202	6	4367	5	3285	5	-	-	-	-	22.43	8.32
6 HIM - 129	2497	5	3567	6	3032	6	13.41	-	-	-	-	-
MEAN YIELD=	3306		4516		3911							
MEAN STAND	36		24		30							
C.D. AT 5%	753		408		580							
C.V. %	15.26		5.03		-							
F (Prob)	.000		.000		-							
PLOT SIZE=	5.46		4.50		-							
AGRONOMY DATA:												
SOWING DATE(2004)	8-07		20-06		-							
HARVEST DATE(2004)	24-10		21-09		-							
IRRIGATION Nos	-		3		-							
FERTILIZER APPLIED N	90		150		-							
P	40		60		-							
K	-		40		-							

TABLE NO. 59 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOIST. % HARV. LUDH	
		LUDH	KARN	MEAN	LUDH	KARN	MEAN	LUDH	KARN	MEAN	ZN 2	MEAN
1	J H - 31046	48.8	47.3	48.0	50.5	49.3	49.9	82.0	80.0	81.0	21.4	
2	J H - 31050	48.8	46.7	47.7	50.3	48.7	49.5	82.5	77.3	79.9	21.8	
3	A H - 31021	50.0	47.0	48.5	52.0	49.3	50.7	82.8	79.3	81.0	21.8	
4	A H - 31037	50.5	48.3	49.4	53.0	50.3	51.7	84.3	79.0	81.6	23.3	
CHECKS:												
5	SURVA	48.0	46.3	47.2	50.0	48.3	49.2	79.5	78.0	78.8	21.6	
6	HIM - 129	46.5	45.3	45.9	48.5	47.3	47.9	78.8	78.0	78.4	20.9	
MEAN LOCATION												
		48.8	46.8	47.8	50.7	48.9	49.8	81.6	78.6	80.1	21.8	
C.D. AT 5% =												
		3.7	0.6	2.2	3.7	0.8	2.3	3.0	1.3	2.1	0.2	
C.V. % =												
		5.1	0.7	-	4.9	0.9	-	2.4	0.9	-	0.7	
F (Prob) =												
		.305	.000	-	.213	.000	-	.011	.009	-	.000	

SI NO	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR NO. /PLANT	STAND AT HARVEST			OV'L MEAN
		LUDH	KARN	MEAN	LUDH	KARN	MEAN		LUDH	KARN	MEAN	
1	J H - 31046	160	177	168	79	82	80	0.90	37	25	31	
2	J H - 31050	151	157	154	79	70	74	1.01	35	27	31	
3	A H - 31021	155	173	164	79	78	79	0.95	35	24	30	
4	A H - 31037	148	180	164	73	77	75	0.94	37	26	32	
CHECKS:												
5	SURVA	164	160	162	74	70	72	0.97	32	21	27	
6	HIM - 129	138	150	144	64	65	64	0.94	38	21	29	
MEAN LOCATION												
		153	166	159	74	74	74	-	36	24	30	
C.D. AT 5% =												
		14.2	10.2	12.2	17.2	7.0	12.1	-	4.9	4.6	-	
C.V. % =												
		6.2	3.4	-	15.3	5.2	-	-	9.2	10.6	-	
F (Prob) =												
		.017	.000	-	.414	.003	-	-	.202	.062	-	

TABLE NO. 60

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT BELIPAR GORAKHPUR, VARANASI, DHOLI, JASHIPUR IN ZONAL TRIAL NO. TR301 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE												ZN 3	
		GORA		BELI		VARA		DHOL		JASH		R		MEAN	R
1	- 994	3451	11	2802	10	2246	9	2892	8	2848	10				
2	U M H - 4	3842	7	3632	6	2440	8	3158	7	3270	8				
3	U M H - 5	4037	6	3410	8	2474	7	2575	10	3124	9				
4	U M H - 6	4410	5	3522	7	2792	3	3268	3	3498	6				
5	U M H - 7	3623	10	3795	5	2654	5	3203	6	3319	7				
6	U M H - 8	4923	2	5312	2	4115	1	3496	1	4461	1				
7	M H 04 - 4	4587	3	-	-	2698	4	-	-	3642	5				
8	M H 04 - 5	5048	1	4885	4	2539	6	3444	2	3979	2				
9	M H 04 - 6	4543	4	4902	3	1951	10	3265	5	3665	4				
CHECKS:															
10	MAHI KANCHAN	3748	9	3319	9	1039	11	2587	9	2673	11				
11	PRAKASH	3807	8	5380	1	3149	2	3268	4	3901	3				
	MEAN YIELD=	4184		3724		2555		2833		3324					
	MEAN STAND	65		29		54		56		51					
	C.D. AT 5%	516		657		1028		129		583					
	C.V. %	7.27		9.38		23.70		1.84		-					
	F (Prob)	.000		.000		.000		.000		-					
	PLOT SIZE=	12.00		7.50		15.00		12.00		-					
AGRONOMY DATA:															
	SOWING DATE (2004)	25-06		7-07		7-07		5-07		-					
	HARVEST DATE (2004)	27-09		5-10		-		20-10		-					
	IRRIGATION Nos	2		2		-		-		-					
	FERTILIZER APPLIED N	120		80		100		120		-					
	P	60		40		60		60		-					
	K	60		40		40		60		-					

TABLE NO. 60 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN						ZN 3 MEAN
		GORA BELI	VARA	DHOL	JASH	JASH		
1	V - 994	-	-	116.15	11.78	11.78	6.53	
2	U M H - 4	2.52	9.43	135.58	22.06	22.06	22.33	
3	U M H - 5	7.72	2.75	138.09	-	-	16.86	
4	U M H - 6	17.67	6.12	168.67	26.31	26.31	30.85	
5	U M H - 7	-	14.35	155.38	23.80	23.80	24.15	
6	U M H - 8	31.37	60.04	295.90	35.11	35.11	66.88	
7	M H 04 - 4	22.39	-	159.60	-	-	36.25	
8	M H 04 - 5	34.69	47.19	144.30	33.11	33.11	48.84	
9	M H 04 - 6	21.21	47.70	87.76	26.18	26.18	37.10	
CHECKS:								
10	MAHI KANCHAN	-	-	-	-	-	-	
11	PRAKASH	1.59	62.10	202.97	26.31	26.31	45.93	

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE PRAKASH						ZN 3 MEAN
		GORA BELI	VARA	DHOL	JASH	JASH		
1	V - 994	-	-	-	-	-	-	
2	U M H - 4	0.92	-	-	-	-	-	
3	U M H - 5	6.03	-	-	-	-	-	
4	U M H - 6	15.82	-	-	-	-	-	
5	U M H - 7	-	-	-	-	-	-	
6	U M H - 8	29.31	-	30.67	6.97	6.97	14.36	
7	M H 04 - 4	20.47	-	-	-	-	-	
8	M H 04 - 5	32.58	-	-	5.38	5.38	2.00	
9	M H 04 - 6	19.31	-	-	-	-	-	
CHECKS:								
10	MAHI KANCHAN	-	-	-	-	-	-	
11	PRAKASH	-	-	-	-	-	-	

TABLE NO. 60 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED				DAYS TO 50% SILKING					
		GORA BELI	VARA	DHOL	JASH MEAN	ZN 3 MEAN	GORA BELI	VARA	DHOL	JASH MEAN	
1	V - 994	51.7	44.0	58.0	45.0	49.7	53.7	50.0	61.3	48.5	53.4
2	U M H - 4	52.3	43.0	57.3	46.0	49.7	54.7	48.3	60.7	51.0	53.7
3	U M H - 5	50.7	42.0	56.7	44.5	48.5	53.0	47.7	59.7	48.5	52.2
4	U M H - 6	52.7	42.0	58.0	45.0	49.6	54.7	48.0	61.3	49.0	53.3
5	U M H - 7	51.3	41.7	57.7	46.0	49.2	53.7	46.3	60.7	49.0	52.4
6	U M H - 8	52.3	45.7	59.3	48.0	51.3	54.7	50.0	62.7	51.0	54.6
7	M H 04 - 4	54.7	-	60.7	-	57.7	57.3	-	64.0	-	60.7
8	M H 04 - 5	54.0	47.0	60.0	48.0	52.3	56.3	51.3	63.3	51.5	55.6
9	M H 04 - 6	53.3	44.0	57.3	47.0	50.4	55.3	48.0	61.3	50.0	53.7
CHECKS:											
10	MAHI KANCHAN	53.7	42.7	58.0	47.5	50.5	55.7	49.7	61.7	51.0	54.5
11	PRAKASH	52.7	44.3	58.3	47.5	50.7	55.0	49.7	62.0	50.5	54.3
MEAN LOCATION											
	C.D. AT 5% =	1.1	1.9	1.7	1.7	1.6	1.4	2.6	1.6	2.0	1.9
	C.V. % =	1.2	2.5	1.7	1.6	-	1.5	3.1	1.5	1.7	-
	F (Prob) =	.000	.000	.002	.006	-	.000	.030	.001	.037	-

Sl No	PEDIGREE	DAYS TO 50% DRY HUSK				MOISTURE % AT HARVEST				PLANT ASPECT *			
		GORA BELI	VARA	DHOL	JASH MEAN	ZN 3 MEAN	GORA BELI	VARA	ZN 3 MEAN	GORA BELI	DHOL	JASH MEAN	ZN 3 MEAN
1	V - 994	80.7	80.0	87.0	80.5	82.0	21.4	31.1	26.3	3.0	3.2	4.0	3.4
2	U M H - 4	79.7	82.0	81.3	79.0	80.5	21.8	29.0	25.4	2.3	2.8	3.0	2.7
3	U M H - 5	80.0	81.0	83.0	81.0	81.3	21.8	30.2	26.0	2.3	2.7	3.5	2.8
4	U M H - 6	80.3	82.0	85.7	84.0	83.0	21.8	28.8	25.3	2.8	3.2	3.0	3.0
5	U M H - 7	80.3	81.0	84.0	87.0	83.2	22.2	29.2	24.7	2.5	2.7	2.0	2.4
6	U M H - 8	83.7	82.3	87.7	90.0	85.9	22.1	31.6	26.9	2.0	2.0	2.0	2.0
7	M H 04 - 4	82.3	-	88.7	-	85.5	23.1	-	23.1	2.0	2.7	-	2.3
8	M H 04 - 5	84.0	83.7	87.3	84.5	84.9	21.8	31.5	26.6	2.2	2.2	2.0	2.1
9	M H 04 - 6	80.7	80.3	84.7	87.0	83.2	22.7	29.8	26.3	2.2	2.5	3.0	2.6
CHECKS:													
10	MAHI KANCHAN	81.3	79.3	80.7	81.0	80.6	21.9	29.4	25.7	2.7	3.5	3.5	3.2
11	PRAKASH	85.3	83.3	86.3	85.0	85.0	20.8	30.3	25.5	2.2	2.3	3.0	2.5
MEAN LOCATION													
	C.D. AT 5% =	1.4	2.8	3.2	2.5	2.5	1.1	0.7	0.9	0.6	0.5	0.8	0.6
	C.V. % =	1.0	2.0	2.2	1.3	-	2.9	1.3	-	14.1	11.2	11.5	-
	F (Prob) =	.000	.075	.000	.000	-	.002	.000	-	.018	.000	.002	-

TABLE NO. 60 (CONT.)

Sl No	PEDIGREE	EAR ASPECT *			HUSK COVER *			UNIFORMITY *			Zn 3 MEAN
		GORA BELI	DHOL	ZN 3 MEAN	GORA BELI	DHOL	JASH	GORA BELI	DHOL	JASH	
1	V - 994	2.7	2.3	2.5	2.0	2.3	3.0	2.8	2.8	4.0	3.2
2	U M H - 4	2.5	3.2	2.8	2.3	3.0	3.0	2.2	3.3	3.0	2.8
3	U M H - 5	2.3	2.5	2.4	2.3	2.5	3.0	2.7	2.7	3.0	2.8
4	U M H - 6	2.0	2.7	2.3	2.5	2.7	3.0	2.8	3.0	3.0	2.9
5	U M H - 7	2.5	3.2	2.8	2.3	2.5	2.0	2.8	2.8	3.0	2.9
6	U M H - 8	2.0	1.8	1.9	2.3	2.5	2.0	2.2	2.2	3.0	2.4
7	M H 04 - 4	2.0	2.5	2.3	3.0	3.2	-	2.0	3.2	-	2.6
8	M H 04 - 5	1.8	1.7	1.8	2.2	2.2	2.5	2.3	2.3	3.0	2.6
9	M H 04 - 6	2.2	2.3	2.3	1.8	2.7	2.0	2.5	2.3	3.0	2.6
CHECKS:											
10	MAHI KANCHAN	2.3	4.0	3.2	2.2	3.3	3.0	3.0	3.5	4.0	3.5
11	PRAKASH	2.2	3.0	2.6	2.5	3.0	2.5	2.3	2.8	3.0	2.7
MEAN LOCATION											
C.D. AT 5% =		0.6	0.8	0.7	0.6	0.8	0.7	0.5	0.9	0.0	0.5
C.V. % =		15.7	17.2	-	14.8	18.0	11.5	12.0	19.1	0.0	-
F (Prob)		.159	.000	-	.051	.153	.015	.006	.114	.000	-

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			STAND AT HARVEST			OV/L MEAN
		GORA BELI	DHOL	ZN 3 MEAN	GORA BELI	VARA	DHOL	GORA BELI	VARA	DHOL	
1	V - 994	132	149	165	54	70	73	56	32	23	64
2	U M H - 4	131	148	154	60	75	67	64	33	49	60
3	U M H - 5	131	146	157	52	63	70	48	28	38	44
4	U M H - 6	132	138	160	49	75	59	74	26	49	53
5	U M H - 7	137	144	153	56	78	73	66	29	45	50
6	U M H - 8	149	208	151	72	93	81	75	35	45	62
7	M H 04 - 4	153	154	165	71	-	79	69	37	60	65
8	M H 04 - 5	137	160	154	63	85	85	74	37	65	59
9	M H 04 - 6	134	143	160	61	90	72	73	31	75	60
CHECKS:											
10	MAHI KANCHAN	146	167	175	57	83	71	61	34	68	64
11	PRAKASH	144	154	166	59	83	77	60	36	47	61
MEAN LOCATION											
C.D. AT 5% =		16.6	9.7	15.5	16.6	7.1	16.6	5.9	5.0	10.5	3.8
C.V. % =		7.0	2.8	6.0	16.4	5.2	13.3	5.3	9.0	11.5	2.8
F (Prob)		.098	.000	.036	.184	.000	.170	.000	.004	.000	.169

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 61

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT HYDERABAD, KARIMNAGAR, COIMBATORE IN TRIAL No. TR401A DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha)						AT 15% MOISTURE			AT 50% POLLEN SHED		
		HYDE	R	KARI	R	COIM	R	ZN 4	MEAN	R	HYDE	KARI	COIM
1	B H - 200401	8876	15	4015	25	6835	10	6575	15	56.0	51.7	52.7	53.4
2	B H - 200402	7106	30	3820	27	5918	20	5615	29	56.0	53.3	51.7	53.7
3	B H - 200403	8480	19	5247	6	7210	7	6979	11	56.5	52.7	54.0	54.4
4	B H - 200404	8706	17	4693	17	6168	18	6522	17	56.0	53.7	50.7	53.4
5	B H - 200405	9265	10	4713	16	8391	2	7456	4	55.5	54.3	52.7	54.2
6	B H - 200406	8129	21	4623	19	6335	17	6362	20	55.0	53.7	54.0	54.2
7	B H - 200407	7866	24	3184	31	5377	26	5476	30	53.5	52.3	51.3	52.4
8	B H - 200408	7866	25	4436	22	5293	28	5865	26	53.5	53.3	50.7	52.5
9	B H - 200409	8982	13	4750	14	8516	1	7416	6	54.5	52.3	55.0	53.9
10	B H - 200410	7966	22	5468	1	6141	19	6525	16	56.5	54.0	51.3	53.9
11	B H - 200411	9578	6	5276	4	6530	13	7128	9	56.5	53.7	56.0	55.4
12	B H - 200412	7608	28	4948	12	5835	22	6130	23	55.5	51.3	51.3	52.7
13	B H - 200413	8895	14	3899	26	5474	25	6089	24	54.0	53.7	53.7	53.8
14	B H - 200414	7759	26	3224	30	5891	21	5625	28	56.0	52.7	55.3	54.7
15	B H - 200415	8198	20	5247	7	5280	29	6242	21	56.5	53.0	57.0	55.5
16	B H - 200416	9886	3	5389	3	7335	5	7537	2	58.5	53.3	55.7	55.8
17	B H - 200417	8550	18	4580	20	4530	31	5887	25	58.0	51.3	55.3	54.9
18	B H - 200418	9567	7	5126	9	7168	8	7287	7	59.0	51.7	57.3	56.0
19	B H - 200419	7759	27	5092	11	6363	16	6405	18	56.5	53.7	54.0	54.7
20	B H - 200420	9716	4	4908	13	6488	15	7037	10	53.5	52.7	51.7	52.6

TABLE NO. 61 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						DAYS TO 50% POLLEN SHED					
		HYDE	R	KARI	R	COIM	R	ZN 4	MEAN	R	HYDE	KARI	COIM
21	B H - 200421	9352	9	4566	21	6502	14	6807	12	58.5	53.3	58.0	56.6
22	B H - 200422	8863	16	4742	15	6793	12	6799	13	58.0	52.0	56.7	55.6
23	B H - 200423	10645	1	4663	18	7113	9	7474	3	54.5	52.3	56.7	54.5
24	B H - 200424	7966	23	4086	24	5127	30	5726	27	56.5	53.7	54.7	54.9
25	B H - 200425	9101	12	5140	8	5835	23	6692	14	55.0	53.3	53.3	53.9
26	LAXMI-999	9679	5	5270	5	6807	11	7252	8	54.5	52.0	49.7	52.1
27	MAHARAJ 1104	5676	31	3647	29	5377	27	4900	31	54.5	53.0	50.7	52.7
28	S G M H - 111	7533	29	3758	28	7293	6	6195	22	54.0	52.3	49.7	52.0
29	K M H - 22169	9918	2	5428	2	8252	3	7866	1	55.0	52.7	51.0	52.9
30	K M H - 22172	9165	11	4332	23	5696	24	6398	19	55.5	53.7	52.7	53.9
31	900 M	9516	8	5103	10	7682	4	7434	5	54.5	54.3	51.0	53.3
	MEAN YIELD=	8651		4625		6437		6571		-	-	-	-
	MEAN STAND	18		17		15		17		55.7	52.9	53.4	54.0
	C.D. AT 5%	2312		1438		950		1567		4.6	2.8	1.1	2.8
	C.V. %	13.08		19.04		9.04		-		4.0	3.2	1.3	-
	F (Prob)	.185		.062		.000		-		.568	.804	.000	-
	PLOT SIZE=	3.75		3.00		2.40		-		-	-	-	-
AGRONOMY DATA:													
	SOWING DATE(2004)	26-06		15-07		30-06		-		-	-	-	-
	HARVEST DATE(2004)	18-10		5-11		19-10		-		-	-	-	-
	IRRIGATION Nos	7		-		9		-		-	-	-	-
	FERTILIZER APPLIED N	120		180		135		-		-	-	-	-
	P	60		60		63		-		-	-	-	-
	K	40		40		50		-		-	-	-	-

TABLE NO. 61 (CONT.)

S1 NO	PEDIGREE	DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			PLANT ASPECT *			ZN 4 MEAN	
		HYDE	KARI	COIM	ZN 4 MEAN	HYDE	KARI	COIM	HYDE	KARI		COIM
1	B H - 200401	58.0	54.7	55.3	56.0	95.5	95.7	98.3	2.8	2.3	3.0	2.7
2	B H - 200402	58.0	56.7	54.3	56.3	97.0	98.0	97.3	2.8	2.3	3.0	2.7
3	B H - 200403	58.5	56.0	56.7	57.1	96.0	97.0	99.7	3.0	1.7	3.0	2.6
4	B H - 200404	58.0	55.3	53.3	55.6	96.0	97.0	96.3	3.5	2.7	3.7	3.3
5	B H - 200405	57.5	57.7	55.7	56.9	94.5	98.7	98.7	2.0	3.0	2.0	2.3
6	B H - 200406	57.0	56.3	58.0	57.1	94.5	97.3	101.0	2.8	2.7	3.0	2.8
7	B H - 200407	55.5	56.0	54.3	55.3	94.0	97.0	97.3	3.3	2.7	4.0	3.3
8	B H - 200408	55.5	55.3	53.3	54.3	95.5	96.3	96.3	3.0	2.0	3.0	2.7
9	B H - 200409	56.5	55.3	58.0	56.5	96.0	97.0	101.0	2.5	2.7	2.0	2.4
10	B H - 200410	57.5	56.0	55.3	56.3	96.5	95.3	98.3	2.8	2.0	3.0	2.6
11	B H - 200411	58.5	54.7	58.7	57.3	96.5	95.3	101.7	2.3	1.7	2.0	2.0
12	B H - 200412	57.5	54.0	54.0	55.2	96.0	93.0	97.0	2.8	2.7	3.0	2.8
13	B H - 200413	56.5	56.7	57.7	56.9	95.5	95.3	100.7	2.8	2.3	3.0	2.7
14	B H - 200414	58.0	56.0	58.3	57.4	96.0	95.7	102.3	3.3	2.7	3.0	3.0
15	B H - 200415	58.5	55.7	60.0	58.1	98.0	94.7	103.0	3.3	2.3	3.0	2.9
16	B H - 200416	60.5	56.0	59.3	58.6	97.5	95.3	102.3	2.8	2.0	2.0	2.3
17	B H - 200417	60.0	54.7	59.0	57.9	97.0	93.7	102.0	2.8	2.3	4.0	3.0
18	B H - 200418	60.5	54.7	60.3	58.5	97.0	96.7	103.3	3.0	2.0	4.0	3.0
19	B H - 200419	58.5	56.0	57.7	57.4	95.0	97.7	100.7	2.8	2.3	3.0	2.7
20	B H - 200420	55.5	56.0	54.7	55.4	94.5	98.0	97.7	3.0	2.0	3.0	2.7
21	B H - 200421	60.0	55.7	61.7	59.1	95.5	97.3	104.7	3.8	2.0	3.0	2.9
22	B H - 200422	60.0	54.3	59.7	58.0	96.0	95.7	102.7	3.3	2.0	3.0	2.8
23	B H - 200423	56.5	55.0	59.7	57.1	94.0	96.3	102.7	3.8	2.0	2.0	2.6
24	B H - 200424	58.5	56.0	58.3	57.6	97.0	97.3	101.3	3.5	2.7	3.0	3.1
25	B H - 200425	57.0	56.7	57.0	56.9	94.5	98.0	100.0	2.8	1.0	3.0	2.3
26	LAXMI-999	57.0	55.0	52.7	54.9	96.0	96.0	95.7	3.3	2.3	3.0	2.9
27	MAHABEJ 1104	57.0	56.3	53.3	55.6	95.5	98.7	96.3	3.5	2.7	3.0	3.1
28	S G M H - 111	56.5	54.7	53.0	54.7	96.0	95.7	96.0	2.8	3.0	2.0	2.6
29	K M H - 22169	57.5	55.0	54.3	55.6	96.0	96.7	97.3	3.3	2.0	2.0	2.4
30	K M H - 22172	56.5	56.0	56.4	56.4	93.5	97.3	99.7	3.3	2.3	3.0	2.8
31	900 M	56.5	57.3	54.0	55.9	92.5	98.7	97.0	3.3	2.3	2.0	2.6
	MEAN LOCATION	57.7	55.7	56.6	56.7	95.6	96.5	99.6	3.0	2.3	2.9	2.7
	C.D. AT 5%	4.3	2.4	1.2	2.6	3.1	3.5	1.3	0.9	0.9	0.2	0.7
	C.V. %	3.6	2.6	1.3	1.3	1.6	2.2	0.8	14.8	24.0	3.6	-
	P (Prob)	.590	.417	.000	-	.228	.227	.000	.085	.024	.000	-

TABLE NO. 61 (CONT.)

SL NO	PEDIGREE	EAR ASPECT *			HUSK COVER *			UNIFORMITY *			ZN 4 MEAN
		HYDE	KARI	COIM	HYDE	KARI	COIM	HYDE	KARI	COIM	
1	BH - 200401	3.0	1.7	3.0	2.3	1.7	3.0	2.8	2.0	4.0	2.9
2	BH - 200402	3.0	2.0	3.0	2.5	2.3	3.0	2.5	2.3	3.0	2.6
3	BH - 200403	3.3	1.3	3.0	2.5	2.3	3.0	2.3	2.7	3.0	2.6
4	BH - 200404	3.3	1.7	3.0	2.5	2.0	3.0	3.3	2.3	2.7	2.8
5	BH - 200405	3.3	2.0	3.0	2.0	2.3	3.0	1.5	2.7	3.0	2.4
6	BH - 200406	3.3	1.3	3.0	2.5	2.3	4.0	2.8	2.3	4.0	3.1
7	BH - 200407	3.3	2.7	4.0	2.5	2.7	4.0	2.5	2.3	4.0	2.9
8	BH - 200408	3.0	2.0	4.0	2.3	2.3	3.3	3.3	2.7	3.0	3.0
9	BH - 200409	2.5	2.3	2.0	2.5	2.3	2.0	2.8	2.0	2.0	2.3
10	BH - 200410	2.8	1.7	4.0	2.3	2.0	3.3	2.0	2.0	3.0	2.3
11	BH - 200411	2.3	1.3	3.0	2.2	2.0	3.0	2.0	2.0	3.0	2.3
12	BH - 200412	3.0	1.7	4.0	2.9	2.7	3.0	2.8	3.0	3.0	2.9
13	BH - 200413	2.8	1.3	3.0	2.4	1.7	3.0	2.3	2.3	3.0	2.5
14	BH - 200414	3.3	2.0	3.0	2.8	2.3	3.0	2.8	1.7	3.0	2.8
15	BH - 200415	2.8	1.0	3.0	2.3	2.0	3.0	3.3	2.0	3.0	2.8
16	BH - 200416	2.3	2.7	3.0	2.6	2.3	3.0	2.3	2.7	3.0	2.6
17	BH - 200417	3.0	2.7	3.0	2.9	3.0	3.0	2.8	2.7	4.0	3.1
18	BH - 200418	3.5	1.0	2.0	2.2	2.0	2.7	3.0	2.3	4.0	3.1
19	BH - 200419	3.0	1.7	3.0	2.6	2.3	3.0	3.0	2.7	3.0	2.9
20	BH - 200420	3.0	2.0	3.0	2.7	2.0	3.0	3.3	2.0	3.0	2.8
21	BH - 200421	2.8	1.7	3.0	2.5	2.7	3.0	3.8	2.7	3.0	3.1
22	BH - 200422	3.0	2.3	3.0	2.8	2.3	3.0	3.0	1.7	4.0	2.9
23	BH - 200423	2.8	3.0	2.0	2.8	3.3	2.0	2.5	2.0	3.0	2.5
24	BH - 200424	3.3	2.0	4.0	3.1	2.3	3.0	3.5	2.3	4.0	3.3
25	BH - 200425	3.0	1.3	3.0	2.4	2.0	3.0	2.8	1.3	2.0	2.0
26	LAXMI-999	3.0	1.7	3.0	2.6	2.0	3.0	2.8	3.0	2.0	2.6
27	MAHABREJ 1104	3.8	2.7	4.0	3.5	2.0	4.0	3.5	2.3	4.0	3.3
28	S G M H - 111	2.8	2.7	2.0	2.5	2.5	2.0	2.5	2.7	3.0	2.6
29	K M H - 22169	3.0	2.3	2.0	2.4	3.0	2.0	3.0	2.7	3.0	3.0
30	K M H - 22172	3.0	2.0	3.0	2.7	2.3	3.0	3.3	1.7	3.0	2.6
31	900 M	2.8	1.0	3.0	2.3	2.0	2.9	2.8	1.3	3.0	2.4
	MEAN LOCATION	3.0	1.9	3.0	2.6	0.9	0.3	1.0	1.1	0.2	0.8
	C.D. AT 5%	0.8	1.0	0.0	-	12.5	6.2	17.2	30.5	3.3	-
	C.V. %	13.2	32.7	0.0	-	.624	.143	.017	.184	.000	-
	F. (Prob)	.227	.002	.000	-	-	-	-	-	-	-

TABLE NO. 61 (CONT.)

Sl NO	PEDIGREE	PLANT HEIGHT (cm)		EAR HEIGHT (cm)		EAR No./PLANT		STAND AT HARVEST					
		KARI	COIM	KARI	COIM	HYDE	KARI	COIM	HYDE	KARI	COIM		
1	B H - 200401	177	190	183	87	75	81	1.05	0.92	0.94	18	14	16
2	B H - 200402	175	172	174	89	85	87	1.02	0.82	0.94	19	15	16
3	B H - 200403	178	179	179	87	80	84	1.07	0.98	0.97	20	17	16
4	B H - 200404	153	172	163	87	57	72	1.05	1.05	0.98	22	23	16
5	B H - 200405	200	183	192	88	88	88	1.08	0.85	1.02	17	19	16
6	B H - 200406	173	171	172	91	77	84	1.11	1.02	0.94	18	20	14
7	B H - 200407	162	168	165	82	63	73	1.02	0.97	0.96	19	19	15
8	B H - 200408	175	175	175	79	77	78	1.02	0.98	0.95	19	17	14
9	B H - 200409	183	187	185	96	93	95	1.00	0.98	0.88	20	17	17
10	B H - 200410	178	179	179	86	85	86	1.00	0.88	1.03	21	16	16
11	B H - 200411	180	187	184	100	77	88	1.13	0.90	0.93	22	19	15
12	B H - 200412	190	169	180	81	82	81	1.02	1.01	0.92	19	18	16
13	B H - 200413	172	176	174	86	73	80	1.00	1.08	0.89	17	16	16
14	B H - 200414	187	188	187	95	85	90	1.00	0.98	0.98	17	20	17
15	B H - 200415	188	181	185	84	90	87	1.00	0.97	0.91	22	17	16
16	B H - 200416	180	174	177	90	89	89	1.00	1.00	1.02	18	15	14
17	B H - 200417	177	158	167	83	86	85	1.00	0.98	0.87	14	17	15
18	B H - 200418	182	176	179	87	85	86	1.10	0.88	0.92	13	14	16
19	B H - 200419	187	184	185	93	82	87	1.06	1.08	1.06	17	19	14
20	B H - 200420	183	180	182	87	80	84	1.06	0.88	0.99	21	18	17
21	B H - 200421	183	185	184	91	90	91	1.08	0.96	0.92	20	16	13
22	B H - 200422	167	170	169	91	72	81	1.05	0.93	0.98	19	21	15
23	B H - 200423	158	181	170	88	80	84	1.03	1.03	1.00	17	20	14
24	B H - 200424	168	162	165	82	76	79	1.00	0.79	0.96	21	19	15
25	B H - 200425	168	163	166	86	79	82	1.03	0.88	1.02	20	15	16
26	LAXMI-999	169	160	164	73	87	80	1.05	0.99	0.98	14	14	16
27	MAHARAJ 1104	175	176	175	81	82	81	1.05	0.94	0.96	13	13	15
28	S G M H - 1111	178	185	182	77	79	78	1.02	0.90	0.94	15	18	17
29	K M H - 22169	193	201	197	97	85	91	1.00	1.00	0.96	15	15	16
30	K M H - 22172	170	171	171	77	84	81	1.11	0.89	0.92	15	17	14
31	900 M	187	169	178	67	87	77	1.08	0.91	0.87	17	17	15
	MEAN LOCATION	177	176	177	86	81	83	-	-	-	18	17	15
	C.D. AT 5%	25.6	9.6	17.6	15.5	15.5	11.2	-	-	-	8.0	4.5	2.1
	C.V. %	8.9	3.3	-	11.8	4.9	-	-	-	-	21.8	16.5	8.2
	F (Prob)	.220	.000	-	.012	.000	-	-	-	-	.652	.010	.008

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 62

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT ARBHAVI, COIMBATORE IN TRIAL NO. TR401G DURING KHARIF (2004).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE						DAYS TO 50% POLLEN SHED					
		ARBH	R	COIM	R	ZN 4 MEAN	R	OV'L MEAN	R	ARBH	COIM	ZN 4 MEAN	
1	B H - 2004158	5206	25	9295	26	7251	26	7251	26	60.3	54.3	57.3	
2	B H - 2004159	6076	12	11337	12	8691	12	8691	12	60.0	52.7	56.3	
3	B H - 2004160	6829	3	12705	2	9767	2	9767	2	60.0	55.0	57.5	
4	B H - 2004161	4729	29	9804	20	7267	25	7267	25	61.0	55.3	58.2	
5	B H - 2004162	5124	26	12640	3	8882	7	8882	7	62.0	55.0	58.5	
6	B H - 2004163	5325	24	9459	24	7392	23	7392	23	61.3	53.7	57.5	
7	B H - 2004164	6378	8	10301	16	8340	15	8340	15	58.0	49.3	53.7	
8	B H - 2004165	5328	23	9634	22	7481	22	7481	22	58.0	49.3	53.7	
9	B H - 2004166	4774	27	9570	23	7172	27	7172	27	59.3	50.0	54.7	
10	B H - 2004167	4259	31	9155	27	6707	31	6707	31	60.7	51.7	56.2	
11	B H - 2004168	5379	20	9857	19	7618	21	7618	21	60.3	53.3	56.8	
12	B H - 2004169	5888	15	8705	29	7297	24	7297	24	58.0	50.3	54.2	
13	B H - 2004170	5992	13	11576	10	8784	8	8784	8	60.0	53.3	56.7	
14	B H - 2004171	5341	21	10606	14	7973	17	7973	17	61.3	51.7	56.5	
15	B H - 2004172	4530	30	9412	25	6971	28	6971	28	58.3	52.0	55.2	
16	B H - 2004173	6139	11	12325	6	9232	5	9232	5	60.3	54.3	57.3	
17	B H - 2004174	6629	6	10172	18	8401	14	8401	14	61.0	54.7	57.8	
18	B H - 2004175	5659	16	11757	7	8708	11	8708	11	63.0	55.3	59.2	
19	B H - 2004176	4768	28	8687	30	6727	30	6727	30	58.7	53.3	56.0	
20	B H - 2004177	6600	7	9740	21	8170	16	8170	16	61.0	52.0	56.5	

TABLE NO. 62 (CONT.)

SL NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				OV'L				DAYS TO 50% POLLEN SHED			ZN 4	
		ARBH	R	COIM	R	ZN 4 MEAN	R	MEAN	R	ARBH	COIM	MEAN	ZN 4 MEAN	ZN 4 MEAN
21	N M - 1122A	6209	9	11137	13	8673	13	8673	13	58.7	53.3	56.0		
22	V M H - 134	5477	18	10242	17	7859	19	7859	19	62.3	54.7	58.5		
23	M C I - 062	5898	14	11640	9	8769	9	8769	9	61.0	55.3	58.2		
24	P R O - 364	7446	1	11705	8	9575	4	9575	4	61.7	58.3	60.0		
25	Z M H - 1911	5557	17	12471	5	9014	6	9014	6	61.3	55.3	58.3		
26	M O I - 319	7432	2	14371	1	10902	1	10902	1	61.7	55.3	58.5		
27	M P Q - 13	5455	19	8178	31	6816	29	6816	29	58.7	53.7	56.2		
28	K M H - 22125	6659	4	9055	28	7857	20	7857	20	59.7	57.3	58.5		
29	MAHABEJ - 1102	5329	22	10471	15	7900	18	7900	18	57.7	50.3	54.0		
30	VAGRO-5	6140	10	11383	11	8761	10	8761	10	58.7	53.3	56.0		
31	900 M	6652	5	12529	4	9590	3	9590	3	61.0	54.0	57.5		
	MEAN YIELD=	5781		10642		8211		8211						
	MEAN STAND	21		28		25		25		60.2	53.5	56.8		
	C.D. AT 5%	1702		1552		1627		1627		2.0	1.0	1.5		
	C.V. %	18.03		8.93		-		-		2.0	1.2	-		
	F (Prob)	.013		.000		-		-		.000	.000	-		
	PLOT SIZE=	3.75		2.40		-		-						
AGRONOMY DATA:														
	SOWING DATE(2004)	5-07		30-06		-		-						
	HARVEST DATE(2004)	2-12		19-10		-		-						
	IRRIGATION NOS	8		9		-		-						
	FERTILIZER APPLIED N	150		135		-		-						
	P	75		63		-		-						
	K	38		50		-		-						

LOCATIONS REJECTED DUE TO HIGH C.V. (i.e. > 20%) : HYDE 20.7%

TABLE NO. 62 (CONT)

S1 NO PEDIGREE	DAYS TO 50% SILKING			50% DRY HUSK			PLANT ASPECT*			EAR ASPECT*		
	ARBH	COIM	ZN 4 MEAN	ARBH	COIM	ZN 4 MEAN	ARBH	COIM	ZN 4 MEAN	ARBH	COIM	ZN 4 MEAN
1 B H - 2004158	61.0	57.7	59.3	102.7	2.8	3.0	2.9	3.3	4.0	3.6		
2 B H - 2004159	61.7	56.0	58.8	101.0	2.3	3.0	2.6	3.0	2.0	2.5		
3 B H - 2004160	60.0	58.3	59.2	103.3	2.3	2.0	2.1	3.0	3.0	3.0		
4 B H - 2004161	61.7	58.3	60.0	104.3	2.8	3.0	2.9	3.0	3.0	3.0		
5 B H - 2004162	62.7	58.7	60.7	103.3	2.5	2.0	2.3	2.8	3.0	2.9		
6 B H - 2004163	63.3	57.3	60.3	102.3	2.5	3.0	2.8	3.3	3.0	3.1		
7 B H - 2004164	58.7	54.3	56.5	99.7	3.0	3.0	3.0	3.3	3.0	3.1		
8 B H - 2004165	58.0	52.7	55.3	96.7	2.8	3.0	2.9	3.0	3.0	3.0		
9 B H - 2004166	62.0	54.3	58.2	99.3	3.0	3.0	3.0	3.3	3.0	3.1		
10 B H - 2004167	61.3	54.7	58.0	99.7	2.8	2.0	2.4	3.0	3.0	3.0		
11 B H - 2004168	60.3	56.3	58.3	101.3	2.5	2.0	2.3	3.0	3.0	3.0		
12 B H - 2004169	58.7	53.7	56.2	97.7	2.5	2.0	2.3	3.3	3.0	3.1		
13 B H - 2004170	61.0	57.3	59.2	102.3	2.5	3.0	2.8	2.8	2.3	2.5		
14 B H - 2004171	62.3	55.3	58.8	100.3	2.5	2.0	2.3	3.3	3.0	3.1		
15 B H - 2004172	59.3	55.7	57.5	100.7	3.0	3.0	3.0	3.5	4.0	3.8		
16 B H - 2004173	61.0	57.3	59.2	102.3	2.5	2.0	2.3	3.3	2.0	2.6		
17 B H - 2004174	62.7	58.7	60.7	103.7	2.3	2.0	2.1	2.8	3.0	2.9		
18 B H - 2004175	63.0	58.7	60.8	103.7	2.8	2.0	2.4	3.0	3.0	3.0		
19 B H - 2004176	59.7	57.3	58.5	102.3	3.0	3.0	3.0	3.5	4.0	3.8		
20 B H - 2004177	61.7	55.3	58.5	100.3	2.5	3.0	2.8	2.8	3.0	2.9		
21 N M H - 1122A	60.0	57.3	58.7	102.3	2.3	2.0	2.1	2.8	3.0	2.9		
22 V M H - 134	64.0	58.7	61.3	103.7	2.0	2.0	2.0	3.0	2.0	2.5		
23 M O I - 062	64.0	59.3	61.7	104.3	2.0	2.0	2.0	2.5	2.0	2.3		
24 P R O - 364	62.3	62.0	62.2	106.7	2.0	3.0	2.5	2.5	2.0	2.3		
25 Z M H - 1911	61.7	59.3	60.5	104.3	2.3	3.0	2.6	2.8	2.0	2.4		
26 M O I - 319	64.0	59.7	61.8	104.7	2.0	2.0	2.0	2.5	2.0	2.3		
27 M P Q - 13	59.0	57.7	58.3	102.3	2.8	4.0	3.4	3.3	3.0	3.1		
28 K M H - 22125	61.0	61.3	61.2	106.3	2.3	3.0	2.6	3.3	3.0	3.1		
29 MAHABEEJ - 1102	58.3	54.3	56.3	99.3	2.5	2.0	2.3	3.3	3.0	3.1		
30 VAGRO-5	59.0	56.3	57.7	101.3	2.3	3.0	2.6	2.8	3.0	2.9		
31 900 M	61.7	59.0	60.3	104.0	2.0	2.0	2.0	2.5	2.0	2.3		
MEAN LOCATION	61.1	57.2	59.2	102.1	2.5	2.5	2.5	3.0	2.8	2.9		
C.D. AT 5% =	2.3	1.4	1.8	1.2	0.4	0.0	0.2	0.3	0.2	0.3		
C.V. % =	2.3	1.5	-	0.7	8.9	0.0	-	7.0	3.7	-		
F (Prob)	.000	.000	-	.000	.000	.000	-	.000	.000	-		

TABLE NO. 62 (CONT)

S1 NO	PEDIGREE	HUSK COVER *		UNIFORMITY *		PLANT HT. (cm) COIM		EAR HT. (cm) COIM		EAR NO. / PLANT COIM		STAND AT HARVEST		HARVEST ZN 4 MEAN	
		ARBH	COIM	ARBH	COIM	ARBH	COIM	ARBH	COIM	ARBH	COIM	ARBH	COIM	ARBH	COIM
1	BH - 2004158	2.3	3.0	2.6	3.0	2.3	3.0	136	63	0.94	22	27	25		
2	BH - 2004159	2.0	2.3	2.2	2.3	2.8	3.0	143	80	0.95	21	29	25		
3	BH - 2004160	2.8	3.0	2.9	3.0	2.5	3.0	175	73	0.94	23	30	26		
4	BH - 2004161	2.5	2.7	2.6	2.7	3.0	2.0	149	78	0.87	23	28	26		
5	BH - 2004162	2.5	3.0	2.8	3.0	2.8	3.0	156	73	0.85	23	29	26		
6	BH - 2004163	2.0	3.0	2.5	3.0	3.0	3.0	159	79	0.88	19	27	23		
7	BH - 2004164	2.3	3.0	2.6	3.0	2.0	3.0	153	76	0.82	23	28	26		
8	BH - 2004165	2.5	3.0	2.8	3.0	2.3	3.0	156	80	0.91	22	28	25		
9	BH - 2004166	2.8	3.3	3.0	3.3	2.0	4.0	175	84	0.90	21	27	24		
10	BH - 2004167	2.5	2.7	2.6	2.7	2.3	2.0	166	74	0.91	23	30	27		
11	BH - 2004168	2.5	3.0	2.8	3.0	3.0	3.0	169	75	0.91	22	28	25		
12	BH - 2004169	2.3	3.0	2.6	3.0	2.5	3.0	160	73	0.95	23	30	26		
13	BH - 2004170	2.3	2.3	2.3	2.3	3.0	3.0	165	75	0.99	19	28	23		
14	BH - 2004171	2.3	2.7	2.5	2.7	3.0	2.0	176	80	0.99	22	31	26		
15	BH - 2004172	2.5	3.3	2.9	3.3	3.0	3.7	153	78	0.95	21	28	25		
16	BH - 2004173	2.0	2.3	2.2	2.3	3.0	3.0	177	77	0.96	24	31	27		
17	BH - 2004174	2.3	3.0	2.6	3.0	3.0	3.0	182	91	0.94	20	26	23		
18	BH - 2004175	2.8	3.0	2.9	3.0	2.8	4.0	164	80	0.99	23	29	26		
19	BH - 2004176	2.3	3.0	2.6	3.0	3.0	4.0	151	74	0.95	21	28	25		
20	BH - 2004177	2.3	3.0	2.6	3.0	2.8	3.0	173	84	0.94	21	27	24		
21	NMH - 1122A	2.0	3.0	2.5	3.0	2.8	3.0	163	78	1.02	20	28	24		
22	VMH - 134	2.0	2.0	2.0	2.0	2.0	2.0	162	70	1.06	12	21	17		
23	M O I - 062	2.0	2.0	2.0	2.0	2.0	2.0	166	86	0.94	22	22	22		
24	P R O - 364	2.0	2.3	2.2	2.3	2.0	3.0	176	82	0.98	23	30	26		
25	Z M H - 1911	2.0	2.0	2.0	2.0	2.5	3.0	172	74	1.03	21	28	25		
26	M O I - 319	2.3	2.0	2.1	2.0	2.0	2.0	163	70	1.00	20	30	25		
27	M P Q - 13	2.3	3.0	2.6	3.0	2.5	4.0	152	64	1.06	17	27	22		
28	K M H - 22125	2.3	3.0	2.6	3.0	2.8	3.0	162	71	0.99	24	25	25		
29	MAHABEJ - 1102	2.3	3.0	2.6	3.0	2.0	3.0	164	74	1.02	23	28	26		
30	VAGRO-5	2.0	3.0	2.5	3.0	2.0	3.0	161	69	1.00	23	25	24		
31	900 M	2.0	2.7	2.0	2.7	2.5	2.0	175	84	0.99	20	29	25		
	MEAN LOCATION	2.3	2.7	2.5	2.7	2.5	2.9	163	76	-	21	28	25		
	C.D. AT 5%	0.3	0.5	0.4	0.5	0.4	0.2	10.7	6.2	-	4.0	3.2	3.6		
	C.V. %	8.4	11.5	-	11.5	-	3.5	4.0	4.9	-	11.6	7.0	-		
	F (Prob)	.000	.000	-	.000	-	.000	.000	.000	-	.000	.000	-		

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 63

PERFORMANCE OF EXPERIMENTAL HYBRIDS AT HYDERABAD, KOLHAPUR IN TRIAL NO. TR401H DURING KHARIF (2004).

SI	NO PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			
		HYDE	R	MEAN	HYDE	KOLH	R	HYDE	KOLH	MEAN	
1	B H - 2004178	2157	31	3877	26	53.5	60.0	56.8	55.5	62.0	58.8
2	B H - 2004179	3760	17	4319	22	54.5	60.3	57.4	56.5	62.3	59.4
3	B H - 2004180	3919	16	5413	4	52.5	60.3	56.4	54.5	62.3	58.4
4	B H - 2004181	5460	2	5616	2	54.5	60.0	57.3	56.5	62.0	59.3
5	B H - 2004182	3630	21	4420	21	56.0	61.0	58.5	58.0	63.0	60.5
6	B H - 2004183	3926	15	4644	17	53.5	60.3	56.9	55.5	62.3	58.9
7	B H - 2004184	3270	25	3867	27	54.0	59.0	56.5	56.0	60.7	58.3
8	B H - 2004185	3679	20	5345	5	54.5	56.3	55.4	56.5	57.7	57.1
9	B H - 2004186	4277	7	4871	15	53.0	58.0	55.5	55.5	60.0	57.8
10	B H - 2004187	4252	10	5006	12	55.5	59.0	57.3	57.5	60.7	59.1
11	B H - 2004188	4480	5	5037	11	55.0	60.3	57.7	57.0	61.7	59.3
12	B H - 2004189	3282	24	3588	30	52.0	61.0	56.5	54.0	62.7	58.3
13	B H - 2004190	3759	18	4090	24	54.5	59.3	56.9	56.5	61.3	58.9
14	B H - 2004191	3500	22	4463	20	56.5	60.3	58.4	58.5	62.3	60.4
15	B H - 2004192	4124	13	4917	14	55.5	56.7	56.1	57.5	58.7	58.1
16	B H - 2004193	4327	6	5072	9	57.5	57.3	57.4	59.5	59.0	59.3
17	B H - 2004194	4577	4	5137	8	58.0	59.0	58.5	59.5	60.7	60.1
18	B H - 2004195	3105	26	3246	31	55.0	58.3	56.7	56.5	60.3	58.4
19	B H - 2004196	3997	14	4506	19	54.5	58.0	56.3	56.5	59.7	58.1
20	B H - 2004197	3075	27	3959	25	57.0	60.3	58.7	59.0	62.0	60.5
21	B H - 2004198	4252	9	5054	10	54.0	59.7	56.8	56.0	61.3	58.7
22	B H - 2004199	4184	12	5169	7	57.5	60.0	58.8	59.5	61.7	60.6
23	B H - 2004200	5962	1	6932	1	53.5	58.7	56.1	55.5	60.7	58.1

TABLE NO. 63 (CONT.)

SI NO	PEDIGREE	DAYS TO 50% DRY HUSK			PLANT ASPECT			EAR ASPECT			HUSK COVER		
		HYDE	KOLH	ZN 4 MEAN	HYDE	KOLH	ZN 4 MEAN	HYDE	KOLH	ZN 4 MEAN	HYDE	KOLH	ZN 4 MEAN
1	B H - 2004178	98.0	95.7	96.8	3.5	2.2	2.8	2.8	1.8	2.3	2.8	1.5	2.1
2	B H - 2004179	96.5	95.3	95.9	3.0	1.8	2.4	2.8	1.8	2.3	3.0	1.8	2.4
3	B H - 2004180	93.0	96.0	94.5	3.0	1.7	2.3	3.0	1.8	2.4	2.8	1.7	2.2
4	B H - 2004181	96.0	94.7	95.3	2.8	2.2	2.5	2.8	1.5	2.1	2.8	1.8	2.2
5	B H - 2004182	98.5	96.0	97.3	3.0	2.0	2.4	2.8	1.8	2.3	2.5	1.8	2.3
6	B H - 2004183	95.5	96.0	95.8	3.5	1.8	2.4	2.8	2.2	2.6	2.5	1.8	2.2
7	B H - 2004184	99.5	93.3	96.4	3.0	1.8	2.4	3.0	1.8	2.3	2.5	2.2	2.3
8	B H - 2004185	99.0	91.3	95.2	3.0	1.8	2.4	2.8	1.7	2.3	2.8	1.5	2.1
9	B H - 2004186	97.5	92.7	95.1	3.0	1.8	2.4	2.8	1.7	2.2	2.8	1.5	2.1
10	B H - 2004187	97.0	93.7	95.3	3.0	2.0	2.5	2.8	1.7	2.2	2.8	2.2	2.5
11	B H - 2004188	96.0	94.3	95.2	3.3	2.0	2.6	2.8	1.7	2.2	2.8	2.2	2.5
12	B H - 2004189	99.0	95.3	97.2	3.0	1.5	2.3	3.0	2.3	2.7	2.8	1.7	2.2
13	B H - 2004190	96.5	94.3	95.4	3.0	1.7	2.3	3.0	2.3	2.7	2.5	2.0	2.3
14	B H - 2004191	95.0	95.3	95.2	3.0	1.7	2.3	3.0	1.7	2.3	2.8	1.7	2.2
15	B H - 2004192	97.0	92.3	94.7	3.0	1.7	2.3	3.0	1.5	2.3	2.8	1.8	2.3
16	B H - 2004193	97.0	92.3	94.7	2.8	1.5	2.1	2.8	2.0	2.4	2.5	2.2	2.3
17	B H - 2004194	94.0	94.3	94.2	3.0	1.7	2.3	3.0	1.7	2.3	2.8	1.5	2.1
18	B H - 2004195	94.5	94.3	94.4	3.5	1.7	2.3	3.0	2.0	2.6	2.8	1.7	2.2
19	B H - 2004196	96.5	93.3	94.9	3.0	1.8	2.4	3.0	1.7	2.3	3.0	2.0	2.5
20	B H - 2004197	96.0	93.7	94.8	3.0	1.7	2.3	3.0	2.0	2.5	3.0	1.8	2.4
21	B H - 2004198	95.5	94.0	94.8	3.0	1.7	2.3	3.0	2.0	2.5	2.8	1.8	2.3
22	B H - 2004199	95.5	94.0	94.8	3.0	1.8	2.4	2.8	1.5	2.4	3.0	1.8	2.4
23	B H - 2004200	97.0	94.0	94.8	2.8	1.8	2.3	2.8	1.7	2.2	2.8	1.7	2.2
24	B H - 2004201	93.0	94.0	93.5	3.0	1.8	2.4	3.0	1.8	2.4	2.8	2.0	2.4
25	B H - 2004202	95.0	95.0	95.0	3.0	1.8	2.4	3.0	2.2	2.6	2.8	1.7	2.2
26	B H - 2004203	95.0	96.0	95.5	3.0	1.7	2.3	3.0	1.8	2.4	2.8	1.7	2.2
27	B H - 2004204	96.0	94.7	95.3	3.5	2.0	2.8	3.3	2.3	2.8	2.8	2.0	2.4
28	B H - 2004205	94.0	93.7	93.8	3.3	1.8	2.5	3.3	2.0	2.6	3.0	2.0	2.5
29	B H - 2004206	97.0	95.3	96.2	3.5	1.7	2.6	3.0	2.0	2.5	2.8	2.0	2.4
30	B H - 2004207	95.0	95.0	95.0	2.8	2.0	2.4	3.0	1.8	2.4	2.8	1.7	2.2
31	900 M	92.5	94.7	93.6	3.3	1.8	2.4	3.0	1.8	2.4	2.8	2.0	2.4
	MEAN LOCATION	96.0	94.3	95.2	3.1	1.8	2.4	2.9	1.8	2.4	2.8	1.8	2.3
	C.D. AT 5% =	3.8	2.0	2.9	0.3	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.5
	C.V. % =	1.9	1.3	2.9	5.4	17.0	0.4	6.8	14.7	0.4	9.7	16.6	0.5
	F (Prob)	.055	.001	-	.000	.475	-	.240	.010	-	.926	.228	-

TABLE NO. 63 (CONT.)

SL NO	PEDIGREE	UNIFORMITY *		ZIN 4 MEAN	PLANT HT. (cm)		EAR HT. (cm)		EAR NO. / PLANT		H. TURC. *		STAND AT HARVEST	
		HYDE	KOLH		KOLH	KOLH	HYDE	KOLH	HYDE	KOLH	HYDE	KOLH	HYDE	KOLH
1	BH	3.0	1.8	2.4	163	70	1.00	1.05	2.3	12	16			
2	BH	3.0	1.8	2.4	188	78	1.00	1.07	1.8	16	23			
3	BH	3.0	2.2	2.6	193	90	1.00	1.06	1.8	18	20			
4	BH	3.0	2.0	2.5	193	95	1.03	0.97	1.7	17	22			
5	BH	3.0	1.8	2.4	172	80	1.00	1.02	1.8	16	23			
6	BH	3.0	2.2	2.6	187	100	1.00	0.97	2.3	18	21			
7	BH	3.0	1.8	2.4	152	70	1.03	1.06	1.8	11	22			
8	BH	3.0	2.2	2.6	173	73	1.00	1.14	1.7	20	22			
9	BH	3.0	2.0	2.5	172	78	1.00	1.04	1.8	16	20			
10	BH	3.0	2.0	2.5	182	87	1.04	0.95	1.5	17	23			
11	BH	3.0	2.0	2.5	167	82	1.03	1.03	1.8	15	22			
12	BH	3.0	2.0	2.5	177	90	1.03	1.10	1.8	15	23			
13	BH	3.0	2.0	2.5	177	80	1.00	1.02	1.5	12	22			
14	BH	3.0	2.0	2.5	168	83	1.00	1.17	1.8	15	21			
15	BH	3.0	2.0	2.5	175	87	1.00	1.09	1.7	13	22			
16	BH	3.0	2.0	2.5	170	73	1.00	1.03	1.8	16	23			
17	BH	3.0	2.0	2.5	168	82	1.00	1.05	1.8	16	21			
18	BH	3.0	1.8	2.4	172	77	1.00	0.94	2.2	12	24			
19	BH	3.0	2.2	2.6	163	85	1.08	0.97	2.0	14	22			
20	BH	3.0	1.7	2.3	172	85	1.05	1.09	2.3	20	22			
21	BH	3.0	2.2	2.6	175	77	1.00	1.24	1.5	17	20			
22	BH	3.0	2.3	2.7	165	78	1.00	0.86	2.0	14	23			
23	BH	2.8	2.0	2.4	193	85	1.00	1.04	1.8	17	21			
24	BH	2.8	2.0	2.4	160	72	1.00	1.06	1.5	18	21			
25	BH	3.0	2.2	2.6	185	78	1.04	1.14	2.2	13	22			
26	BH	3.0	2.0	2.5	162	72	1.03	1.20	1.7	12	22			
27	BH	3.0	2.0	2.5	172	95	1.03	0.99	2.2	16	22			
28	BH	3.0	2.0	2.5	168	80	1.00	1.07	1.8	16	20			
29	BH	3.0	1.8	2.4	167	78	1.00	0.94	1.8	17	24			
30	BH	3.0	1.8	2.4	173	77	1.08	0.94	1.8	14	23			
31	900 M	3.0	2.0	2.5	173	81	-	-	1.9	15	22			
	MEAN LOCATION	0.2	0.7	0.4	25.5	15.7	-	-	0.5	6.1	4.7			
	C.D. AT 5%	3.0	20.9	-	9.0	11.8	-	-	17.6	19.6	13.1			
	C.V. %	500	999	-	173	826	-	-	0.74	313	665			
	F (Prob)													

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 64
 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, CHHINDIWARA IN ZONAL TRIAL NO. TR502 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE KH- 510			
		UDAI	R	CHHI	R	UDAI	R	CHHI	ZN 5 MEAN
1	NH M - 1089	5879	8	7930	9	6905	6	27.40	8.84
2	NH M H - 1087	5196	13	7099	12	6147	12	14.04	6.79
3	SM H - 108	5244	12	8306	5	6775	4	33.44	19.54
4	SM I - 319	5972	16	9196	2	7584	3	47.74	20.05
5	MO I - 062	4798	10	10433	27	7616	2	67.61	25.00
6	MO I - 9832	3751	22	3771	2	3730	2	58.59	-
7	IC H - 1614	5989	6	9848	4	7930	2	-	-
8	ZM C - 3145	5054	15	5348	23	5201	1	-	-
9	EE H - 3146	4551	12	5388	7	4970	1	32.79	-
10	EW H - 3	3133	22	8268	3	5599	1	9.86	-
11	WH H - 239	4227	20	6838	1	5525	1	-	-
12	WH H - 1751	6073	4	5366	1	5722	1	-	-
13	WH H - 1752	5124	9	4143	2	5020	1	-	-
14	EE H - 1753	5124	3	6025	1	6072	1	-	-
15	EE H - 1754	5162	5	6035	1	5834	1	5.96	-
16	CH H - 225	3433	2	5688	1	5010	1	-	-
17	CH H - 226	4609	17	7341	1	4597	1	17.93	-
18	CH H - 227	3069	2	5669	1	4366	1	60.63	26.19
19	CH H - 228	3069	17	5669	1	4366	1	71.65	12.05
20	CH H - 1911	3533	23	10685	1	7108	1	24.09	4.16
21	SM H - 107	5492	11	7729	15	6573	9	2.49	3.61
22	SM H - 1120	5492	11	7729	15	6573	9	4.69	-
23	SM H - 1277	6766	1	6379	15	6573	9	-	-
24	CH H - 510	6464	2	6225	16	6344	11	-	-
25	MAHI KANCHAN	3063	28	3547	28	3305	18	-	-
26	BIO- 9681	4189	14	7940	8	6565	20	27.57	3.48
27	NAVJOT	4546	19	5642	22	5094	10	-	-
28	MEAN YIELD=	4904		6897		5900		-	-
	MEAN STAND	333		37		35		-	-
	C.D. AT 5% =	683		1385		1034		-	-
	C.V. % =	9.90		14.28		-		-	-
	F. (prob)	6.00		5.60		-		-	-
	PLOT SIZE=							-	-
	AGRONOMY DATA:							-	-
	SOWING DATE (2004)	1-07		30-06				-	-
	HARVEST DATE (2004)	10-10		28-10				-	-
	IRRIGATION NOS							-	-
	FERTILIZER APPLIED	N 100		100				-	-
		P 60		60				-	-
		K -		40				-	-

TABLE NO. 64 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD & SUPERIORITY OVER THE MAHI KANCHAN			THE BIO- 9681			THE NAVJOT		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	N H M - 1089	91.96	123.58	108.93	13.30	-	5.18	29.33	40.56	35.55
2	N M H - 1087	69.66	100.13	86.01	0.14	-	-	14.31	25.82	20.68
3	S G M H - 108	71.23	134.17	105.00	1.06	4.60	3.20	15.36	47.21	33.00
4	M O I - 319	94.99	159.27	129.48	15.09	15.81	15.53	31.37	63.00	48.89
5	M O I - 062	56.68	194.14	130.45	-	31.39	16.01	5.56	84.92	49.51
6	IC - 9832	22.47	4.69	12.93	-	-	-	-	-	-
7	Z M H - 1614	95.54	178.31	139.95	15.41	24.32	20.80	31.74	74.96	55.68
8	E C - 3145	65.04	50.78	57.39	-	-	-	11.19	-	2.11
9	E C - 3146	48.61	51.91	50.38	-	-	-	0.12	-	-
10	W H - 3	2.30	133.04	72.46	-	4.10	-	-	46.51	11.89
11	W H - 4	37.57	92.79	67.20	-	-	-	-	21.20	8.48
12	W C - 239	41.27	61.35	52.04	-	-	-	-	1.43	-
13	E H - 1751	98.30	51.30	73.08	17.04	-	-	33.61	-	12.29
14	E H - 1752	88.98	16.81	50.26	11.54	-	-	27.33	-	-
15	E H - 1753	99.97	69.73	83.75	18.03	-	-	34.73	6.71	19.21
16	E H - 1754	83.95	70.15	76.55	8.57	-	-	23.94	6.97	14.54
17	CHH - 225	11.84	85.95	51.61	-	-	-	-	16.90	-
18	CHH - 226	12.09	60.36	37.99	-	-	-	-	0.81	-
19	CHH - 227	50.27	106.96	80.69	-	-	-	1.25	30.11	17.23
20	CHH - 228	0.21	59.61	32.09	-	-	-	-	0.34	-
21	Z M H - 1911	96.34	181.90	142.25	15.88	25.92	21.95	32.28	77.22	57.17
22	S G M H - 107	15.36	201.23	115.11	-	34.56	8.29	-	89.38	39.56
23	N M H - 1120	79.33	117.77	99.96	5.84	-	0.66	20.82	36.90	29.73
24	N M H - 1277	120.94	79.86	98.89	30.40	-	0.13	48.86	13.07	29.04
CHECKS:										
25	KH- 510	111.05	75.49	91.97	24.57	-	-	42.19	10.33	24.55
26	MAHI KANCHAN	-	-	-	-	-	-	-	-	-
27	BIO- 9681	69.43	123.87	98.64	-	-	-	14.15	40.74	28.88
28	NAVJOT	48.42	59.07	54.13	-	-	-	-	-	-

TABLE NO. 64 (CONT.)

Sl NO	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	N H M - 1089	52.5	56.5	54.5	54.0	57.5	55.8	84.3	93.8	89.0	14.6	18.1	16.4
2	N M H - 1087	55.8	59.3	57.5	58.0	60.8	59.4	84.8	93.0	88.9	15.5	20.5	18.0
3	S G M H - 108	51.3	56.0	53.6	53.3	56.8	55.0	83.5	90.5	87.0	15.4	16.7	16.0
4	M O I - 319	55.3	58.5	56.9	57.8	61.0	59.4	84.5	96.0	90.3	15.0	20.5	17.7
5	M O I - 062	54.5	58.8	56.6	58.0	61.3	59.6	83.8	95.0	89.4	14.6	17.8	16.2
6	IC - 9832	48.8	53.8	51.3	50.8	55.5	53.1	79.8	81.8	80.8	14.7	16.6	15.7
7	Z M H - 1614	53.3	57.3	55.3	56.0	58.0	57.0	85.3	94.3	89.8	14.7	15.9	15.3
8	E C - 3145	50.0	55.0	52.5	51.5	56.0	53.8	81.3	87.0	84.1	15.4	16.5	15.9
9	E C - 3146	50.5	55.3	52.9	54.3	58.0	56.1	82.0	90.3	86.1	14.5	15.8	15.2
10	W H - 3	55.3	59.5	57.4	58.5	61.5	60.0	80.8	93.0	86.9	14.5	20.1	17.3
11	W H - 4	50.5	55.3	52.9	52.5	56.8	54.6	80.0	87.0	83.5	14.3	17.0	15.7
12	W C - 239	50.7	55.0	52.8	54.3	57.7	56.0	81.7	89.3	85.5	14.8	16.5	15.6
13	E H - 1751	50.3	53.8	52.0	51.0	54.3	52.6	80.5	86.8	83.6	14.5	16.7	15.6
14	E H - 1752	52.0	54.3	53.2	54.7	57.0	55.8	82.0	88.3	85.2	14.9	17.9	16.4
15	E H - 1753	50.5	55.3	52.9	52.8	56.5	54.6	82.5	92.0	87.3	15.0	20.1	17.6
16	E H - 1754	50.0	54.7	52.3	53.7	57.0	55.3	82.0	89.0	85.5	14.9	17.5	16.2
17	CHH - 225	51.3	57.0	54.1	54.3	58.0	56.1	81.5	90.3	85.9	14.6	17.7	16.1
18	CHH - 226	51.3	55.5	53.4	55.5	58.3	56.9	81.3	91.0	86.1	15.1	17.1	16.1
19	CHH - 227	52.5	57.5	55.0	56.3	58.8	57.5	82.5	91.0	86.8	14.9	19.3	17.1
20	CHH - 228	50.3	54.0	52.2	52.0	55.0	53.5	75.7	88.0	81.8	14.5	16.2	15.4
21	Z M H - 1911	53.8	58.5	56.1	57.0	61.0	59.0	84.0	95.3	89.6	14.7	19.8	17.2
22	S G M H - 107	55.8	58.3	57.0	57.3	60.0	58.6	82.8	96.0	89.4	15.2	20.4	17.8
23	N M H - 1120	53.3	57.5	55.4	56.5	58.3	57.4	85.0	95.5	90.3	15.2	19.3	17.3
24	N M H - 1277	55.5	59.3	57.4	57.8	61.0	59.4	84.5	94.0	89.3	15.1	18.0	16.5
CHECKS:													
25	KH - 510	51.8	55.5	53.6	54.3	56.8	55.5	84.5	88.8	86.6	14.7	19.3	17.0
26	MAHI KANCHAN	50.3	53.8	52.0	51.0	55.3	53.1	76.5	83.8	80.1	14.5	17.3	15.9
27	BIO - 9681	51.8	55.3	53.5	54.3	56.5	55.4	84.0	90.0	87.0	15.0	16.5	15.7
28	NAVJOT	51.3	56.0	53.6	55.0	58.3	56.6	82.5	91.3	86.9	15.1	17.7	16.4
MEAN LOCATION													
C.D. AT 5% =		1.0	1.6	1.3	1.1	1.5	1.3	1.3	1.9	1.6	0.2	0.9	0.5
C.V. % =		1.3	2.1	-	1.4	1.9	-	1.1	1.5	-	0.9	3.6	-
F (Prob)		.000	.000	-	.000	.000	-	.000	.000	-	.000	.000	-

TABLE NO. 64 (CONT.)

SL NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	N H M - 1089	2.5	1.3	1.9	2.2	1.3	1.7	2.5	1.5	2.0	2.5	1.5	2.0
2	N M H - 1087	2.5	1.0	1.8	2.2	1.3	1.7	2.5	1.0	1.7	2.5	1.0	1.8
3	S G M H - 108	2.5	1.3	1.9	2.2	1.3	1.7	2.5	1.5	2.0	2.6	1.3	1.9
4	M O I - 319	2.4	1.0	1.7	1.8	1.3	1.5	2.4	1.5	2.0	2.4	1.0	1.7
5	M O I - 062	2.4	1.0	1.7	2.3	1.0	1.6	2.4	1.5	2.0	2.6	1.0	1.8
6	IC - 9832	2.6	2.0	2.3	2.7	2.0	2.3	2.5	1.8	2.1	2.6	2.0	2.3
7	Z M H - 1614	2.7	1.0	1.8	1.8	1.0	1.4	2.5	1.0	1.7	2.5	1.0	1.8
8	E C - 3145	2.4	1.8	2.1	2.4	1.8	2.1	2.5	1.8	2.1	2.5	1.5	2.0
9	E C - 3146	2.5	1.5	2.0	2.5	1.8	2.1	2.5	1.5	2.0	2.7	1.8	2.2
10	W H - 3	2.5	1.3	1.9	2.5	1.5	2.0	2.5	1.5	2.0	2.7	1.3	2.0
11	W H - 4	2.5	1.0	1.8	2.5	1.5	2.0	2.5	1.8	2.2	2.6	1.5	2.0
12	W C - 239	2.4	1.0	1.7	2.3	1.0	1.6	2.5	1.3	1.9	2.6	1.3	1.9
13	E H - 1751	2.4	1.8	2.1	2.1	1.8	1.9	2.4	1.5	2.0	2.5	1.3	1.9
14	E H - 1752	2.4	1.5	1.9	2.1	2.0	2.0	2.5	1.5	2.0	2.5	1.8	2.1
15	E H - 1753	2.4	1.5	2.0	2.0	1.5	1.8	2.5	1.5	2.0	2.5	1.3	1.9
16	E H - 1754	2.5	1.3	1.9	2.2	2.0	2.1	2.5	1.8	2.1	2.6	1.3	1.9
17	CHH - 225	2.4	1.3	1.8	2.5	1.0	1.8	2.5	1.5	2.0	2.5	1.3	1.9
18	CHH - 226	2.6	1.5	2.0	2.7	1.8	2.2	2.5	1.8	2.1	2.7	1.8	2.2
19	CHH - 227	2.6	1.3	1.9	2.5	1.8	2.1	2.5	1.5	2.0	2.6	1.3	1.9
20	CHH - 228	2.6	1.3	1.9	2.9	1.8	2.3	2.6	1.5	2.0	2.7	1.8	2.2
21	Z M H - 1911	2.6	1.0	1.8	2.0	1.0	1.5	2.5	1.0	1.7	2.6	1.0	1.8
22	S G M H - 107	2.5	1.0	1.8	2.3	1.0	1.6	2.5	1.3	1.9	2.5	1.0	1.8
23	N M H - 1120	2.5	1.0	1.7	2.2	1.3	1.7	2.5	1.0	1.7	2.5	1.0	1.8
24	N M H - 1277	2.4	1.0	1.7	1.9	1.3	1.6	2.5	1.0	1.7	2.5	1.0	1.7
CHECKS:													
25	KH - 510	2.5	1.3	1.9	1.8	1.5	1.7	2.5	1.3	1.9	2.5	1.5	2.0
26	MAHI KANCHAN	2.7	2.0	2.4	2.7	2.5	2.6	2.6	1.5	2.1	2.5	1.3	1.9
27	BIO - 9681	2.5	1.3	1.9	2.0	1.3	1.6	2.5	1.5	2.0	2.6	1.8	2.2
28	NAVJOT	2.4	1.3	1.8	2.3	1.5	1.9	2.5	1.8	2.1	2.6	1.8	2.2
MEAN LOCATION													
C.D. AT 5%		0.1	0.2	0.2	0.3	0.3	0.3	0.1	0.2	0.2	0.1	0.2	0.2
C.V. %		4.1	11.7	-	10.5	13.3	-	3.8	11.6	-	3.9	12.0	-
F (Prob)		.000	.000	-	.000	.000	-	.268	.000	-	.028	.000	-

TABLE NO. 64 (CONT.)

S1 NO	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR NO./PLANT			STAND AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	OV'L MEAN	UDAI	CHHI	OV'L MEAN
1	N H M - 1089	248	179	213	103	89	96	0.93	0.96	0.94	29	36	33
2	N M H - 1087	234	178	206	105	98	101	0.86	0.98	0.92	33	41	37
3	S G M H - 108	234	198	216	78	81	79	0.95	0.94	0.94	37	38	37
4	M O I - 319	254	183	218	103	98	100	0.83	0.97	0.90	36	33	35
5	M O I - 062	259	206	233	118	99	108	0.97	0.93	0.95	25	25	25
6	I C - 9832	245	171	208	105	90	98	0.95	0.95	0.95	33	44	38
7	Z M H - 1614	258	178	218	113	95	104	0.90	0.97	0.94	38	40	39
8	E C - 3145	270	180	225	105	98	101	0.91	0.89	0.90	34	36	35
9	E C - 3146	241	184	213	109	94	101	0.96	0.98	0.97	37	35	36
10	W H - 3	255	189	222	113	98	105	0.93	1.02	0.97	34	37	35
11	W H - 4	246	189	218	113	88	100	0.89	1.01	0.95	34	42	38
12	W C - 239	260	185	223	117	87	102	0.90	0.91	0.91	38	40	39
13	E H - 1751	241	186	214	105	91	98	0.92	0.97	0.94	43	39	41
14	E H - 1752	243	192	218	105	98	102	0.91	0.97	0.94	41	42	42
15	E H - 1753	254	190	222	96	93	94	0.93	0.97	0.95	40	32	36
16	E H - 1754	262	183	223	110	98	104	0.89	0.96	0.93	36	36	36
17	CHH - 225	270	191	231	118	103	110	0.92	0.99	0.96	36	35	36
18	CHH - 226	238	184	211	113	96	104	0.92	0.97	0.94	34	36	35
19	CHH - 227	259	199	229	113	95	104	0.91	0.96	0.93	36	37	36
20	CHH - 228	252	192	222	97	85	91	0.92	0.97	0.94	27	34	31
21	Z M H - 1911	236	179	208	98	95	96	0.90	0.96	0.93	30	41	36
22	S G M H - 107	248	194	221	118	103	110	0.91	0.98	0.95	28	32	30
23	N M H - 1120	260	185	223	95	79	87	0.90	1.00	0.95	25	34	29
24	N M H - 1277	265	198	231	125	103	114	0.99	0.91	0.95	37	40	38
CHECKS:													
25	KH- 510	246	174	210	98	85	91	0.92	0.94	0.93	25	35	30
26	MAHI KANCHAN	239	178	208	90	90	90	0.90	0.98	0.94	31	39	35
27	BIO- 9681	250	188	219	98	81	89	0.89	0.96	0.93	26	39	33
28	NAVJOT	286	189	238	118	101	109	0.90	1.00	0.95	35	32	33
MEAN LOCATION													
C.D. AT 5%		13.4	14.4	13.9	7.1	11.5	9.3	-	-	-	4.8	6.5	-
C.V. %		3.8	5.5	-	4.8	8.8	-	-	-	-	10.1	12.6	-
F (Prob)		.000	.001	-	.000	.000	-	-	-	-	.000	.000	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 65
 PERFORMANCE OF EXPERIMENTAL HYBRIDS & COMPOSITES AT UDAIPUR, CHHINDIWARA IN
 ZONAL TRIAL NO. TR503 DURING KHARIF (2004).

Sl NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE			GRAIN YIELD & SUPERIORITY OVER THE PEHM-2			ZN 5 MEAN
		UDAI	R	CHHI	UDAI	CHHI	ZN 5 MEAN	
1	C - 9407	2785	22	3803	23	3294	22	-
2	C - 9401	2596	23	3911	20	3254	23	-
3	C - 9005	3247	17	3894	21	3570	20	-
4	C - 9828	3076	18	5581	13	4329	17	-
5	M H - 109	5811	2	7098	15	6455	4	20.22
6	M H - 1410	5593	3	8922	16	7257	1	35.18
7	C - 3147	4011	11	5313	16	4562	14	-
8	C - 3148	3964	13	4801	19	4383	16	-
9	C - 1763	5571	4	7558	4	6564	3	22.27
10	E H - 1	4376	9	6800	8	5585	8	4.02
11	E H - 2	3588	8	8068	2	6222	5	15.89
12	W H - 238	5916	16	6571	10	5080	11	27.76
13	E H - 1755	5103	5	7803	3	6859	6	13.58
14	E H - 1756	4241	10	5567	14	4904	13	-
15	E H - 1757	3967	12	6710	9	5338	10	5.97
16	CHH - 221	3800	15	6339	11	5070	12	0.12
17	CHH - 222	2926	20	5279	17	4103	18	-
18	CHH - 223	4474	6	7041	7	5757	7	11.20
19	CHH - 224	4406	7	6331	12	5369	9	-
20	PEHM-2	3832	14	5321	15	4577	15	-
21	NARMADA MOTI	2981	19	3843	22	3412	21	-
22	HIM-129	2838	21	5056	18	3947	19	-
23	MAHI KANCHAN	4064	21	6030	18	5047	19	-
	MEAN YIELD-	34		699		36		
	MEAN STAND	635		699		667		
	C.D. AT 5%	11.08		8.22		-		
	C.V. %	6.00		5.00		-		
	F (Prob)	6.00		5.60		-		
	PLOT SIZE-							
	AGRONOMY DATA:							
	SOWING DATE (2004)	1-07		30-06				
	HARVEST DATE (2004)	4-10		28-10				
	IRRIGATION NOS	-		-				
	FERTILIZER APPLIED	90		100				
	N	60		60				
	P	-		40				
	K	-		-				

TABLE NO. 65 (CONT.)

Sl No	PEDIGREE	GRAIN YIELD %			SUPERIORITY			THE MAHI KANCHAN		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	I C - 9407	-	-	-	-	-	-	-	-	-
2	I C - 9401	-	-	-	-	-	-	-	-	-
3	I C - 9005	-	-	-	8.93	1.77	4.65	14.43	-	-
4	I C - 9828	-	4.89	-	3.19	1.33	26.87	8.40	-	-
5	S G M H - 109	51.64	33.39	41.03	94.95	84.71	89.18	104.80	10.39	9.68
6	Z M H - 1410	45.95	67.66	58.57	87.64	132.17	112.72	97.11	40.39	63.55
7	E C - 3147	4.65	-	1.86	34.55	38.26	36.64	41.34	76.47	83.89
8	E C - 3148	3.44	-	-	32.99	24.95	28.46	39.70	5.09	18.12
9	E H - 1763	45.36	42.04	43.43	86.88	96.69	92.41	96.32	-	11.05
10	W H - 1	14.02	27.78	22.02	46.59	76.95	63.69	53.99	49.50	66.33
11	W H - 2	14.18	51.61	35.94	46.80	109.94	82.36	54.21	34.49	41.50
12	W C - 238	-	23.49	10.99	20.38	71.00	48.89	26.46	59.57	57.65
13	E H - 1755	54.37	46.64	49.88	98.47	103.05	101.05	108.49	29.97	28.71
14	E H - 1756	33.16	33.29	33.24	71.20	84.57	78.73	79.85	54.34	73.80
15	E H - 1757	10.66	4.62	7.15	42.27	44.87	43.73	49.45	40.29	54.51
16	CHH - 221	3.52	26.10	16.64	33.09	74.61	56.47	39.81	10.11	24.25
17	CHH - 222	-	19.13	10.77	27.48	64.96	48.59	33.92	32.72	35.27
18	CHH - 223	-	-	-	-	37.38	20.25	3.13	25.38	28.45
19	CHH - 224	16.74	32.32	25.80	50.09	83.22	68.75	57.67	4.42	3.96
CHECKS:										
20	PEHM-2	14.98	18.99	17.31	47.82	64.77	57.36	55.28	25.24	36.04
21	NARMADA MOTI	-	-	-	28.56	38.47	34.14	35.06	5.25	15.97
22	HIM-129	-	-	-	-	-	-	5.05	-	-
23	MAHI KANCHAN	-	-	-	-	31.56	15.68	-	-	-

TABLE NO. 65 (CONT.)

Sl No	PEDIGREE	DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING			DAYS TO 50% DRY HUSK			MOISTURE % AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	I C - 9407	44.8	52.5	48.6	48.8	52.8	50.8	81.5	77.8	79.6	16.4	12.4	14.4
2	I C - 9401	47.0	55.0	51.0	50.3	56.3	53.3	82.8	81.0	81.9	18.1	11.9	15.0
3	I C - 9005	45.5	53.5	49.5	41.3	55.3	48.3	79.0	79.8	79.4	17.6	13.3	15.4
4	I C - 9828	49.3	53.3	51.3	51.8	54.3	53.0	83.8	79.5	81.6	16.3	13.0	14.7
5	S G M H - 109	48.0	56.3	52.1	51.5	57.3	54.4	79.8	87.0	83.4	18.0	15.4	16.7
6	Z M H - 1410	50.5	58.0	54.3	53.0	60.3	56.6	86.5	92.5	89.5	16.4	19.1	17.8
7	E C - 3147	48.0	56.0	52.0	51.3	58.3	54.8	84.0	87.0	85.5	16.7	14.1	15.4
8	E C - 3148	47.0	53.5	50.3	49.3	54.0	51.6	77.3	80.0	78.6	17.9	12.4	15.1
9	E H - 1763	49.8	57.3	53.5	54.0	59.8	56.9	85.5	91.3	88.4	18.9	16.8	17.9
10	W H - 1	46.8	56.5	51.6	50.5	57.8	54.1	83.0	84.8	83.9	18.1	15.3	16.7
11	W H - 2	50.0	58.3	54.1	52.5	60.3	56.4	84.5	91.3	87.9	16.6	17.1	16.8
12	W C - 238	49.8	57.8	53.8	52.3	58.5	55.4	86.5	85.5	86.0	16.5	14.7	15.6
13	E H - 1755	49.0	55.0	52.0	51.5	57.8	54.6	84.8	90.5	87.6	19.2	15.3	17.2
14	E H - 1756	48.3	57.3	52.8	50.8	58.3	54.5	82.3	88.8	85.5	17.0	14.2	15.6
15	E H - 1757	47.5	55.5	51.5	51.0	57.3	54.1	80.8	89.0	84.9	16.5	15.9	16.2
16	CHH - 221	49.3	58.0	53.6	52.5	60.0	56.3	82.0	91.0	86.5	18.1	15.3	16.7
17	CHH - 222	50.8	57.3	54.0	53.3	59.8	56.5	83.8	90.3	87.0	18.1	16.0	17.1
18	CHH - 223	46.8	54.0	50.4	49.3	56.3	52.8	80.8	81.5	81.1	16.6	14.1	15.4
19	CHH - 224	48.3	57.8	53.0	52.0	60.5	56.3	82.0	93.0	87.5	16.4	18.5	17.5
CHECKS:													
20	PEHM-2	48.5	54.5	51.5	51.3	57.5	54.4	83.8	89.0	86.4	16.7	14.6	15.6
21	NARMADA MOTI	49.8	57.5	53.6	52.5	60.0	56.3	84.5	91.3	87.9	18.4	17.5	18.0
22	HIM-129	42.8	52.5	47.6	46.0	53.3	49.6	79.5	80.0	79.8	16.9	14.1	15.5
23	MAHI KANCHAN	45.0	55.3	50.1	47.3	56.8	52.0	79.8	80.0	79.9	17.0	14.4	15.7
MEAN LOCATION													
C.D. AT 5%		2.0	1.7	1.8	5.0	1.8	3.4	1.8	2.2	2.0	1.2	0.9	1.1
C.V. %		2.9	2.2	-	7.0	2.2	-	1.5	1.8	-	5.0	4.3	-
F (Prob)		.000	.000	-	.002	.000	-	.000	.000	-	.000	.000	-

TABLE NO. 65 (CONT.)

S1 NO PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COV. *			UNIFORMITY *		
	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	CHHI	UDAI	CHHI	UDAI	CHHI	ZN 5 MEAN
1 I C - 9407	1.6	1.8	1.7	1.7	2.3	2.0	1.8	1.8	1.5	1.8	1.5	1.6
2 I C - 9401	1.5	2.0	1.7	2.2	2.3	2.2	1.8	1.8	1.6	1.6	1.8	1.7
3 I C - 9005	1.9	2.0	2.0	1.7	2.3	2.0	1.8	1.8	1.5	2.0	1.8	1.8
4 I C - 9828	1.8	2.0	1.9	2.1	2.3	2.2	1.8	1.8	2.0	1.8	1.9	1.9
5 S G M H - 109	1.5	1.3	1.4	1.5	1.0	1.2	1.3	1.3	1.9	1.3	1.5	1.5
6 Z M H - 1410	1.8	1.0	1.4	1.4	1.0	1.2	1.5	1.5	1.5	1.5	1.5	1.5
7 E C - 3147	1.5	1.5	1.5	2.4	1.8	2.1	1.5	1.5	2.2	1.5	1.9	1.9
8 E C - 3148	1.4	2.0	1.7	2.1	2.0	2.1	2.0	2.0	1.8	2.0	1.9	1.9
9 E H - 1763	1.7	1.0	1.3	1.4	1.5	1.5	1.3	1.3	2.0	1.3	1.6	1.6
10 W H - 1	1.4	1.3	1.3	1.7	1.5	1.6	1.3	1.3	2.0	1.0	1.5	1.5
11 W H - 2	1.5	1.0	1.2	1.4	1.0	1.2	1.3	1.3	1.9	1.5	1.7	1.7
12 W C - 238	1.6	1.5	1.5	1.4	1.8	1.6	1.3	1.3	1.4	1.5	1.5	1.5
13 E H - 1755	1.5	1.0	1.3	1.5	1.3	1.4	1.5	1.5	1.6	1.3	1.5	1.5
14 E H - 1756	1.7	1.3	1.5	2.4	1.0	1.7	1.5	1.5	1.8	2.0	1.9	1.9
15 E H - 1757	1.5	1.3	1.4	1.6	1.8	1.7	1.5	1.5	1.5	1.5	1.5	1.5
16 CHH - 221	1.4	1.5	1.5	1.4	1.5	1.5	1.3	1.3	1.7	1.3	1.5	1.5
17 CHH - 222	1.6	1.3	1.4	1.4	1.5	1.5	1.5	1.5	1.7	1.5	1.6	1.6
18 CHH - 223	1.5	1.3	1.4	1.4	1.8	1.6	1.8	1.8	1.6	1.8	1.7	1.7
19 CHH - 224	1.3	1.5	1.4	1.5	1.8	1.6	1.3	1.3	1.5	1.5	1.5	1.5
CHECKS:												
20 PEHM-2	1.6	1.3	1.4	1.2	1.8	1.5	1.8	1.8	1.5	1.5	1.5	1.5
21 NARMADA MOTI	1.8	1.3	1.5	1.5	1.5	1.5	1.8	1.8	1.6	1.8	1.7	1.7
22 HIM-129	1.5	2.0	1.7	1.5	2.3	1.9	1.8	1.8	1.6	2.0	1.8	1.8
23 MAHI KANCHAN	1.6	2.0	1.8	1.5	2.0	1.7	2.0	2.0	1.6	2.0	1.8	1.8
MEAN LOCATION												
C.D. AT 5% =	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
C.V. % =	9.7	10.7	-	9.5	8.8	-	10.6	10.6	9.8	11.6	-	-
F (Prob)	.000	.000	-	.000	.000	-	.000	.000	.000	.000	.000	-

TABLE NO. 65 (CONT.)

Sl No	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR No./PLANT			STAND AT HARVEST		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	OV'L MEAN	UDAI	CHHI	OV'L MEAN
1	I C - 9407	224	170	197	113	81	97	1.02	0.97	0.99	34	42	38
2	I C - 9401	250	189	219	123	100	112	0.96	0.98	0.97	30	39	35
3	I C - 9005	232	170	201	102	91	97	0.98	0.90	0.94	30	43	36
4	I C - 9828	249	176	213	134	93	113	0.93	0.92	0.92	32	39	35
5	S G M H - 109	260	194	227	103	81	92	0.96	0.96	0.96	37	36	36
6	Z M H - 1410	250	176	213	107	84	95	1.07	0.96	1.02	37	43	40
7	E C - 3147	251	180	215	118	85	101	1.00	0.99	0.99	27	40	34
8	E C - 3148	250	170	210	104	75	89	0.95	0.99	0.97	29	42	35
9	E H - 1763	261	194	227	147	99	123	0.98	0.96	0.97	25	34	30
10	W H - 1	251	173	212	103	86	95	0.99	0.94	0.96	32	41	36
11	W H - 2	254	181	218	103	93	98	0.90	0.95	0.93	35	37	36
12	W C - 238	244	179	211	120	96	108	0.98	0.94	0.96	37	38	38
13	E H - 1755	259	179	219	124	94	109	0.97	0.99	0.98	35	40	37
14	E H - 1756	265	179	222	118	88	103	0.94	0.93	0.94	37	38	37
15	E H - 1757	231	185	208	94	88	91	0.96	1.01	0.98	39	43	41
16	CHH - 221	263	176	219	121	90	106	0.95	1.01	0.98	40	39	40
17	CHH - 222	261	185	223	112	86	99	0.94	0.93	0.93	34	33	33
18	CHH - 223	257	175	216	106	90	98	0.94	0.95	0.95	32	43	38
19	CHH - 224	274	184	229	134	91	113	0.89	0.94	0.92	39	42	41
CHECKS:													
20	PEHM-2	226	185	206	111	96	104	0.93	0.98	0.96	28	36	32
21	NARMADA MOTI	226	185	206	103	93	98	0.94	0.98	0.96	40	38	39
22	HIM-129	225	169	197	94	74	84	0.95	0.89	0.92	35	39	37
23	MAHI KANCHAN	233	169	201	102	78	90	1.00	0.94	0.97	31	28	30
MEAN LOCATION													
C.D. AT 5%		12.5	17.1	14.8	23.6	16.3	20.0	-	-	-	5.3	4.1	-
C.V. %		3.6	6.8	-	14.8	13.1	-	-	-	-	11.3	7.4	-
F (Prob)		.000	.094	-	.002	.096	-	-	-	-	.000	.000	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 66

PERFORMANCE OF EXPERIMENTAL HYBRIDS COMPOSITES AT UDAIPUR, CHHINDIWARA IN TRIAL NO. TR512 DURING KHARIF (2004).

S1 NO	PEDIGREE	GRAIN YIELD (kg/ha) AT 15% MOISTURE				GRAIN YIELD & SUPERIORITY OVER THE KIRAN				ZN 5 MEAN
		UDAI	R	CHHI	R	UDAI	CHHI	UDAI	CHHI	
1	EEH	1714	22	7128	3	5385	9	12.81	22.91	16.03
2	EEH	1715	24	6915	6	5253	13	9.44	21.21	13.20
3	EEH	1716	18	4804	23	4364	24	-	32.42	-
4	EEH	1717	14	6217	14	5991	3	-	34.47	29.08
5	EEH	1718	17	5744	16	4864	15	-	34.47	4.81
6	EEH	1719	13	5698	17	5276	12	-	63.85	13.69
7	EEH	1720	14	5289	20	4709	19	-	39.36	1.47
8	EEH	1721	20	7026	4	5449	17	11.19	30.71	17.42
9	EEH	1722	12	5311	19	4822	17	-	46.22	3.91
10	EEH	1723	17	6242	12	5371	10	-	51.87	15.73
11	EEH	1724	6	6368	10	5484	6	0.78	55.27	18.17
12	EEH	1725	13	6617	8	5419	8	4.72	42.44	16.77
13	EEH	1726	4	6870	7	5756	4	8.73	56.63	24.02
14	EEH	1727	5	6412	9	5526	5	1.48	56.58	19.07
15	EEH	1728	11	5831	15	5101	14	-	47.47	19.91
16	EEH	1729	16	4879	22	4437	21	-	34.87	-
17	EEH	1730	8	4396	27	4436	22	-	51.03	-
18	EEH	1731	2	7266	2	6218	2	14.99	74.46	33.98
19	EEH	1481	19	4943	21	4420	23	-	31.51	-
20	EICH	3149	10	5316	18	4853	16	-	48.15	4.57
21	IIH	0230	27	4500	26	3760	28	-	1.90	-
22	IIH	0333	21	4694	24	4229	26	-	27.03	-
23	IIH	0218	15	10052	1	7076	1	59.08	38.34	52.46
24	IIH	9842	25	4542	25	4033	27	-	18.97	-
25	IIH	9902	26	6238	13	4737	18	-	19.20	2.07
CHECKS:										
26	KIRAN		28	6319	11	4641	20	-	21.85	13.71
27	NAVJOT		23	6943	15	5277	11	9.89	49.71	-
28	PERM-2		9	4077	28	4257	25	-	-	-
	MEAN YIELD=		4136	5951		5041				
	MEAN STAND		35	34		34				
	C.D. AT 5%		507	1836		1172				
	C.V. %		7.50	15.04		-				
	F. (Prob)		.000	.001		-				
	PLOT SIZE=		6.00	5.60		-				
	AGRONOMY DATA:									
	SOWING DATE (2004)		2-07	30-06						
	HARVEST DATE (2004)		12-10	30-10						
	IRRIGATION NOS		-	-						
	FERTILIZER APPLIED									
	N		90	100						
	P		60	60						
	K		-	40						

TABLE NO. 66 (CONT.)

Sl NO	PEDIGREE	GRAIN YIELD % SUPERIORITY OVER THE NAVJOT			THE PEHM-2			DAYS TO 50% POLLEN SHED		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	EH - 1714	0.87	2.66	2.05	-	74.81	26.50	48.3	57.5	52.9
2	EH - 1715	-	-	-	-	69.59	23.41	48.0	55.5	51.8
3	EH - 1716	8.67	-	-	-	17.82	2.52	49.7	60.0	54.8
4	EH - 1717	59.64	-	13.52	29.94	52.47	40.73	49.7	60.0	54.8
5	EH - 1718	10.35	-	-	-	40.86	14.27	49.7	56.5	53.1
6	EH - 1719	34.46	-	-	9.45	39.74	23.95	48.3	57.5	52.9
7	EH - 1720	14.36	-	-	-	29.71	10.63	48.0	55.5	51.8
8	EH - 1721	7.27	1.18	3.27	-	72.30	28.02	50.3	60.5	55.4
9	EH - 1722	20.00	-	-	-	30.26	13.28	50.0	58.0	54.0
10	EH - 1723	24.63	-	1.78	1.44	53.08	26.18	49.3	59.0	54.2
11	EH - 1724	27.42	-	3.93	3.71	56.17	28.84	49.3	59.0	54.2
12	EH - 1725	16.90	-	2.69	-	62.28	27.30	50.0	59.0	54.5
13	EH - 1726	28.54	-	9.07	4.63	68.48	35.21	49.0	58.5	53.8
14	EH - 1727	28.50	-	4.71	4.59	57.25	29.81	49.7	58.5	54.1
15	EH - 1728	21.03	-	-	-	43.01	19.82	50.3	58.5	54.4
16	EH - 1729	10.68	-	-	-	19.64	4.24	48.7	60.0	54.3
17	EH - 1730	23.95	-	-	0.89	7.81	4.20	48.0	56.5	52.3
18	EH - 1731	43.17	4.64	17.82	16.54	78.19	46.06	50.0	59.5	54.8
19	EH - 1481	7.92	-	-	-	21.23	3.84	49.0	60.5	54.8
20	EC - 3149	21.58	-	-	-	30.38	14.01	49.3	59.0	54.2
21	IH - 0230	-	-	-	-	10.37	-	49.0	59.5	54.3
22	IH - 0333	4.25	-	-	-	15.12	-	48.7	57.5	53.1
23	IH - 0218	13.53	44.77	34.08	-	146.52	66.22	54.0	62.5	58.3
24	IH - 9842	-	-	-	-	11.38	-	50.0	61.0	55.5
25	IH - 9902	-	-	-	-	52.99	11.28	48.7	58.5	53.6
CHECKS:										
26	KIRAN	-	-	-	-	54.96	9.02	51.0	59.0	55.0
27	NAVJOT	-	-	-	-	70.29	23.97	52.7	60.5	56.6
28	MEAN LOCATION	22.86	-	-	-	-	-	51.3	62.0	56.7
C.D. AT 5% =										
C.V. % =										
F (Prob) =										
1.1 2.5 1.8										
1.3 2.1 -										
.000 .000 -										

TABLE NO. 66 (CONT.)

S1 NO	PEDIGREE	PLANT ASPECT *			EAR ASPECT *			HUSK COVER *			UNIFORMITY *		
		UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN	UDAI	CHHI	ZN 5 MEAN
1	EH - 1714	3.0	2.0	2.5	3.2	2.0	2.6	2.1	2.5	2.3	1.7	2.0	1.9
2	EH - 1715	2.1	1.3	1.7	2.6	1.8	2.2	2.1	2.0	2.0	2.1	2.0	2.0
3	EH - 1716	1.7	2.0	1.9	2.4	1.5	2.0	1.6	1.8	1.7	1.9	1.5	1.7
4	EH - 1717	1.8	1.0	1.4	2.2	1.3	1.7	1.6	1.5	1.5	1.5	1.3	1.4
5	EH - 1718	2.1	2.0	2.0	2.8	1.8	2.3	1.8	2.3	2.0	2.1	1.5	1.8
6	EH - 1719	2.2	1.5	1.9	2.4	1.8	2.1	1.9	1.8	1.8	3.3	1.8	2.5
7	EH - 1720	2.5	1.8	2.1	2.6	1.5	2.1	1.7	1.8	1.7	2.2	1.5	1.9
8	EH - 1721	2.3	1.0	1.6	2.3	1.3	1.8	2.2	2.0	2.1	2.5	1.5	2.0
9	EH - 1722	2.3	2.0	2.1	2.0	1.5	1.8	2.0	2.0	1.8	2.5	2.0	2.2
10	EH - 1723	2.7	1.5	2.1	2.4	1.8	2.0	2.2	1.5	1.8	2.1	1.0	1.6
11	EH - 1724	2.1	1.8	1.9	2.4	1.8	2.1	1.7	1.5	1.6	1.7	1.8	1.7
12	EH - 1725	2.1	2.0	2.0	2.3	1.8	2.0	1.7	1.8	1.7	2.3	2.0	2.2
13	EH - 1726	1.8	1.3	1.5	2.3	1.5	1.9	1.7	1.8	1.7	2.2	1.5	1.8
14	EH - 1727	2.3	2.0	2.2	2.1	1.5	1.8	1.6	1.8	1.7	2.6	1.5	2.0
15	EH - 1728	1.7	1.5	1.6	2.2	1.5	1.9	1.8	1.0	1.4	2.1	1.5	1.8
16	EH - 1729	2.4	1.0	1.7	2.8	1.3	2.0	2.0	1.5	1.8	2.4	1.5	2.0
17	EH - 1730	2.2	1.5	1.9	2.4	1.5	2.0	1.7	1.3	1.5	2.2	1.3	1.7
18	EH - 1731	1.7	1.0	1.4	2.3	1.5	1.9	1.8	1.5	1.7	1.8	1.5	1.7
19	EH - 1481	2.1	2.0	2.0	2.5	1.5	2.0	1.8	1.8	1.7	2.5	1.0	1.8
20	EH - 3149	3.0	2.0	2.5	2.5	2.0	2.3	1.8	1.8	1.8	2.3	2.0	2.1
21	I H - 0230	3.1	1.3	2.2	2.4	1.8	2.1	2.3	2.0	2.2	2.9	1.8	2.3
22	I H - 0333	2.4	2.0	2.2	2.7	1.8	2.2	1.9	2.3	2.1	1.7	1.5	1.6
23	I H - 0218	3.0	1.0	2.0	3.2	1.0	2.1	1.7	1.3	1.5	2.8	1.3	2.0
24	I H - 9842	2.9	1.8	2.3	2.5	1.8	2.1	2.0	2.0	2.0	2.5	2.0	2.2
25	I H - 9902	2.5	1.5	2.0	2.9	1.5	2.2	1.6	1.8	1.7	1.7	1.5	1.6
CHECKS:													
26	KIRAN	2.5	1.0	1.8	2.4	1.3	1.8	1.8	1.8	1.8	2.5	1.5	2.0
27	NAVJOT	2.5	2.0	2.3	2.2	1.8	2.0	2.1	2.3	2.2	3.0	1.8	2.4
28	PEHM-2	2.5	1.8	2.1	2.1	1.8	1.9	2.1	2.0	2.0	2.8	1.5	2.1
MEAN LOCATION													
C.D. AT 5%		0.3	0.4	0.4	0.3	0.6	0.4	0.3	0.5	0.4	0.6	0.4	0.5
C.V. %		7.6	13.7	-	6.8	17.2	-	9.0	13.8	-	15.6	11.4	-
P (Prob)		.000	.000	-	.000	.145	-	.000	.000	-	.000	.000	-

TABLE NO. 66 (CONT.)

SL NO	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			EAR NO./PLANT			STAND AT HARVEST		
		UDAI	CHHI	MEAN	UDAI	CHHI	MEAN	UDAI	CHHI	UDAI	CHHI	UDAI	CHHI
1	E H - 1714	207	168	187	100	73	86	1.00	0.95	0.97	36	29	32
2	E H - 1715	177	170	173	75	78	76	1.02	0.94	0.98	38	34	36
3	E H - 1716	188	160	174	97	65	81	1.01	0.94	0.97	39	30	34
4	E H - 1717	202	153	177	100	68	84	0.91	0.90	0.91	29	35	32
5	E H - 1718	182	145	163	87	63	75	1.02	1.05	1.04	38	37	38
6	E H - 1719	182	155	168	98	65	82	1.00	0.96	0.98	37	38	38
7	E H - 1720	183	135	159	97	50	73	1.00	1.16	1.08	30	30	30
8	E H - 1721	190	160	175	107	75	91	1.00	1.18	1.09	38	42	40
9	E H - 1722	195	173	184	98	70	84	1.00	0.97	0.99	32	40	36
10	E H - 1723	215	143	179	123	58	90	1.00	0.98	0.99	39	35	37
11	E H - 1724	185	143	164	102	60	81	1.00	0.90	0.95	30	30	30
12	E H - 1725	200	160	180	110	63	86	0.99	0.92	0.95	33	27	30
13	E H - 1726	197	173	185	107	68	87	1.00	1.02	1.01	40	24	32
14	E H - 1727	202	140	171	105	55	80	1.00	1.10	1.05	34	40	37
15	E H - 1728	207	163	185	113	70	92	1.01	1.18	1.10	36	34	35
16	E H - 1729	193	148	170	98	58	78	1.00	1.14	1.07	29	35	32
17	E H - 1730	187	148	167	93	55	74	1.05	0.88	0.97	34	37	36
18	E H - 1731	202	173	187	100	73	86	1.05	0.94	0.99	38	32	35
19	E H - 1481	187	148	167	90	63	76	1.04	1.02	1.03	38	29	34
20	E C - 3149	178	150	164	85	73	79	1.03	0.94	0.99	35	39	37
21	I H - 0230	197	160	178	100	68	84	1.03	0.83	0.93	31	40	35
22	I H - 0333	207	153	180	118	78	98	1.00	0.92	0.96	36	40	38
23	I H - 0218	178	180	179	108	75	92	1.01	1.00	1.00	35	40	38
24	I H - 9842	210	143	176	105	65	85	1.00	0.96	0.98	29	44	37
25	I H - 9902	193	160	177	100	68	84	1.02	0.95	0.99	35	34	35
CHECKS:													
26	KIRAN	205	200	203	98	73	85	1.03	1.07	1.05	32	27	29
27	NAVJOT	195	165	180	100	85	93	1.00	0.94	0.97	34	31	33
28	PEEM-2	187	158	172	98	80	89	1.00	0.99	1.00	32	26	29
MEAN LOCATION													
C.D. AT 5%		30.2	33.2	31.7	27.0	29.3	28.2	-	-	-	5.6	10.3	-
C.V. %		9.5	10.2	-	16.4	21.2	-	-	-	-	9.9	14.7	-
F (Prob)		.501	.137	-	.431	.843	-	-	-	-	.000	.015	-

* DATA RECORDED ON THE BASIS OF 1 (GOOD) TO 5 (POOR)

TABLE NO. 67

PERFORMANCE OF EARLY MATURING EXPERIMENTAL HYBRIDS & COMPOSITES AT PANTNAGAR (CONTROL), PANTNAGAR (WATERLOGGED) IN TRIAL No. TR75 DURING KHARIF (2004).

Sl No	PEDIGREE	GRAIN YIELD (kg/ha)						DAYS TO 50% POLLEN SHED			DAYS TO 50% SILKING		
		AT 15% MOISTURE			WATER			CONT			WATE		
		PANT	R	OV'L MEAN	PANT	R	OV'L MEAN	PANT	R	OV'L MEAN	PANT	R	OV'L MEAN
1	F H - 3259	7090	24	2084	20	4587	23	46.5	48.0	47.3	49.0	51.5	50.3
2	J H - 31005	7756	14	2157	17	4956	17	47.5	49.5	48.5	50.5	53.5	52.0
3	J H - 31036	8641	8	3270	2	5955	4	48.5	51.5	50.0	51.5	55.0	53.3
4	J H - 3964	5453	46	2913	4	4183	30	48.5	53.0	50.8	51.5	56.0	53.8
5	H K H - 1176	6733	29	1423	36	4078	35	49.5	52.5	51.0	52.5	56.0	54.3
6	A H - 24007	5797	41	1252	42	3524	43	47.0	51.5	49.3	50.0	55.5	52.8
7	A H - 01411	7841	13	1884	24	4862	19	48.0	50.5	49.3	51.5	54.5	53.0
8	R - 03/702	5332	47	1706	27	3519	44	45.0	48.5	46.8	48.0	53.0	50.5
9	BVM - 5	6013	36	-	-	6013	3	48.5	-	48.5	52.0	-	52.0
10	BVM - 6	6020	35	1774	26	3897	39	46.0	48.5	47.3	49.0	53.5	51.3
11	X - 1182 D	8356	9	1377	38	4866	18	49.5	53.5	51.5	52.5	58.0	55.3
12	X - 1182 K	9394	3	3005	3	6199	1	49.5	51.0	50.3	52.5	54.5	53.5
13	JK M H - 1701	6683	30	2813	6	4748	21	50.5	51.5	51.0	53.0	55.0	54.0
14	X - 2097	8091	11	2691	9	5391	8	47.5	52.0	49.8	50.5	57.5	54.0
15	D E H - 10103	6490	31	1461	35	3975	37	41.5	45.5	43.5	46.0	49.0	47.5
16	D E H - 10303	5752	44	2245	15	3998	36	43.5	45.5	44.5	47.0	49.0	48.0
17	D E H - 10503	5180	48	1191	45	3186	49	43.0	45.5	44.3	46.0	48.5	47.3
18	D E H - 11303	6176	34	1356	39	3766	41	43.0	47.0	45.0	46.0	52.0	49.0
19	F H - 3211	5983	37	872	49	3428	47	44.0	45.5	44.8	46.0	49.5	47.8
20	B V M - 7	5760	43	1972	21	3866	40	44.0	47.0	45.5	46.5	51.0	48.8
21	J K M H - 204-1	7688	18	1903	23	4796	20	50.0	53.5	51.8	53.0	57.5	55.3
22	H K H - 1183	8174	10	1828	25	5001	16	50.0	52.5	51.3	53.0	55.5	54.3
23	A H - 23021	4940	49	1157	46	3048	50	43.5	47.5	45.5	46.5	53.5	50.0
24	A H - 23025	7066	25	2084	19	4575	24	47.0	48.5	47.8	50.0	53.0	51.5
25	A H - 23035	5773	42	1226	43	3499	45	46.0	47.5	46.8	50.5	52.0	51.3
26	A H - 23039	-	-	-	-	-	-	-	-	-	-	-	-
27	J H - 3851	7708	17	2578	10	5143	13	47.5	49.0	48.3	50.0	54.5	52.3

TABLE NO. 68 (CONT.)

SI NO	PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			STAND			WATE			ZN 2		
		CONT	PANT	MEAN	CONT	PANT	MEAN	CONT	PANT	MEAN	CONT	PANT	MEAN	CONT	PANT	MEAN
1	B H - 3443	205	145	175	85	35	60	24	13	19						
2	L - 134	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3	E H - 30969	260	135	198	110	50	80	19	8	14						
4	B H - 31079	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
5	H K H - 1200	255	160	208	100	45	73	31	16	23						
6	A H - 017045	235	170	203	100	55	78	28	15	21						
7	A H - 23071	265	190	228	100	60	80	21	15	18						
8	A H - 24008	230	170	200	100	70	85	34	13	23						
9	P M Z - 136	240	140	190	105	50	78	29	7	18						
10	BIO - 22069	265	145	205	105	45	75	36	13	24						
11	X - 2005	260	200	230	105	65	85	31	20	25						
12	B C - 3121	275	195	235	115	75	95	23	20	21						
13	B H - 2359	275	230	253	120	95	108	33	27	30						
14	H K H - 1203	235	195	215	100	75	88	20	10	15						
15	H K H - 1208	200	175	188	90	70	80	34	30	32						
16	J K M H - 1001	275	165	220	105	50	78	30	15	23						
17	SEEDTEC - 1081	260	200	230	115	70	93	24	15	20						
18	P M Z - 131	265	170	218	105	50	78	35	15	25						
19	P M Z - 237	250	165	208	95	55	75	26	14	20						
20	NECH - 120	270	150	210	110	50	80	33	6	19						
21	X - 26	260	135	198	105	30	68	33	20	27						
22	NAVJOT	260	160	210	105	45	75	36	11	23						
23	KH 510	265	225	245	105	80	93	31	29	30						
24	C M - 500	-	-	-	-	-	-	-	-	-						
25	LOCAL	-	-	-	-	-	-	-	-	-						
	MEAN LOCATION	256	160	218	104	63	83	30	17	24						
	C.D. AT 5%	26.0	75.8	50.9	16.5	35.6	26.0	11.3	11.0	11.1						
	C.V. %	5.0	20.7	-	7.7	27.9	-	18.5	31.4	-						
	P (Prob)	.000	.459	-	.024	.097	-	.015	.000	-						

(DELETED THIRTEEN ENTRIES)

TABLE NO. 69 (CONT.)

S1 NO PEDIGREE	PLANT HEIGHT (cm)			EAR HEIGHT (cm)			STAND AT HARVEST		
	CONT	WATE	MEAN	CONT	WATE	MEAN	CONT	WATE	MEAN
1 J H - 10655	280	175	228	115	50	83	23	4	13
2 J C 1441 C3 FS	275	220	248	110	85	98	24	16	20
3 B H - 3301	270	180	225	100	45	73	18	5	12
4 B H - 3313	-	-	-	-	-	-	-	-	-
5 B H - 3315	-	-	-	-	-	-	-	-	-
6 B H - 3316	245	180	213	95	55	75	17	13	15
7 M H - 01 - 1	250	-	250	95	-	95	36	-	36
8 M H - 01 - 2	270	160	215	115	50	83	39	8	23
9 M H - 01 - 3	265	210	238	115	85	100	33	26	29
10 M H - 01 - 4	270	160	215	115	45	80	31	5	18
11 P M Z - 235	260	220	240	110	75	93	31	22	26
12 ROBUST	240	-	240	100	-	100	22	-	22
13 NECH - 117	280	175	228	115	55	85	40	12	26
14 M C H - 1	270	175	223	115	60	88	38	19	29
15 M C H - 2	270	165	218	110	40	75	21	7	14
16 PARBHAT	270	205	238	120	55	88	30	11	20
17 BIO - 9681	270	220	245	110	70	90	37	19	28
18 PRO - 311	255	140	198	105	45	75	39	14	26
19 SEEDTEC - 2324	245	150	198	100	60	80	35	14	24
20 C M - 500	240	195	218	90	65	78	16	11	14
21 LOCAL	-	-	-	-	-	-	-	-	-
MEAN LOCATION	263	186	225	108	60	84	29	14	21
C.D. AT 5%	21.6	67.1	44.3	15.3	28.0	21.7	9.8	10.6	-
C.V. %	3.9	17.2	-	6.8	22.3	-	16.4	36.0	-
F (Prob)	.013	.373	-	.020	.059	-	.000	.005	-

(DELETED FOUR ENTRIES)

AGRONOMY

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A - 1

Table 1. Relative performance of pre release germplasm of Full Maturity at different levels of Nitrogen during kharif 2004 in Zone IV

Main Plot	Treatment	Grain Yield kg/ha		Mean	Plant Stand (000/ha)	
		Kolhapur	Karimnagar		Kolhapur	Karimnagar
N-60	ROBUST	2133	1933	2033	57.8	29.1
	MCH - 1	3022	1973	2498	60.9	32.3
	MCH - 2	3289	1320	2304	58.4	27.9
	PARBHAT	1458	1547	1502	58.4	24.1
	BIO - 9681	2382	1307	1844	53.8	30.4
	SEEDTEC 2324	2827	1587	2207	60.9	22.8
N-120	ROBUST	4089	1733	2911	55.1	21.5
	MCH - 1	3733	1440	2587	58.7	29.7
	MCH - 2	4267	1667	2967	56.0	22.8
	PARBHAT	2311	1507	1909	57.8	31.7
	BIO - 9681	3716	2080	2898	56.4	29.1
	SEEDTEC 2324	3289	1787	2538	57.6	31.9
N-180	ROBUST	5422	1453	3438	54.2	25.9
	MCH - 1	4622	1480	3051	53.8	24.0
	MCH - 2	4782	1947	3364	51.1	31.9
	PARBHAT	3556	1693	2624	50.7	24.8
	BIO - 9681	5067	1613	3340	55.3	24.9
	SEEDTEC 2324	5333	2653	3993	51.6	30.7

Location mean	3841.3	1651.4	56.2	27.8
C.D.(5%) AIBj-AIBk	859.1	657.5	5.2	7.6
C.D.(5%) AIBk-AjBk	940.1	709.4	5.0	7.6
F(5%)	n.s.	s	n.s.	s

N-60	2671	1667	2169	59.0	27.4
N-120	3866	1624	2745	56.9	28.7
N-180	4988	1664	3326	52.8	27.3

C.D.(5%) Al-Aj	493.0	356.5	0.9	2.7
C.V.(%) Error A	17.0	28.6	2.1	12.7
F(5%)	s	n.s.	s	n.s.

ROBUST	3881	1707	2794	55.7	25.5
MCH - 1	3793	1631	2712	57.8	28.7
MCH - 2	4113	1644	2879	55.2	27.5
PARBHAT	2441	1582	2012	55.6	26.9
BIO - 9681	3721	1667	2694	55.2	28.1
SEEDTEC 2324	3816	2009	2913	56.7	28.4

C.D.(5%) Al-Aj	496.0	379.6	3.0	4.4
C.V.(%) Error A	13.6	24.2	5.7	16.5
F(5%)	s	n.s.	n.s.	n.s.

Cont..

A - 2

Main Plot	Treatment	Plant Height (cm)		No. of Cob (000/ha)		Days to 50% Silking
		Kolhapur	Karimnagar	Kolhapur	Karimnagar	Kolhapur
N-60	ROBUST	118.7	165.7	44.9	24.5	62.0
	MCH - 1	127.0	153.7	57.3	25.3	63.7
	MCH - 2	144.7	142.0	57.8	23.2	63.3
	PARBHAT	144.7	162.3	39.3	20.1	63.0
	BIO - 9681	144.7	148.7	43.6	17.7	60.0
	SEEDTEC 2324	131.3	120.0	55.6	20.7	61.3
N-120	ROBUST	130.0	139.3	50.0	20.4	61.7
	MCH - 1	142.7	167.7	55.1	24.0	64.3
	MCH - 2	147.0	135.7	56.2	19.2	63.0
	PARBHAT	152.7	169.3	47.1	23.3	63.0
	BIO - 9681	173.7	163.3	52.0	24.7	60.7
	SEEDTEC 2324	115.7	137.3	54.2	25.3	61.7
N-180	ROBUST	158.3	151.3	57.8	22.0	60.7
	MCH - 1	148.3	144.7	55.8	20.3	64.3
	MCH - 2	157.3	151.0	57.8	25.5	63.7
	PARBHAT	158.7	170.3	48.0	19.7	63.3
	BIO - 9681	163.3	171.3	56.0	22.1	60.7
	SEEDTEC 2324	170.3	150.7	56.0	28.8	61.0

Location mean	145.7	150.2	54.4	23.0	62.7
C.D.(5%) A1Bj-A1Bk	7.3	20.4	6.7	8.9	1.1
C.D.(5%) A1Bk-A1Bk	7.2	29.5	7.0	9.5	1.1
F(5%)	s	s	s	n.s.	s

N-60	133.7	148.4	52.6	22.5	62.8
N-120	144.1	149.7	54.4	23.5	62.5
N-180	159.3	152.6	56.2	22.9	62.9

C.D.(5%) A1-Aj	2.4	22.9	3.1	4.4	0.3
C.V.(%) Error A	2.2	20.2	7.5	25.5	0.7
F(5%)	s	n.s.	n.s.	n.s.	n.s.

ROBUST	135.7	152.1	50.9	22.3	61.4
MCH - 1	139.3	155.3	56.1	23.2	64.1
MCH - 2	149.7	142.9	57.3	22.6	63.3
PARBHAT	152.0	167.3	44.8	21.1	63.1
BIO - 9681	160.6	161.1	50.5	21.5	60.4
SEEDTEC 2324	139.1	136.0	55.3	24.9	61.3

C.D.(5%) A1-Aj	4.2	11.8	3.9	5.2	0.7
C.V.(%) Error A	3.0	8.3	7.5	23.7	1.1
F(5%)	s	s	s	n.s.	s

A - 3

Table 2 Relative Performance of pre-released germplasm of Full Maturity at Different levels of nitrogen during kharif 2004 at Udaipur in Zone V

Main Plot	Treatment	Grain Yield (q/ha)	Plant Stand (000/ha)	Days to 50% silk	Plant height (cm)	PFSR affected Plant/plot	Barren Plant/plot	Barren Cobs/plot
N60	ROBUST	4331.7	58.5	55.5	220.5	2.3	2.3	0.0
	NECH - 117	6040.0	58.8	53.5	240.0	3.0	2.5	0.7
	PARBHAT	4011.7	58.3	55.3	249.8	4.7	4.0	0.7
	BIO - 9681	3625.0	54.7	55.3	230.5	6.5	5.3	2.7
	SEEDTEC - 2324	5215.0	64.0	57.0	215.3	6.3	2.0	3.7
N120	ROBUST	4923.3	59.5	56.5	230.3	3.2	3.0	0.0
	NECH - 117	6520.0	59.5	55.0	250.3	3.7	3.2	0.7
	PARBHAT	4615.0	60.7	56.3	255.3	5.3	4.8	0.7
	BIO - 9681	3721.7	55.5	56.3	235.3	9.2	6.7	2.8
	SEEDTEC - 2324	5700.0	64.8	58.0	220.0	6.3	2.5	3.7
N180	ROBUST	5026.7	58.7	57.0	232.5	3.2	3.2	0.0
	NECH - 117	6620.0	58.7	55.0	255.0	3.8	3.2	0.7
	PARBHAT	4615.0	58.3	57.0	256.0	5.3	4.3	0.7
	BIO - 9681	3816.7	54.7	57.0	245.8	34.3	6.3	3.0
	SEEDTEC - 2324	5831.7	64.0	58.0	225.0	8.0	2.7	3.7

Location mean	4974.2	59.2	56.2	237.4	7.0	3.7	1.6
C.D.(5%) AIBj-AIBk	669.1	7.4	4.5	32.6	18.7	1.0	0.5
C.D.(5%) AIBk-AjBk	797.9	8.9	5.1	39.0	19.6	1.1	0.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N60	4644.7	58.9	55.3	231.2	4.6	3.2	1.5
N120	5096.0	60.0	56.4	236.2	5.5	4.0	1.6
N180	5182.0	58.9	56.8	242.9	10.9	3.9	1.6

C.D.(5%) Ai-Aj	532.8	6.0	3.1	26.2	10.3	0.6	0.3
C.V.(%) Error A	13.8	13.0	7.1	14.3	190.5	21.3	27.8
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.

ROBUST	4760.6	58.9	56.3	227.8	2.9	2.8	0.0
NECH - 117	6393.3	59.0	54.5	248.4	3.5	2.9	0.7
PARBHAT	4413.9	59.1	56.2	253.7	5.1	4.4	0.7
BIO - 9681	3721.1	54.9	56.2	237.2	16.7	6.1	2.8
SEEDTEC - 2324	5582.2	64.3	57.7	220.1	6.9	2.4	3.7

C.D.(5%) BI-Bj	386.3	4.3	2.6	18.8	10.8	0.6	0.3
C.V.(%) Error B	9.4	8.8	5.6	9.6	185.7	18.4	22.9
F(5%)	s	s	n.s.	s	n.s.	s	s

A - 4

Table 3. Relative performance of pre germplasm of Medium maturity group at Different levels of Nitrogen during Kharif 2004 at Srinagar Zone I

Main Plot	Treatment	Grain Yield (kg/ha)	Plant stand (000/ha)	Plant height (cm)	Days to 50% Silking
N-60	BISCO - 3123	5657	49.3	198.0	71.0
	AAMH - 204	4940	49.3	200.3	71.3
	NECH - 113	5920	50.4	186.3	72.3
	X - 2203	5861	50.1	191.3	74.3
	KH 510	5481	48.4	189.7	75.7
	NAVJOT	4931	48.6	189.7	72.0
N-120	BISCO - 3123	5611	49.7	184.0	72.7
	AAMH - 204	4887	47.9	192.3	73.7
	NECH - 113	5870	49.7	186.3	73.7
	X - 2203	5796	49.6	183.7	76.0
	KH 510	5331	48.2	191.0	73.7
	NAVJOT	4792	48.8	194.0	73.3
N-180	BISCO - 3123	5891	48.4	188.3	76.0
	AAMH - 204	4821	47.4	196.0	76.3
	NECH - 113	5780	48.3	187.3	76.0
	X - 2203	5686	49.1	195.3	78.7
	KH 510	5250	48.8	193.7	76.3
	NAVJOT	4725	47.3	199.0	76.3

Location mean	5401.7	48.9	191.5	74.4
C.D.(5%) AiBj-AiBk	307.8	2.0	3.5	3.0
C.D.(5%) AiBk-AjBk	410.2	1.9	4.3	3.2
F(5%)	n.s.	n.s.	s	n.s.

N-60	5465	49.4	192.6	72.8
N-120	5381	49.0	188.6	73.8
N-180	5359	48.2	193.3	76.8

C.D.(5%) Ai-Aj	305.5	0.7	2.9	1.8
C.V.(%) Error A	6.1	1.5	1.7	2.6
F(5%)	n.s.	s	s	s

BISCO - 3123	5720	49.2	190.1	73.2
AAMH - 204	4882	48.2	196.2	73.8
NECH - 113	5857	49.5	188.7	74.0
X - 2203	5781	49.6	190.1	76.3
KH 510	5354	48.5	191.4	75.2
NAVJOT	4816	48.3	194.2	73.9

C.D.(5%) Bi-Bj	177.7	1.1	2.0	1.7
C.V.(%) Error B	3.4	2.4	1.1	2.4
F(5%)	s	s	s	s

A - 5

Table 4. Relative performance of pre release germplasm of (Medium Maturity) at Different levels of Nitrogen during kharif 2004 in Zone III

Main Plot	Treatment	Grain Yield (kg/ha)				Mean	Plant Stand (000/ha)			
		Baharich	Dholi	Jashipur	Varanasi		Baharich	Dholi	Jashipur	Varanasi
N60	HKH - 1208	2674	2750	2920	1667	2503	77.8	33.0	55.8	38.4
	PMZ - 131	3583	3550	3023	2667	3208	77.1	32.8	56.3	39.3
	NECH - 120	2951	3650	4187	3733	3630	77.1	30.0	55.3	39.8
	NAVJOT	2847	2433	2103	2311	2424	76.4	34.2	53.9	38.9
	KH 510	3292	2533	2447	2667	2735	76.4	26.3	53.7	39.6
N120	HKH - 1208	4250	3333	3023	1978	3146	77.1	30.0	54.1	39.8
	PMZ - 131	5674	3383	4903	3467	4357	77.1	30.5	55.8	39.6
	NECH - 120	4750	3750	6243	4756	4875	78.5	33.8	57.2	39.1
	NAVJOT	4694	3100	3793	3400	3747	76.4	34.5	54.8	38.9
	KH 510	5326	3250	5387	3933	4474	77.8	29.0	55.1	40.0
N180	HKH - 1208	6604	3017	3617	2378	3904	77.8	31.8	56.9	39.1
	PMZ - 131	8042	3700	5837	4087	5411	77.8	32.0	56.9	39.8
	NECH - 120	6375	5300	6020	5333	5757	77.1	34.7	53.7	39.6
	NAVJOT	6500	3000	5670	3178	4587	76.4	34.3	54.2	39.3
	KH 510	7194	2550	4647	4000	4598	75.0	30.0	53.5	39.8

Location mean	4983.8	3286.7	4254.7	3302.2		77.0	31.8	55.1	39.4
C.D.(5%) A B A Bk	521.2	1105.9	719.2	727.5		3.0	9.0	2.9	1.1
C.D.(5%) A Bk-A Bk	593.3	1239.1	808.5	1078.1		3.4	9.6	3.2	1.7
F(5%)	n.s.	n.s.	s	n.s.		n.s.	n.s.	n.s.	n.s.

N60		3069	2983	2936	2609	2899	76.9	31.3	55.0	39.2
N120		4939	3363	4670	3507	4120	77.4	31.6	55.4	39.5
N180		6943	3513	5158	3791	4851	76.8	32.6	55.0	39.5

C.D.(5%) Ai-Aj	376.1	754.2	502.3	874.2		2.1	5.3	1.9	1.4
C.V.(%) Error A	7.4	29.7	11.6	26.1		2.6	21.6	3.5	3.4
F(5%)	s	n.s.	s	s		n.s.	n.s.	n.s.	n.s.

HKH - 1208	4509	3033	3187	2007	3184	77.5	31.6	55.6	39.1
PMZ - 131	5766	3544	4588	3400	4325	77.3	31.8	56.3	39.6
NECH - 120	4692	4233	5483	4607	4754	77.5	32.8	55.4	39.5
NAVJOT	4681	2844	3856	2963	3586	76.4	34.3	54.3	39.0
KH 510	5271	2778	4160	3533	3935	76.4	28.4	54.1	39.8

C.D.(5%) Bi-Bj	300.9	638.5	415.2	420.0		1.8	5.2	1.7	0.6
C.V.(%) Error B	6.2	23.5	10.0	13.1		2.3	19.7	3.1	1.6
F(5%)	s	s	s	s		n.s.	n.s.	n.s.	n.s.

Cont..

A - 6

Main Plot	Treatment	Days to 50% Silking				Plant Height (cm)			
		Baharich	Dholi	Jashipur	Varanasi	Baharich	Dholi	Jashipur	Varanasi
N60	HKH - 1208	56.0	58.3	53.0	61.7	198.3	108.1	121.0	183.7
	PMZ - 131	55.3	58.3	52.0	58.7	201.7	137.8	152.0	220.3
	NECH - 120	55.3	59.3	52.0	59.3	195.0	141.2	154.0	228.3
	NAVJOT	55.3	59.0	48.3	56.7	200.0	146.8	150.7	234.0
	KH 510	55.0	58.3	51.3	58.3	195.0	135.0	147.3	225.7
N120	HKH - 1208	56.7	58.5	50.0	61.7	193.3	125.3	136.0	217.3
	PMZ - 131	57.7	58.8	49.3	58.7	205.0	143.8	158.0	231.7
	NECH - 120	57.3	58.0	48.7	58.0	200.0	141.6	174.3	240.3
	NAVJOT	57.0	57.3	46.3	55.0	203.3	142.2	164.3	229.7
	KH 510	57.0	58.3	47.7	57.3	185.0	137.0	158.3	230.3
N180	HKH - 1208	57.0	54.5	50.3	59.7	198.3	118.2	144.3	192.0
	PMZ - 131	57.3	59.3	46.7	56.7	195.0	141.6	166.7	207.3
	NECH - 120	58.3	58.8	48.7	56.0	200.0	157.4	183.0	219.7
	NAVJOT	57.3	58.8	43.7	58.3	195.0	153.4	176.7	207.7
	KH 510	57.7	58.8	45.7	59.0	208.3	139.4	157.0	242.0

Location mean	56.7	58.3	48.9	58.1	198.2	137.8	156.2	220.7
C.D.(5%) A B A Bk	1.4	4.2	2.0	4.7	14.2	16.0	12.7	41.2
C.D.(5%) A Bk-A Bk	1.7	4.4	2.0	5.9	14.3	15.5	16.8	62.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

N60	55.4	58.6	51.3	58.9	198.0	133.8	145.0	218.4
N120	57.1	58.2	48.4	57.7	197.3	137.9	157.8	229.9
N180	57.5	58.0	47.0	57.5	199.3	141.6	165.9	213.7

C.D.(5%) A A	1.2	2.3	0.8	4.3	6.8	5.9	12.7	51.3
C.V.(%) Error A	2.0	5.0	1.7	7.3	3.4	5.5	8.0	22.9
F(5%)	s	n.s.	s	n.s.	n.s.	s	s	n.s.

HKH - 1208	56.6	57.1	51.1	61.0	196.7	116.5	133.8	197.7
PMZ - 131	56.8	58.8	49.3	57.3	200.6	141.0	159.2	219.8
NECH - 120	57.0	58.7	49.8	57.8	198.3	146.7	170.4	229.4
NAVJOT	56.6	58.3	46.1	56.0	199.4	147.5	163.6	223.8
KH 510	56.6	58.4	48.2	58.2	196.1	137.1	154.2	232.7

C.D.(5%) B B	0.8	2.4	1.2	2.7	8.2	9.2	7.3	23.8
C.V.(%) Error B	1.4	5.0	2.4	4.8	4.3	8.1	4.8	11.1
F(5%)	n.s.	n.s.	s	s	n.s.	s	s	s

Cont..

A - 7

Main Plot	Treatment	No. of Cobs (000/ha)			% of Barren Plants	Lodging (%) /plot
		Baharich	Jashipur	Varanasi	Varanasi	Varanasi
N60	HKH - 1208	77.8	31.7	39.1	0.4	0.0
	PMZ - 131	78.5	33.6	38.4	0.9	0.0
	NECH - 120	77.1	47.4	40.2	0.4	0.0
	NAVJOT	76.4	30.6	37.8	1.3	4.2
	KH 510	76.4	27.1	37.8	2.9	0.8
N120	HKH - 1208	77.1	29.2	37.3	2.7	1.1
	PMZ - 131	77.1	49.4	38.4	2.2	1.8
	NECH - 120	77.1	53.9	39.1	0.9	0.0
	NAVJOT	76.4	39.4	39.3	0.7	1.9
	KH 510	77.8	36.6	41.1	0.2	0.7
N180	HKH - 1208	77.8	37.5	41.8	1.1	1.5
	PMZ - 131	77.8	49.1	39.1	1.6	1.5
	NECH - 120	77.1	52.5	39.8	0.2	0.8
	NAVJOT	76.4	44.9	39.6	0.9	3.0
	KH 510	75.0	39.1	38.9	0.9	1.1

Location mean	77.0	40.1	39.2	1.2	1.2
C.D.(5%) A Bj-A Bk	2.8	8.7	3.8	2.1	2.4
C.D.(5%) A Bk-A Bj	3.6	8.3	4.5	2.2	2.5
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N60	77.2	34.1	38.7	1.2	1.0
N120	77.1	41.7	39.1	1.3	1.1
N180	76.8	44.6	39.8	0.9	1.6

C.D.(5%) A Aj	2.6	2.8	3.0	1.3	1.2
C.V.(%) Error A	3.4	6.9	7.6	109.0	96.4
F(5%)	n.s.	s	n.s.	n.s.	n.s.

HKH - 1208	77.5	32.8	39.4	1.4	0.9
PMZ - 131	77.8	44.0	38.7	1.6	1.1
NECH - 120	77.1	51.3	39.6	0.5	0.3
NAVJOT	76.4	38.3	38.9	1.0	3.0
KH 510	76.4	34.3	39.3	1.3	0.9

C.D.(5%) B Bj	1.6	5.1	2.2	1.2	1.4
C.V.(%) Error B	2.2	12.9	5.7	107.7	117.3
F(5%)	n.s.	s	n.s.	n.s.	s

A - 8

Table 5. Relative performance of pre release germplasm of Medium Maturity at different levels of Nitrogen during kharif 2004 in Zone IV

Main Plot	Treatment	Grain Yield (kg/ha)		Mean	Plant Stand (000/ha)	
		Kolhapur	Karimnagar		Kolhapur	Karimnagar
N-60	EC - 3121	1311	2413	1862	59.2	46.1
	BH - 2359	1489	2906	2197	61.9	46.8
	HKH - 1203	1222	2434	1828	59.4	47.0
	HKH - 1208	1083	2878	1981	57.5	55.2
	SEEDTEC - 1081	2400	4127	3263	60.6	47.8
	PMZ - 131	1583	3259	2421	52.8	51.2
	PMZ - 237	1889	2497	2193	62.5	46.6
	NAVJOT	2556	2540	2548	63.9	52.1
	KH 510	1722	2730	2226	61.1	44.4
	X - 26	1667	3090	2378	60.3	45.7
N-120	EC - 3121	1733	3259	2496	50.3	49.9
	BH - 2359	2667	3323	2995	64.2	53.8
	HKH - 1203	2167	3090	2628	59.4	56.5
	HKH - 1208	1833	3259	2546	60.3	49.7
	SEEDTEC - 1081	3111	3958	3534	59.2	54.0
	PMZ - 131	2778	2476	2627	57.8	54.0
	PMZ - 237	2833	2349	2591	55.6	44.7
	NAVJOT	3233	2794	3013	53.6	55.0
	KH 510	1722	3069	2396	49.4	41.9
	X - 26	3111	2688	2899	53.6	41.7
N-180	EC - 3121	3139	2857	2998	53.1	48.0
	BH - 2359	5489	4888	5178	60.8	51.0
	HKH - 1203	4028	4169	4099	53.9	54.4
	HKH - 1208	2461	4360	3410	49.4	60.5
	SEEDTEC - 1081	3389	5185	4287	51.1	52.7
	PMZ - 131	4917	3280	4099	59.2	55.0
	PMZ - 237	3444	2942	3193	51.7	54.0
	NAVJOT	3378	3302	3340	48.9	47.2
	KH 510	3917	3429	3673	56.7	44.9
	X - 26	4222	2942	3582	60.3	50.6

Location mean	3009.3	3293.3		57.4	51.2
C.D.(5%) AiBj-AiBk	1062.3	479.2		7.4	7.6
C.D.(5%) AiBk-AjBk	1330.3	1001.8		9.0	9.0
F(5%)	s	s		s	s

N-60	1848	2939	2394	60.4	49.3
N-120	2910	3115	3012	57.4	51.3
N-180	4270	3825	4048	54.3	53.0

C.D.(5%) Ai-Aj	872.3	900.7		5.7	5.3
C.V.(%) Error A	49.5	46.7		16.8	17.8
F(5%)	s	n.s.		n.s.	n.s.

Cont.

A - 9

EC - 3121	2061	2843	2452	54.2	48.0
BH - 2359	3215	3899	3457	62.3	50.5
HKH - 1203	2472	3231	2852	57.6	52.6
HKH - 1208	1793	3499	2646	55.7	55.2
SEEDTEC - 1081	2967	4423	3695	56.9	51.5
PMZ - 131	3093	3005	3049	56.6	53.4
PMZ - 237	2722	2596	2659	56.6	48.4
NAVJOT	3056	2878	2967	55.5	51.4
KH 510	2454	3076	2765	55.7	43.7
X - 26	3000	2907	2953	58.1	46.0

C.D.(5%) A1-Aj	613.3	276.7	4.3	4.4
C.V.(%) Error A	21.7	8.9	7.9	9.2
F(5%)	s	s	n.s.	s

Main Plot	Treatment	Plant Height (cm)		No of Cobs (000/ha)		Days to 50% Silking
		Kolhapur	Karimnagar	Kolhapur	Karimnagar	Kolhapur
N-60	EC - 3121	131.3	168.0	46.1	42.1	61.3
	BH - 2359	140.7	166.3	48.1	46.8	64.7
	HKH - 1203	135.3	158.0	42.8	43.6	64.0
	HKH - 1208	127.3	135.0	48.3	47.0	64.7
	SEEDTEC - 1081	140.3	162.7	51.4	45.9	64.7
	PMZ - 131	143.7	151.3	40.8	48.3	63.3
	PMZ - 237	127.7	157.7	53.1	46.1	63.0
	NAVJOT	155.3	166.3	50.6	46.3	60.3
	KH 510	133.0	162.3	49.7	42.3	61.7
	X - 26	139.3	178.7	56.7	41.9	61.7
N-120	EC - 3121	152.7	166.7	42.8	44.7	60.7
	BH - 2359	157.0	174.0	59.7	47.6	64.0
	HKH - 1203	148.0	150.7	49.7	49.3	63.3
	HKH - 1208	123.7	133.7	56.1	44.4	63.7
	SEEDTEC - 1081	150.0	159.7	53.9	51.0	61.7
	PMZ - 131	147.7	165.3	50.6	43.4	60.7
	PMZ - 237	154.0	168.0	49.4	40.0	60.7
	NAVJOT	134.3	160.7	47.5	50.2	60.3
	KH 510	146.7	165.3	48.9	38.7	62.3
	X - 26	150.7	170.7	51.9	46.3	61.0
N-180	EC - 3121	163.3	180.0	51.9	41.1	57.0
	BH - 2359	174.3	174.7	57.2	60.5	64.0
	HKH - 1203	155.3	168.0	54.2	48.3	62.7
	HKH - 1208	124.7	149.0	48.6	53.8	63.0
	SEEDTEC - 1081	141.3	158.7	45.3	53.1	63.7
	PMZ - 131	163.3	131.3	54.7	50.6	61.0
	PMZ - 237	156.3	166.3	52.8	48.9	62.0
	NAVJOT	155.3	170.3	52.2	45.7	58.0
	KH 510	162.7	160.7	51.4	44.4	59.7
	X - 26	159.7	162.0	63.6	47.0	61.0

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A - 10

Location mean	149.1	164.0	52.0	47.5	62.0
C.D.(5%) AiBj-AiBk	28.3	16.8	10.0	8.9	2.1
C.D.(5%) AiBk-AjBk	28.8	16.8	10.3	11.1	2.5
F(5%)	n.s.	n.s.	n.s.	n.s.	s

N-60	140.1	163.1	49.5	45.9	63.2
N-120	149.7	163.9	52.9	46.4	61.5
N-180	157.3	164.9	53.8	50.1	61.2

C.D.(5%) Ai-Aj	9.6	4.7	3.8	7.3	1.4
C.V.(%) Error A	11.0	4.9	12.4	26.2	3.9
F(5%)	s	n.s.	n.s.	n.s.	s

EC - 3121	149.1	171.6	46.9	42.6	59.7
BH - 2359	157.3	171.7	55.0	51.6	64.2
HKH - 1203	146.2	158.9	48.9	47.1	63.3
HKH - 1208	125.2	139.2	51.0	48.4	63.8
SEEDTEC - 1081	143.9	160.3	50.2	50.0	63.3
PMZ - 131	151.6	149.3	48.7	47.4	61.7
PMZ - 237	146.0	164.0	51.8	45.0	61.9
NAVJOT	148.3	165.8	50.1	47.4	59.6
KH 510	147.4	162.8	50.0	41.8	61.2
X - 26	149.9	170.4	57.4	45.1	61.2

C.D.(5%) Ai-Aj	16.3	9.7	5.8	5.1	1.2
C.V.(%) Error A	11.7	6.3	11.8	11.5	2.1
F(5%)	s	s	s	s	s

A - 11

Table 8. Relative performance of pre release germplasm of Medium maturity at Different levels of Nitrogen during kharif 2004 in Zone V

Main Plot	Treatment	Grain Yield (kg/ha)		Mean	No. of Cobs/Plot		Days to 50% Silk	
		Udaipur	Chindwara		Udaipur	Chindwara	Udaipur	Chindwara
N60	SEEDTEC - 1081	5832	6144	5988	66.3	55.6	59.0	59.0
	PMZ - 237	5018	4870	4944	59.0	58.1	57.0	59.3
	NAVJOT	3120	3793	3456	47.3	53.0	54.0	56.3
	KH 510	4098	5319	4708	54.7	59.3	56.0	57.7
	X - 26	3712	4867	4289	54.0	56.7	57.0	57.3
N120	SEEDTEC - 1081	6320	6967	6643	66.7	58.1	59.0	58.3
	PMZ - 237	5535	5078	5306	58.0	58.5	58.0	57.0
	NAVJOT	3762	3896	3829	46.7	57.4	55.0	55.7
	KH 510	4465	5804	5134	53.3	60.4	57.0	54.7
	X - 26	4435	5081	4758	53.7	57.8	58.0	56.3
N180	SEEDTEC - 1081	6543	7193	6868	64.3	64.4	60.0	58.3
	PMZ - 237	5612	5807	5710	58.0	61.9	59.0	56.7
	NAVJOT	3822	4063	3942	48.5	63.0	54.8	54.3
	KH 510	4778	6070	5424	54.2	64.8	58.0	55.7
	X - 26	4511.7	5266.7	4889.2	53.3	60.7	58.3	55.3

Location mean	5119.7	5808.5		57.8	60.5	56.4	57.0
C.D.(5%) AIBj-AIBk	782.5	928.4		8.5	8.3	4.8	1.8
C.D.(5%) AIBk-AjBk	824.3	1060.1		9.2	8.6	5.1	2.1
F(5%)	n.s.	n.s.		n.s.	n.s.	n.s.	n.s.

N60		4690	5459	5074	58.0	58.3	55.7	58.0
N120		5273	5875	5574	57.8	60.0	56.4	56.6
N180		5396	6092	5744	57.6	63.1	57.1	56.3

C.D.(5%) AI-Aj	363.6	608.9		4.6	3.6	2.5	1.3
C.V.(%) Error A	13.0	14.6		14.4	8.3	8.1	3.2
F(5%)	s	n.s.		n.s.	s	n.s.	s

SEEDTEC - 1081	6232	6768	6500	65.8	59.4	59.3	58.6
PMZ - 237	5388	5252	5320	58.3	59.5	58.0	57.7
NAVJOT	3568	3917	3743	47.5	57.8	54.6	55.4
KH 510	4447	5731	5089	54.1	61.5	57.0	56.0
X - 26	4219	5072	4646	53.7	58.4	57.8	56.3

C.D.(5%)BI-Bj	451.8	536.0		4.9	4.8	2.7	1.0
C.V.(%)ErrorB	10.8	9.8		10.4	8.4	6.0	1.9
F(5%)	s	s		s	s	s	s

A - 12

Main Plot	Treatment	Plant height (cm)		Plant Stand (000/ha)		PFSR affected Plant/Plot	No. of Barren Plants
		Udaipur	Chindwara	Udaipur	Chindwara		
N60	SEEDTEC - 1081	221.8	163.0	62.7	63.0	3.5	0.5
	PMZ - 237	230.3	181.3	62.8	58.1	3.8	1.5
	NAVJOT	234.0	177.3	62.0	61.5	20.7	3.7
	KH 510	230.3	171.3	62.8	64.8	1.0	1.8
	X - 26	231.0	168.7	61.3	60.7	6.5	2.5
N120	SEEDTEC - 1081	250.5	177.3	62.7	60.0	3.5	0.7
	PMZ - 237	260.3	184.0	63.0	63.0	2.8	1.5
	NAVJOT	264.8	182.7	62.0	64.4	20.7	2.8
	KH 510	240.3	172.3	62.8	67.4	1.0	2.3
	X - 26	255.3	179.3	61.3	62.2	6.5	2.2
N180	SEEDTEC - 1081	254.3	178.7	62.2	62.6	4.2	0.3
	PMZ - 237	264.8	191.7	62.2	65.2	5.2	1.7
	NAVJOT	274.5	182.7	61.3	65.2	22.8	3.0
	KH 510	245.0	176.0	62.5	67.8	2.2	2.7
	X - 26	260.3	187.3	61.3	61.9	6.7	2.2

Location mean	244.9	180.0	62.0	63.8	5.6	1.8
C.D.(5%) A _{ij} -A _{ik}	40.1	18.6	4.9	6.3	1.0	1.1
C.D.(5%) A _{ik} -A _{jk}	41.3	19.7	5.5	6.1	1.0	1.1
F(5%)	n.s.	n.s.	n.s.	n.s.	s	n.s.

N60	227.1	174.6	62.2	62.1	5.3	1.8
N120	251.4	180.5	62.2	63.7	5.2	1.8
N180	256.3	184.9	61.7	65.6	6.3	1.9

C.D.(5%) A _i -A _j	16.3	9.1	2.8	1.3	0.3	0.4
C.V.(%) Error A	12.2	7.0	8.4	2.7	8.3	41.8
F(5%)	s	n.s.	n.s.	s	s	n.s.

SEEDTEC - 1081	242.2	173.0	62.5	61.9	3.7	0.5
PMZ - 237	251.8	185.7	62.7	62.1	3.9	1.6
NAVJOT	257.8	180.9	61.8	63.7	21.4	3.2
KH 510	238.5	173.2	62.7	66.7	1.4	2.3
X - 26	248.8	178.4	61.3	61.6	6.6	2.3

C.D.(5%) B _i -B _j	23.1	10.8	2.9	3.6	0.6	0.6
C.V.(%) Error B	11.6	6.3	5.6	6.0	13.3	43.2
F(5%)	n.s.	s	n.s.	s	s	s

A - 13

Table 7. Relative performance of pre germplasm of Early maturity group at Different levels of Nitrogen during Kharif 2004 in Zone II

Main Plot	Treatment	Grain Yield kg/ha				Mean	Plant height (cm)		
		Delhi	Ludhiana	Karnal	Kanpur		Delhi	Ludhiana	Kanpur
40 kg	JH - 3851	6133	5282	4007	4722	5036	160.0	168.3	145.0
	PMZ - 138	4800	3255	2947	4667	3917	149.7	136.7	143.3
	JKMH - 810	5733	4669	3510	4278	4548	153.3	166.7	146.7
	MCH - 5	4756	4986	3573	4639	4488	151.7	146.7	145.0
	MAHI KANCHAN	4578	2956	1620	4333	3372	171.7	176.7	148.7
	PARKASH	5956	4275	3203	4889	4581	180.3	170.0	147.0
	X - 2182	5689	4470	4047	4556	4690	176.3	183.3	148.3
100kg	JH - 3851	6533	6449	5200	5611	5948	166.7	175.0	145.0
	PMZ - 138	5644	4444	4093	5611	4948	160.7	150.0	144.7
	JKMH - 810	6533	5683	4647	5028	5473	163.0	176.7	150.3
	MCH - 5	5467	5664	4647	5417	5299	161.7	156.7	152.0
	MAHI KANCHAN	5022	4053	2380	4750	4051	187.0	188.3	146.0
	PARKASH	6222	5764	3963	5528	5369	182.7	180.0	149.0
	X - 2182	6089	5625	4897	5278	5472	184.0	191.7	151.3
160kg	JH - 3851	6844	6938	6757	6111	6662	177.7	185.0	144.0
	PMZ - 138	6044	5292	4260	6500	5522	172.0	161.7	147.7
	JKMH - 810	6800	5847	6153	5833	6158	172.7	183.3	151.3
	MCH - 5	6000	5833	6150	5917	5975	171.0	166.7	147.3
	MAHI KANCHAN	5511	4373	4027	5722	4908	194.3	196.7	153.0
	PARKASH	6533	5977	4287	6556	5838	195.3	193.3	157.3
	X - 2182	6311	6076	5740	5778	5976	193.7	196.7	148.0

Location mean	5935.8	5094.5	4142.1	5364.2		174.6	175.8	148.8
C.D.(5%) A B A Bk	463.3	941.3	342.6	189.6		4.0	5.2	4.2
C.D.(5%) A Bk-A Bk	460.9	999.3	377.3	221.1		4.3	6.5	7.0
F(5%)	n.s.	n.s.	s	s		s	n.s.	s

N-40	5452	4221	3072	4660	4351	184.6	165.9	146.8
N-100	5990	5351	4156	5392	5222	175.0	175.9	149.4
N-160	6365	5711	5198	6040	5829	184.2	185.6	150.2

C.D.(5%) A A	152.7	475.2	201.4	134.1		2.1	4.4	5.9
C.V.(%) Error A	3.4	12.3	6.4	3.3		1.6	3.3	5.2
F(5%)	s	s	s	s		s	s	n.s.

JH - 3851	6504	6223	5321	5481	5882	168.1	176.1	144.7
PMZ - 138	5496	4330	3763	5593	4796	160.8	149.4	145.2
JKMH - 810	6356	5400	4770	5046	5393	163.0	175.6	149.4
MCH - 5	5407	5495	4790	5324	5254	161.4	156.7	148.1
MAHI KANCHAN	5037	3794	2676	4935	4110	184.3	187.2	149.2
PARKASH	6237	5339	3818	5657	5263	186.1	181.1	151.1
X - 2182	6030	5390	4894	5204	5380	184.7	190.6	149.2

C.D.(5%) B B	267.5	543.5	197.8	109.5		2.3	3.0	2.4
C.V.(%) Error B	4.7	11.2	5.0	2.2		1.4	1.8	1.7
F(5%)	s	s	s	s		s	s	s

Cont..

A - 14

Main Plot	Treatment	Days to 50% silking			Plant Stand 000/ha			
		Ludhiana	Karnal	Kanpur	Delhi	Ludhiana	Kanpur	Karnal
40 kg	JH - 3851	51.7	63.7	59.0	66.2	71.3	53.9	43.0
	PMZ - 138	56.3	63.3	58.0	66.7	65.3	53.9	43.3
	JKMH - 810	52.7	64.3	61.0	66.7	72.2	53.1	44.0
	MCH - 5	55.7	64.7	60.7	66.2	70.4	51.7	42.7
	MAHI KANCHAN	51.0	64.0	61.7	65.8	67.6	53.6	42.7
	PARKASH	52.0	65.0	58.0	66.7	66.0	52.2	42.7
	X - 2182	55.3	64.7	61.0	66.7	68.3	53.9	42.3
	100kg	JH - 3851	50.7	63.3	58.3	66.7	71.1	59.4
PMZ - 138		54.0	62.3	59.0	65.8	67.6	59.4	44.3
JKMH - 810		51.7	63.3	59.7	66.7	68.8	55.8	43.7
MCH - 5		53.0	63.7	57.3	66.7	73.4	51.7	43.7
MAHI KANCHAN		49.3	63.0	58.0	65.8	64.8	50.6	44.0
PARKASH		49.3	64.0	56.3	66.7	69.4	55.6	43.0
X - 2182		52.7	62.7	57.3	66.2	67.1	53.1	43.7
160kg		JH - 3851	50.0	62.3	54.7	65.8	71.8	63.9
	PMZ - 138	53.3	61.3	61.0	66.7	67.1	63.1	43.3
	JKMH - 810	50.7	62.3	60.3	66.2	69.7	56.7	44.3
	MCH - 5	52.7	62.7	58.7	66.7	71.8	53.6	44.0
	MAHI KANCHAN	48.0	62.0	58.3	66.7	67.4	53.9	43.7
	PARKASH	48.3	63.0	60.7	66.7	68.8	61.9	43.7
	X - 2182	51.0	62.0	55.3	66.2	69.2	56.9	42.7

Location mean	51.9	63.2	58.6	66.3	67.6	54.9	43.3
C.D.(5%) AiBj-AiBk	1.4	1.3	3.0	1.1	5.3	2.8	1.5
C.D.(5%) AiBk-AjBk	1.5	1.4	4.4	1.2	5.6	3.8	1.5
F(5%)	n.s.	n.s.	s	n.s.	n.s.	s	n.s.

N-40	53.4	64.1	59.6	66.3	67.1	52.8	42.7
N-100	51.6	63.3	58.1	66.3	67.5	54.3	43.5
N-160	50.7	62.3	58.1	66.3	68.2	57.7	43.6

C.D.(5%) Ai-Aj	0.7	0.6	3.4	0.5	2.7	2.7	0.7
C.V.(%) Error A	1.7	1.3	7.7	1.0	5.4	6.6	2.0
F(5%)	s	s	n.s.	n.s.	n.s.	s	s

JH - 3851	50.8	63.1	57.3	66.2	71.4	59.1	43.1
PMZ - 138	54.6	62.3	59.3	66.4	66.7	58.8	43.7
JKMH - 810	51.7	63.3	60.3	66.5	70.2	55.2	44.0
MCH - 5	53.8	63.7	58.9	66.5	71.8	52.3	43.4
MAHI KANCHAN	49.4	63.0	59.3	66.1	66.6	52.7	43.4
PARKASH	49.9	64.0	58.3	66.7	66.1	56.6	43.1
X - 2182	53.0	63.1	57.9	66.4	68.2	54.6	42.9

C.D.(5%)Bi-Bj	0.8	0.7	1.7	0.7	3.1	1.6	0.9
C.V.(%)ErrorB	1.7	1.2	3.1	1.1	4.6	3.2	2.1
F(5%)	s	s	s	n.s.	s	s	n.s.

Cont..

A - 15

Main Plot	Treatment	Ear No./Plot			Moisture (%)	Days to Dry Husk	Days to 50% Anthesis	Ear height (cm)
		Ludhiana	Kanpur	Delhi				
					Karnal	Karnal	Kanpur	Kanpur
40 kg	JH - 3851	72.9	52.2	66.2	14.7	94.3	55.0	131.7
	PMZ - 138	64.4	52.2	66.7	14.7	95.3	53.7	131.3
	JKMH - 810	70.6	51.9	66.7	14.7	95.3	57.0	132.3
	MCH - 5	71.8	50.3	66.2	15.0	94.3	57.0	133.0
	MAHI KANCHAN	58.8	52.5	65.8	15.0	94.7	58.0	134.3
	PARKASH	61.1	51.1	66.7	14.7	95.3	54.0	132.3
	X - 2182	61.3	52.5	66.7	14.3	95.0	57.0	136.7
100kg	JH - 3851	71.5	57.8	66.7	14.7	93.3	54.0	134.7
	PMZ - 138	66.4	57.8	65.8	15.3	94.7	54.7	131.0
	JKMH - 810	69.2	54.4	66.7	15.3	94.3	56.0	131.3
	MCH - 5	73.8	50.0	66.7	15.3	93.3	53.0	132.7
	MAHI KANCHAN	62.0	49.4	65.8	14.7	93.7	55.7	131.0
	PARKASH	69.7	54.2	66.7	15.0	94.3	52.3	127.0
	X - 2182	65.5	51.7	66.2	15.0	94.3	54.0	131.3
160kg	JH - 3851	71.8	62.2	65.8	15.0	92.3	51.7	131.3
	PMZ - 138	65.5	61.7	66.7	15.7	93.0	57.7	132.3
	JKMH - 810	68.8	55.3	66.2	15.3	94.0	56.7	134.3
	MCH - 5	72.5	52.5	66.7	15.0	92.3	54.7	129.0
	MAHI KANCHAN	66.4	52.5	66.7	15.3	93.0	55.0	136.0
	PARKASH	69.0	60.6	66.7	15.0	93.7	57.7	131.3
	X - 2182	67.8	55.8	66.2	15.7	93.7	51.0	134.3

Location mean	66.3	53.5	66.3	15.0	94.0	55.0	132.6
C.D.(5%) AIBj-AIBk	4.9	3.1	1.1	0.9	1.1	2.5	5.2
C.D.(5%) AIBk-AjBk	5.1	4.4	1.2	0.9	1.1	3.0	6.2
F(5%)	n.s.	s	n.s.	n.s.	n.s.	s	n.s.

N-40		65.0	51.1	66.3	14.7	95.0	55.6	133.1
N-100		66.8	52.9	66.3	15.0	94.1	54.5	131.8
N-160		67.2	56.4	66.3	15.4	93.1	54.8	132.7

C.D.(5%) Ai-Aj	2.2	3.4	0.5	0.335792	0.2	1.8	4.0
C.V.(%) Error A	4.5	8.3	1.0	2.958094	0.3	4.4	4.0
F(5%)	n.s.	s	n.s.	s	s	n.s.	n.s.

JH - 3851	72.1	57.4	66.2	14.8	93.3	53.6	132.6
PMZ - 138	65.4	57.2	66.4	15.2	94.3	55.3	131.6
JKMH - 810	69.5	53.9	66.5	15.1	94.6	56.6	132.7
MCH - 5	72.7	50.9	66.5	15.1	93.3	54.9	131.6
MAHI KANCHAN	62.4	51.5	66.1	15.0	93.8	56.2	133.8
PARKASH	66.6	55.3	66.7	14.9	94.4	54.7	130.2
X - 2182	64.9	53.3	66.4	15.0	94.3	54.0	134.1

C.D.(5%)Bi-Bj	2.8	1.8	0.7	0.5	0.62711	1.5	3.0
C.V.(%)ErrorB	4.5	3.5	1.1	3.8	0.70267	2.8	2.4
F(5%)	s	s	n.s.	n.s.	s	s	n.s.

Cont..

A - 16

Main Plot	Treatment	% of Barren Plant/Plot	
		Kanpur	Delhi
40 kg	JH - 3851	2.0	9.9
	PMZ - 138	2.0	11.1
	JKMH - 810	2.0	8.6
	MCH - 5	1.7	9.0
	MAHI KANCHAN	1.3	9.7
	PARKASH	1.3	10.4
	X - 2182	1.7	10.3
100kg	JH - 3851	2.0	12.0
	PMZ - 138	2.0	12.4
	JKMH - 810	1.7	10.0
	MCH - 5	2.0	11.0
	MAHI KANCHAN	1.3	11.0
	PARKASH	1.7	12.0
	X - 2182	1.7	11.8
160kg	JH - 3851	2.0	12.9
	PMZ - 138	1.7	13.6
	JKMH - 810	1.7	11.6
	MCH - 5	1.3	12.2
	MAHI KANCHAN	1.7	11.6
	PARKASH	1.7	13.1
	X - 2182	1.3	12.6

Location mean	1.7	11.3
C.D.(5%) AIBj-AIBk	1.0	0.8
C.D.(5%) AIBk-AjBk	1.0	0.9
F(5%)	n.s.	n.s.

N-40	1.7	10.0
N-100	1.7	11.5
N-160	1.6	12.6

C.D.(5%) Ai-Aj	0.3	0.6
C.V.(%) Error A	23.1	6.6
F(5%)	n.s.	s

JH - 3851	2.0	11.6
PMZ - 138	1.9	12.4
JKMH - 810	1.8	10.1
MCH - 5	1.7	10.7
MAHI KANCHAN	1.4	10.8
PARKASH	1.6	11.8
X - 2182	1.6	11.5

C.D.(5%) BI-Bj	0.6	0.4
C.V.(%) Error B	38.2	4.1
F(5%)	n.s.	s

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Table 8. Relative performance of pre release germplasm of (Early Maturity) at Different levels of Nitrogen during kharif 2004 in Zone III

Main Plot	Germplasm	Grain Yield (kg/ha)					Mean
		Ambikapur	Baharich	Dholi	Jashipur	Varanasi	
N40	JH - 3851	3979	3021	2633	3053	2778	3093
	MCH - 6	4025	3007	1717	1920	3444	2823
	MAHI KANCHAN	4271	2743	1350	1123	2000	2297
	PARKASH	4075	2694	2233	1977	2778	2751
	X - 2182	3892	2889	2433	2123	2978	2863
N100	JH - 3851	4563	4625	3367	5593	3511	4332
	MCH - 6	4625	4910	1667	5223	3378	3961
	MAHI KANCHAN	4792	4736	1933	3623	2622	3541
	PARKASH	4646	4792	2683	5390	3689	4240
	X - 2182	4417	4694	2333	3643	3222	3662
N160	JH - 3851	4750	6375	3850	4967	4089	4806
	MCH - 6	4854	6736	1700	4700	4511	4500
	MAHI KANCHAN	5100	6243	1983	3047	2778	3830
	PARKASH	4938	6521	3217	5383	3933	4798
	X - 2182	4613	6188	1833	4627	3556	4163

Location mean	4508.0	4804.7	2453.5	3896.1	3382.4
C.D.(5%) A Bj-A Bk	612.8	385.9	821.7	889.4	679.1
C.D.(5%) A Bk-A Bj	654.3	393.2	1558.0	851.5	683.6
F(5%)	n.s.	s	n.s.	s	n.s.

N40	3980	2938	2115	2090	2933	2811
N100	4644	4828	2573	4744	3383	4034
N160	4900	6648	2673	4855	3831	4581

C.D.(5%) A A	326.0	161.4	1362.6	188.5	261.8
C.V.(%) Error A	9.0	4.2	90.8	6.0	9.7
F(5%)	s	s	n.s.	s	s

JH - 3851	4431	4674	3283	4538	3459	4077
MCH - 6	4501	4884	1694	3948	3778	3761
MAHI KANCHAN	4721	4574	1756	2598	2467	3223
PARKASH	4553	4669	2711	4250	3467	3930
X - 2182	4307	4590	2200	3464	3252	3563

C.D.(5%) B Bj	353.8	222.8	474.4	513.5	392.1
C.V.(%) Error B	8.2	4.9	23.7	13.8	12.2
F(5%)	s	s	s	s	s

Cont..

A - 18

Main Plot	Germplasm	Plant Stand (000/ha)				
		Ambikapur	Beharich	Dholi	Jashipur	Varanasi
N40	JH - 3851	79.3	75.7	33.2	58.6	38.9
	MCH - 6	77.4	75.0	31.2	48.8	38.9
	MAHI KANCHAN	79.3	77.1	24.8	50.2	39.1
	PARKASH	76.5	77.1	37.5	46.8	36.7
	X - 2182	77.2	77.8	32.5	54.2	38.0
N100	JH - 3851	77.6	75.7	32.2	56.5	39.1
	MCH - 6	74.9	77.8	32.5	54.8	38.4
	MAHI KANCHAN	76.5	74.3	29.2	53.0	37.1
	PARKASH	80.1	76.4	31.8	53.0	38.4
	X - 2182	79.4	77.1	29.2	52.6	37.6
N160	JH - 3851	78.5	76.4	37.8	52.8	39.6
	MCH - 6	77.5	76.4	26.5	55.3	39.8
	MAHI KANCHAN	80.4	77.8	30.2	52.8	37.1
	PARKASH	78.5	77.8	38.5	54.4	38.7
	X - 2182	77.4	76.4	24.2	53.3	39.3

Location mean	78.2	76.4	31.8	53.6	38.6
C.D.(5%) A B A Bk	3.7	2.8	8.5	5.5	2.7
C.D.(5%) A Bk-A Bk	3.9	2.8	12.2	7.4	2.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N40	78.1	76.3	31.7	52.2	38.7
N100	77.7	76.2	31.9	54.5	38.2
N160	78.7	76.7	31.9	54.2	38.9

C.D.(5%) A A	1.8	0.9	9.4	5.5	1.0
C.V.(%) Error A	2.9	1.4	48.1	12.8	3.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

JH - 3851	78.5	75.9	34.4	55.9	39.2
MCH - 6	76.6	76.4	30.1	52.9	39.0
MAHI KANCHAN	78.8	76.4	28.1	52.0	37.8
PARKASH	78.4	77.1	35.9	51.4	37.9
X - 2182	78.0	77.1	28.6	53.3	38.3

C.D.(5%) B B	2.1	1.6	4.9	3.2	1.5
C.V.(%) Error B	2.9	2.3	18.9	6.2	4.2
F(5%)	n.s.	n.s.	s	n.s.	n.s.

Cont.

A - 19

Main Plot	Germplasm	Days to 50% Silking				
		Ambikapur	Baharich	Dholi	Jashipur	Varanasi
N40	JH - 3851	53.7	51.0	56.8	50.0	60.0
	MCH - 6	53.3	51.3	56.5	51.7	57.7
	MAHI KANCHAN	53.7	51.0	55.0	48.0	57.0
	PARKASH	52.3	51.0	54.3	49.0	54.3
	X - 2182	54.0	52.3	56.5	50.7	59.3
N100	JH - 3851	56.3	51.0	56.0	45.7	58.7
	MCH - 6	52.3	51.0	57.5	47.0	58.0
	MAHI KANCHAN	55.7	50.7	56.5	42.3	56.3
	PARKASH	53.7	51.0	53.8	43.3	56.7
	X - 2182	54.0	52.0	55.5	50.0	58.3
N160	JH - 3851	54.7	51.7	50.0	47.0	57.7
	MCH - 6	53.3	50.0	54.5	46.3	58.3
	MAHI KANCHAN	56.3	51.3	56.0	43.3	58.0
	PARKASH	55.3	51.3	52.8	42.7	54.7
	X - 2182	56.3	51.7	56.3	49.0	58.7

Location mean	54.5	51.2	55.4	47.2	57.6
C.D.(5%) AIBJ-AIBk	3.6	1.3	3.7	2.2	4.5
C.D.(5%) AIBk-AJBk	3.8	1.2	4.0	2.5	4.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N40	53.7	51.2	56.0	50.0	57.9
N100	54.6	51.2	55.8	45.9	57.3
N160	55.3	51.1	54.5	45.7	57.6

C.D.(5%) AI-AJ	2.0	0.2	2.0	1.5	2.2
C.V.(%) Error A	4.5	0.6	5.9	3.9	4.8
F(5%)	n.s.	n.s.	n.s.	s	n.s.

JH - 3851	54.9	51.2	54.3	47.6	58.8
MCH - 6	53.0	50.8	56.2	48.3	56.0
MAHI KANCHAN	55.2	51.0	55.8	44.6	57.1
PARKASH	53.8	51.1	53.6	45.0	55.2
X - 2182	54.8	52.0	56.1	49.9	58.8

C.D.(5%) BI-Bj	2.1	0.7	2.1	1.3	2.6
C.V.(%) Error B	4.0	1.5	4.7	2.9	4.7
F(5%)	n.s.	s	n.s.	s	n.s.

Cont..

A - 20

Main Plot	Germplasm	Plant Height (cm)				
		Ambikapur	Beharich	Dholi	Jashipur	Varanasi
N40	JH - 3851	217.9	156.7	136.9	142.3	207.0
	MCH - 6	212.1	160.0	129.4	141.7	212.3
	MAHI KANCHAN	225.8	155.0	132.0	149.7	220.0
	PARKASH	221.8	168.3	126.2	143.0	207.3
	X - 2182	216.5	170.0	137.7	148.7	227.3
N100	JH - 3851	220.8	175.0	131.6	156.0	225.3
	MCH - 6	218.8	171.7	130.8	156.0	218.3
	MAHI KANCHAN	231.2	173.3	139.7	162.0	236.0
	PARKASH	194.5	161.7	132.5	157.3	235.3
	X - 2182	225.2	173.3	136.4	156.3	242.3
N160	JH - 3851	224.8	188.3	140.7	154.3	222.3
	MCH - 6	222.9	196.7	145.6	156.0	228.0
	MAHI KANCHAN	239.5	198.3	148.9	159.7	251.0
	PARKASH	230.8	190.0	140.3	152.3	246.3
	X - 2182	229.5	185.0	144.8	171.3	238.7

Location mean	223.9	177.4	138.0	152.1	230.0
C.D.(5%) A B A Bk	34.7	11.7	10.0	16.9	12.6
C.D.(5%) A Bk-A Bk	33.0	11.0	15.9	18.9	20.4
F(5%)	n.s.	s	n.s.	n.s.	n.s.

N40	219.6	161.7	134.4	142.9	219.2
N100	221.3	175.4	135.7	154.4	233.2
N160	230.9	195.2	143.9	159.0	237.7

C.D.(5%) Ai-Aj	6.0	1.5	13.0	10.8	17.0
C.V.(%) Error A	3.3	1.1	15.3	8.8	9.2
F(5%)	s	s	n.s.	s	n.s.

JH - 3851	221.2	173.3	136.4	150.9	218.2
MCH - 6	217.9	176.1	135.3	151.2	219.6
MAHI KANCHAN	232.2	175.6	140.2	157.1	235.7
PARKASH	215.7	180.0	133.0	150.9	229.7
X - 2182	223.7	176.1	140.3	158.8	236.1

C.D.(5%) BI-BJ	20.0	6.7	5.8	9.7	7.3
C.V.(%) Error B	9.4	4.0	5.1	6.7	3.3
F(5%)	n.s.	n.s.	s	n.s.	s

Cont.

A - 21

Main Plot	Germplasm	No. of Cobs (000/ha)			
		Ambikapur	Baharich	Jashipur	Varanasi
N40	JH - 3851	75.7	76.4	38.9	39.1
	MCH - 6	75.8	76.4	33.3	40.2
	MAHI KANCHAN	77.8	78.5	35.6	38.9
	PARKASH	76.7	77.8	29.9	36.7
	X - 2182	73.1	78.5	26.4	37.8
N100	JH - 3851	74.6	77.8	44.9	39.1
	MCH - 6	72.5	77.8	44.2	39.6
	MAHI KANCHAN	74.3	77.8	35.2	37.8
	PARKASH	78.2	76.4	44.9	39.1
	X - 2182	77.2	78.5	28.2	37.8
N160	JH - 3851	76.1	77.8	42.6	41.1
	MCH - 6	74.9	77.8	51.4	40.7
	MAHI KANCHAN	76.9	79.2	32.6	38.2
	PARKASH	73.9	77.8	48.8	38.7
	X - 2182	74.4	79.2	35.6	39.8

Location mean	75.6	77.7	39.0	39.1
C.D.(5%) AIBj-AIBk	4.3	2.2	9.8	2.6
C.D.(5%) AIBk-AJBk	4.2	2.3	10.1	2.9
F(5%)	n.s.	n.s.	n.s.	n.s.

N40	76.1	77.4	33.2	38.8
N100	75.5	77.5	41.1	38.7
N160	75.3	78.3	42.7	39.7

C.D.(5%) Ai-Aj	1.4	1.0	4.3	1.6
C.V.(%) Error A	2.3	1.8	13.8	5.1
F(5%)	n.s.	n.s.	s	n.s.

JH - 3851	75.5	77.3	42.1	39.8
MCH - 6	74.4	77.3	43.0	40.1
MAHI KANCHAN	76.3	78.5	34.5	38.3
PARKASH	76.3	77.3	41.2	38.1
X - 2182	74.9	78.7	30.1	38.4

C.D.(5%) BI-Bj	2.5	1.3	5.6	1.5
C.V.(%) Error B	3.4	1.8	15.2	4.0
F(5%)	s	n.s.	s	s

Cont..

A - 22

Main Plot	Germplasm	No. of Barren Plants		Days to 50% Tassel in g		Lodging (%) /plot	
				Ambikapur	Varanasi	Ambikapur	Varanasi
		Ambikapur	Varanasi	Ambikapur	Varanasi	Ambikapur	Varanasi
N40	JH - 3851	2.8	0.2	51.0	0.4		
	MCH - 6	1.7	0.0	49.7	0.7		
	MAHI KANCHAN	2.6	0.2	52.0	2.4		
	PARKASH	1.8	0.2	49.3	4.0		
	X - 2182	4.3	0.2	51.3	0.4		
N100	JH - 3851	3.1	0.2	54.3	0.0		
	MCH - 6	2.4	0.0	50.7	0.0		
	MAHI KANCHAN	2.2	0.2	52.3	1.2		
	PARKASH	1.9	0.4	51.7	0.7		
	X - 2182	2.2	0.4	52.0	0.8		
N160	JH - 3851	3.2	0.0	51.3	0.0		
	MCH - 6	2.5	0.0	50.7	0.0		
	MAHI KANCHAN	2.4	0.2	55.3	5.3		
	PARKASH	2.6	0.0	53.3	2.6		
	X - 2182	2.8	0.2	54.0	2.3		

Location mean	2.5	0.2	52.2	1.2
C.D.(5%) A _i B _j -A _i B _k	1.9	0.7	3.7	3.6
C.D.(5%) A _i B _k -A _j B _k	1.8	0.7	3.6	3.7
F(5%)	n.s.	n.s.	n.s.	n.s.

N40		2.6	0.3	51.0	1.0
N100		2.2	0.2	52.6	0.6
N160		2.9	0.1	53.0	1.9

C.D.(5%) A _i -A _j	0.6	0.2	1.2	1.5
C.V.(%) Error A	27.6	122.5	2.8	158.7
F(5%)	n.s.	n.s.	s	n.s.

JH - 3851	3.0	0.1	52.2	0.1
MCH - 6	2.2	0.0	50.3	0.2
MAHI KANCHAN	2.4	0.2	53.2	3.0
PARKASH	2.1	0.2	51.4	2.5
X - 2182	3.1	0.3	52.4	1.2

C.D.(5%) B _i -B _j	1.1	0.4	2.1	2.1
C.V.(%) Error B	44.3	204.0	4.3	183.4
F(5%)	s	n.s.	n.s.	s

A - 23

Table 9. Relative performance of pre release germplasm of Early Maturity at different levels of Nitrogen during kharif 2004 in Zone IV

Main Plot	Treatment	GrainYield kg/ha		Mean	Plant height (cm)	
		Kolhapur	Karimnagar		Kolhapur	Karimnagar
N-40	BH - 2862	2111	1944	2028	115.3	129.3
	PMZ - 135	1583	1944	1764	117.3	158.3
	PMZ - 138	1806	1444	1625	117.7	132.0
	MCH - 5	2667	2537	2602	121.7	136.3
	MCH - 6	2222	2481	2352	132.0	140.3
	JKMH - 810	1611	1889	1750	126.0	146.0
	MAHI KANCHAN	889	1019	954	136.0	146.7
	PARKASH	833	2333	1583	131.0	161.3
	X - 2182	1333	1889	1611	143.7	156.0
N-100	BH - 2862	2667	2278	2472	128.3	136.0
	PMZ - 135	3139	1704	2421	145.0	590.3
	PMZ - 138	3583	2426	3005	126.0	143.0
	MCH - 5	4139	2278	3208	134.3	139.0
	MCH - 6	4333	3000	3667	140.0	153.3
	JKMH - 810	4028	2746	3387	140.3	155.7
	MAHI KANCHAN	1667	1630	1648	139.0	149.3
	PARKASH	1889	2519	2204	138.7	172.3
	X - 2182	4444	2407	3426	154.0	163.3
N-160	BH - 2862	3556	2687	3111	144.0	136.0
	PMZ - 135	4444	2370	3407	151.0	149.3
	PMZ - 138	4778	2519	3648	141.7	150.3
	MCH - 5	5556	3037	4296	137.7	138.7
	MCH - 6	4806	2463	3634	155.7	145.7
	JKMH - 810	5000	3148	4074	137.7	152.7
	MAHI KANCHAN	2111	1519	1815	141.0	162.0
	PARKASH	2000	2407	2204	138.7	159.3
	X - 2182	4889	2537	3713	152.3	163.3

Location mean	3092.6	2198.6	141.6	162.4
C.D.(5%) AIBj-AiBk	1104.7	861.2	25.8	201.4
C.D.(5%) AIBk-AjBk	1067.1	987.4	25.2	206.8
F(5%)	s	n.s.	n.s.	n.s.

N-40	1622	1849	1735	131.8	148.2
N-100	3370	2277	2823	143.9	185.8
N-160	4286	2470	3378	149.0	153.1

C.D.(5%) Ai-Aj	115.3	557.0	4.8	75.9
C.V.(%) Error A	5.9	40.3	5.4	74.3
F(5%)	s	n.s.	s	n.s.

Cont..

A - 24

BH - 2862	2778	2296	2537	129.2	133.8
PMZ - 135	3056	2006	2531	137.8	299.3
PMZ - 138	3389	2130	2759	128.4	141.8
MCH - 5	4120	2817	3369	131.2	138.0
MCH - 6	3787	2648	3218	142.6	146.4
JKMH - 810	3546	2594	3070	134.7	151.4
MAHI KANCHAN	1556	1389	1472	138.7	152.7
PARKASH	1574	2420	1997	136.1	164.3
X - 2182	3556	2278	2817	150.0	160.9

C.D.(5%)BI-Bj	637.8	497.2	14.9	116.3
C.V.(%)ErrorB	21.9	24.0	11.2	76.1
F(5%)	s	s	s	n.s.

Main Plot	Treatment	No. of Cobs (000/ha)		Plant Stand (000/ha)		Days to 50% Silking
		Kolhapur	Karimnagar	Kolhapur	Karimnagar	Kolhapur
N-40	BH - 2862	47.5	32.8	60.8	41.3	58.7
	PMZ - 135	47.5	21.3	66.4	32.4	62.3
	PMZ - 138	53.1	30.7	60.8	37.0	62.3
	MCH - 5	58.3	44.3	61.4	44.8	59.0
	MCH - 6	58.6	42.2	66.4	45.9	59.7
	JKMH - 810	51.1	18.7	62.2	35.9	58.0
	MAHI KANCHAN	50.8	20.0	64.2	34.4	58.0
	PARKASH	53.3	32.4	60.8	32.8	57.0
	X - 2182	54.4	26.3	60.0	31.7	59.0
	N-100	BH - 2862	53.6	41.7	65.8	48.5
PMZ - 135		56.4	32.8	63.6	38.1	57.7
PMZ - 138		60.3	35.2	63.3	42.6	57.7
MCH - 5		61.1	38.1	54.7	33.3	60.3
MCH - 6		56.1	45.6	60.6	46.3	58.3
JKMH - 810		56.9	39.1	60.8	45.7	56.3
MAHI KANCHAN		56.1	28.9	64.2	36.7	53.7
PARKASH		55.8	38.0	61.7	41.5	58.0
X - 2182		54.4	28.5	58.1	36.1	55.7
N-160		BH - 2862	60.0	33.1	64.2	37.2
	PMZ - 135	57.2	37.6	57.5	31.7	55.3
	PMZ - 138	55.0	42.4	59.2	41.3	60.3
	MCH - 5	60.0	39.8	59.4	51.5	60.7
	MCH - 6	55.3	36.7	60.8	38.3	58.7
	JKMH - 810	58.1	40.0	60.3	43.7	57.0
	MAHI KANCHAN	55.3	28.5	59.2	40.2	54.7
	PARKASH	51.7	32.6	60.3	35.6	56.3
	X - 2182	53.6	21.3	60.3	39.3	58.7

Cont.

A - 25

Location mean	54.8	31.8	60.6	37.4	58.3
C.D.(5%) AIBj-AiBk	8.3	13.7	5.7	11.9	4.1
C.D.(5%) AIBk-AjBk	9.6	14.1	5.6	11.5	4.4
F(5%)	n.s.	n.s.	s	n.s.	n.s.

N-40	52.2	28.1	61.1	35.2	59.3
N-100	56.5	33.6	60.4	38.1	57.8
N-160	55.7	33.7	60.3	38.9	57.7

C.D.(5%) AI-Aj	5.6	5.4	1.0	1.4	2.1
C.V.(%) Error A	16.1	26.8	2.5	6.0	5.7
F(5%)	n.s.	n.s.	n.s.	s	n.s.

BH - 2862	53.7	35.9	63.6	42.3	58.6
PMZ - 135	53.7	30.6	62.5	34.1	58.4
PMZ - 138	56.1	36.1	61.1	40.3	60.1
MCH - 5	59.8	40.7	58.5	43.2	60.0
MCH - 6	56.7	41.5	62.6	43.5	58.9
JKMH - 810	55.4	32.6	61.1	41.8	57.1
MAHI KANCHAN	54.1	25.8	62.5	37.1	54.8
PARKASH	53.6	34.3	60.9	36.6	57.1
X - 2182	54.2	25.4	59.4	35.7	57.8

C.D.(5%)BI-Bj	4.8	7.9	3.3	6.9	2.4
C.V.(%)ErrorB	9.3	26.4	5.8	19.5	4.3
F(5%)	n.s.	s	s	s	s

A - 26

Table 10. Relative performance of pre release germplasm of Early Maturity at Different levels of Nitrogen during kharif 2004 in Zone V

Main Plot	Germplasm	Grain Yield	Plant Stand	Days to	Plant height.
		kg/ha	(000/ha)	50% silking	(cm)
		Udaipur	Udaipur	Udaipur	Udaipur
N40	JH - 3851	4040	59.3	53.0	201.0
	PMZ - 135	3077	59.3	51.8	201.0
	PMZ - 138	3827	59.3	54.3	201.0
	MCH - 6	1607	60.0	55.0	191.8
	JKMH - 810	2435	62.7	55.0	200.3
	MAHI KANCHAN	1615	61.0	53.0	212.3
	PARKASH	2122	62.7	51.0	200.3
	X - 2182	3820	60.0	53.0	220.0
N100	JH - 3851	4728	59.7	53.0	251.3
	PMZ - 135	3230	59.5	52.3	242.3
	PMZ - 138	3393	59.3	54.5	231.0
	MCH - 6	1910	59.5	55.5	231.0
	JKMH - 810	2820	62.7	55.0	240.0
	MAHI KANCHAN	1915	61.5	53.3	250.3
	PARKASH	2600	62.7	52.8	240.3
	X - 2182	4107	60.0	53.3	250.0
N160	JH - 3851	4822	59.3	54.3	249.8
	PMZ - 135	3208	59.3	51.5	240.0
	PMZ - 138	3317	59.3	54.5	230.3
	MCH - 6	2012	59.5	55.0	230.3
	JKMH - 810	2823	62.7	55.0	245.3
	MAHI KANCHAN	1915	61.5	53.3	250.3
	PARKASH	2710	62.7	52.0	251.0
	X - 2182	4125	60.0	53.0	250.3

Location mean	3358.9	58.9	53.7	232.1
C.D.(5%) AiBj-AiBk	523.5	6.1	4.5	36.2
C.D.(5%) AiBk-AjBk	549.9	6.9	4.8	37.7
F(5%)	n.s.	n.s.	n.s.	n.s.

N40	3123	58.9	53.4	205.7
N100	3455	58.9	53.7	244.4
N160	3499	58.9	53.8	246.1
C.D.(5%) Ai-Aj	234.2	3.8	2.0	15.3
C.V.(%) Error A	13.4	12.2	7.2	12.7
F(5%)	s	n.s.	n.s.	s

JH - 3851	4530	59.4	53.4	234.0
PMZ - 135	3172	59.4	51.8	227.8
PMZ - 138	3512	59.3	54.4	220.8
MCH - 6	1843	59.7	55.2	217.7
JKMH - 810	2693	62.7	55.0	228.5
MAHI KANCHAN	1815	61.3	53.2	237.6
PARKASH	2477	62.7	51.9	230.5
X - 2182	4017	60.0	53.1	240.1

C.D.(5%)Bi-Bj	302.3	3.5	2.6	20.9
C.V.(%)ErrorB	11.1	7.3	6.0	11.1
F(5%)	s	s	n.s.	n.s.

Cont.

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Main Plot	Germplasm	PFSR affected Plant/Plot	No. of Barren Plant	No. of Barren cobs
		Udaipur	Udaipur	Udaipur
N40	JH - 3851	0.0	0.0	0.0
	PMZ - 135	0.7	0.7	0.0
	PMZ - 138	0.0	0.0	0.7
	MCH - 6	8.8	8.0	5.3
	JKMH - 810	9.5	5.2	1.3
	MAHI KANCHAN	13.3	12.2	0.0
	PARKASH	5.3	4.3	0.0
	X - 2182	0.0	0.0	1.3
N100	JH - 3851	0.0	0.0	0.0
	PMZ - 135	1.3	1.0	0.0
	PMZ - 138	0.0	0.0	0.7
	MCH - 6	9.3	8.3	3.7
	JKMH - 810	12.0	5.7	0.7
	MAHI KANCHAN	14.7	13.5	0.0
	PARKASH	6.7	5.0	0.0
	X - 2182	0.0	0.0	0.7
N160	JH - 3851	0.0	0.0	0.0
	PMZ - 135	2.2	0.7	0.0
	PMZ - 138	0.0	0.0	0.5
	MCH - 6	9.8	8.7	2.8
	JKMH - 810	13.3	5.3	0.5
	MAHI KANCHAN	15.7	13.0	0.0
	PARKASH	8.0	5.0	0.0
	X - 2182	0.0	0.0	0.3

Location mean	4.0	3.1	0.7
C.D.(5%) AIBj-AIBk	2.1	1.9	0.6
C.D.(5%) AIBk-AJBk	2.1	1.9	0.6
F(5%)	n.s.	n.s.	s

N40	3.4	2.9	1.0
N100	4.0	3.2	0.6
N160	4.5	3.2	0.5

C.D.(5%) Ai-Aj	0.6	0.3	0.2
C.V.(%) Error A	27.4	18.5	70.2
F(5%)	s	n.s.	s

JH - 3851	0.0	0.0	0.0
PMZ - 135	1.4	0.8	0.0
PMZ - 138	0.0	0.0	0.6
MCH - 6	9.3	8.3	3.9
JKMH - 810	11.6	5.4	0.8
MAHI KANCHAN	14.6	12.9	0.0
PARKASH	6.7	4.8	0.0
X - 2182	0.0	0.0	0.8

C.D.(5%)Bi-Bj	1.2	1.1	0.4
C.V.(%)ErrorB	38.3	44.4	64.7
F(5%)	s	s	s

A - 28

Table 11. Relative performance of pre release germplasm of (Extra Early Maturity) at Different levels of Nitrogen during kharif 2004 in Zone III

Main Plot	Treatment	Grain Yield (kg/ha)					Mean
		Ambikapur	Baharich	Dholi	Jashipur	Varanasi	
N-40	FH -3210	3599	2708.3	1616.7	17388.9	2755.6	5613.7
	HIM - 129	3807	4013.9	1816.7	15555.6	2422.2	27615.6
	SURYA	3724	2715.3	2300.0	17888.9	2933.3	29561.5
N-100	FH -3210	3724	4666.7	2666.7	24000.0	3911.1	38968.4
	HIM - 129	3880	5159.7	1900.0	23222.2	3355.6	37517.7
	SURYA	3771	4361.1	1800.0	26833.3	3111.1	39876.4
N-160	FH -3210	3797	5715.3	2350.0	34722.2	4200.0	50784.4
	HIM - 129	3938	6708.3	1850.0	26722.2	3511.1	42729.2
	SURYA	3859	6291.7	1966.7	29055.6	3177.8	44351.0

Location mean	3788.8	4704.5	2029.6	23932.1	3264.2
C.D.(5%) AIBJ-AIBk	182.6	563.2	965.0	4967.5	610.6
C.D.(5%) AIBk-AJBk	179.4	607.6	1204.2	5823.7	619.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N-40	3710	3145.8	1911.1	16944.4	2703.7	28415.2
N-100	3792	4729.2	2122.2	24665.2	3459.3	38787.5
N-160	3865	6238.4	2055.6	30166.7	3629.6	45954.9

C.D.(5%) Ai-Aj	100.4	403.5	915.2	4238.1	373.9
C.V.(%) Error A	2.7	6.6	45.1	13.5	8.8
F(5%)	s	s	n.s.	s	s

FH -3210	3707	4363.4	2211.1	25370.4	3622.2	39273.7
HIM - 129	3875	5294.0	1855.6	21833.3	3096.3	35954.2
SURYA	3785	4456.0	2022.2	24592.6	3074.1	37929.6

C.D.(5%) B1-Bj	105.4	325.2	557.1	2868.0	352.5
C.V.(%) Error B	3.2	6.7	32.0	11.7	10.5
F(5%)	s	s	n.s.	s	s

Cont.

A - 29

Main Plot	Treatment	Plant Stand (000/ha)				
		Ambikapur	Baharich	Dholi	Jashipur	Varanasi
N-40	FH -3210	100.4	72.9	21.0	54.9	39.3
	HIM - 129	102.6	75.0	28.3	53.7	38.2
	SURYA	105.2	72.9	27.5	55.6	39.3
N-100	FH -3210	103.1	74.3	32.7	53.7	39.3
	HIM - 129	104.2	76.4	27.2	55.0	39.6
	SURYA	100.0	74.3	25.2	55.3	38.4
N-160	FH -3210	103.6	76.4	34.5	55.6	39.3
	HIM - 129	100.1	75.7	25.5	54.9	39.6
	SURYA	103.1	77.1	28.7	51.2	39.6

Location mean	102.5	75.0	27.8	54.4	39.2
C.D.(5%) AIBj-AIBk	5.1	3.4	9.0	3.8	1.9
C.D.(5%) AIBk-AjBk	6.4	3.6	13.8	5.7	2.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N-40		102.7	73.6	25.6	54.7	39.0
N-100		102.4	75.0	28.3	54.7	39.1
N-160		102.3	76.4	29.6	53.9	39.5

C.D.(5%) Ai-Aj	4.9	2.4	11.7	4.8	2.2
C.V.(%) Error A	4.6	2.4	42.2	6.6	4.3
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

FH -3210		102.4	74.5	29.4	54.7	39.3
HIM - 129		102.3	75.7	27.0	54.5	39.1
SURYA		102.8	74.8	27.1	54.0	39.1

C.D.(5%)Bi-Bj	2.9	2.0	5.2	2.2	1.1
C.V.(%)ErrorB	3.4	2.5	21.7	3.9	2.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

Cont..

A -30

Main Plot	Treatment	Days to 50% Sliking				
		Ambikepur	Baharich	Dholi	Jashipur	Varanasi
N-40	FH -3210	49.5	46.3	49.5	42.7	53.0
	HIM - 129	52.5	46.7	49.8	40.7	51.3
	SURYA	51.5	46.3	50.0	43.0	51.7
N-100	FH -3210	50.3	46.3	49.3	40.7	50.3
	HIM - 129	52.8	46.3	49.5	40.0	51.3
	SURYA	51.8	46.3	50.0	42.3	51.3
N-160	FH -3210	51.5	47.0	50.5	39.7	51.7
	HIM - 129	54.0	46.3	48.8	39.0	50.3
	SURYA	52.5	47.0	50.3	42.0	50.3

Location mean	51.8	46.5	49.7	41.1	51.3
C.D.(5%) A B A Bk	4.3	1.4	2.0	1.1	4.4
C.D.(5%) A Bk-A Bk	4.0	1.3	2.4	1.8	4.6
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N-40	51.2	46.4	49.8	42.1	52.0
N-100	51.6	46.3	49.6	41.0	51.0
N-160	52.7	46.8	49.8	40.2	50.8

C.D.(5%) A A	1.8	0.7	1.8	1.5	3.0
C.V.(%) Error A	3.5	1.1	3.7	2.9	4.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

FH -3210	50.4	46.6	49.8	41.0	51.7
HIM - 129	53.1	46.4	49.3	39.9	51.0
SURYA	51.9	46.6	50.1	42.4	51.1

C.D.(5%) B B	2.5	0.8	1.1	0.7	2.5
C.V.(%) Error B	5.6	1.7	2.6	1.6	4.8
F(5%)	n.s.	n.s.	n.s.	s	n.s.

Cont.

Main Plot	Treatment	Plant Height (cm)				
		Ambikapur	Baharich	Dholi	Jashipur	Varanasi
N-40	FH -3210	167.0	138.3	126.7	140.0	217.7
	HIM - 129	175.5	143.3	119.4	125.3	197.0
	SURYA	171.0	146.7	129.1	142.0	209.3
N-100	FH -3210	170.0	151.7	134.1	143.0	223.0
	HIM - 129	178.0	150.0	123.3	135.7	196.3
	SURYA	173.5	151.7	132.8	132.3	218.0
N-160	FH -3210	174.5	155.0	140.7	147.7	208.7
	HIM - 129	182.0	161.7	118.7	132.0	206.3
	SURYA	178.0	161.7	132.4	143.7	220.7

Location mean	174.4	151.1	128.6	138.0	210.8
C.D.(5%) AIBj-AIBk	14.2	12.0	10.4	10.6	13.0
C.D.(5%) AIBk-AJBk	18.0	11.3	17.1	19.3	21.4
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N-40	171.2	142.8	125.0	135.8	208.0
N-100	173.8	151.1	130.1	137.0	212.4
N-160	178.2	159.4	130.6	141.1	211.9

C.D.(5%) AI-Aj	13.8	5.8	14.9	17.3	18.8
C.V.(%) Error A	7.9	2.9	11.6	9.6	6.8
F(5%)	n.s.	s	n.s.	n.s.	n.s.

FH -3210	170.5	148.3	133.8	143.6	216.4
HIM - 129	178.5	151.7	120.4	131.0	199.9
SURYA	174.2	153.3	131.4	139.3	216.0

C.D.(5%)BI-Bj	8.2	7.0	6.0	6.1	7.5
C.V.(%)ErrorB	5.5	4.5	5.4	4.3	3.5
F(5%)	n.s.	n.s.	s	s	s

A -32

Main Plot	Treatment	No. of Cobs (000/ha)			
		Ambikapur	Baharich	Jashipur	Varanasi
N-40	FH -3210	96.7	75.0	31.9	39.3
	HIM - 129	99.5	77.1	32.2	36.0
	SURYA	101.0	74.3	40.8	42.4
N-100	FH -3210	100.0	76.4	39.1	38.9
	HIM - 129	100.4	77.8	37.7	40.4
	SURYA	96.4	75.7	40.4	40.2
N-160	FH -3210	99.0	78.5	47.5	39.8
	HIM - 129	97.5	77.8	39.3	38.9
	SURYA	99.2	79.2	42.1	39.8

Location mean	98.9	76.9	39.0	39.5
C.D.(5%) AIBj-AiBk	5.5	3.5	6.3	3.8
C.D.(5%) AiBk-AjBk	5.5	3.1	6.3	5.6
F(5%)	n.s.	n.s.	n.s.	n.s.

N-40	99.1	75.5	35.0	39.3
N-100	98.9	76.6	39.1	39.9
N-160	98.6	78.5	43.0	39.5

C.D.(5%) Ai-Aj	3.2	1.3	3.7	4.8
C.V.(%) Error A	3.3	1.3	7.3	9.2
F(5%)	n.s.	s	s	n.s.

FH -3210	98.6	76.6	39.5	39.3
HIM - 129	99.1	77.5	36.4	38.4
SURYA	98.9	76.4	41.1	40.8

C.D.(5%)BI-Bj	3.2	2.0	3.6	2.2
C.V.(%)ErrorB	3.7	2.6	9.1	5.3
F(5%)	n.s.	n.s.	s	n.s.

Cont.

Main Plot	Treatment	% of Barren Plants		Days to 50% Tasseling		Lodging (%) /plot	
		Ambikapur	Varanasi	Ambikapur	Varanasi	Ambikapur	Varanasi
N-40	FH -3210	3.6	0.0	46.5	1.8		
	HIM - 129	3.1	2.2	49.0	5.8		
	SURYA	4.2	0.4	48.5	3.3		
N-100	FH -3210	3.1	0.4	47.5	3.0		
	HIM - 129	3.8	0.0	50.5	2.6		
	SURYA	3.6	0.0	49.0	3.0		
N-160	FH -3210	4.7	0.0	49.0	0.0		
	HIM - 129	2.6	0.7	51.5	5.6		
	SURYA	3.9	0.2	50.5	5.6		

Location mean	3.6	0.4	49.1	3.4
C.D.(5%) AIBj-AIBk	2.7	1.4	3.3	6.5
C.D.(5%) AIBk-AjBk	3.1	1.7	3.3	6.1
F(5%)	n.s.	n.s.	n.s.	n.s.

N-40		3.6	0.9	48.0	3.7
N-100		3.5	0.1	49.0	2.9
N-160		3.7	0.3	50.3	3.7

C.D.(5%) A1-Aj	2.3	1.3	1.8	3.2
C.V.(%) Error A	62.7	223.6	3.6	70.8
F(5%)	n.s.	n.s.	s	n.s.

FH -3210		3.8	0.1	47.7	1.6
HIM - 129		3.2	1.0	50.3	4.7
SURYA		3.9	0.2	49.3	4.0

C.D.(5%) B1-Bj	1.5	0.8	1.9	3.7
C.V.(%) Error B	49.4	170.8	4.6	105.9
F(5%)	n.s.	n.s.	s	n.s.

A - 34

Table 12. Relative performance of pre germplasm of Medium maturity group at Different levels of Nitrogen during Kharif 2004 in Zone I

Main Plot	Treatment	Grain Yield (Kg/ha)		Plant Stand (000/ha)		No. of Cobs (000/ha)		Plant height (cm)	
		Bajaura	Jorhat	Bajaura	Jorhat	Bajaura	Jorhat	Bajaura	Jorhat
N-60	PMZ - 131	5010	3042	79.3	67.7	81.3	63.7	205.3	180.0
	NAVJOT	4520	2928	78.3	66.3	84.7	64.7	213.3	180.3
	KH - 510	4387	3005	74.0	67.8	77.3	61.8	203.7	182.8
N-120	PMZ - 131	5310	3567	78.0	68.2	85.0	68.0	202.0	181.8
	NAVJOT	4933	3435	75.7	66.7	87.0	67.0	200.0	181.0
	KH - 510	5260	3682	78.0	69.8	86.7	68.0	215.7	181.3
N-180	PMZ - 131	5593	3782	77.3	69.8	86.3	69.2	199.0	181.5
	NAVJOT	5193	3412	79.3	70.0	94.0	68.3	200.7	181.8
	KH - 510	5793	3767	73.0	69.8	78.3	69.2	197.3	181.0

Location mean	5679.3	3496.7	78.5	68.8	85.7	66.9	206.4	181.3
C.D.(5%) AiBj-AiBk	687.7	219.0	6.1	2.5	8.6	1.4	17.8	2.3
C.D.(5%) AiBk-AjBk	733.0	224.1	8.9	2.5	14.0	1.4	18.5	2.2
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.	s	n.s.	n.s.

N-60	5167	3029	78.6	67.8	83.9	63.6	207.2	181.3
N-120	5685	3700	78.9	68.833	86.1	68.1	208.6	181.3
N-180	6185	3761	78.1	69.8	87.1	69.1	203.5	181.35

C.D.(5%) Ai-Aj	409.6	110.2	7.1	1.1	11.8	0.8	9.7	0.8
C.V.(%) Error A	7.1	4.1	8.9	2.1	13.6	1.5	4.6	0.6
F(5%)	s	s	n.s.	s	n.s.	s	n.s.	n.s.

PMZ - 131	5304	3463	78.2	68.6	84.2	66.9	202.1	181.1
NAVJOT	4882	3258	77.8	67.7	88.6	66.7	204.7	181.0
KH - 510	5147	3484	75.0	69.2	80.8	66.3	205.6	181.7

C.D.(5%) Bi-Bj	397.0	126.4	3.5	1.4	5.0	0.8	10.3	1.3
C.V.(%) Error B	7.2	4.4	4.6	2.5	6.0	1.4	5.1	0.9
F(5%)	s	s	s	s	s	s	n.s.	n.s.

Cont.

Main Plot	Treatment	Days to 50% Silking	No. of Barren Plant
		Jorhat	Jorhat
N-60	PMZ - 131	55.0	5.7
	NAVJOT	54.3	5.7
	KH - 510	55.5	6.3
N-120	PMZ - 131	56.5	4.5
	NAVJOT	55.8	3.7
	KH - 510	55.8	3.5
N-180	PMZ - 131	56.5	3.5
	NAVJOT	56.3	5.0
	KH - 510	56.3	4.7

Location mean 55.7 4.5
 C.D.(5%) A₁B₁-A₁B_k 1.5 0.8
 C.D.(5%) A₁B_k-A_jB_k 2.2 0.9
 F(5%) n.s. s

N-60		54.75	5.7
N-120		56.15	3.7
N-180		56.30	4.0

C.D.(5%) A₁-A_j 1.8 0.6
 C.V.(%) Error A 4.2 18.6
 F(5%) n.s. s

PMZ - 131		56.0	4.6
NAVJOT		55.4	4.8
KH - 510		55.8	4.8

C.D.(5%)B₁-B_j 0.9 0.4
 C.V.(%)ErrorB 1.9 12.1
 F(5%) n.s. s

A - 36

Table 13. Performance of maize varieties under organic farming system at Almora

Treatment	Grain yield (kg/ha)	No. of Cobs (000/ha)	Days to 50% silking	Plant height in (cm)	1000 grain weight (g)
V1	4630	63.0	49.0	243.3	253.2
V2	3690	66.2	46.7	215.3	184.4
V3	4583	64.8	46.3	211.3	218.3
V4	4236	61.6	51.0	209.0	228.9
V5	4421	67.1	47.0	233.3	272.9
V6	4144	66.7	49.0	232.7	204.8
V7	5588	65.3	49.0	244.3	255.3
V8	6019	62.5	49.0	243.0	242.9
V9	6157	61.6	50.0	223.7	244.0
V10	1713	53.7	49.0	195.7	119.4
Mean	4518.1	63.2	48.6	225.2	222.4
CD	1133.9	4.0	1.5	14.5	13.2
CV (%)	14.6	3.7	1.8	3.8	3.5
Significance	S		S	S	S

- V1= VL 16
- V2= VL 41
- V3= VL 88
- V4= VL Sankul Makka 11
- V5= V5=VL 42
- V6= Him 129
- V7= Vivek Maize Hybrid 5
- V8= Vivek Maize Hybrid 9
- V9= Vivek Maize Hybrid 15
- V10= VL Amber popcorn

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Table 14. Determination of optimum plant density and N level at Almora

Main Plot	Treatment	Grain yield (kg/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to silking 50%	1000 grain weight(g)
N40	D1V1	6644	65.3	229.0	49.0	244.3
	D1V2	5903	66.7	217.0	49.3	230.7
	D2V1	8403	82.4	223.7	49.3	230.7
	D2V2	6782	79.2	221.3	49.0	220.7
	D3V1	6991	92.1	233.0	49.0	228.0
	D3V2	6713	94.9	226.7	49.7	222.3
N80	D1V1	8449	66.2	231.7	48.7	258.3
	D1V2	6458	68.1	228.0	48.3	235.7
	D2V1	7824	80.6	232.3	49.0	228.7
	D2V2	6736	81.9	232.0	48.3	223.3
	D3V1	8796	94.0	228.7	49.3	238.7
	D3V2	7245	93.5	227.7	49.0	225.7
N120	D1V1	8032	66.2	236.7	49.3	241.3
	D1V2	6505	69.4	230.0	49.0	244.3
	D2V1	9074	82.4	229.0	48.7	260.7
	D2V2	7060	83.3	233.7	48.7	226.7
	D3V1	8681	93.5	238.0	49.3	233.3
	D3V2	7130	91.7	232.0	49.0	223.7

Location mean	7412.6	80.6	229.5	49.0	234.3
C.D.(5%) AIBj-AIBk	1114.7	3.6	12.1	1.0	12.7
C.D.(5%) AIBk-AJBk	1170.1	3.8	16.2	1.0	14.5
F(5%)	n.s.	n.s.	n.s.	n.s.	s

N40	6906	80.1	225.1	49.2	229.4
N80	7585	80.7	230.1	48.8	235.1
N120	7747	81.1	233.2	49.0	238.3

C.D.(5%) AI-Aj	595.5	1.9	12.1	0.4	9.0
C.V.(%) Error A	8.7	2.5	5.7	0.9	4.2
F(5%)	s	n.s.	n.s.	n.s.	n.s.

D1V1	7708	65.9	232.4	49.0	248.0
D1V2	6289	68.1	225.0	48.9	236.9
D2V1	8434	81.8	228.3	49.0	240.0
D2V2	6860	81.5	229.0	48.7	223.6
D3V1	8156	93.2	233.2	49.2	233.3
D3V2	7029	93.4	228.8	49.2	223.9

C.D.(5%) BI-Bj	643.5775	2.1	7.0	0.8031433	7.315774
C.V.(%) Error B	9.019524	2.7	3.2	1.2787186	3.243992
F(5%)	s	s	n.s.	n.s.	s

Plant densities:
D1: 65,000 plants/ha
D2: 80,000 plants/ha
D3: 95,000 plants/ha

Varieties:
V1: Vivek Maize Hybrid-15
V2: VI Sunkul Makka-11

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Table 15. Relative Performance of Pre-release QPM single cross hybrids at different levels of fertility at Karnal

Fertilizer NPK	Treatment	Grain Yield (kg/ha)
F3 - 200-80-80	HQPM-I	5717
	HQPM-I (L)	5070
	170 X 193-1	4417
	170 X163	4440
	Shaktiman	3593
F2 - 150-60-80	HQPM-I	4893
	HQPM-I (L)	4343
	170 X 193-1	3833
	170 X163	4007
	Shaktiman	2880
F1 - 100-40-40	HQPM-I	4007
	HQPM-I (L)	3573
	170 X 193-1	2523
	170 X163	3380
	Shaktiman	2293
F0 - 0-0-0	HQPM-I	2423
	HQPM-I (L)	2033
	170 X 193-1	1860
	170 X163	2100
	Shaktiman	1687

Location mean 3453.7
 C.D.(5%) A_iB_j-A_iB_k 481.7
 C.D.(5%) A_iB_k-A_jB_k 556.2
 F(5%) s

F3- 200-80-80	4647
F2- 150-60-80	3991
F1- 100-40-40	3155
F0-0-0-0	2021

C.D.(5%) A_i-A_j 355.1
 C.V.(%) Error A 11.5
 F(5%) s

HQPM-I	4260
HQPM-I (L)	3755
170 X 193-1	3158
170 X163	3482
Shaktiman	2613

C.D.(5%)B_i-B_j 240.8
 C.V.(%)ErrorB 8.4
 F(5%) s

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Table 16. Relative Performance of Pre-release Full season single cross hybrid at different levels of fertility at Karnal

Fertilizer NPK	Treatment	Grain Yield (kg/ha)
200-80-80	HM-5(0)	4937
	1344X1348-6-2	5780
	HHM-2	5047
	Bio-9681	4787
150-80-80	HM-5(0)	4550
	1344X1348-6-2	5350
	HHM-2	4570
	Bio-9681	4200
100-40-40	HM-5(0)	4070
	1344X1348-6-2	4613
	HHM-2	4087
	Bio-9681	3467
0-0-0	HM-5(0)	2293
	1344X1348-6-2	2490
	HHM-2	2383
	Bio-9681	1970

Location mean 4037.1
 C.D.(5%) AIBj-AjBk 283.7
 C.D.(5%) AIBk-AjBk 266.3
 F(5%) s

F3- 200-80-80	5138
F2- 150-80-80	4668
F1- 100-40-40	4059
F0-0-0-0	2284

C.D.(5%) Ai-Aj 103.9
 C.V.(%) Error A 2.6
 F(5%) s

HM-5(0)	3963
1344X1348-6-2	4558
HHM-2	4022
Bio-9681	3606

C.D.(5%) BI-Bj 141.9
 C.V.(%) Error B 4.2
 F(5%) s

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Table 17. Relative Performance of Pre-release Medium maturity single cross hybrids at different levels of fertility at Karnal

Fertilizer NPK	Treatment	Grain Yield (kg/ha)
200-80-80	1040-7x323	4767
	295-323	5290
	HM4	5133
	Pro-311	5067
150-60-60	1040-7x323	4213
	295-323	4870
	HM4	4693
	Pro-311	4570
100-40-40	1040-7x323	3487
	295-323	3900
	HM4	3463
	Pro-311	3747
0-0-0	1040-7x323	2250
	295-323	2490
	HM4	2250
	Pro-311	2337

Location mean 3907.9
 C.D.(5%) AIBj-AIBk 331.6
 C.D.(5%) AiBk-AjBk 297.2
 F(5%) n.s.

F3- 200-80-80	5064
F2- 150-60-60	4587
F1- 100-40-40	3649
F0-0-0-0	2332

C.D.(5%) AI-Aj 77.6
 C.V.(%) Error A 2.0
 F(5%) s

1040-7x323	3679
295-323	4138
HM4	3885
Pro-311	3930

C.D.(5%) BI-Bj 165.8
 C.V.(%) Error B 5.0
 F(5%) s

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Table 18. Relative Performance of Pre-release short duration single cross hybrids at different levels of fertility at Karnal

Fertilizer NPK	Treatment	Grain Yield (kg/ha)
200-80-80	335	3983
	1025	4330
	HM-6	4570
	Surya	3310
150-80-80	335	3487
	1025	3920
	HM-6	4330
	Surya	2900
100-40-40	335	3270
	1025	3703
	HM-6	4050
	Surya	2683
0-0-0	335	2120
	1025	2467
	HM-6	2750
	Surya	1990

Location mean 3366.5
 C.D.(5%) A₁B₁-A₁B_k 159.1
 C.D.(5%) A₁B_k-A_jB_k 159.6
 F(5%) s

F3- 200-80-80	4048
F2- 150-80-80	3659
F1- 100-40-40	3427
F0-0-0-0	2332

C.D.(5%) A₁-A_j 81.3
 C.V.(%) Error A 2.4
 F(5%) s

335	3215
1025	3605
HM-6	3925
Surya	2721

C.D.(5%) B₁-B_j 79.6
 C.V.(%) Error B 2.8
 F(5%) s

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Table 19. Effect of Sowing date on the performance of maize genotypes at Ludhiana

Main Plot	Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Days to 50% silking	Plant height (cm)
25-May	Paras	5907	65.2	74.9	60.0	195.0
	JH 10655	7475	63.8	67.1	61.0	228.3
	JH 3459	5023	67.3	79.3	53.0	175.0
	JH 3851	6921	71.3	77.4	52.0	178.3
15-Jun	Paras	7407	70.9	74.9	56.7	201.7
	JH 10655	8944	74.5	73.9	56.0	233.3
	JH 3459	6629	72.2	74.3	49.7	188.3
	JH 3851	7080	71.5	74.3	49.0	180.0
5-Jul	Paras	6570	66.1	67.6	54.3	211.7
	JH 10655	7609	62.9	64.6	53.3	226.7
	JH 3459	5429	62.1	62.3	50.7	193.3
	JH 3851	6389	66.1	68.6	49.7	186.7

Location mean	6780.3	67.8	71.6	53.8	199.9
C.D.(5%) A Bj-A Bk	1019.3	5.0	7.7	1.0	16.4
C.D.(5%) A Bk-A Bj	1039.3	5.4	7.6	2.0	19.2
F(5%)	n.s.	n.s.	n.s.	s	n.s.

25-May	6332	66.9	74.7	56.5	194.2
15-Jun	7510	72.3	74.3	52.8	200.8
5-Jul	6499	64.3	65.8	52.0	204.6

C.D.(5%) A A j	562.1	3.4	3.8	1.8	13.2
C.V.(%) Error A	7.3	4.4	4.6	3.0	5.8
F(5%)	s	s	s	s	n.s.

Paras	6628	67.4	72.5	57.0	202.8
JH 10655	8009	67.1	68.5	56.8	229.4
JH 3459	5694	67.2	72.0	51.1	185.6
JH 3851	6790	69.7	73.4	50.2	181.7

C.D.(5%) B B j	588.5	2.9	4.5	0.8	9.4
C.V.(%) Error B	8.8	4.3	6.3	1.1	4.8
F(5%)	s	n.s.	n.s.	s	s

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Table 20. Effect of sowing dates on the performance of seed percents at Karnal

Date of sowing	Treatment	Grain Yield (kg/ha)
20/06/04	1105	2903
	323	2843
	193-1	3063
	163	2670
30/06/04	1105	2177
	323	1923
	193-1	2303
	163	1840
10/6/2004	1105	1167
	323	1107
	193-1	1390
	163	1137

Location mean 2043.6
 C.D.(5%) AIBj-AIBk 174.1
 C.D.(5%) AIBk-AJBk 189.0
 F(5%) n.s.

20/06/04	2870
30/06/04	2061
10/6/2004	1200

C.D.(5%) AI-Aj 116.5
 C.V.(%) Error A 5.0
 F(5%) s

1105	2082
323	1958
193-1	2252
163	1882

C.D.(5%) Bi-Bj 100.5
 C.V.(%) Error B 5.0
 F(5%) s

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Table 21. Response of units/inbreds to N levels and plant densities at Almora

Main Plot	Treatment	Grain yield (kg/ha)	No. of cobs (000/ha)	Days to silking 50%	Plant height (cm)	1000grain weight(g)
N90	D1V1	3264	58.8	52.7	152.7	201.7
	D1V2	3241	62.0	49.0	165.0	166.1
	D1V3	2356	40.3	50.0	159.0	120.3
	D2V1	3426	58.1	52.7	165.7	207.8
	D2V2	2801	69.4	49.0	168.3	168.6
	D2V3	3181	61.6	55.7	157.3	121.8
N120	D1V1	3519	60.6	52.0	166.0	204.7
	D1V2	3519	59.3	49.0	170.3	179.3
	D1V3	2676	50.0	52.7	167.3	114.5
	D2V1	3912	75.9	52.3	167.7	196.4
	D2V2	3644	71.8	49.3	162.7	172.9
	D2V3	3042	44.4	55.0	170.3	116.1
N150	D1V1	4870	66.2	51.3	175.0	204.4
	D1V2	4190	58.8	48.7	173.3	193.8
	D1V3	2731	47.2	53.3	179.0	123.2
	D2V1	5255	76.9	50.7	178.3	209.9
	D2V2	4815	73.1	49.3	170.7	199.9
	D2V3	2870	58.3	53.7	181.3	128.6

Location mean	3517.2	61.3	51.5	168.3	168.3
C.D.(5%) A B A Bk	1184.8	11.6	0.9	10.6	12.0
C.D.(5%) A Bk A Bk	1119.8	11.1	0.9	9.8	12.8
F(5%)	n.s.	n.s.	s	n.s.	s

N90	3045	60.0	51.5	161.3	164.4
N120	3385	60.3	51.7	167.4	164.0
N150	4122	63.4	51.2	176.3	176.6

C.D.(5%) A A	300.4	3.5	0.3	2.0	6.7
C.V.(%) Error A	9.2	6.2	0.7	1.3	4.3
F(5%)	s	n.s.	s	s	s

D1V1	3884	61.9	52.0	164.6	203.6
D1V2	3650	60.0	48.9	169.6	179.7
D1V3	2588	45.8	52.0	166.4	119.3
D2V1	4198	73.6	51.9	170.6	204.7
D2V2	3753	71.5	49.2	167.2	180.5
D2V3	3031	54.8	54.8	169.7	122.2

C.D.(5%) B B	684.0	6.7	0.5	6.1	7.0
C.V.(%) Error B	20.2	11.4	1.1	3.8	4.3
F(5%)	s	s	s	n.s.	s

Plant densities:	Units/inbreds
D1: 65,000 plants/ha	V1: U15-1
D2: 80,000 plants/ha	V2: Syn-1
	V3: CM 212

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Table 22. Response of QPM lines and Hybrids to N levels at Almora

Main Plot	Treatment	Grain yield (kg/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)	1000 grain weight(g)
N0	V1: CML 176	2065	26.9	68.3	177.7	178.0
	V2: CML 173	2417	50.0	81.7	163.7	175.0
	V3:Hybrid-1	2926	52.8	62.3	222.3	220.0
	V4: Hybrid-3	3565	46.3	60.0	249.3	263.0
N80	V1: CML 176	3204	28.7	68.0	187.0	165.0
	V2: CML 173	3620	57.4	59.7	192.3	249.0
	V3:Hybrid-1	6991	56.5	58.7	259.7	282.0
	V4: Hybrid-3	5370	56.5	59.7	256.3	252.0
N180	V1: CML 176	3176	42.6	68.0	206.3	186.7
	V2: CML 173	4919	50.0	59.7	196.3	246.0
	V3:Hybrid-1	7593	56.5	56.3	258.0	272.0
	V4: Hybrid-3	5426	50.0	57.0	255.7	273.0

Location mean	4272.6	47.8	61.6	218.7	230.1
C.D.(5%) A Bj-A Bk	1336.1	18.4	1.0	17.6	16.1
C.D.(5%) A Bk-A jBk	1632.2	17.7	1.1	17.9	14.5
F(5%)	s	n.s.	s	n.s.	s

N0	2743	44.0	63.1	203.3	209.0
N80	4796	49.8	61.5	223.8	237.0
N180	5278	49.8	60.3	229.1	244.4

C.D.(5%) A A j	1173.2	7.8	0.8	9.7	4.2
C.V.(%) Error A	24.2	14.4	1.1	3.9	1.6
F(5%)	s	n.s.	s	s	s

V1: CML 176	2815	32.7	68.1	190.3	176.6
V2: CML 173	3652	52.5	60.3	184.1	223.3
V3:Hybrid-1	5836	55.2	59.1	246.7	258.0
V4: Hybrid-3	4787	50.9	58.9	253.8	262.7

C.D.(5%)B B j	771.4	10.6	0.6	10.2	9.3
C.V.(%)ErrorB	18.2	22.4	1.0	4.7	4.1
F(5%)	s	s	s	s	s

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Table 23. Effect of Different Nitrogen and spacing on the performance of Maize Inbred at Ludhlana

Nitrogen	Spacing	Inbred	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of Cobs (000/ha)	Days to 50% silking	Plant height (cm)
60	60x20	V1	2361.11	47.9	47.5	62.7	166.7
60	60x20	V2	1458.33	39.1	38.9	63.7	153.3
60	60x20	V3	1759.03	46.5	52.1	56.3	115.0
60	60x20	V4	2522.92	51.9	59.3	57.0	148.3
60	60x15	V1	2685.42	59.5	61.6	62.7	163.3
60	60x15	V2	1666.67	48.8	49.3	64.3	155.0
60	60x15	V3	1944.44	57.2	60.6	56.3	121.7
60	60x15	V4	2731.25	62.5	64.4	57.7	150.0
120	60x20	V1	3171.53	51.6	52.8	61.3	171.7
120	60x20	V2	2245.14	43.8	45.4	61.3	165.0
120	60x20	V3	2314.58	49.5	56.9	55.7	125.0
120	60x20	V4	3263.89	53.5	70.4	57.3	168.3
120	60x15	V1	3425.69	63.7	66.4	61.3	171.7
120	60x15	V2	2453.47	54.4	56.5	63.0	165.0
120	60x15	V3	2592.36	60.2	63.0	56.0	130.0
120	60x15	V4	3634.03	64.1	71.3	56.3	153.3
180	60x20	V1	3449.31	53.2	58.0	60.7	180.0
180	60x20	V2	2522.92	41.9	49.8	60.7	170.0
180	60x20	V3	2291.67	54.2	61.3	55.3	130.0
180	60x20	V4	3286.81	52.5	73.4	56.3	161.7
180	60x15	V1	3611.11	63.0	68.1	60.7	176.7
180	60x15	V2	2708.33	52.5	60.4	62.3	175.0
180	60x15	V3	2500.00	59.3	63.0	55.3	138.3
180	60x15	V4	3819.44	67.4	75.5	55.7	163.3

CV (%)	5.12	4.73	5.74	1.31	4.52
CD (p=0.05) N	83.33	2.15	1.45	0.46	4.03
S	48.50	1.47	0.93	ns	1.74
NxS	83.91	2.54	ns	0.47	ns
V	89.88	1.67	2.23	0.50	4.58
NxV	155.51	2.89	ns	ns	7.93
SxV	127.02	ns	3.15	0.71	ns
NxSxV	ns	ns	5.46	1.24	11.21

4 Inbreds

V1= Jey 3-7-1-2-1-1-1-1 (Female parent of JH 10655)
 V2= EA 00301 (Male parent of JH 10655)
 V3= I 102 (Female parent of JH 3851)
 V4= SE 539 (Male parent of JH 3851)

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Table 24. Effect of Nitrogen levels on the performance of Maize genotypes at Ludhiana

Main Plot	Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
N60	Paras	4060	65.0	61.8	61.7	171.7
	JH 10655	4391	67.6	66.2	62.7	188.3
	JH 10704	4014	63.0	62.7	60.7	178.3
	JH 3459	4329	61.6	69.2	53.3	158.3
	JH 3851	4824	66.9	72.7	52.7	160.0
	JK 204	3097	46.5	46.1	57.0	158.3
N90	Paras	6007	65.0	62.7	59.0	181.7
	JH 10655	5796	64.4	65.0	60.7	205.0
	JH 10704	6100	61.1	60.6	60.0	185.0
	JH 3459	5706	63.9	65.3	52.3	168.3
	JH 3851	6458	64.1	71.3	52.0	168.3
	JK 204	4403	47.5	51.2	55.7	166.7
N120	Paras	6752	63.0	63.4	58.0	190.0
	JH 10655	7991	63.0	65.3	60.0	211.7
	JH 10704	7356	65.0	62.5	59.0	200.0
	JH 3459	5938	65.5	69.2	51.3	176.7
	JH 3851	6843	62.3	71.3	50.0	176.7
	JK 204	5111	45.8	52.8	55.0	175.0
N150	Paras	7391	63.2	64.6	57.0	195.0
	JH 10655	8125	67.1	65.7	59.3	218.3
	JH 10704	7650	60.2	61.3	58.7	213.3
	JH 3459	5838	64.6	68.1	51.0	185.0
	JH 3851	6593	64.6	73.6	49.0	180.0
	JK 204	5370	44.9	50.9	55.3	183.3
Location mean		5839.3	61.1	63.5	56.3	183.1
C.D.(5%) A Bj-A Bk		1170.9	6.8	5.7	1.0	7.3
C.D.(5%) A Bk-A Bj		1273.5	6.9	5.9	1.2	7.2
F(5%)		n.s.	n.s.	n.s.	s	n.s.
N60		4119	61.8	63.1	58.0	169.2
N90		5745	61.0	62.7	56.6	179.2
N120		6665	60.8	64.1	55.6	188.3
N150		6828	60.8	64.0	55.1	195.8
C.D.(5%) Ai-Aj		700.5	2.9	2.7	0.7	2.8
C.V.(%) Error A		14.7	5.9	5.3	1.5	1.9
F(5%)		s	n.s.	n.s.	s	s
Paras		6053	64.1	63.1	58.9	184.6
JH 10655		6576	65.5	65.6	60.7	205.8
JH 10704		6260	62.3	61.8	59.6	194.2
JH 3459		5453	63.9	67.9	52.0	172.1
JH 3851		6179	64.5	72.2	50.9	171.3
JK 204		4495	46.2	50.2	55.8	170.8
C.D.(5%) B Bj		585.5	3.4	2.9	0.5	3.7
C.V.(%) Error B		12.2	6.8	5.5	1.1	2.4
F(5%)		s	s	s	s	s

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Table 25. Long term effect of organic and inorganic fertilizers on Maize in maize-wheat rotation under rainfed conditions at Almora

Treatment	Grain yield (kg/ha)	No. of Cobs (000/ha)	Days to 50% silking	Plant height in (cm)	1000 grain weight (g)
T1	401	38.3	66.7	151.7	144.7
T2	3840	64.8	57.0	227.7	204.7
T3	926	46.3	60.7	161.7	169.3
T4	630	46.9	65.3	153.3	155.3
T5	957	49.4	61.3	182.3	177.3
T6	3099	63.0	52.7	198.7	206.0
T7	5784	68.5	48.7	238.0	246.7
T8	4846	63.0	50.7	233.7	230.0
T9	2623	59.3	52.7	190.7	207.3
T10	4105	62.3	52.0	223.3	244.7
T11	5414	69.1	50.0	236.7	242.0
T12	3827	63.0	53.0	214.0	227.3
T13	2870	61.1	53.7	219.0	212.7
T14	2728	65.4	53.7	227.0	200.0
T15	4364	64.8	52.3	236.3	230.7
T16	5093	65.4	52.0	232.0	234.7

Mean	3219.1	59.4	55.1	207.8	208.3
CD	968.1	12.1	1.7	18.0	15.2
CV (%)	18.0	12.2	1.8	5.2	4.4
Significance	S	S	S	S	S

Maize

- T1= Control
- T2= Rec. NPK (90:60:40 kg/ha)
- T3= Rec. NP
- T4= Rec. NK
- T5= Rec. PK
- T6= 10 t/ha FYM
- T7= 10 t/ha FYM+100% NPK
- T8= 10 t/ha FYM+100% NPK
- T9= No fertilizer
- T10= Rec. NPK
- T11= 10 t/ha FYM+50% NPK
- T12= Rec. NPK
- T13= Wheat straw (5 t/ha)+50% NPK
- T14= 10 t/ha kudzu (fresh)
- T15= 10 t/ha kudzu (fresh)+50% NPK
- T16= Rec. NPK

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Table 26. Long term effect of organic and inorganic fertilizers on Wheat in maize-wheat rotation under rainfed conditions at Almora

Treatment	Grain Yield (kg/ha)	Effective tillers/m row length	No of Grain/ear	Plant height (cm)	1000 grain weight (g)
T1	437	33.7	35.6	81.6	39.3
T2	1330	40.3	44.1	90.3	41.0
T3	814	34.3	43.3	84.8	37.7
T4	442	29.7	42.8	78.7	41.3
T5	814	44.3	34.4	87.1	41.3
T6	1295	55.7	34.6	94.7	41.0
T7	2870	76.0	42.3	108.7	42.3
T8	1426	60.3	34.9	91.7	42.3
T9	1640	63.3	47.1	95.3	41.3
T10	1251	55.0	44.8	92.3	41.3
T11	2489	72.7	41.1	98.2	40.7
T12	1400	57.3	34.3	93.3	40.0
T13	1417	63.3	41.1	92.5	40.0
T14	1229	57.0	41.2	97.7	41.7
T15	2270	66.0	37.9	97.1	41.3
T16	1662	62.0	51.7	97.3	42.7

Mean	1424.2	54.4	40.7	92.6	41.0
CD	563.6	14.6	12.5	6.7	1.7
CV (%)	23.7	16.1	18.4	4.3	2.5
Significance	S	S	N.S.	S	S

- Wheat**
- T1= Control
 - T2= Rec. NPK (60:30:20 kg/ha)
 - T3= Rec. NP
 - T4= Rec. NK
 - T5= Rec. PK
 - T6= 10 t/ha FYM
 - T7= 10 t/ha FYM+100% NPK
 - T8= No fertilizer
 - T9= 10 t/ha FYM+100% NPK
 - T10= 10 t/ha FYM
 - T11= 10 t/ha FYM+50% NPK
 - T12= Maize stalk (5 t/ha)+50% NPK
 - T13= Rec. NPK
 - T14= 10 t/ha kudzu (fresh)
 - T15= Rec. NPK
 - T16= 10 t/ha kudzu (fresh)+50% NPK

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Table 27. Effect of insitu green manuring on maize yield at Almora

Treatment	Grain yield ((kg/ha)	No. of Cobs (000/ha)	Days to 50% silking	Plant height (cm)	1000 grain weight (g)
T1	6435	68.5	54.0	219.0	248.7
T2	5417	65.7	53.0	213.3	253.3
T3	5218	65.3	52.7	220.7	246.3
T4	5231	66.7	53.3	199.7	255.0
T5	5394	66.2	52.3	221.3	245.0
T6	6435	68.5	53.3	216.0	253.3
T7	6097	68.1	53.0	206.3	267.3
T8	5718	67.6	52.7	212.3	257.0
T9	6181	66.7	53.0	211.3	260.7
T10	6204	66.7	53.7	217.3	259.3
Mean	5832.9	67.0	53.1	213.7	254.6
CD	1290.1	3.1	1.9	20.3	14.7
CV (%)	12.9	2.7	2.1	5.5	3.4
Significance	N.S.	N.S.	N.S.	N.S.	N.S.

- T1= Pure maize with recommended NPK (100:60:40 kg/ha)
T2= Maize+sunhemp 40 DAS incorporation (75% rec.NPK)
T3= Maize+sunhemp 85 DAS incorporation (100% rec.NPK)
T4= Maize+cowpea 40 DAS incorporation (75% rec.NPK)
T5= Maize+cowpea 85 DAS incorporation (100% rec.NPK)
T6= As T1 in paired rows (30/90 cm)
T7= As T2 in paired rows (30/90 cm)
T8= As T3 in paired rows (30/90 cm)
T9= As T4 in paired rows (30/90 cm)
T10= As T5 in paired rows (30/90 cm)

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Table 28. Agronomic management for excessive moisture at Bahraich

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Days to 50% silking
T1	5117	49.3	51.3	178.8	59.5
T2	5775	53.5	53.9	178.8	59.5
T3	6233	54.7	55.7	193.8	58.3
T4	6224	53.3	53.9	195.3	59.0
T5	6347	52.2	52.9	200.3	58.8
T6	5897	52.5	53.1	200.3	59.0
T7	5986	53.1	53.6	197.0	58.0
T8	5653	51.3	51.9	199.5	59.8
Mean	5904.0	52.5	53.3	192.9	59.0
CD	541.7	1.6	1.5	11.0	1.6
CV (%)	6.2	2.1	1.9	3.9	1.9
Significance	S	S	S	S	N.S.

T1 = Conventional method (flat)

T2 = Flat sowing followed by earthing (30 DAS)

T3 = Ridge sowing

T4 = Raised bed sowing

T5 = T4 + 3% urea spray at 45 (DAS)

T6 = 25% urea (N. 120 kg./ha) 10 DAS, 50% N at knee high stage, 25% at tasseling stage

T7 = Treat 5 + Treat 6

T8 = Treat 6 + Treat 7

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Table 29. Agronomic management for excessive soil moisture condition at Dholi

Treatment	Grain Yield (kg/ha)
T1	3133
T2	2956
T3	3889
T4	3044
T5	3511
T6	2600
T7	3222
T8	3178

Mean	3191.7
CD	1182.8
CV (%)	21.2
Significance	N.S.

T1 = Conventional method (flat)

T2 = Flat sowing followed by earthing (30 DAS)

T3 = Ridge sowing

T4 = Raised bed sowing

T5 = T4 + 3% urea spray at 45 (DAS)

T6 = 25% urea (N. 120 kg./ha) 10 DAS, 50% N at knee high stage, 25% at tasseling stage

T7 = Treat 5 + Treat 6

T8 = Treat 6 + Treat 7

Table 30. Crop Management strategies for Improving Maize productivity under excessive moisture condition at Kanpur

Treatment	Grain Yield (kg/ha)	Plant Stand (000,ha)	Days to 50% anthesis	Days to 50% silk	Plant height (cm)	Ear height (cm)	No. of Barren Plant	No. of cobs (000/ha)
T1	4306	58.6	58.0	60.0	152.0	138.3	2.0	56.1
T2	5611	54.2	54.3	59.0	147.0	131.3	1.7	52.5
T3	5639	56.4	54.3	58.0	146.0	133.0	2.0	54.7
T4	6028	59.2	57.0	60.3	144.0	131.0	1.0	58.3
T5	6389	55.8	54.3	57.7	147.0	133.7	1.3	54.7
T6	6528	56.1	53.3	57.3	145.7	133.3	1.0	55.3
Mean	5750.0	56.7	55.2	58.7	146.9	133.4	1.5	55.3
CD	321.6	1.3	2.3	2.6	1.8	3.3	0.9	1.9
CV (%)	3.1	1.2	2.3	2.4	0.7	1.4	32.2	1.9
Significance	S	S	S	N.S.	S	S	N.S.	S

Treatments

T1- Conventional (flat)

T2- Flat sowing + Earthing up at 30 DAS

T3- Ridge Sowing + Earthing up at 30 DAS(Before Excessive moisture treatment

T4- 3% urea Spray at 45 and 52 DAS

T5- 25% N (120kg/ha) 10 days after emergence + 50% one days before excessive moisture treatment + 25% at tesseling Stage

T6- Treatment 4+ Treatment 5

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Table 31. Crop management Strategies for improving maize productivity under excessive moisture seven days water stagnation at Varanasi

Treatment	Grain Yield (kg/ha)	Stover Yield (kg/ha)	Ear height (cm)	Plant Stand (000/ha)	No. of cobs (000/ha)	No. of Barren Plant	Lodging (%/plot)	Plant height (cm)	Days to 50% Anthesis	Days to 50% silking
T1	935.2	2685.2	54.0	33.0	31.3	1.7	8.0	187.0	50.3	57.3
T2	688.9	2129.6	56.7	27.0	26.3	0.7	12.5	165.3	53.0	55.3
T3	1814.8	4296.3	70.7	43.7	42.6	1.9	4.2	197.0	52.3	59.7
T4	1498.1	3555.6	61.7	38.9	38.9	0.9	7.7	185.3	52.0	59.7
T5	2935.2	6203.7	80.0	42.2	42.2	0.9	3.8	211.7	50.3	55.3
T6	766.7	2537.0	53.7	30.2	29.4	0.7	10.6	164.3	50.0	58.0
T7	940.7	2740.7	58.3	28.0	27.8	0.4	11.0	172.3	51.3	58.0
T8	824.1	2129.6	57.7	24.4	24.8	0.2	14.9	171.3	50.3	55.0
Mean	1300.5	3284.7	61.6	33.4	32.9	0.9	9.1	179.3	51.2	56.8
CD	404.7	460.7	10.4	6.2	6.3	1.2	4.6	10.1	2.0	3.7
CV (%)	17.8	8.0	9.7	10.7	10.9	76.2	28.8	3.2	2.2	3.7
Significance	S	S	S	S	S	N.S.	S	S	S	N.S.

T1 Conventional (flat)

T2 Flat sowing followed by earthing (30 DAS)

T3 Ridge sowing

T4 Ridge sowing followed by earthing at (30 DAS)

T5 Raised Bed sowing

T6 3% Urea spray at 45 and 52 DAS

T7 Application of 25% N at 10 days of emergence, 50% at knee high and 25% at tasseling stages

T8 Treat 6 + Treat 7

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Table 32. Agronomic Management for soil moisture at Jorhat

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)	No. of Barren Plant.
1	1770	54.2	50.2	54.5	161.5	50.2
2	1612	54.5	46.3	53.5	170.3	46.3
3	2417	57.3	54.5	54.5	171.3	54.5
4	2183	62.2	58.2	53.8	171.8	58.2
5	3165	68.5	64.2	53.0	179.5	64.2
6	2942	67.5	65.2	55.0	183.0	65.2
Mean	2348.1	60.7	56.4	54.0	172.9	56.4
CD	329.7	4.5	3.5	1.7	8.2	3.5
CV (%)	9.3	4.9	4.1	2.1	3.2	4.1
Significance	S	S	S	N.S.	S	S

Treatment

1. Conventional (flat)
2. Flat sowing + earthing up at 30 DAS
3. Ridge sowing + earthing up at 30 DAS
4. 3% urea spray at 45 and 52 DAS
5. 25% N, 10 DAS + 50% N one day before
6. Treatment 4 + treatment 5

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Table 33. Moisture management through agronomical manipulating and use of agro-chemicals in rainfed maize at Srinagar

Treatment	Grain Yield (kg/ha)	Plant stand (000/ha)	Days to 50% Silking	Plant height (cm)
A ₁ X B ₁	3564	125.7	62.3	140.0
A ₁ X B ₂	4006	126.2	62.3	149.3
A ₁ X B ₃	3837	129.0	62.0	146.7
A ₂ X B ₁	5353	136.1	74.0	208.0
A ₂ X B ₂	5663	136.5	74.7	215.3
A ₂ X B ₃	5494	137.8	73.7	210.7
A ₃ X B ₁	5160	138.6	73.0	204.3
A ₃ X B ₂	5420	128.7	74.7	203.3
A ₃ X B ₃	5288	134.4	75.3	201.0
A ₄ X B ₁	5096	133.2	71.7	199.7
A ₄ X B ₂	5410	136.4	73.3	204.3
A ₄ X B ₃	5314	135.5	74.7	200.7
A ₅ X B ₁	4859	133.6	71.0	200.7
A ₅ X B ₂	5141	133.8	72.7	199.0
A ₅ X B ₃	4987	134.4	73.0	201.0
A ₆ X B ₁	5202	133.7	71.7	203.3
A ₆ X B ₂	5513	134.2	73.7	206.7
A ₆ X B ₃	5385	132.9	73.3	205.3

Mean of location	5038.5	133.4	71.5	194.4
C.D. at 5 %	503.4	5.0	3.0	5.8
F	n.s.	n.s.	n.s.	n.s.

A ₁	3802	127.0	62.2	145.3
A ₂	5503	136.8	74.1	211.3
A ₃	5290	133.9	74.3	202.9
A ₄	5274	135.0	73.2	201.6
A ₅	4996	133.9	72.2	200.2
A ₆	5366	133.6	72.9	205.1

C.D. at 5 %	290.7	2.9	1.7	3.4
F	s	s	s	s

B ₁	4872	133.5	70.6	192.7
B ₂	5192	132.6	71.9	196.3
B ₃	5051	134.0	72.0	194.2

C.D. at 5 %	205.5	2.0	1.2	2.4
C.V. %	6.0	2.2	2.5	1.8
F	s	n.s.	s	s

Cont.

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Factor A

- A₁ Conventional sowing in flat beds
- A₂ Sowing in flat beds followed by earthing up at 30 DAS
- A₃ Trench sowing 6 inch deep— population correction
- A₄ Inter cultivation at 2 and 35 DAS
- A₅ In-stiu mulching (1.1) 30 DAS*
- A₆ Inter cultivation at 20 and 30 DAS and mulching by crop raised in intr.

Factor B

- B₁ Water spray
- B₂ Primed seed 0.1% thiourea + cycocel 100 ppm spray at late knee-high
- B₃ Primed seed 0.1% thiourea + Brasinosteriod 0.04% spray at late knee-high

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Table 34. Moisture management studies in rainfed maize at Udaipur

Treatment	Grain Yield (kg/ha)	Stover yield (kg/ha)	Dry Matter/Plant harvest (g/plant)	Dry matter (g/plant) at 75%	(%) Moisture content of Soil at	(%) moisture content of soil at 75 DAS	Net returns Rs (000/ha)
T1	1466.7	2220.0	49.7	40.4	14.1	12.0	4.2
T2	2683.3	4078.3	91.0	80.3	16.1	14.0	14.1
T3	2010.0	3015.2	66.8	57.3	14.1	12.1	8.7
T4	2338.3	3524.5	79.3	69.2	14.0	12.0	11.2
T5	2003.3	3004.2	67.4	56.7	15.1	13.6	8.6
T6	1675.0	2515.3	58.2	40.3	15.0	13.4	5.5
T7	2960.0	4440.3	98.4	90.4	14.6	12.1	17.6
T8	2951.7	4255.5	94.9	85.3	14.1	12.1	17.0
Mean	2261.0	3381.7	75.4	65.0	14.6	12.7	10.9
CD	369.4	540.6	6.1	6.9	1.6	1.3	3.4
CV (%)	11.1	10.9	5.5	7.2	7.2	6.9	21.1
Significance	S	S	S	S	N.S.	S	S

Treatments

T1 Conventional sowing in flat beds

T2 Sowing in flat beds followed by earthing up at 30 DAS

T3 Mid Season population correction up to 50% and in situ mulching

T4 Intercultivation at 20 and 35 DAS

T5 *In situ* mulching 1:1 row ratio 30 DAS

T6 Intercultivation at 20 and 30 DAS and mulching of crop raised in intra-row space

T7 Spray of brassinosteroids at 0.04% at late knee-high stage

T8 Thiourea spray @ 0.2% at flowering stage twice (each at pre-flowering and 50% silking sta

Table 35. Moisture management studies in rainfed maize at Chindwara

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
T1	3811	67.4	48.9	54.3	153.3
T2	4330	69.3	57.8	53.3	179.3
T3	3833	68.1	54.1	53.7	159.0
T4	4052	69.3	57.8	53.3	174.7
T5	4219	69.6	58.5	53.7	181.0
T6	3959	69.3	57.4	53.7	158.7
T7	4133	69.6	58.1	53.3	176.7
T8	3644	69.3	57.8	53.7	162.7
Mean	3997.7	69.0	56.3	53.6	168.2
CD	695.5	6.1	10.2	1.0	25.9
CV (%)	9.9	5.1	10.4	1.0	8.8
Significance	N.S.	N.S.	N.S.	N.S.	N.S.

- T1= Conventional sowing in flat beds.
- T2= Sowing in flat beds followed by earthing up at 35 days
- T3= Mid season population correction up to 50% and in-situ mulching
- T4= Inter cultivation at 20 and 35 DAS
- T5= Spray of Brasinosteroids 0.4% spray at late knee-high stage.
- T6= Thiourea Spray @ 0.2% at flowering stage twice (each at pre-tasselling and 50% Silking stage)
- T7= Inter cultivation at 20 and 35 DAS + Mid season population correction up to 50% and mulching
- T8= Maize:Sesbania (1:1) in-situ mulching at 30 DAS

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Table 36. Effect of different methods of planting on maize at karnal

Treatment	Grain Yield (kg/ha)
Ridge center sowing	5200
Ridge side sowing	5617
Flat bad center sowing	4773
Furrow sowing	4347
Flat sowing	6013

Mean	5190
CD	2402.8
CV (%)	24.6
Significance	N.S.

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Table 37. Intercropping studies in Kharif Maize at Ambikapur

Treatment	Maize crop yield (kg/ha)	Inter crop yield (kg/ha)	Maize equivalent Weight	Plant Stand (000/ha)	Plant height (cm)
T1	5175.0	0.0	12.4	80.0	227.7
T2	0.0	1850.0	13.8	0.0	0.0
T3	0.0	1616.7	12.1	0.0	0.0
T4	0.0	4375.0	7.0	0.0	0.0
T5	2979.2	1313.9	17.0	40.0	229.0
T6	2933.3	1158.3	15.7	38.3	228.7
T7	2858.3	2812.5	11.4	36.3	230.6
T8	4112.5	1200.0	18.8	59.2	227.5
T9	4016.7	979.2	16.9	56.7	229.3
T10	3800.0	2291.7	12.8	58.3	230.4
Mean	2587.5	1759.7	13.8	36.9	160.3
CD	245.8	389.8	1.3	1.8	9.2
CV (%)	5.5	12.9	5.5	2.9	3.3
Significance	S	S	S	S	S

T1=Maize alone

T2= Groundnut alone

T3= Soyabean alone

T4= Okra alone

T5= Maize + Groundnut (Maize 120 cm in between 3 rows of G.N. at 30 cm)

T6= Maize + Soyabean (1:3) (Maize 120 cm in between 3 rows of soybean at 30 cm)

T7= Maize + Okra (1:2) (Maize 120 cm and 2 rows of Okra. At 40cm in between the rows o

T8= Paired row of maize at 50 cm+3rows of G.N. (at 25 cm)

T9= Paired row of maize at 50 cm+3rows of soybean (at 25 cm)

T10= Paired row of maize at 50 cm+2rows of Okra (at 40 cm)

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Table 38. Studies on intercropping insitu green manuring for chemical fertilizer economy in maize based cropping system at Kangra

	Grain yield (kg/ha)	Stover yield (kg/ha)
T1xF1	3229	7063
T1xF2	3854	8480
T1xF3	4826	10469
T2xF1	3577	7997
T2xF2	4167	9172
T2xF3	4896	10903
T3xF1	4583	10200
T3xF2	5104	11038
T3xF3	6215	13247
T4xF1	1493	3330
T4xF2	2465	5523
T4xF3	3160	7039
T5xF1	4410	10199
T5xF2	4827	11473
T5xF3	5465	13337

Mean of local 41.5 93.0
 C.D. at 5 % 9.9 21.8
 F n.s. n.s.

T1	3970	8670
T2	4213	9358
T3	5301	11495
T4	2373	5297
T5	4901	11670

C.D. at 5 % 5.7 12.6
 F s s

F1	3458	7758
F2	4083	9137
F3	4913	10999

C.D. at 5 % 4.4 9.8
 C.V. % 14.3 14.0
 F s s

Treatment

Main Plots

- T1. Maize pure
- T2. Maize+soybean
- T3. Maize+cowpea (GM)
- T4. Maize+cowpea (Grain)
- T5. Maize+Crotolaria (GM)

Sub Plot

- F1. 50% recommended fertilizer
- F2. 50% NPK + 25% VC +25% FYM+ Azot. & PSB
- F3. 100% Recommended fertilizer

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Table 39. Intercropping of sweet corn with vegetable at Jashipur

Treatments	Yield of green cob (kg/ha)	Yield of inter-crop (kg/ha)	Green cob equivalent yield (kg/ha)
Maize	13643	0.0	13643.3
Maize + Okra 1:1	8393	3205.3	18010.0
Maize + Okra 2:1	9547	2190.0	16116.7
Maize + Cowpea 1:1	5040	4590.0	18810.0
Maize + Cowpea 2:1	6107	3420.3	16386.7
Maize + Radish 1:1	9823	11263.3	15556.7
Maize + Radish 2:1	7823	10606.7	13230.0
Maize + Amaranthus 1:1	10990	3353.3	14343.3
Maize + Amaranthus 2:1	10507	3906.7	14413.3

Mean	9119.3	4726.2	15610.0
CD	2012.0	775.6	2526.8
CV (%)	12.7	9.5	9.4
Significance	S	S	S

Treatments	Plant Stand (000/ha)	No. of Cobs (000/ha)	Green Cob weight (g)
Maize	26.0	26.9	123.2
Maize + Okra 1:1	25.1	17.2	111.9
Maize + Okra 2:1	25.1	19.9	108.1
Maize + Cowpea 1:1	24.4	12.6	77.5
Maize + Cowpea 2:1	23.3	15.3	80.5
Maize + Radish 1:1	23.1	20.6	109.2
Maize + Radish 2:1	24.9	18.4	98.6
Maize + Amaranthus 1:1	23.7	21.5	115.9
Maize + Amaranthus 2:1	25.9	21.0	113.5

Mean	24.6	19.3	105.4
CD	2.1	3.9	10.5
CV (%)	4.9	11.6	5.8
Significance	N.S.	S	S

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Table 40. INM through organic sources for maize based cropping system at Banwara

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of Cob (000/ha)	Days to 50% silking	Plant height (cm)
T1	5407	11.8	11.6	48.7	194.6
T2	5842	11.7	11.7	49.3	198.5
T3	4535	12.0	10.9	49.3	186.1
T4	4765	11.7	11.1	49.0	190.9
T5	4707	11.8	11.1	50.0	186.5
T6	4966	11.9	11.3	50.3	189.4
T7	4468	11.6	10.9	50.3	186.0
T8	4417	11.9	10.8	50.7	185.9
T9	4161	11.6	10.7	51.0	178.7
T10	3894	11.6	10.5	51.0	175.2
Mean	4696.1	11.8	11.1	50.0	187.2
CD	813.6	0.6	1.1	2.3	12.7
CV (%)	10.1	2.7	5.7	2.6	3.9
Significance	S	N.S.	N.S.	N.S.	S

T1- Farmer's existing practice

T2- Recommended practice

T3- 50% FYM + 50% commercial fertilizer

T4- 50% Vermicompost + 50% commercial fertilizer

T5- 25%FYM + 25% Vermicompost + 50% chemical fertilizer

T6- 25%FYM + 25% Vermicompost + Azoto&PSB + 50% chemical fertilizer

T7- 25%FYM + 25% Vermicompost + Azoto&PSB + 25% chemical fertilizer

T8- 25%FYM + 25% Vermicompost + Azoto&PSB + Insitu green manuring (s.n.)

T9- 25%PROM + 25% Vermicompost + Azoto&PSB + Insitu green manuring (s.n.)

T10- 25%PROM + 25% Vermicompost + Azoto&PSB

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Table 41. Evaluation of location specific maize based vegetable oriented cropping sequences for higher productivity at Kangra

Treatment	Yield of crops (Tons/ha)				Return (Rs/ha) Kharif		Gross return Rs/ha) sequence	Net return (Rs/ha) sequence
	Kharif	Rabi I	Rabi II	Rabi III	Gross	Net		
Maize (green)-cauliflower-cauliflower-cowpea(GM) (May)	52,000	12	8	-	55,000	40,000	2,23,000	1,08,000
Maize (green)-cauliflower-radish-sunhemp (June)	45,000	14	8.5	-	35,625	20,625	1,54,250	74,250
Maize (babycom)-radish-Cauliflower-French bean (May)	1.7	11.5	14.8	6.8	32,100	12,100	2,45,150	1,35,150
Maize (babycom)-Turnip-onion(green+bulb)-sunhemp	1.8	14.2	12.0 +6.0	-	33,900	13,900	2,10,700	1,45,700
Maize (grain)-Spianch-sunhemp (May)	4.84	16.5	-	-	31,040	16,040	71,540	31,540
Maize (grain)-Fenugreel-mash (May)	5.22		-	-	33,820	18,820	64,820	24,820
Maize (grain)-french bean-Garlic (May)	5.44	7.4	19	-	35,140	20,140	3,22,340	2,37,340
Maize (grain)-Brown sarson (green+seed)-sunhemp (June)	5.04	2.6 +1.8	-	-	32,740	17,740	78,140	48,140
Maize+ginger+Brown sarson (saag)-potato-sunhemp (June)	4.84 +4.3 +1.8	22.4	-	-	1,04,540	68,540	2,16,540	1,40,540
Maize+Cucumber-peas-sunhemp (June)	4.64 +8.6	13.8	-	-	72,840	56,840	2,38,440	1,77,540
Maize+French bean - cauliflower-French bean (June)	4.34 +0.2	15.4	11.4	-	30,040	14,040	2,44,440	1,53,440
Maize+YLB-broccoli-French bean (June)	4.98 +4.3	5.4	12.4	-	60,880	44,880	2,46,480	1,55,480

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Table 42. Inter cropping in Kharif maize at Karnal

Treatment	Maize Grain Yield (kg/ha)	Inter crops Yield (kg/ha)
Maize + Moong	4266.7	4333.3
Maize + Urad	4446.7	0.0
Maize + Soyabean	4373.3	8600.0
Maize + Cowpea (Bean)	4173.3	0.0
Maize + Cowpea (Forage)	5293.3	8933.3
Maize + Coriander	5843.3	0.0
Maize + Radish	5726.7	0.0
Maize	6000.0	0.0

Mean	5015.4	2483.3
CD	171.8	279.9
CV (%)	2.0	6.4
Significance	S	S

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Table 43. Studies on INM system through organic sources for maize based cropping system under rainfed agro ecosystem at Kangra

Treatment	Grain yield (kg/ha)	Stover yield (kg/ha)
T1	5361	16829
T2	6025	19584
T3	4426	14352
T4	4761	15417
T5	4917	15463
T6	4296	15556
T7	3356	13217
T8	1021	6042
T9	1003	4630
T10	3660	14306

Mean	38.8263	135.4
CD	4.25252	17.1
CV (%)	6.38468	7.4
Significance S		S

- T1. Farmers existing practice
- T2. Recommended practice
- T3. 50% FYM+ 50% chemical fertilizer.
- T4. 50% VC+ 50% chemical fertilizer.
- T5. 25%FYM+25%VC+Azoto&PSB+50% chemical fertilizer
- T6. 25%FYM+25%VC+Azoto&PSB+25% chemical fertilizer
- T7. 25%FYM+25%VC+Azoto&PSB+insitu green manuring
- T8. 25%FYM+25%VC+Azoto&PSB+Insitu green manuring
- T9. 25%FYM+25%VC+Azosp.&PSB+Insitu green manuring
- T10. 25%FYM+25%VC+Azosp.&PSB+25%chemical fertilizer

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Table 44. Effect of different fertilizer treatment in combination with FYM on maize at different locations

Treatments	Grain Yield* (kg/ha)	Plant stand (000/ha)	No. of cobs (000/ha)	Plant height (cm)	Barrenness (%)
No FYM + 100% RD of NPK	4716.8	62.1	60.7	158.1	2.3
FYM @ 5 t/ha (Oven Dry)+ 100% RD of NPK	5172.6	63.3	62.2	170.7	1.5
FYM @ 5 t/ha (Oven Dry)+ 50% RD of NPK	4378.2	62.5	58.9	157.1	2.0
Farmers' Practice (FYM + 40% RD of N only at knee high stage)	3487.0	59.7	57.6	158.8	3.3

Mean 4438.7 61.9 59.8 161.2 2.3

CD 465.7 3.1 4.4 14.3 1.0

CV (%) 7.6 3.7 5.4 6.4 31.1

Significance S N.S. N.S. N.S. S

*Mean of 5 Locations

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Table 45. Intercropping studies on Weed x Nitrogen Management at Ambikapur

Treatment	Grain Yield (kg/ha)	Plant stand (000/ha)	Plant height (cm)	Days to 50% silking	Weed dry weight
N ₁ X W ₁	3390	73.8	167.8	51.3	220.3
N ₁ X W ₂	4448	75.1	195.6	52.7	232.5
N ₁ X W ₃	4362	76.3	198.2	52.3	228.9
N ₁ X W ₄	5152	76.0	204.6	53.3	221.2
N ₂ X W ₁	3657	75.6	176.2	52.3	232.4
N ₂ X W ₂	4990	75.2	202.4	51.0	236.6
N ₂ X W ₃	4914	76.7	205.6	52.3	230.4
N ₂ X W ₄	5543	76.2	213.8	53.0	223.8
N ₃ X W ₁	3581	76.8	174.6	52.3	242.3
N ₃ X W ₂	4933	76.5	204.6	51.7	238.4
N ₃ X W ₃	4871	77.5	208.4	52.0	231.4
N ₃ X W ₄	5190	77.3	216.8	52.3	225.9
N ₄ X W ₁	3871	77.1	187.4	52.7	256.8
N ₄ X W ₂	5786	77.6	210.5	53.0	241.3
N ₄ X W ₃	5629	77.0	213.6	52.3	234.6
N ₄ X W ₄	6267	77.6	221.8	51.7	229.8

Location mean	4786.6	76.4	200.1	52.3	232.9
C.D.(5%) AiBj-AiBk	604.2	4.4	11.2	2.0	17.4
C.D.(5%) AiBk-AjBk	655.8	4.6	10.6	2.0	20.7
F(5%)	n.s.	n.s.	n.s.	n.s.	n.s.

N ₁	4338	75.3	191.6	52.4	225.7
N ₂	4776	75.9	199.5	52.2	230.8
N ₃	4844	77.0	201.1	52.1	234.5
N ₄	5388	77.3	208.3	52.4	240.6

C.D.(5%) Ai-Aj	398.8	2.7	4.3	1.1	14.3
C.V.(%) Error A	8.3	3.5	2.2	2.1	6.1
F(5%)	s	n.s.	s	n.s.	n.s.

W ₁	3625	75.8	176.5	52.2	238.0
W ₂	5039	76.1	203.3	52.1	237.2
W ₃	4944	76.9	206.5	52.3	231.3
W ₄	5538	76.8	214.3	52.6	225.2

C.D.(5%)Bi-Bj	302.1	2.2	5.6	1.0	8.7
C.V.(%)ErrorB	7.5	3.4	3.3	2.3	4.4
F(5%)	s	n.s.	s	n.s.	s

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Main Plot:- Nutrient

N_1 = 50% of recommended

N_2 = 75% of recommended

N_3 = 50% of recommended + tones of FYM in rows

N_4 = 100% of recommended

Sub plot:- Weed Management

W_1 = Weedy check

W_2 = Interculture at 20 and 35 DAS fb earthing

W_3 = Per-emergence application of Atrazine @ $0.75 \text{ kg a.l. ha}^{-1}$ + earthing at 35 DAS

W_4 = Per-emergence application of Atrazine @ $0.75 \text{ kg a.l. ha}^{-1}$ + Interculture at 35 DAS fb earthing

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Table 46. Effect of different fertilizer treatments on grain yield (q/ha) of maize at farmers' fields.

Treatment/Location	Grain yield (q/ha)
No FYM + 100% RD of NPK	47.168
FYM @ 5 t/ha (Oven Dry)+ 100% RD of NPK	51.7
FYM @ 5 t/ha (Oven Dry)+ 50% RD of NPK	43.8
Farmers' Practice (FYM + 40% RD of N only at knee high stage)	35.7
Mean of 5 location	
Mean	44.8
CD	5.6
CV (%)	9.2
Significance	S

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Table 47. Studies on INM system through organic sources for maize based cropping system under rainfed agro-eco-system at Chindwara

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
T1	2807	58.1	53.0	52.7	173.7
T2	4770	66.3	75.6	53.3	194.7
T3	3463	63.3	58.1	53.3	182.7
T4	4537	66.3	61.5	54.0	185.0
T5	3856	65.2	61.1	53.7	182.7
T6	4422	65.6	61.5	54.0	185.0
T7	3263	61.9	55.9	54.3	180.0
T8	3041	60.7	54.4	55.0	177.3
T9	3119	61.1	55.9	54.0	177.7
T10	2974	58.5	53.0	54.3	176.0
Mean	3625.2	62.7	59.0	53.9	181.5
CD	471.0	7.6	17.0	1.0	25.9
CV (%)	7.6	7.1	16.8	1.1	8.3
Significance	S	N.S.	N.S.	S	N.S.

- T1= Farmer's existing practice
T2 = Recommended practice
T3= 50% FYM + 50% commercial fertilizer
T4= 50% Vermi-compost + 50% commercial fertilizer
T5= 25%FYM + 25% Vermicompost + 50% chemical fertilizer
T6= 25%FYM + 25% Vermicompost + Azoto&PSB + 50% chemical fertilizer
T7= 25%FYM + 25% Vermicompost + Azoto&PSB + 25% chemical fertilizer
T8= 25%FYM + 25% Vermicompost + Azoto&PSB + Insitu green manuring (s.n.)
T9= 25%NADEP + 25% Vermicompost + Azoto&PSB + Insitu green manuring
T10= 25%NADEP + 25% Vermicompost + Azoto&PSB

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Table 48. Effect of organic and inorganic source of nutrients on the performance of Maize at Delhi

Treatment	Grain Yield (kg/ha)	Stover weight (Kg/Plot)	Plant Stand (000/ha)	No of cobs (000/ha)	Plant height (cm)
T1- Control	3156	5.1	66.2	64.9	131.0
T2- N120, P80, K25 Kg/ha	6844	10.1	66.2	65.8	146.7
T3- N60, P30, K25 Kg/ha	4844	7.4	66.7	64.0	141.0
T4- N120+FYM 10t/ha	6533	10.0	65.8	65.8	149.3
T5- N60+FYM 10t/ha	5556	7.1	66.2	64.9	146.3
T6- N120+FYM 10t+Zn So ₄ 25kg/ha	6622	9.1	66.7	66.2	152.3
T7- N60+FYM 10t+Zn So ₄ 25kg/ha	5689	7.7	65.3	64.9	146.7
T8- 10tFYM+Zn So ₄ 25kg/ha	4667	6.7	66.2	65.3	139.0
T9- 20tFYM+Zn So ₄ 25kg/ha	4800	7.1	65.8	64.0	133.3

Mean	5412.3	7.8	66.1	65.1	142.9
CD	512.2	0.8	1.7	2.1	4.4
CV (%)	5.5	5.9	1.5	1.9	1.8
Significance	S	S	N.S.	N.S.	S

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Table 49. Development of Integrated nutrient Management system through organic source for enhanced producing in Maize based cropping at Delhi

Treatment	Grain Yield (kg/ha)	Stover weight in (kg/ha)	Plant Stand (000/ha)	No of cobs (000/ha)	Plant height (cm)
F0- Control	2444	3.6	65.8	64.2	114.0
F1- N120, P60, K40	4400	7.7	64.9	65.3	131.0
F2- N60 (FYM)+N,60 (urea)	4200	6.9	64.4	63.8	129.0
F3- N90 (FYM) + Bio fertilizer	3667	5.8	66.4	65.6	125.0
F4- N90 (FYM) + Green Manuring	3533	4.9	65.3	64.0	126.3
F5- N60 (FYM) + B.F.+G.M.	3000	4.3	66.0	64.2	119.3
Mean	3540.7	5.5	65.5	64.5	124.1
CD	754.7	2.0	1.8	3.5	14.1
CV (%)	11.7	19.5	1.5	3.0	6.2
Significance	S	S	N.S.	N.S.	N.S.

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Table 50. INM system through organic sources for maize based cropping system under rainfed agro-ecosystem at Udaipur

Treatments	Grain Yield (kg/ha)	Stover Yield (kg/ha)	Net returns (000/ha)	B:C ratio
T1	929.6	1393.5	7.3	0.9
T2	1523.1	2288.9	15.9	1.6
T3	1298.1	1956.5	9.1	0.7
T4	1376.9	2075.9	10.5	0.8
T5	1340.7	2020.4	9.8	0.8
T6	1374.1	2080.6	10.4	0.8
T7	1187.0	1773.1	7.7	0.6
T8	1151.9	1718.5	6.1	0.5
T9	1113.0	1669.4	7.7	0.7
T10	1117.6	1681.5	8.6	0.8
Mean	1241.2	1865.8	9.3	0.8
CD	130.6	207.9	2.2	0.2
CV (%)	7.3	7.7	16.0	15.9
Significance	S	S	S	S

T1 Farmer's existing practice

T2 Recommended practice (Recommended N:P:K)+25kg ZnSO₄ ha⁻¹

T3. 50% FYM+ 50% chemical fertilizer.

T4. 50% Vermicompost+ 50% chemical fertilizer.

T5. 25%FYM+25%Vermicompost+ 50% chemical fertilizer.

T6.25% FYM+25%Vermicompost+Azoto.&PSB+50%chemical fertilizer

T7.25% FYM+25%Vermicompost+Azoto.&PSB+25%chemical fertilizer

T8.25% FYM+25%Vermicompost+Azoto.&PSB+In situ green manuring

T9.25% PROM*+25%Vermicompost+Azoto.&PSB+In situ green manuring

T10.25% PROM*+25%Vermicompost+Azoto.&PSB

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Table 51. Studies on weed and nitrogen management at Ambikapur

Treatment	Grain Yield (kg/ha)	Plant Stand (000/ha)	Plant height (cm)	Days to 50% Silking	Weed dry weight (gm ²) 60 DAS
T1	3962	78.4	190.2	52.7	148.7
T2	5195	77.5	207.6	53.0	26.9
T3	5524	79.0	207.9	54.3	27.4
T4	5933	80.6	220.5	51.7	18.4
T5	5686	78.9	212.2	54.0	25.2
T6	5786	79.2	216.6	53.7	23.4
T7	5743	78.9	214.5	53.3	23.8
T8	5857	79.2	217.1	52.3	21.3
Mean	5460.7	79.0	210.8	53.1	39.4
CD	870.6	2.9	6.5	1.6	16.6
CV (%)	9.1	2.1	1.8	1.7	24.1
Significance	S	N.S.	S	S	S

T1= Weedy check

T2= Farmers practice + one hand weeding at 35 DAS fb earthing

T3= One hand weeding at 35 DAS fb earthing

T4= Two hand weeding at 20 and 35 DAS fb earthing

T5= Per-emergence application of Atrazine @ 0.50 kg a.i. ha⁻¹ + earthing at 35 DAS

T6= Per-emergence application of Atrazine @ 0.50 kg a.i. ha⁻¹ + one hand weeding at 35 DAS fb earthing

T7= Per-emergence application of Atrazine @ 0.75 kg a.i. ha⁻¹ + earthing at 35 DAS

T8= Per-emergence application of Atrazine @ 0.75 kg a.i. ha⁻¹ + one hand weeding at 35 DAS fb earthing

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Table 52. Effect on N levels and Plant spacing on performance of Baby corn at Chindwara

Treatment		Green Baby corn Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Day to 50% silking	Plant height (cm)
N (kg/ha)	Spacing (cm)					
60	10	13963	129.2	111.6	54.7	186.3
60	15	10838	103.7	94.0	54.3	191.7
60	20	10106	76.9	74.1	53.7	196.3
120	10	15824	135.2	126.4	53.7	198.7
120	15	13815	108.8	105.1	52.7	199.3
120	20	12593	79.2	82.9	52.7	202.7
180	10	18944	138.0	134.3	52.7	204.7
180	15	17157	114.8	112.5	52.3	207.0
180	20	14208	83.8	89.4	52.3	210.3
Mean		14161.0	107.7	103.3	53.2	199.7
CD		2325.8	10.1	7.4	1.2	14.8
CV (%)		9.5	5.4	4.1	1.3	4.3
Significance		S	S	S	S	N.S.

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Table 53. Effect of N levels and Plant spacing of the performance of Sweet corn at Chindwara

Treatment		Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
N (kg/ha)	Spacing (cm)					
40	15	4806	85.6	76.4	56.0	156.0
40	20	4875	70.8	68.5	55.0	163.3
40	25	4889	63.4	56.9	53.7	163.7
80	15	5704	90.7	79.2	54.3	159.3
80	20	6056	76.4	69.0	54.0	164.0
80	25	5389	65.7	61.6	53.7	165.3
120	15	6222	94.4	88.9	53.3	161.0
120	20	5806	78.2	70.8	53.3	167.7
120	25	5528	66.2	67.6	53.3	177.0

Mean	5474.8	76.9	71.0	54.1	164.1
CD	888.6	9.0	12.4	1.3	15.6
CV (%)	9.4	6.7	10.1	1.4	5.5
Significance	S	S	S	N.S.	

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Table 54. Effect of N levels and Plant spacing on the performance of Pop corn at Chindwara

Treatment		Grain Yield (kg/ha)	Plant Stand (000/ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
N (kg/ha)	Spacing (cm)					
40	20	3417	72.2	75.5	55.0	183.0
40	25	3583	67.6	70.4	54.0	169.3
40	30	3528	61.1	68.1	52.7	172.7
80	20	4250	78.2	85.6	53.3	169.3
80	25	3667	69.9	74.1	53.3	175.0
80	30	3583	62.5	70.8	53.0	177.3
120	20	4750	82.4	88.0	53.0	178.0
120	25	4500	71.3	79.6	52.7	183.0
120	30	4222	71.3	72.7	53.0	183.3
Mean		3944.4	70.7	76.1	53.3	176.8
CD		646.4	16.7	8.8	1.2	15.7
CV (%)		9.5	13.6	6.7	1.2	5.1
Significance		S	N.S.	S	S	N.S.

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Table 55. Effect of plant geometry of cut flower as inter crop on yield of sweet corn at Chindwara

Treatment	Grain Yield (kg/ha)	Flower Yield (kg/ha)	Plant Stand (000ha)	No. of cobs (000/ha)	Days to 50% silking	Plant height (cm)
1	1978	1030.4	70.4	64.8	55.7	178.3
2	1848	1095.6	68.1	58.5	59.3	170.3
3	2693	801.9	71.9	64.1	55.3	182.7
4	2559	1083.3	70.4	62.6	55.7	172.7
5	2381	696.7	72.6	60.4	56.3	182.3
6	2315	784.4	69.3	58.1	57.3	189.3
7	2204	472.2	73.0	69.6	53.7	182.7
8	2067	474.4	70.0	60.4	55.7	178.7
9	3070	508.9	74.1	67.4	52.3	189.7
10	2911	581.1	74.8	70.7	54.3	182.7
11	2937	368.9	72.6	67.0	53.7	186.3
12	2900	474.4	70.7	65.9	54.3	179.3
13	3133	0.0	74.8	68.5	53.7	192.3

Mean	2538.2	644.0	71.7	64.5	55.2	180.6
CD	266.4	139.6	6.3	7.9	2.7	9.3
CV (%)	6.2	12.9	5.2	7.3	2.9	3.1
Significance	S	S	N.S.	S	S	S

1) Transplant at time of maize sowing

- 1= Sweet maize + marigold Big (1:1)
- 2= Sweet maize + marigold Big (1:2)
- 3= Sweet maize + marigold Small (1:1)
- 4= Sweet maize + marigold Small (1:2)
- 5= Sweet maize + Crysanthimum (1:1)
- 6= Sweet maize + Crysanthimum (1:2)

2) Transplant at time of 35 DAS of maize sowing

- 7= Sweet maize + marigold Big (1:1)
- 8= Sweet maize + marigold Big (1:2)
- 9= Sweet maize + marigold Small (1:1)
- 10= Sweet maize + marigold Small (1:2)
- 11= Sweet maize + Crysanthimum (1:1)
- 12= Sweet maize + Crysanthimum (1:2)
- 13= Control

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Table 56. Effect of sweet corn + green gram intercropping on productivity under different plant population and fertilizer levels at Udaipur

Treatment	Grain Yield (kg/ha)	Green fodder yield (kg/ha)	Net returns (000 Rs ha)
N ₁ MA P ₁	6030	4620	10.945
N ₁ MA P ₂	6940	5172.5	13.7775
N ₁ MG P ₁	5525	4232.5	12.2
N ₁ MG P ₂	6265	4820.0	14.7
N ₂ MA P ₁	8140	5150.0	17.0
N ₂ MA P ₂	8910	5847.5	19.7
N ₂ MG P ₁	7545	4812.5	18.3
N ₂ MG P ₂	8347.5	5470.0	20.9
N ₃ MA P ₁	8635	5340.0	18.4
N ₃ MA P ₂	9435	5947.5	20.9
N ₃ MG P ₁	8037.5	4810.0	19.7
N ₃ MG P ₂	8847.5	5645.0	22.2

Mean	7721.458	5155.6	17.4
C.D.	778.419	722.8	11.3
C.V.	6.115714	3.8	2.0
F.	S	S	S
C.D. (Inter crop)	499.346	309.6	1.6
F.	N.S.	N.S.	N.S.
C.D. (F. Level)	611.5714	379.2	2.0
F.	N.S.	N.S.	N.S.
C.D. (P. Population)	864.8926	536.3	2.8
F.	N.S.	N.S.	N.S.

Treatment	Green gram yield (kg/ha)
N1MGP1	333.25
N1MGP2	342
N2MGP1	338.75
N2MGP2	347.00
N3MGP1	343.75
N3MGP2	352.75

C.D. 15.86
F. n.s.

N1	337.63
N2	342.88
N3	348.25

C.D. 11.21
F. n.s.

P1	338.58
P2	347.25

C.D. 9.16
C.V. (%) 3.07

Symbol

MA

MG

*** Intercropping**

Sweet corn alone

Sweet corn + Green gram
(1:1 row ratio at 30 cm)

Symbo Fertilizer levels

N₁ 50+30 kg N + P₂O₅ha⁻¹

N₂ 70+40 kg N + P₂O₅ha⁻¹

N₃ 90+50 kg N + P₂O₅ha⁻¹

Symbol

P₁

P₂

Plant Population

66 t plants ha⁻¹ (60 x 25 cm)

83 t plants ha⁻¹ (60 x 20 cm)

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Table 57. Effect of Plant Population and Fertilizer level on the performance of (Popcorn) at Udaipur

Treatments combination	Grain Yield (kg/ha)	Stover Yield (kg/ha)	Biological Yield (kg/ha)	Harvest Index	Net returns Rs (000/ha)	B:C ratio
P ₁ F ₁	1183.3	2090.8	3274.2	36.2	9.7	1.0
P ₁ F ₂	1465.0	2313.5	3778.5	38.8	13.6	1.3
P ₁ F ₃	1486.7	2400.0	3886.7	38.3	13.5	1.3
P ₂ F ₁	1452.3	2413.3	3867.3	37.7	13.9	1.4
P ₂ F ₂	1797.3	2748.3	4539.0	39.5	18.8	1.9
P ₂ F ₃	1859.0	2818.3	4677.3	39.8	19.3	1.8
P ₃ F ₁	1474.3	2480.0	3934.3	37.6	14.2	1.5
P ₃ F ₂	1742.7	2813.3	4566.0	38.4	18.2	1.8
P ₃ F ₃	1776.0	2876.7	4652.7	38.2	18.1	1.7
P ₄ F ₁	1453.3	2478.3	3931.7	37.0	13.9	1.4
P ₄ F ₂	1735.0	2820.0	4555.0	38.1	17.9	1.7
P ₄ F ₃	1765.0	2876.7	4641.7	38.1	17.9	1.7

Mean of location	1599.2	2592.4	4192.0	38.1	15.7	1.5
C.D. at 5 %	247.1	422.5	617.6	3.2	4.0	0.4
F	s	n.s.	s n.s.	s	n.s.	

F ₁	1396.8	2304.4	3701.7	37.7	12.6	1.3
F ₂	1718.3	2710.0	4429.2	38.8	17.6	1.7
F ₃	1682.3	2762.9	4445.3	37.8	16.9	1.6

C.D. at 5 %	123.5	211.3	308.8	1.6	2.0	0.2
F	s	s	s	n.s.	s	s

P ₁	1585.6	2571.9	4155.3	38.0	15.5	1.5
P ₂	1592.4	2536.7	4129.2	38.5	15.6	1.5
P ₃	1565.3	2560.0	4125.3	38.0	15.2	1.5
P ₄	1653.3	2701.1	4358.3	38.0	16.7	1.6

C.D. at 5 %	142.6	243.9	356.6	1.9	2.3	0.2
C.V. %	10.7	11.3	10.2	5.9	17.5	17.5
F	n.s.	n.s.	n.s.	n.s.	n.s.	n.s.

Symbol

Plant Population
P ₁ 55,555 plants ha ⁻¹ (60 x 30 cm)
P ₂ 66,666 plants ha ⁻¹ (60 x 25 cm)
P ₃ 74,074 plants ha ⁻¹ (60 x 22.5 cm)
P ₄ 83,333 plants ha ⁻¹ (60 x 20 cm)

Symbol

Fertilizer levels
F ₁ 60+30 kg N + P ₂ O ₅ ha ⁻¹
F ₂ 90+45 kg N + P ₂ O ₅ ha ⁻¹
F ₃ 120+60 kg N + P ₂ O ₅ ha ⁻¹

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Table 58. Evaluation of different genotype for baby corn at Ludhiana

Treatment	Baby Corn Yield (kg/ha) With out husk	Baby Corn ear length (cm)	Baby Corn ear diameter (cm)	Green fodder Yield (kg/ha)
Prakash	1413.6	6.4	1.4	29784.0
JH3459	1478.4	7.7	1.3	33950.6
JH3851	1410.5	7.5	1.3	34722.2
JH31091	1503.1	6.9	1.3	27160.5
JH3956	1345.7	7.9	1.3	26388.9
JH31048	1231.5	6.8	1.3	29321.0
Mean	1397.1	7.2	1.3	30221.2
CD	142.1	0.6	0.1	1943.1
CV (%)	6.8	5.2	3.1	4.3
Significance	S	S	N.S.	S

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Table 59 . Effect different picking stage on yield and quality of baby corn at Ludhiana

Treatment (Silk Emergence)	Baby Corn Yield (kg./pt.)	Baby Corn Ear diameter (cm)	Baby Corn Ear Length (cm)	Protein (%) - Fresh weight Basis	Minerals (%) - Fresh weight Basis	Moisture (%)
1 Day after	1267.5	1.4	7.0	2.7	1.8	86.2
2 Days after	1493.8	1.5	9.8	2.3	1.5	87.4
3 Days after	1691.4	1.8	12.2	2.1	1.5	87.5
4 Days after	1991.8	2.0	13.3	1.8	1.2	88.4
5 Days after	2465.0	2.3	14.2	1.3	1.2	89.4
Mean	1781.9	1.8	11.3	2.0	1.4	87.8
CD	160.1	0.2	0.7	0.2	0.1	0.4
CV (%)	4.8	5.8	3.4	4.4	4.9	0.2
Significance	S	S	S	S	S	S

Table 60. Effect of Nitrogen levels at spacing on the performance of sweet corn at Kolhapur

Treatment	Yield of cobs with husk (kg/ha)	Plant Stand (000/ha)	Days to silking	Length of cob without husk (cm)	Diameter of rehusked cob (cm)	No of Cobs (000/ha)
N1 40	4200	61.9	56.0	15.6	12.5	34.6
N2 80	6157	63.7	54.3	16.4	12.8	42.0
N3 120	6913	64.3	54.3	17.2	12.6	41.7
N4 160	7711	66.5	55.0	16.4	12.5	51.3
N1 40	6963	81.5	56.0	17.2	12.4	55.6
N2 80	7496	81.7	54.7	15.6	12.8	54.3
N3 120	7331	82.4	54.0	17.1	13.2	50.6
N4 160	8283	82.4	52.7	18.3	13.1	55.4
N1 40	6730	98.7	56.3	17.2	12.6	56.7
N2 80	8326	99.3	56.7	16.5	12.4	70.9
N3 120	9500	99.6	55.3	17.5	13.0	68.1
N4 160	9661	102.6	54.7	16.7	12.7	70.0

Mean of location	7356.0	82.0	55.0	16.8	12.7	54.3
C.D. at 5 %	1123.0	7.2	2.1	1.5	0.8	11.6
F	s	n.s.	n.s.	n.s.	n.s.	n.s.

S1	5995	64.1	54.9	16.4	12.6	42.4
S2	7519	82.0	54.3	17.0	12.9	53.9
S3	8554	100.0	55.8	17.0	12.7	66.4

C.D. at 5 %	561.5	3.6	1.1	0.8	0.4	5.8
F	s	s	s	n.s.	n.s.	s

N1	5964	80.7	56.1	16.7	12.5	49.0
N2	7327	81.5	55.2	16.1	12.7	55.7
N3	7581	82.1	54.6	17.3	12.9	53.5
N4	8552	83.8	54.1	17.1	12.8	58.9

C.D. at 5 %	648.3	4.2	1.2	0.9	0.4	6.7
C.V. %	9.0	5.2	2.3	5.4	3.5	12.6
F	s	n.s.	s	n.s.	n.s.	s

(A) Spacing : 3

S1 - 60x25 cm
S2 - 60x20 cm
S3 - 60x15 cm

(B) Nitrogen levels (kg/ha)

N1 - 40
N2 - 80
N3 - 120
N4 - 160

(Rabi 2003-04)

Following trials/experiments were conducted during *Rabi* 2003-4 at winter maize nursery, Amberpet, Hyderabad.

Experiment	Materials	Environment	Entries
HYD-R03-501	CML-lines	Drought stress	24
HYD-R03-502	DTP-white C9 S2/S3	Drought stress	55
HYD-R03-503	DTP-yellow C9 S2/S3	Drought stress	49
HYD-R03-504	LP Seq. C7 S2/S3	Drought stress	45
HYD-R03-505	G16 BNSeq.C3 S1/S2	Drought stress	58
HYD-R03-506	G18 Seq. C5 S2/S3	Drought stress	56
HYD-R03-507	Tux. Seq. C8 S1/S2	Drought stress	20
HYD-R03-508	DR-tolerant populations	Drought stress	15
HYD-R03-509	Subtropical early lines	Optimal condition	16
HYD-R03-510	Elite DR-tolerant lines	Low-N condition	75
HYD-R03-511	Elite Inbred lines	Excessive moisture	100
HYD-R03-512	Synthetic & Crossing program (line x tester)	Optimal condition	13 x 4

The experimental details, including germplasm, stress treatments, and salient findings of the experiments are as follows:

All the trials (HYD-R03-501, 502, 503, 504, 505, 506, 507 and 508) including inbred lines from various genetic background and maturity groups and populations were planted in on 14 November 2003 at winter maize nursery, Amberpet, Hyderabad. Inbred lines were planted in one row and populations in four rows plot (row length – 3.0 meter)

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with three replications using ALPHA-lattice design. Before planting the recommended dose of N: P: K (120:60:40 kg/ha) were applied in soil. All the entries in each trial were over sown with 2-3 seeds per hill and thinned to one plant per hill at 10 days after emergence to maintain a population density of 53000 plants ha⁻¹. Seeds were planted with 0.25m spacing within rows and 0.75m between rows. Experiments were kept free from weeds, insect-pests and diseases using recommended chemical measures.

The trials were grown under optimal moisture condition till late vegetative stage. For imposing flowering stage drought stress genotypes were exposed to severe drought conditions by withdrawing irrigation about 3 weeks before 50% male flowering. One additional final irrigation was applied three weeks after 50% anthesis in order to facilitate the proper grain filling in the successfully pollinated and fertilized plants in relatively tolerant genotypes.

Observations were recorded on various growth, physiological, reproductive and yield parameters. The findings of the experiments are given in Tables – 61 to 68.



One trial on screening the inbred lines for low-N tolerance (HYD-R03-509) including inbred lines from various genetic background. The trial was planted in on 15 November 2003 at winter maize nursery, Amberpet, Hyderabad. Inbred lines were planted in one row (row length – 3.0 meter) with three replications using ALPHA-lattice design. Before planting the recommended dose of P: K (60:40 kg/ha) was applied in soil, but N application was withdrawn right from the basal dose. All the entries in each trial were over sown with 2-3 seeds per hill and thinned to one plant per hill at 10 days after emergence to maintain a population density of 53000 plants ha⁻¹. Seeds were planted with 0.25m spacing within rows and 0.75m between rows. Experiments were kept free from weeds, insect-pests and diseases using recommended chemical measures.

Observations were recorded on various growth, physiological, reproductive and yield parameters. The findings of the experiments are given in Tables – 69.

A total 100 inbred lines, all advance generation elite lines, 20 each from CIMMYT-Asian regional program, DMR and GBPUAT, Pantnagar and RRS HAU, Karnal were evaluated for their performance under normal and excessive moisture stress. The trial was planted in on 14 November 2003 at winter maize nursery, Amberpet, Hyderabad. Inbred lines were planted in one row and populations in four rows plot (row length – 3.0 meter) with three replications using ALPHA-lattice design. Before planting the recommended dose of N: P: K (120:60:40 kg/ha) were applied in soil. All the entries in each trial were over sown with 2-3 seeds per hill and thinned to one plant per hill at 10 days after emergence to maintain a population density of 53000 plants ha⁻¹. Seeds were planted with 0.25m spacing within rows and 0.75m between rows. Experiments were kept free from weeds, insect-pests and diseases using recommended chemical measures.

Excessive moisture stress was applied by flooding the field (water depth 10 cm) continuously for 7 days, starting from 30 DAS (days after sowing i.e., V₇ stage) to 36 DAS. Observations were recorded on various growth, physiological, reproductive and yield parameters. The findings of the experiments are given in Tables – 70.

In the all the trials, including drought, low-N and excessive moisture, one set was planted under normal package of practices. Also a set of early lines was planted for maintenance. After carefully discarding the off type plants, if any, all the lines were selfed and bulked in order maintain the lines and increase the seed for future studies. Apart from this a crossing program was conducted using 13 waterlogging tolerant inbred lines. Half diallel crossing was performed among the lines in order to develop F₁ progenies and after evaluation in excessive moisture during coming kharif, constitution of a waterlogging tolerant synthetic is planned. The 13 lines were also used in line x tester program, using four testers.

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Table 61: Performance of CML lines under drought stress.

Ent. No.	Pedigree	Days to 50% anthesis	Days to 50% silking	Anthesis-silking interval	Leaf rolling (1-5 scale)	Yield (t/ha)
24	CML-442	81.5	85.5	4.0	2.2	0.94
10	CML-340	82.5	96.5	14.0	2.5	0.87
1	CML-226	84.5	86.0	1.5	2.2	0.84
11	CML-341	86.0	89.0	3.0	1.2	0.60
5	CML-274	81.0	90.5	9.5	2.1	0.55
19	CML-421	79.5	80.0	0.5	2.9	0.54
16	CML-348	85.0	88.0	3.0	3.7	0.49
20	CML-422	79.0	87.0	8.0	2.8	0.43
18	CML-413	86.5	92.5	6.0	3.1	0.38
13	CML-343	89.0	98.0	9.0	4.3	0.34
12	CML-342	86.0	89.0	3.0	0.7	0.31
3	CML-252	88.5	90.0	1.5	2.6	0.29
8	CML-311	81.5	82.5	1.0	3.5	0.29
7	CML-300	84.5	89.0	4.5	4.4	0.27
21	CML-448	81.5	106.0	24.5	1.5	0.21
9	CML-339	88.0	99.0	11.0	4.3	0.16
14	CML-345	84.5	93.0	8.5	2.3	0.15
4	CML-254	89.5	101.0	11.5	2.4	0.11
22	CML-449	89.0	103.0	14.0	2.5	0.08
15	CML-346	86.5	91.5	5.0	4.1	0.06
17	CML-405	86.5	92.5	6.0	3.6	0.05
6	CML-287	85.0	98.5	13.5	3.7	0.04
23	CML-444	83.5	96.0	12.5	3.9	0.03
2	CML-247	85.0	96.5	11.5	1.8	0.02
MEAN		84.75	92.19	7.44	2.84	0.37
LSD		NS	10.05	10.58	1.79	NS
CV		4.06	5.17	67.45	29.82	91.59
FSIG		0.00	1.00	5.00	5.00	0.00
REFF		0.83	0.89	0.85	1.24	1.21

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Table 62: Performance of DTP-White C9 S3 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1- 5 scale)	Tassel size (1-5 scale)	Yield (t/ha)
54	,89 (TL8645)/(P4753/Mp76-518) B-24-1-3-2-1-4-BB	72.5	72.5	0.0	1.0	4.8	2.64
37	DTPWC9-F109-2-2	75.1	75.6	0.0	0.8	3.0	2.44
9	DTPWC9-F16-1-1	78.5	79.6	1.0	2.4	2.5	2.22
12	DTPWC9-F17-1-3	75.2	75.9	0.5	2.0	5.1	2.12
38	DTPWC9-F109-2-6	74.2	74.5	0.0	0.8	1.5	2.07
8	DTPWC9-F14-1-1	74.5	77.2	2.5	1.4	2.8	1.87
44	DTPWC9-F137-3-1	74.5	77.7	3.0	1.9	2.8	1.85
45	DTPWC9-F141-2-3	67.3	67.2	0.5	1.7	3.1	1.79
42	DTPWC9-F120-3-3	78.5	78.7	0.5	1.6	3.3	1.72
22	DTPWC9-F55-2-1	80.0	79.5	-0.5	1.5	2.8	1.69
49	,5406-119P28TSR-(S2)-3-1-2-2-B ###-BBBB-B-B-B	81.7	83.4	2.0	1.6	4.4	1.67
39	DTPWC9-F109-2-9	74.6	75.5	1.5	1.7	2.6	1.59
43	DTPWC9-F120-3-4	81.4	83.1	1.5	0.9	2.8	1.58
3	DTPWC9-F2-3-3	73.0	73.5	0.5	1.1	2.5	1.54
10	DTPWC9-F16-1-2	71.5	73.2	1.5	2.4	2.6	1.54
13	DTPWC9-F24-2-1	73.5	72.7	-0.5	1.1	1.0	1.46
53	EW - DMR-G-C7-HS-(SIB)-9-B-1- BBB	82.2	81.6	-1.0	1.3	4.3	1.46
17	DTPWC9-F31-1-3	79.2	80.1	1.0	2.0	3.6	1.43
14	DTPWC9-F24-2-4	71.7	72.4	1.0	1.6	1.4	1.37
2	DTPWC9-F2-3-2	74.4	75.6	1.0	2.9	2.8	1.36
4	DTPWC9-F5-1-2	80.6	80.6	-0.5	1.8	2.5	1.35
15	DTPWC9-F24-4-2	78.2	78.1	-0.5	1.8	2.8	1.31
28	DTPWC9-F75-3-1	75.7	80.6	4.5	0.8	3.8	1.31
50	LETY-9804 PLOT-1 ENT-154	77.5	77.9	0.5	2.1	2.6	1.31
23	DTPWC9-F55-2-3	77.1	78.9	1.5	3.0	2.2	1.30
5	DTPWC9-F5-2-1	80.1	83.0	3.0	2.0	2.4	1.28
7	DTPWC9-F5-4-1	74.4	75.8	1.5	2.5	2.1	1.25
40	DTPWC9-F115-1-4	74.3	75.3	1.0	2.6	3.3	1.24

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1- 5 scale)	Tassel size (1-5 scale)	Yield (t/ha)
20	DTPWC9-F33-4-3	76.6	77.4	0.5	1.5	3.2	1.21
27	DTPWC9-F73-2-2	73.6	75.5	2.5	1.2	2.6	1.18
41	DTPWC9-F120-3-1	76.5	79.0	2.5	1.6	2.0	1.18
1	DTPWC9-F2-3-1-B	80.0	81.5	1.0	1.9	3.2	1.07
16	DTPWC9-F31-1-1	77.7	79.4	2.0	2.1	2.4	1.07
18	DTPWC9-F32-1-5	78.9	78.8	0.0	2.5	2.6	1.06
30	DTPWC9-F92-2-1	79.7	80.4	0.5	4.5	3.6	1.04
29	DTPWC9-F75-3-2	76.5	76.9	0.5	2.6	3.1	1.03
21	DTPWC9-F55-1-2	76.6	80.6	4.0	1.6	3.3	1.01
46	DTPWC9-F141-4-5	70.5	71.7	1.0	0.9	2.6	1.01
6	DTPWC9-F5-2-4	79.0	78.8	0.0	2.2	2.6	0.96
47	DTPWC9-F145-1-4	79.5	81.3	2.0	3.7	3.6	0.94
11	DTPWC9-F17-1-2	73.7	74.4	1.0	3.1	3.6	0.91
19	DTPWC9-F33-2-2	80.5	83.6	3.0	0.9	4.0	0.89
24	DTPWC9-F86-2-2	78.1	79.1	1.0	4.1	2.8	0.87
31	DTPWC9-F102-3-1	79.0	79.6	0.5	1.4	2.0	0.84
35	DTPWC9-F104-5-4	73.6	74.0	0.5	2.0	3.9	0.81
34	DTPWC9-F104-5-1	72.0	74.5	2.0	0.9	2.7	0.70
48	(CML159 CML144)	80.7	82.4	2.0	1.6	4.1	0.70
26	DTPWC9-F70-4-5	77.2	78.0	0.5	1.8	3.5	0.68
33	DTPWC9-F103-2-3	75.5	79.3	4.0	3.7	3.6	0.63
55	CML-422	73.5	74.2	1.0	1.6	3.0	0.55
51	(P43 F95*21 F219)-1-BBB-1-B-B	82.5	83.2	1.0	1.1	1.8	0.54
36	DTPWC9-F104-5-7	71.8	72.3	0.5	3.6	1.8	0.49
52	P 28 TSR (S2)-3-1-1-3-1-###-B-B- 8-B-2-BBB	86.8	93.2	7.0	1.2	4.6	0.49
25	DTPWC9-F67-2-2	76.1	80.6	4.5	3.1	2.8	0.37
32	DTPWC9-F103-2-1	73.2	76.6	3.5	4.0	2.6	0.15
MEAN		76.55	77.93	1.37	1.96	2.95	1.31
LSD		4.51	6.21	0.12	1.12	1.20	0.91
CV		2.9	4.0	161.9	28.3	20.1	34.6
FSIG		1.0	1.0	0.0	1.0	1.0	1.0
REFF		1.4	1.3	0.9	1.2	1.3	1.1

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Table 63: Performance of DTP-Yellow C9 S3 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1-5 scale)	Senscence score (1-10)	Tassel size (1-5 scale)	Ears per plant	Yield (t/ha)
37	DTPYC9-F134-2-3	70.0	68.8	-1.5	0.9	1.3	4.6	1.3	4.36
44	DTPYC9-F143-5-5	68.5	68.9	0.3	1.4	1.8	4.2	1.0	4.28
3	DTPYC9-F38-3-1	68.5	70.0	1.6	1.6	2.1	4.8	0.9	4.19
40	DTPYC9-F142-3-1	68.0	68.0	-0.1	1.4	2.3	3.5	1.0	4.18
2	DTPYC9-F15-3-3	71.0	71.6	0.5	1.6	2.5	4.3	0.8	3.66
9	DTPYC9-F42-2-2	68.0	67.1	-0.8	1.4	1.9	4.1	1.0	3.58
16	DTPYC9-F65-2-2	70.0	70.8	0.5	1.3	1.3	3.4	0.9	3.49
1	DTPYC9-F15-3-1	71.0	73.5	2.5	2.3	4.2	3.6	0.8	2.95
13	DTPYC9-F46-3-6	73.0	72.4	-1.0	1.6	1.7	1.5	0.8	2.81
27	DTPYC9-F102-4-5	68.5	69.6	1.2	1.0	1.7	4.5	0.9	2.76
17	DTPYC9-F65-2-3	71.0	71.5	0.9	1.4	1.5	3.4	1.1	2.64
35	DTPYC9-F132-2-1	71.0	70.5	-0.4	1.7	2.0	4.2	0.8	2.63
49	DTPYC9-F148-2-2	71.0	70.6	0.1	1.8	2.4	1.8	0.8	2.60
7	DTPYC9-F38-5-2	80.5	81.1	0.5	2.7	1.0	3.0	1.0	2.59
45	DTPYC9-F145-3-2	72.5	73.3	0.8	1.9	2.1	2.6	0.9	2.50
28	DTPYC9-F103-5-1	75.5	75.4	0.2	1.7	2.3	3.2	0.7	2.42
43	DTPYC9-F143-1-6	70.5	69.1	-1.0	2.1	2.9	3.2	0.9	2.40
46	DTPYC9-F145-4-5	72.0	73.2	1.3	1.7	2.0	2.7	0.8	2.28
19	DTPYC9-F69-3-2	73.0	71.5	-1.4	2.9	2.8	3.3	0.8	2.25
10	DTPYC9-F46-1-2	74.0	72.5	-1.9	1.4	2.2	1.5	0.9	2.18
11	DTPYC9-F46-3-1	74.5	75.4	1.0	1.8	3.3	1.6	0.8	2.18
20	DTPYC9-F71-2-2	74.5	73.0	-1.3	2.1	3.1	2.0	0.7	2.15
18	DTPYC9-F69-3-1	72.0	72.9	0.9	2.0	1.1	1.5	0.9	2.13
36	DTPYC9-F132-2-6	69.0	69.9	1.2	2.2	2.2	3.7	1.1	2.04
47	DTPYC9-F145-4-6	70.0	72.0	2.2	2.8	2.4	1.3	0.8	2.01
32	DTPYC9-F116-2-1	74.0	74.2	0.0	1.8	2.9	3.5	0.8	2.00
12	DTPYC9-F46-3-4	73.0	71.8	-1.1	1.7	2.3	2.6	1.0	1.92
22	DTPYC9-F74-1-2	73.0	72.1	-0.8	1.5	1.6	2.4	0.9	1.89
21	DTPYC9-F74-1-1	70.0	69.8	-0.2	1.9	2.2	2.1	0.9	1.77
29	DTPYC9-F103-5-4	76.0	76.0	-0.2	2.0	3.0	3.3	0.8	1.77
14	DTPYC9-F53-3-3	74.5	74.6	0.1	1.2	1.6	4.2	0.9	1.66
48	DTPYC9-F148-2-1	71.0	72.5	1.3	2.9	5.6	2.5	0.6	1.55
4	DTPYC9-F38-3-2	75.0	74.1	-1.0	2.3	3.6	3.5	1.2	1.54
8	DTPYC9-F40-3-1	83.0	92.6	9.6	3.1	4.0	2.6	0.3	1.52
26	DTPYC9-F86-2-5	72.0	72.0	0.1	1.6	2.1	2.2	1.0	1.50
24	DTPYC9-F74-3-1	72.0	72.9	0.8	2.5	3.1	3.0	1.0	1.47
34	DTPYC9-F125-2-9	70.0	70.0	0.0	2.3	3.5	3.0	1.0	1.40
42	DTPYC9-F143-1-2	71.5	72.1	0.5	2.0	3.7	3.5	0.9	1.37
30	DTPYC9-F114-2-3	73.0	71.7	-1.3	1.8	1.7	2.9	0.9	1.32

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1-5 scale)	Senscence score (1-10)	Tassel size (1-5 scale)	Ears per plant	Yield (t/ha)
25	DTPYC9-F74-3-3	75.0	74.9	-0.5	2.2	2.6	3.5	1.2	1.30
33	DTPYC9-F125-2-7	74.0	72.1	-1.9	2.6	2.8	1.9	0.8	1.29
6	DTPYC9-F38-4-6	75.5	76.0	0.3	2.0	2.4	1.9	1.0	1.22
41	DTPYC9-F143-1-1	69.0	70.7	1.5	1.9	2.5	2.4	0.8	1.15
39	DTPYC9-F142-1-3	70.0	68.9	-0.9	2.2	2.6	1.9	0.9	1.13
38	DTPYC9-F138-1-3	72.0	73.4	1.4	2.8	3.2	2.6	0.9	1.00
5	DTPYC9-F38-3-4	79.0	79.2	0.2	2.9	2.0	3.0	0.9	0.96
31	DTPYC9-F114-4-3	77.0	76.6	-0.1	3.5	2.2	1.8	0.7	0.83
23	DTPYC9-F74-1-5	75.5	76.0	0.3	2.1	3.4	3.5	0.6	0.73
15	DTPYC9-F55-2-1	80.5	81.4	0.5	3.6	3.6	2.1	0.5	0.46
	MEAN	72.71	73.02	0.31	2.01	2.49	2.93	0.87	2.12
	LSD	3.88	5.30	NS	0.88	1.14	1.05	NS	1.87
	CV	2.63	3.58	752.20	21.52	22.48	17.65	26.09	43.53
	FSIG	1.00	1.00	0.00	1.00	1.00	1.00	0.00	5.00
	REFF	0.94	1.12	1.10	1.47	1.91	1.01	1.03	0.96

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Table 64: Performance of La Posta Seq. C7 S3 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1-5 scale)	Tassel size (1-5 scale)	Ears per plant	Yield (t/ha)
44	P 15 TSR MH28-1-1-3-#-BBBBBB	70.4	72.3	1.6	1.5	4.3	1.1	3.63
15	La Posta Seq C7-F64-2-8	70.4	72.8	2.1	1.0	4.3	1.0	3.34
45	,89 (118645) / (P4753/Mp78-518) B-24-1-3-2-1-4-BB	70.8	75.3	4.5	1.5	4.7	0.9	3.30
26	La Posta Seq C7-F103-1-1	80.6	83.8	3.8	2.5	2.2	1.0	2.99
36	La Posta Seq C7-F180-1-1	78.1	81.7	3.5	1.0	1.7	1.0	2.85
34	La Posta Seq C7-F153-1-2	80.3	82.9	2.9	2.5	1.8	0.9	2.76
5	La Posta Seq C7-F31-2-3	77.9	81.9	3.6	1.6	1.4	0.9	2.15
7	La Posta Seq C7-F32-1-3	79.8	83.6	4.3	2.5	3.0	1.0	1.94
9	La Posta Seq C7-F33-1-3	84.3	86.3	2.0	2.0	2.7	0.9	1.84
37	La Posta Seq C7-F180-3-1	85.9	89.4	3.1	1.1	1.4	0.8	1.73
2	La Posta Seq C7-F10-3-3	78.4	82.3	4.0	3.0	1.9	0.8	1.59
4	La Posta Seq C7-F31-2-2	81.0	84.9	3.2	1.5	0.9	1.0	1.58
11	La Posta Seq C7-F55-2-2	77.5	78.8	1.8	1.0	1.9	0.8	1.55
39	La Posta Seq C7-F183-2-2	80.8	83.4	2.9	3.0	2.8	0.8	1.49
21	La Posta Seq C7-F86-3-1	80.1	87.2	7.0	2.0	1.2	0.5	1.40
1	La Posta Seq C7-F10-3-1	77.7	81.5	3.6	1.5	4.0	1.3	1.38
18	La Posta Seq C7-F78-2-1	83.8	86.2	2.5	2.5	2.1	0.7	1.38
24	La Posta Seq C7-F96-1-6	78.1	83.3	4.7	1.5	2.4	0.8	1.36
29	La Posta Seq C7-F123-3-1	78.1	81.7	3.9	1.0	3.1	0.9	1.33
32	La Posta Seq C7-F152-1-1	78.9	81.8	3.0	1.5	3.4	1.0	1.32
38	La Posta Seq C7-F183-2-1	82.5	85.3	3.3	2.5	1.4	0.8	1.32
22	La Posta Seq C7-F96-1-1	80.6	83.2	2.9	1.0	3.0	0.9	1.31
3	La Posta Seq C7-F12-2-3	78.8	82.3	3.9	2.5	2.7	0.9	1.30
6	La Posta Seq C7-F32-1-2	82.5	84.9	2.1	3.5	4.2	0.6	1.26
10	La Posta Seq C7-F33-1-4	80.3	81.7	1.1	1.5	3.3	0.9	1.23
27	La Posta Seq C7-F103-2-5	78.1	83.3	4.7	2.5	0.9	0.8	1.18
23	La Posta Seq C7-F96-1-2	80.3	82.7	2.5	2.5	1.6	0.9	1.13
16	La Posta Seq C7-F71-1-1	76.1	82.7	6.9	3.5	3.1	0.8	1.07
25	La Posta Seq C7-F102-1-2	75.6	81.2	5.9	2.5	2.5	0.8	1.03

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1- 5 scale)	Tassel size (1-5 scale)	Ears per plant	Yield (t/ha)
35	La Posta Seq C7-F174-3-2	80.2	88.2	6.0	4.0	1.7	0.5	0.99
8	La Posta Seq C7-F33-1-1	81.5	86.4	4.2	2.0	2.4	0.8	0.96
19	La Posta Seq C7-F79-3-1	78.7	83.7	5.0	1.0	2.2	0.8	0.96
12	La Posta Seq C7-F64-1-1	77.2	80.9	3.9	1.5	5.0	0.8	0.87
14	La Posta Seq C7-F64-2-4	80.2	83.4	3.4	3.0	2.0	0.8	0.85
31	La Posta Seq C7-F125-2-1	79.8	84.3	4.5	2.5	2.6	0.6	0.72
13	La Posta Seq C7-F64-2-3	83.5	86.4	2.6	2.0	2.2	1.1	0.71
30	La Posta Seq C7-F124-2-2	82.7	85.8	3.4	1.5	2.4	0.7	0.70
28	La Posta Seq C7-F103-3-3	79.7	83.5	3.6	2.0	1.5	0.6	0.69
40	La Posta Seq C7-F220-4-2	78.0	81.7	3.9	2.5	1.2	0.8	0.69
17	La Posta Seq C7-F71-1-6	79.8	81.3	1.9	3.0	3.2	0.6	0.59
20	La Posta Seq C7-F86-1-1	82.1	87.5	5.1	2.5	1.7	0.4	0.54
33	La Posta Seq C7-F152-1-2	81.6	84.5	2.6	3.0	2.2	0.5	0.53
43	LEI 1-9004 FLOJ - 26 CML - 90	83.8	87.5	2.8	3.0	4.0	0.8	0.53
42	,5406-119P287TSR-(S2)-3-1- 2-2-b-###-BBBB-b-B	87.3	94.3	7.0	2.0	4.1	0.8	0.52
41	,(CML 159 CML 144)	85.8	96.6	11.3	1.5	4.0	0.2	0.01
	MEAN	79.77	83.60	3.83	2.10	2.58	0.60	1.39
	LSD	3.05	4.46	1.02	1.56	1.70	NS	1.67
	CV	1.88	2.63	54.60	36.58	32.43	27.43	59.13
	FSIG	1.00	1.00	1.00	5.00	1.00	0.00	5.00
	REFF	1.42	1.45	1.05	1.02	1.53	0.94	1.00

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Table 65: Performance of Pool 16 BN Seq. C3 S1 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
54	POOL 16 BNSEQ.C3 F35 x 21-1	63.0	69.9	7.0	1.18	4.77
51	POOL 16 BNSEQ.C3 F28 x 15-3	64.3	68.3	4.0	0.80	4.66
12	POOL 16 BNSEQ.C3 F32 x 37-4	65.2	70.2	5.0	0.74	4.35
57	POOL 16 BNSEQ.C3 F29 x 20-1	67.3	69.5	2.2	1.01	4.31
27	POOL 16 BNSEQ.C3 F36 x 1-2	72.1	72.3	0.2	0.89	4.16
3	POOL 16 BNSEQ.C3 F31 x 20-2	66.6	72.7	6.0	0.74	3.85
48	POOL 16 BNSEQ.C3 F19 x 6-3	69.9	67.4	-2.5	0.75	3.78
50	POOL 16 BNSEQ.C3 F36 x 6-1	66.2	68.5	2.3	0.88	3.73
25	POOL 16 BNSEQ.C3 F40 x 12-2	73.2	76.2	3.0	0.42	3.72
46	POOL 16 BNSEQ.C3 F25 x 17-3	67.2	67.5	0.3	0.88	3.42
53	POOL 16 BNSEQ.C3 F36 x 10-1	66.3	67.5	1.2	0.86	3.31
40	POOL 16 BNSEQ.C3 F24 x 8-4	68.1	67.6	-0.5	0.86	3.07
20	POOL 16 BNSEQ.C3 F20 x 9-3	69.5	71.7	2.2	0.77	3.06
37	POOL 16 BNSEQ.C3 F10 x 1-1	77.3	78.6	1.4	0.96	3.02
36	POOL 16 BNSEQ.C3 F10 x 1-3	73.0	75.6	2.6	0.76	2.79
58	POOL 16 BNSEQ.C3 F22 x 16-1	70.2	74.0	3.8	0.91	2.78
19	POOL 16 BNSEQ.C3 F34 x 31-2	63.9	69.7	5.8	0.84	2.74
18	POOL 16 BNSEQ.C3 F20 x 17-3	73.1	75.8	2.7	0.62	2.72
56	POOL 16 BNSEQ.C3 F25 x 13-3	71.0	71.1	0.1	0.64	2.69
26	POOL 16 BNSEQ.C3 F20 x 32-2	70.7	69.2	-1.5	0.81	2.65
8	POOL 16 BNSEQ.C3 F32 x 26-1	66.2	70.9	4.8	0.89	2.58
14	POOL 16 BNSEQ.C3 F37 x 3-2	64.4	63.3	-1.0	0.55	2.58
41	POOL 16 BNSEQ.C3 F26 x 2-2	63.2	66.4	3.2	0.97	2.58
35	POOL 16 BNSEQ.C3 F11 x 37-1	63.4	66.4	3.1	0.91	2.50
22	POOL 16 BNSEQ.C3 F6 x 38-1	72.5	75.9	3.3	0.86	2.47
24	POOL 16 BNSEQ.C3 F18 x 11-1	68.6	72.0	3.5	1.02	2.47
32	POOL 16 BNSEQ.C3 F20 x 13-3	71.8	69.2	-2.5	0.93	2.41
2	POOL 16 BNSEQ.C3 F26 x 29-1	67.8	71.2	3.4	0.76	2.37
44	POOL 16 BNSEQ.C3 F8 x 17-4	72.8	77.7	4.9	0.85	2.19
9	POOL 16 BNSEQ.C3 F19 x 20-1	68.1	71.3	3.2	0.82	2.13
34	POOL 16 BNSEQ.C3 F26 x 29-3	62.5	66.2	3.7	0.84	2.11
52	POOL 16 BNSEQ.C3 F6 x 23-3	68.4	66.5	-1.9	0.96	1.97
47	POOL 16 BNSEQ.C3 F24 x 8-2	69.1	67.4	-1.6	0.73	1.88

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
31	POOL 16 BNSEQ.C3 F27 x 20-2	71.1	71.3	0.1	0.95	1.84
28	POOL 16 BNSEQ.C3 F25 x 2-4	67.6	68.8	1.2	0.79	1.80
21	POOL 16 BNSEQ.C3 F34 x 2-1	70.1	72.3	2.2	0.87	1.74
49	POOL 16 BNSEQ.C3 F10 x 34-3	66.8	71.0	4.3	0.94	1.89
39	POOL 16 BNSEQ.C3 F19 x 39-1	71.7	75.6	3.9	0.74	1.63
43	POOL 16 BNSEQ.C3 F24 x 10-1	62.6	63.9	1.3	1.03	1.59
6	POOL 16 BNSEQ.C3 F19 x 20-2	70.6	71.8	1.2	0.73	1.51
13	POOL 16 BNSEQ.C3 F23 x 13-1	71.7	74.0	2.3	0.56	1.51
10	POOL 16 BNSEQ.C3 F10 x 36-2	69.0	67.7	-1.3	0.98	1.50
11	POOL 16 BNSEQ.C3 F11 x 39-3	68.0	70.2	2.2	0.95	1.45
15	POOL 16 BNSEQ.C3 F34 x 5-4	73.2	74.5	1.3	0.77	1.27
29	POOL 16 BNSEQ.C3 F13 x 22-1	67.8	69.6	1.8	0.88	1.18
1	POOL 16 BNSEQ.C3 F26 x 39-1	67.9	68.4	0.6	0.82	1.13
5	POOL 16 BNSEQ.C3 F22 x 1-3	67.3	66.6	-0.8	0.81	0.95
30	POOL 16 BNSEQ.C3 F37 x 20-2	70.9	71.0	0.1	0.74	0.91
33	POOL 16 BNSEQ.C3 F20 x 10-3	75.3	72.5	-2.9	0.47	0.91
38	POOL 16 BNSEQ.C3 F19 x 20-3	70.8	70.9	0.1	0.79	0.75
16	POOL 16 BNSEQ.C3 F24 x 10-2	69.8	69.7	-0.1	0.96	0.73
42	POOL 16 BNSEQ.C3 F13 x 1-2	72.7	74.8	2.2	0.81	0.40
55	POOL 16 BNSEQ.C3 F34 x 2-3	65.7	67.6	1.9	0.73	0.35
23	POOL 16 BNSEQ.C3 F32 x 34-2	70.6	70.8	0.2	1.17	0.33
7	POOL 16 BNSEQ.C3 F6 x 3-1	70.7	70.7	0.0	0.55	0.30
4	POOL 16 BNSEQ.C3 F25 x 2-2	71.6	70.0	-1.7	0.93	0.28
45	POOL 16 BNSEQ.C3 F23 x 29-1	72.7	69.9	-2.8	0.93	0.27
17	POOL 16 BNSEQ.C3 F34 x 2-4	68.7	73.0	4.2	0.93	-0.04
	MEAN	68.99	70.59	1.59	0.83	2.17
	LSD	4.23	5.67	0.58	0.49	0.13
	CV	23.00	15.00	56.00	43.31	43.31
	FSIG	-99.00	-99.00	-99.00	0.00	-99.00
	REFF	0.00	0.00	0.00	0.15	0.00

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Table 66: Performance of Pool 18 BN Seq. C5 S3 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
52	G18Seq C5 F106-1-1	69.4	68.9	-0.5	1.26	3.93
23	G18Seq C5 F140-1-2	68.4	66.8	-1.5	1.07	3.84
8	G18Seq C5 F103-1-1	68.4	67.7	-1.0	1.06	3.07
7	G18Seq C5 F46-1-1	69.2	70.0	1.0	0.76	2.77
35	G18Seq C5 F226-2-1	69.1	68.2	-1.0	1.09	2.68
42	G18Seq C5 F119-1-1	70.8	71.5	1.0	1.02	2.36
10	G18Seq C5 F223-2-1	68.1	66.0	-1.5	0.93	2.34
51	G18Seq C5 F97-1-1	70.4	71.7	1.5	0.95	2.15
3	G18Seq C5 F68-2-1	69.1	70.6	1.5	0.97	2.13
4	G18Seq C5 F122-2-1	71.3	70.3	-1.0	0.92	2.07
44	G18Seq C5 F100-2-1	68.0	66.8	-1.5	0.92	2.05
34	G18Seq C5 F74-2-1	66.4	65.5	-1.0	1.15	2.00
20	G18Seq C5 F181-2-2	68.1	67.5	-0.5	0.92	1.89
30	G18Seq C5 F205-1-1	68.8	68.4	-0.5	1.14	1.87
25	G18Seq C5 F76-2-2	66.6	66.3	-0.5	0.79	1.81
5	G18Seq C5 F54-2-1	68.6	69.1	0.5	0.97	1.79
31	G18Seq C5 F236-1-2	69.4	70.5	1.0	1.09	1.79
56	G18Seq C5 F129-2-1	70.0	72.5	2.5	0.84	1.79
11	G18Seq C5 F19-1-1	66.0	65.4	-1.0	0.94	1.68
21	G18Seq C5 F18-2-1	69.1	70.5	1.5	0.73	1.68
14	G18Seq C5 F171-2-2	70.0	70.1	0.0	0.99	1.58
32	G18Seq C5 F100-1-1	67.6	68.3	0.5	0.72	1.57
40	G18Seq C5 F226-2-2	71.3	72.5	1.0	0.88	1.55
27	G18Seq C5 F129-1-2	68.6	68.4	0.0	0.73	1.52
46	G18Seq C5 F196-2-2	65.2	65.9	0.5	1.11	1.48
50	G18Seq C5 F179-2-1	64.0	64.6	0.5	0.81	1.47
39	G18Seq C5 F65-1-2	71.5	71.3	-0.5	0.81	1.46
22	G18Seq C5 F171-1-1	68.4	68.1	-0.5	0.76	1.43
38	G18Seq C5 F149-2-2	70.0	68.4	-1.5	1.20	1.41
16	G18Seq C5 F197-1-1	68.0	67.9	0.0	0.93	1.32

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
49	G18Seq C5 F16-1-1	68.0	69.6	1.5	0.88	1.28
28	G18Seq C5 F105-1-1	64.9	65.8	0.5	0.79	1.20
47	G18Seq C5 F78-1-1	71.7	77.0	5.5	0.75	1.16
9	G18Seq C5 F93-2-1	69.4	70.3	0.5	0.93	1.15
45	G18Seq C5 F100-2-2	69.4	69.4	0.0	0.87	1.15
24	G18Seq C5 F28-2-1	68.4	68.5	0.0	0.84	1.14
33	G18Seq C5 F76-2-1	70.6	72.0	1.5	1.24	1.12
26	G18Seq C5 F130-1-1	70.3	70.6	0.5	0.94	1.11
6	G18Seq C5 F228-1-2	68.9	70.0	1.0	0.88	1.10
13	G18Seq C5 F146-2-1	67.6	66.6	-0.5	0.90	1.08
54	G18Seq C5 F198-1-1	65.4	65.0	0.0	0.72	1.05
12	G18Seq C5 F101-1-1	68.6	70.1	1.5	0.74	1.04
37	G18Seq C5 F215-1-1	77.9	77.5	0.0	0.88	1.02
29	G18Seq C5 F168-3-1	70.7	70.4	0.0	0.97	1.01
19	G18Seq C5 F49-1-1	69.2	69.5	0.5	0.92	1.00
17	G18Seq C5 F9-2-1	68.9	69.9	1.0	0.87	0.99
41	G18Seq C5 F135-1-1	68.8	68.3	-0.5	1.02	0.99
2	G18Seq C5 F210-2-1	70.2	70.2	0.0	0.92	0.91
43	G18Seq C5 F191-3-2	65.0	66.1	1.0	0.96	0.82
15	G18Seq C5 F171-2-1	69.9	71.0	1.5	0.60	0.74
18	G18Seq C5 F76-1-1	67.4	66.9	-0.5	0.95	0.64
48	G18Seq C5 F129-3-1	71.5	72.9	1.5	0.71	0.55
53	G18Seq C5 F47-1-1	65.4	66.1	1.0	0.88	0.48
55	G18Seq C5 F69-2-1	67.3	67.6	0.0	0.91	0.46
36	G18Seq C5 F198-1-2	67.9	67.2	-1.0	0.68	0.33
1	G18Seq C5 F134-3-1	69.1	71.0	1.5	0.46	0.17
MEAN		68.79	69.09	0.30	0.90	1.50
LSD		2.5	3.6	0.0	0.0	1.3
CV		1.8	2.6	533.5	20.6	44.2
FSIG		1.0	1.0	0.0	0.0	1.0
REFF		1.4	1.3	0.9	1.0	1.3

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Table 67: Performance of Tuxpeño Seq. C8 S2 lines under drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Leaf rolling (1-5)	Tassel size (1-5)	Ears per plants	Yield (t/ha)
13	Tuxpeño Seq. C8-79-1-#-B	78.00	79.50	1.14	2.06	3.94	0.75	3.17
2	Tuxpeño Seq. C8-10-1-#-B	75.00	86.50	11.76	1.13	1.13	0.76	1.71
17	Tuxpeño Seq. C8-89-2-#-B	84.00	85.00	1.40	1.69	1.13	0.92	1.57
7	Tuxpeño Seq. C8-56-1-#-B	84.50	86.50	1.50	1.20	2.44	0.72	1.21
4	Tuxpeño Seq. C8-24-1-#-B	81.50	82.50	0.17	1.96	3.07	0.65	1.13
15	Tuxpeño Seq. C8-86-2-#-B	80.50	82.00	1.91	3.11	1.19	0.79	1.00
18	Tuxpeño Seq. C8-91-1-#-B	85.00	87.00	2.08	1.38	2.00	0.66	0.87
6	Tuxpeño Seq. C8-39-1-#-B	82.50	84.50	2.03	1.75	2.82	0.66	0.75
8	Tuxpeño Seq. C8-59-1-#-B	76.50	80.50	4.03	2.56	4.00	0.67	0.74
5	Tuxpeño Seq. C8-28-2-#-B	72.50	78.00	4.67	2.84	3.94	0.56	0.63
12	Tuxpeño Seq. C8-76-2-#-B	84.00	89.50	5.14	2.25	0.94	0.38	0.62
20	Tuxpeño Seq. C8-95-3-#-B	83.50	86.00	2.90	2.56	2.94	0.90	0.53
14	Tuxpeño Seq. C8-82-1-#-B	79.00	87.00	7.85	1.13	1.57	0.40	0.31
3	Tuxpeño Seq. C8-20-1-#-B	83.50	91.00	7.20	2.02	1.51	0.05	0.24
11	Tuxpeño Seq. C8-74-1-#-B	83.00	90.00	6.85	2.00	0.69	0.13	0.24
1	Tuxpeño Seq. C8-1-1-#-B	86.50	97.00	9.99	2.64	0.31	0.21	0.22
16	Tuxpeño Seq. C8-88-1-#-B	81.00	84.00	4.16	2.36	3.38	0.55	0.14
19	Tuxpeño Seq. C8-93-2-#-B	81.50	84.50	4.16	3.36	1.25	0.69	0.11
10	Tuxpeño Seq. C8-70-1-#-B	84.00	89.00	4.50	2.32	3.75	0.18	-0.04
9	Tuxpeño Seq. C8-64-1-#-B	82.00	88.00	6.59	3.86	2.76	0.37	-0.07
	MEAN	81.4	85.9	4.5	2.21	2.24	0.55	0.75
	LSD	NS	8.07	NS	NS	NS	NS	1.23
	CV	5.88	4.35	82.23	35.08	50.5	40.78	75.44
	FSIG	0.00	5.00	0.00	0.00	0.00	0.00	5.00
	REFF	0.84	0.93	1.15	1.16	0.87	1.32	1.28

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Table 68: Performance of drought tolerant populations under severe drought stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
5	La Posta Sequia-C7	82.0	83.0	1.0	0.9	3.99
4	La Posta Sequia- C5	81.0	82.0	1.0	0.9	3.96
11	Pool 18 Sequia- C3	65.0	65.0	0.0	0.9	3.89
8	DTP- white, C9	70.5	71.0	0.5	0.7	3.78
7	DTP1- white, C6	70.0	71.0	1.0	0.8	3.53
13	Pool 16 BN Sequia- C3	67.0	68.0	1.0	0.8	3.45
10	DTP-yellow, C9	70.5	72.0	1.5	0.9	3.36
3	TS6 C4	73.5	76.0	2.5	0.8	3.27
12	Pool 18 Sequia- C5	68.5	69.0	0.5	1.0	3.21
9	DTP1-yellow, C6	72.0	73.0	1.0	1.0	3.01
6	Pool 26 Sequia- C3	75.0	76.5	1.5	1.0	2.89
2	Tuxpeno Sequia-C8	76.0	78.5	2.5	0.8	2.68
1	Tuxpeno Sequia- C6	78.0	81.0	3.0	0.7	2.61
15	Local Check-1 (Bio-9681)	71.0	73.0	2.0	0.9	2.21
14	Local Check-2 (Pro-311)	72.0	72.0	0.0	0.9	2.03
MEAN		72.80	74.07	1.27	0.86	3.19
LSD		4.92	5.29	0.46	0.32	0.93
CV		2.8	2.9	121.2	8.1	15.9
FSIG		1.0	1.0	5.0	5.0	5.0
REFF		0.8	1.0	0.5	1.9	1.9

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Table 69: Performance of drought tolerant inbred lines under low nitrogen stress.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
20	DTPYC9-F46-1-2	72.0	76.0	4.0	0.9	4.6
19	DTPYC9-F42-2-2	69.9	73.0	3.0	1.3	4.5
24	DTPYC9-F65-2-1	71.1	72.5	1.5	0.8	4.3
26	DTPYC9-F69-3-4	71.0	73.5	2.5	0.8	4.1
17	DTPYC9-F38-3-1	71.1	76.0	5.0	1.4	3.7
72	La Posta Seq C7-F180-3-1	70.0	72.0	2.0	1.2	3.6
51	La Posta Seq C7-F31-2-3	71.5	76.0	4.5	0.9	3.5
15	DTPWC9-F103-2-1	74.5	74.0	-0.5	0.3	3.5
73	La Posta Seq C7-F183-2-2	72.5	76.0	3.5	0.8	3.4
45	DTPYC9-F145-4-8	70.9	74.5	3.5	1.0	3.0
53	La Posta Seq C7-F33-1-3	69.0	73.0	4.0	0.9	2.9
61	La Posta Seq C7-F96-1-6	69.4	72.0	2.5	0.8	2.9
74	La Posta Seq C7-F219-1-1	77.0	78.0	1.0	0.9	2.8
47	La Posta Seq C7-F10-3-2	74.4	76.5	2.0	0.9	2.8
41	DTPYC9-F143-1-6	71.0	70.5	-0.5	1.1	2.7
34	DTPYC9-F114-3-4	71.0	71.5	0.5	0.8	2.7
32	DTPYC9-F103-5-1	73.1	74.5	1.5	0.9	2.6
58	La Posta Seq C7-F78-2-1	79.1	80.5	1.5	1.2	2.5
4	DTPWC9-F16-1-1	73.0	76.0	3.0	0.9	2.4
42	DTPYC9-F145-4-3	73.9	72.0	-2.0	1.0	2.4
3	DTPWC9-F2-3-5	77.1	79.5	2.5	1.1	2.3
65	La Posta Seq C7-F103-1-1	75.0	75.0	0.0	1.6	2.3
21	DTPYC9-F46-1-3	70.6	76.0	5.5	1.0	2.2
1	DTPWC9-F2-3-1	75.0	77.0	2.0	1.1	2.1
44	DTPYC9-F145-4-6	71.1	74.5	3.5	1.0	2.1
54	La Posta Seq C7-F33-1-4	73.1	75.5	2.5	1.0	2.1
30	DTPYC9-F86-2-5	71.5	73.5	2.0	1.1	2.0
22	DTPYC9-F46-3-6	73.0	74.5	1.5	0.7	2.0
35	DTPYC9-F116-2-1	68.6	72.0	3.5	0.8	2.0
2	DTPWC9-F2-3-2	74.5	76.0	1.5	1.0	2.0
29	DTPYC9-F74-3-3	76.1	77.0	1.0	1.1	2.0
70	La Posta Seq C7-F153-1-2	71.1	74.0	3.0	0.7	2.0
13	DTPWC9-F75-3-1	75.5	77.0	1.5	1.0	2.0
43	DTPYC9-F145-4-5	72.9	75.5	2.5	1.2	2.0
57	La Posta Seq C7-F71-1-1	71.9	75.0	3.0	0.3	1.9
46	DTPYC9-F148-2-2	70.9	71.0	0.0	0.7	1.9
48	La Posta Seq C7-F12-2-3	75.9	76.5	0.5	1.1	1.9
12	DTPWC9-F66-2-3	75.0	73.5	-1.5	0.7	1.9
33	DTPYC9-F103-5-4	75.6	78.0	2.5	0.9	1.8
38	DTPYC9-F142-1-3	71.0	73.5	2.5	1.0	1.7
25	DTPYC9-F69-3-2	76.1	76.5	0.5	0.9	1.7
6	DTPWC9-F17-1-3	75.4	78.0	2.5	1.0	1.6
8	DTPWC9-F31-1-3	76.9	74.5	-2.5	1.1	1.6
31	DTPYC9-F102-4-3	71.1	73.5	2.5	1.2	1.6
50	La Posta Seq C7-F31-2-2	73.4	74.5	1.0	1.0	1.6
63	La Posta Seq C7-F97-3-2	72.5	76.0	3.5	0.7	1.5

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Ears per plants	Yield (t/ha)
68	La Posta Seq C7-F144-1-1	70.5	75.0	4.5	1.0	1.5
7	DTPWC9-F24-2-1	75.5	76.0	0.5	0.9	1.4
40	DTPYC9-F143-1-2	70.9	74.5	3.5	0.9	1.4
16	DTPWC9-F109-2-2	72.9	76.0	3.0	0.7	1.4
27	DTPYC9-F74-1-2	76.0	76.0	0.0	1.0	1.4
11	DTPWC9-F33-4-3	75.0	76.5	1.5	0.8	1.4
64	La Posta Seq C7-F102-1-2	73.5	75.5	2.0	0.6	1.3
71	La Posta Seq C7-F179-3-1	70.5	72.5	2.0	0.6	1.2
10	DTPWC9-F33-2-2	76.5	76.5	0.0	0.6	1.2
37	DTPYC9-F125-2-9	71.1	72.0	1.0	0.9	1.2
14	DTPWC9-F92-2-1	75.6	76.0	0.5	0.6	1.1
52	La Posta Seq C7-F32-3-1	74.4	75.5	1.0	0.9	1.1
9	DTPWC9-F32-1-5	72.0	77.0	5.0	0.8	1.0
56	La Posta Seq C7-F64-2-3	72.0	74.5	2.5	0.8	0.9
55	La Posta Seq C7-F64-1-3	72.0	73.0	1.0	0.7	0.9
5	DTPWC9-F16-1-5	75.0	77.0	2.0	0.8	0.9
23	DTPYC9-F53-3-3	74.4	75.0	0.5	0.9	0.9
75	La Posta Seq C7-F220-4-2	69.4	74.5	5.0	1.1	0.8
39	DTPYC9-F143-1-1	70.5	73.5	3.0	0.8	0.8
67	La Posta Seq C7-F123-3-1	71.0	74.0	3.0	0.6	0.8
69	La Posta Seq C7-F152-1-1	73.4	74.0	0.5	1.1	0.8
49	La Posta Seq C7-F31-2-1	77.5	78.0	0.5	0.5	0.7
28	DTPYC9-F74-1-5	74.6	75.0	0.5	0.1	0.7
66	La Posta Seq C7-F103-2-5	71.0	73.5	2.5	0.7	0.6
59	La Posta Seq C7-F86-1-1	77.5	81.0	3.5	0.5	0.6
62	La Posta Seq C7-F97-3-1	74.5	74.5	0.0	0.3	0.3
36	DTPYC9-F125-2-7	74.1	76.5	2.5	0.3	0.2
18	DTPYC9-F40-3-1	74.5	78.5	4.0	0.1	0.2
60	La Posta Seq C7-F86-3-1	71.0	72.0	1.0	0.1	0.0
MEAN		73.11	75.05	1.95	0.84	1.88
LSD		4.95	NS	1.01	0.49	0.34
CV		3.39	3.4	2.3	29.42	26.23
FSIG		5.0	5.0	5.0	1.0	1.0
REFF		1.01	1.00	0.97	1.03	0.96

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Table 70: Performance of maize inbred lines under excessive moisture stress at V7 growth stage.

Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Visual score (1-3)	Yield (t/ha)
48	WL7-x-x	75.0	76.5	1.1	1.1	3.4
41	AMATLCOHS44-1-1-2E-4-5-2-B	76.5	78.0	1.6	1.4	3.3
38	CML-287-B-B	77.0	78.0	1.2	1.9	3.2
35	PIO.301 1F2-3-5-3-B-B	72.0	73.0	0.9	1.5	3.2
7	WL15-*-*2	73.5	76.0	2.4	1.6	3.1
8	WL18-*-*3	73.5	74.5	0.9	2.2	3.0
20	CA 00106	72.5	74.5	2.2	1.9	3.0
56	WL36-x-x-4	70.0	72.0	1.8	2.5	3.0
26	CM105	72.5	77.0	4.4	1.0	2.9
33	CML327	74.0	75.5	1.5	2.2	2.8
17	CML-427	75.5	79.5	3.9	2.0	2.7
47	CML311	76.5	80.0	3.5	1.6	2.7
23	CA 14707	73.0	76.0	2.9	0.9	2.6
29	CM118	72.5	76.0	3.5	1.5	2.6
42	AMATLCOHS44-1-1-2E-4-5-2-B	76.5	76.5	0.2	1.9	2.5
5	WL12-*-*1	72.0	73.5	1.7	1.4	2.4
14	CML-421	73.5	74.0	0.5	2.2	2.3
63	Pant -7	72.5	74.0	1.8	1.5	2.3
1	CML 327	73.0	74.0	0.9	1.6	2.3
25	CML-327-B-B	71.0	75.5	4.8	1.3	2.2
36	CML-226-B-B	74.5	75.5	0.9	2.1	2.2
12	WL29-*-*2	73.5	76.0	2.4	1.0	2.1
55	WL29-x-x-3	74.5	77.5	3.1	1.1	2.1
37	CML-228-B-B	73.5	74.5	1.2	2.4	2.1
10	WL18-*-*6	72.5	75.5	3.0	1.4	2.1
22	CA 14517	72.0	73.5	1.3	1.1	2.0
30	CM119-2	70.5	73.5	2.9	2.2	2.0
6	WL14-*-*1	70.5	73.5	2.8	1.2	2.0
4	WL9-*-*1	73.5	75.0	1.6	2.4	2.0
83	Gadag-8	77.0	76.5	-0.8	1.1	2.0
16	CML-425	76.5	79.0	2.6	1.5	2.0
9	WL18-*-*4	76.5	79.5	3.2	2.4	2.0
57	Pant -1	74.0	74.5	0.4	1.0	2.0
49	WL9-x-x-4	75.5	79.0	3.5	2.8	1.9
84	Gadag-9	74.0	77.5	3.6	2.4	1.9

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Visual score (1-3)	Yield (t/ha)
13	WL36-*-*4	75.5	76.5	0.9	1.5	1.9
52	WL15-x-x-1	72.5	75.0	2.7	2.4	1.8
15	CML-422	74.5	74.0	-0.6	1.6	1.8
58	Pant-2	71.0	73.0	2.1	1.5	1.7
21	CA 03128	74.0	76.0	2.0	1.9	1.7
59	Pant-3	73.5	74.5	1.1	2.0	1.7
3	WL8-*-*1	74.0	76.0	2.1	1.8	1.6
60	Pant-4	73.0	76.0	3.3	1.8	1.6
24	CML-311-B-B	72.0	74.5	2.3	1.6	1.6
82	Gadag-7	72.0	72.0	0.1	1.5	1.4
44	AMATLCOHS92-1-1-3E-4-3-1-B	74.5	76.0	1.5	1.6	1.4
74	DT/LN/EM-81	71.0	72.0	1.3	2.4	1.4
65	DT/LN/EM-9	76.0	78.0	2.1	1.4	1.4
86	Gadag-11	75.0	77.0	2.1	2.1	1.4
50	WL10-x-x-2	72.5	76.0	3.5	3.0	1.3
11	WL28-*-*2	74.0	76.0	1.9	1.6	1.3
53	WL18-x-x-4	76.5	77.0	0.5	2.1	1.3
67	DT/LN/EM-26	75.0	76.5	1.3	3.1	1.2
92	Gadag-17	71.0	71.5	0.5	1.9	1.2
88	Gadag-13	70.0	74.0	3.7	2.9	1.2
54	WL28-x-x-3	72.0	73.5	1.6	1.8	1.2
68	DT/LN/EM-27	75.5	78.5	3.2	2.3	1.2
18	CML-429	79.0	84.0	4.8	2.6	1.2
73	DT/LN/EM-77	70.0	74.5	4.6	2.0	1.2
75	DT/LN/EM-82	73.5	75.0	1.4	2.1	1.2
32	CM500-1	75.0	77.0	1.9	2.7	1.2
80	Gadag-5	74.5	78.0	3.3	1.6	1.1
100	Pant-20 02K	70.0	75.5	5.7	1.8	1.1
51	WL11-x-x-1	75.0	76.0	0.9	2.6	1.1
2	WL7-*-*	74.5	76.0	1.3	1.5	1.1
79	Gadag-4	75.0	75.5	0.5	2.1	1.1
66	DT/LN/EM-10	70.0	76.0	6.0	2.0	1.1
93	Gadag-18	74.0	77.0	3.0	1.0	1.0
95	Gadag-20	68.0	72.5	4.5	2.0	1.0
97	Dr.Sachan Material (brace roots)- 3	71.0	74.5	3.5	2.1	1.0

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Entry	Pedigree	Days to 50% anthesis	Days to 50% silking	ASI (days)	Visual score (1-3)	Yield (t/ha)
85	Gadag-10	77.0	80.0	2.9	1.5	1.0
34	.5406-27P24STEC1HC17-1-2-1- 1-2-BBB-1-##-BBBBB-B-B-B	71.0	72.0	1.0	2.4	0.9
77	Gadag-2	71.0	76.0	5.0	1.5	0.9
64	DT/LN/EM-4	69.0	73.0	4.0	2.0	0.9
46	CM117-4	78.5	81.5	3.2	2.1	0.9
62	Pant -6	73.0	74.5	1.6	1.9	0.8
89	Gadag-14	71.0	71.5	0.7	2.9	0.8
76	Gadag-1	72.5	76.0	3.8	2.3	0.8
43	AMATLCOHS44-1-1-2E-4-5-2-B	76.0	75.5	-0.6	1.5	0.8
45	KSX3601F2-5-2-1-B-B	74.0	76.0	2.2	2.4	0.8
87	Gadag-12	76.0	76.5	0.6	3.0	0.8
69	DT/LN/EM-46	73.0	74.0	0.9	2.1	0.7
61	Pant -5	71.5	76.0	4.2	2.0	0.7
19	CML-473	71.5	75.0	3.3	1.7	0.6
28	CM117-2	69.5	72.0	2.5	1.5	0.6
90	Gadag-15	69.5	72.0	2.7	1.9	0.6
40	(P3455C4S2B-46-2-3F/R)-B-3	73.0	74.0	1.1	3.0	0.5
99	Pant-19 02K	75.0	77.0	2.3	2.2	0.4
91	Gadag-16	72.0	74.0	2.1	1.6	0.4
39	CML-422-B	72.5	75.5	3.1	1.5	0.4
98	Pant-16 02K	75.0	76.0	1.0	3.0	0.4
71	DT/LN/EM-68	72.5	73.0	0.3	2.1	0.3
94	Gadag-19	76.5	76.5	-0.1	2.5	0.3
31	CM119-3	73.0	76.0	2.7	1.2	0.3
78	Gadag-3	73.5	76.5	2.9	2.5	0.3
27	CM117-1	71.0	73.5	2.4	2.0	0.2
81	Gadag-6	75.5	76.5	1.0	2.6	0.2
96	P15TSR MH28-1-1-3-#-BBBBBB	71.0	72.0	1.2	2.9	0.2
72	DT/LN/EM-75	71.0	77.0	6.1	1.9	0.1
70	DT/LN/EM-49	72.5	74.0	1.5	2.0	0.0
	MEAN	73.33	75.53	2.19	1.92	1.43
	LSD	4.32	3.56	0.78	0.35	0.68
	CV	4.05	3.79	13.40	20.20	23.20

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Table 71: Performance of inbred lines under cold stress.

Entry	Plant count (3WAP)	Germination (%)	Plant count (10WAP)	Survival (%)	50% anthesis	50% silking	ASI	Grain yield (t/ha)
1	0.0	0.0	0.0	0.0	-	-	-	0.000
2	4.0	20.0	1.0	25.0	146.0	149.0	3.0	0.000
3	0.0	0.0	0.0	0.0	-	-	-	0.000
4	0.0	0.0	0.0	0.0	-	-	-	0.000
5	0.0	0.0	0.0	0.0	-	-	-	0.000
6	0.0	0.0	0.0	0.0	-	-	-	0.000
7	0.0	0.0	0.0	0.0	-	-	-	0.000
8	3.0	15.0	1.0	33.3	135.0	138.0	3.0	0.003
9	4.0	20.0	2.0	50.0	138.0	141.0	3.0	0.120
10	0.0	0.0	0.0	0.0	-	-	-	0.000
11	0.0	0.0	0.0	0.0	-	-	-	0.000
12	1.0	5.0	0.0	0.0	-	-	-	0.000
13	3.0	15.0	1.0	33.3	134.0	132.0	-2.0	0.012
14	14.0	70.0	6.0	42.9	135.0	142.0	7.0	0.350
15	0.0	0.0	0.0	0.0	-	-	-	0.000
16	9.0	45.0	5.0	55.6	125.0	131.0	6.0	0.460
17	15.0	75.0	7.0	46.7	131.0	137.0	6.0	0.670
18	10.0	50.0	6.0	60.0	134.0	137.0	3.0	0.470
19	2.0	10.0	0.0	0.0	-	-	-	0.000
20	0.0	0.0	0.0	0.0	-	-	-	0.000
21	0.0	0.0	0.0	0.0	-	-	-	0.000
22	0.0	0.0	0.0	0.0	-	-	-	0.000
23	0.0	0.0	0.0	0.0	-	-	-	0.000
24	0.0	0.0	0.0	0.0	-	-	-	0.000
25	0.0	0.0	0.0	0.0	-	-	-	0.000
26	3.0	15.0	2.0	66.7	136.0	145.0	9.0	0.220
27	0.0	0.0	0.0	0.0	-	-	-	0.000
28	0.0	0.0	0.0	0.0	-	-	-	0.000
29	10.0	50.0	7.0	70.0	121.0	124.0	3.0	0.190
30	3.0	15.0	1.0	33.3	136.0	141.0	5.0	0.002
31	6.0	30.0	4.0	66.7	139.0	142.0	3.0	0.003
32	0.0	0.0	0.0	0.0	-	-	-	0.000
33	0.0	0.0	0.0	0.0	-	-	-	0.000
34	0.0	0.0	0.0	0.0	-	-	-	0.000
35	0.0	0.0	0.0	0.0	-	-	-	0.000
36	2.0	10.0	1.0	50.0	133.0	138.0	5.0	0.013
37	0.0	0.0	0.0	0.0	-	-	-	0.000
38	6.0	30.0	4.0	66.7	141.0	144.0	3.0	0.170
39	0.0	0.0	0.0	0.0	-	-	-	0.000
40	4.0	20.0	1.0	25.0	142.0	147.0	5.0	0.018
41	1.0	5.0	0.0	0.0	-	-	-	0.000
42	0.0	0.0	0.0	0.0	-	-	-	0.000
43	12.0	60.0	4.0	33.3	134.0	136.0	2.0	0.190
44	2.0	10.0	1.0	50.0	131.0	133.0	2.0	0.230

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Entry	Plant count (3WAP)	Germination (%)	Plant count (10WAP)	Survival (%)	50% anthesis	50% silking	ASI	Grain yield (t/ha)
45	5.0	25.0	2.0	40.0	135.0	139.0	4.0	0.140
46	5.0	25.0	3.0	60.0	129.0	134.0	5.0	0.170
47	3.0	15.0	1.0	33.3	130.0	133.0	3.0	0.160
48	1.0	5.0	0.0	0.0	-	-	-	0.000
49	5.0	25.0	2.0	40.0	125.0	126.0	1.0	0.210
50	6.0	30.0	1.0	16.7	132.0	136.0	4.0	0.110
51	11.0	55.0	4.0	36.4	128.0	133.0	5.0	0.180
52	1.0	5.0	0.0	0.0	-	-	-	0.000
53	0.0	0.0	0.0	0.0	-	-	-	0.000
54	3.0	15.0	0.0	0.0	-	-	-	0.000
55	12.0	60.0	6.0	50.0	123.0	126.0	3.0	0.310
56	6.0	30.0	4.0	66.7	132.0	140.0	8.0	0.230
57	9.0	45.0	4.0	44.4	134.0	139.0	5.0	0.160
58	3.0	15.0	1.0	33.3	128.0	131.0	3.0	0.002
59	8.0	40.0	4.0	50.0	129.0	130.0	1.0	0.220
60	1.0	5.0	0.0	0.0	-	-	-	0.000
61	6.0	30.0	4.0	66.7	127.0	132.0	5.0	0.200
62	4.0	20.0	1.0	25.0	126.0	132.0	6.0	0.019
63	4.0	20.0	2.0	50.0	128.0	132.0	4.0	0.015
64	0.0	0.0	0.0	0.0	-	-	-	0.000
65	3.0	15.0	2.0	66.7	128.0	131.0	3.0	0.016
66	0.0	0.0	0.0	0.0	-	-	-	0.000
67	8.0	40.0	5.0	62.5	132.0	135.0	3.0	0.290
68	3.0	15.0	2.0	66.7	133.0	138.0	5.0	0.016
69	4.0	20.0	1.0	25.0	128.0	135.0	7.0	0.002
70	1.0	5.0	0.0	0.0	-	-	-	0.000
71	8.0	40.0	6.0	75.0	141.0	145.0	4.0	0.360
72	0.0	0.0	2.0	0.0	-	-	-	0.000
73	4.0	20.0	1.0	25.0	122.0	128.0	6.0	0.004
74	0.0	0.0	0.0	0.0	-	0.0	-	0.000
75	3.0	15.0	1.0	33.3	138.0	142.0	4.0	0.001
76	3.0	15.0	1.0	33.3	125.0	131.0	6.0	0.001
77	2.0	10.0	1.0	50.0	139.0	146.0	7.0	0.002
78	1.0	5.0	0.0	0.0	-	-	-	0.000
79	0.0	0.0	0.0	0.0	-	-	-	0.000
80	1.0	5.0	0.0	0.0	-	-	-	0.000
81	4.0	20.0	1.0	25.0	141.0	145.0	4.0	0.004
82	4.0	20.0	2.0	50.0	124.0	132.0	8.0	0.002
83	6.0	30.0	3.0	50.0	135.0	139.0	4.0	0.014
84	0.0	0.0	0.0	0.0	-	-	-	0.000
85	0.0	0.0	0.0	0.0	-	-	-	0.000
86	6.0	30.0	3.0	0.0	-	-	-	0.000
87	7.0	35.0	4.0	57.1	127.0	133.0	6.0	0.011
88	8.0	40.0	2.0	25.0	137.0	145.0	8.0	0.016
89	6.0	30.0	2.0	33.3	128.0	135.0	7.0	0.010
90	10.0	50.0	6.0	60.0	124.0	130.0	6.0	0.290
91	8.0	40.0	2.0	25.0	134.0	143.0	9.0	0.000

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Entry	Plant count (3WAP)	Germination (%)	Plant count (10WAP)	Survival (%)	50% anthesis	50% silking	ASI	Grain yield (t/ha)
92	2.0	10.0	1.0	50.0	136.0	138.0	2.0	0.000
93	9.0	45.0	4.0	44.4	132.0	133.0	1.0	0.012
94	0.0	0.0	0.0	0.0	-	-	-	0.000
95	0.0	0.0	0.0	0.0	-	-	-	0.000
96	1.0	5.0	0.0	0.0	-	-	-	0.000
97	2.0	10.0	0.0	0.0	-	-	-	0.000
98	0.0	0.0	0.0	0.0	-	-	-	0.000
99	0.0	0.0	0.0	0.0	-	-	-	0.000
100	10.0	50.0	4.0	40.0	133.0	133.0	0.0	0.180
101	9.0	45.0	3.0	33.3	131.0	138.0	7.0	0.110
102	13.0	65.0	8.0	61.5	129.0	132.0	3.0	0.430
103	14.0	70.0	5.0	35.7	129.0	131.0	2.0	0.250
104	7.0	35.0	2.0	28.6	126.0	127.0	1.0	0.130
105	14.0	70.0	7.0	50.0	127.0	130.0	3.0	0.370
106	12.0	60.0	4.0	33.3	134.0	139.0	5.0	0.140
107	16.0	80.0	6.0	37.5	125.0	128.0	3.0	0.280
108	13.0	65.0	8.0	61.5	132.0	133.0	1.0	0.310
109	10.0	50.0	3.0	30.0	123.0	130.0	7.0	0.012
110	9.0	45.0	6.0	66.7	134.0	137.0	3.0	0.190
111	9.0	45.0	3.0	33.3	126.0	132.0	6.0	0.012
Mean	4.1	20.6	1.8	25.1	131.5	133.6	4.3	0.078
LSD	3.58	24.5	2.98	25.9	-	-	-	0.039
CV (%)	42.3	67.4	23.4	40.2	-	-	-	51.3

RESEARCH REPORT
(Kharif- 2004)

Following trials/experiments were conducted during *Kharif 2004* at maize research farm, IARI, New Delhi

Experiment	Materials	Environment	Entries
DL-101	F1 hybrids (LxT) (Delhi, Dholi, Varanasi)	Normal moisture Excessive moisture	32
DL-102	F1 hybrids (Diallel) (Delhi, Dholi)	Normal moisture Excessive moisture	56
DL-103	F1 hybrids (LxT) (Delhi)	Normal moisture Excessive moisture	48
DL-104	Inbred lines (Physiological studies)	Normal & Excessive moisture	24
DL-105	Inbred lines	Excessive moisture	76
DL-106	Inbred lines (Ear-to-row)	Excessive moisture	276

The experimental details, including germplasm, stress treatments, and salient findings of the experiments are as follows:

F1 hybrids from 13 waterlogging tolerant lines under moisture stress

The F1 progenies from diallel and LxT were derived from the 13 waterlogging tolerant lines. During *Kharif*, 2004, the F₁ families of these crosses were planted in one row plots in two sets with one row of 3.0 m and two replicates using ALPHA-lattice

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design. The F1 from LxT were planted at three locations, i.e.- Delhi, Dholi and BHU, Varanasi, while diallel crosses were planted only at two locations, i.e. Delhi and Dholi. One set was maintained under normal moisture and second set was exposed to excessive moisture stress continuously for 10 days at knee-high stage. Before planting the recommended dose of N: P: K (120:60:40 kg/ha) were applied in soil. All the entries in each trial were over sown with 2-3 seeds per hill and thinned to one plant per hill at 10 days after emergence to maintain a population density of 53000 plants ha⁻¹. Seeds were planted with 0.25m spacing within rows and 0.75m between rows. Experiments were kept free from weeds, insect-pests and diseases using recommended chemical measures.

Excessive moisture stress was applied by flooding the field (water depth 10 cm) continuously for 7 days, starting from 35 DAS (days after sowing *i.e.*, V₇ stage) to 44 DAS. Observations were recorded on various growth, physiological and yield component. The data was first analyzed using ALPHA-lattice and finding across the locations was analyzed using MSTATc and pooled (Table-72 to 76).

The entries are sorted in decreasing order of their performance. Though, there was some change in ranks between normal & excessive moisture stress, however, the top ranking 10 entries were common; which were selected as best entries across the moisture regimes. In the (LxT) trial the best performing entries were WL28-*-*2/HKI 1105, CML327/HKI 1105, CA00106/HKI 1105, CM311/HKI 1105, and CML327/HK 1323. The F₁ of diallels made among waterlogging tolerant lines, the best performing hybrids were CML-327Xwl36-*-*4, WL36-*-*4Xcml-425, CM-118XCML-311, WL28-*-*2Xca00106, and WL36-*-*4xWL18-*-*4.

Screening for Waterlogging Tolerance

The set of lines were planted in two sets, one for maintaining under normal moisture and another for exposing to excessive moisture stress (TL-104, 105 and 106). However, due to severe drought during July – August 2004 and therefore severe crises of irrigation water at IARI research farm the trials could not be exposed to excessive moisture stress. The lines were maintaining through selfing and shall be used for screening under the stress in next kharif season.

Table 72: Performance of F1 progenies of waterlogging tolerance lines crossed with four testers (LxT) under normal moisture conditions (2 loca

ENT	Pedigree	Nodes												
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loading (%)	Nodes with brace roots	50% anthesis	50% siliding	ASI	Ears per plant	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)
8	CA00106/HKI 1105	50.6	161.6	0.7	0.0	0.6	57.7	58.1	0.5	4.0	13.6	13.1	10.36	7.58
6	WL28- ^s -2/HKI 1105	55.2	160.9	0.6	0.0	2.1	55.0	58.0	0.9	1.3	16.7	12.4	6.26	6.94
28	MHD4-5	43.2	155.5	0.7	0.0	0.7	55.1	57.1	1.7	0.9	16.0	12.2	9.80	6.84
23	CML327/HKI1105	48.8	153.9	0.7	0.0	0.3	61.8	61.4	-0.5	0.9	17.5	12.2	10.22	6.80
5	WL28- ^s -2/HKI 323	35.1	182.7	0.6	0.0	1.1	54.7	56.8	2.4	0.9	16.2	12.2	8.28	6.36
20	CMS11/CM 131	48.1	164.8	0.6	0.5	1.4	57.7	61.6	4.4	0.7	15.1	12.2	6.18	6.20
12	CMS11/HKI 1105	45.0	139.5	0.7	0.0	-0.2	56.2	58.8	2.5	0.9	15.7	13.1	8.76	6.14
21	WL18- ^s -4/CM 131	48.4	157.9	0.7	0.0	1.4	58.0	60.2	2.4	0.9	15.5	12.6	8.40	5.60
22	CWL327/HKI323	55.3	147.7	0.7	0.0	1.6	61.5	64.0	2.4	2.6	16.1	12.0	8.56	5.54
7	CA00106/HKI 323	46.7	188.0	0.6	0.0	1.4	57.7	59.9	2.7	0.7	15.1	12.3	7.50	5.36
4	WL18- ^s -6/HKI 1105	43.2	146.1	0.6	0.0	0.7	56.1	56.6	1.2	0.9	16.1	11.8	7.20	5.32
24	CML327/CM131	54.2	158.1	0.6	0.0	1.4	62.6	67.7	4.5	0.7	16.8	12.8	7.68	5.24
10	CM118/HKI 1105	41.1	132.7	0.7	0.0	0.6	61.2	62.3	2.4	0.7	14.8	12.7	7.08	5.06
16	WL18- ^s -6/CM 131	53.0	163.8	0.7	0.0	0.9	55.2	57.1	1.9	0.8	16.3	12.1	6.98	5.00
18	CA00106/CM 131	45.7	173.9	0.7	0.0	1.2	57.9	61.4	3.9	0.5	15.1	13.7	7.20	4.98
17	WL28- ^s -2/CM 131	49.9	166.7	0.7	0.0	1.9	57.2	58.4	1.7	0.9	15.4	11.7	6.70	4.96
19	CM118/CM 131	48.2	163.6	0.7	0.0	0.4	55.6	58.7	2.5	0.9	16.5	13.5	7.28	4.94
3	WL18- ^s -6/HKI 323	47.2	165.4	0.6	0.0	0.5	55.7	58.4	0.9	1.0	16.5	11.3	6.44	4.72
11	CMS11/HKI 323	47.2	154.0	0.7	0.0	1.1	56.2	57.3	1.2	0.8	16.4	12.6	6.46	4.60
9	CM118/HKI 323	48.4	162.7	0.7	0.0	2.2	55.4	58.9	0.9	0.6	15.5	13.2	6.20	4.28
14	WL18- ^s -4/HKI 1105	51.2	136.9	0.7	0.0	1.0	57.7	58.4	0.9	0.9	16.9	12.0	5.74	4.22
32	Check 1 (Bib-9681)	51.7	162.9	0.7	0.0	1.9	64.5	65.2	0.9	0.4	15.6	14.2	6.91	4.10
2	WL2- ^s -1/HKI 1105	39.5	146.9	0.7	0.0	0.1	61.1	62.8	1.4	0.9	14.3	11.9	5.58	3.96
31	HUMT-991	44.6	179.6	0.6	0.0	0.6	52.8	54.4	1.5	1.0	15.1	11.5	5.12	3.80

ENT	Pedigree	Nodes with												
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loading (%)	brace roots	50% anthesis	50% silking	ASI	Ears per plant	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)
13	WL18-x-x-4/HKI 323	49.0	157.9	0.7	0.0	0.7	53.6	54.6	1.2	0.8	15.0	12.4	5.40	3.62
15	WL8-a-a-1/CM 131	50.5	130.1	0.7	0.0	1.1	58.2	60.6	2.5	0.8	14.0	12.4	4.76	3.58
1	WL8-a-a-1/HKI 323	43.4	161.3	0.6	0.0	1.7	57.6	59.1	1.2	0.4	15.0	12.0	4.90	3.54
27	MH04-3	47.5	128.7	0.7	0.0	-0.2	61.7	66.3	4.5	0.7	17.3	12.8	5.46	3.14
30	HUMT-983	47.7	159.8	0.7	0.5	0.7	61.4	63.4	0.9	0.5	12.9	13.1	4.90	3.06
26	MH01-3	46.6	150.9	0.7	0.0	0.6	61.1	67.3	2.4	0.7	16.1	11.9	4.88	2.96
25	MH01-2	46.1	155.3	0.7	0.0	1.1	62.7	64.3	1.7	0.8	11.7	12.5	4.06	2.50
29	HUMT-981	45.2	140.0	0.7	0.0	1.7	64.9	67.4	2.4	0.6	14.6	12.0	3.90	2.46
	MEAN	47.40	156.56	0.65	0.03	1.02	58.31	60.33	1.94	0.93	15.48	12.44	3.31	4.79
	LSD	NS	26.43	NS	NS	NS	5.49	5.39	NS	NS	2.61	NS	2.89	1.62
	CV	12.84	8.20	10.52	554.26	75.99	4.57	4.34	76.25	96.43	8.17	5.27	26.45	27.63
	FSIG	0.00	5.00	0.00	0.00	0.00	1.00	1.00	0.00	0.00	5.00	0.00	5.00	5.00
	REFF	0.94	1.66	0.87	1.08	1.45	1.34	1.15	1.17	1.04	1.06	1.03	1.27	1.22

Table 73: Performance of F1 progenies of waterlogging tolerance lines crossed with four testers (LxT) under excessive moisture conditions (2 t

ENT	Pedigree	Chloro										Nodes									
		phyll (SPAD unit)	Plant height (cm)	Ear place ment	Load ging (%)	Nodes with brace roots	50% anthesis	50% silking	ASI	Ears per plant	% mortality	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)	Visual score (1-3)	% Yield loss to normal				
6	WL28- ^a - ^a -2/HKI 1105	41.4	163.7	0.5	0.0	1.0	55.4	56.5	1.0	1.0	3.4	16.4	12.4	6.21	5.56	1.0	19.9				
23	CML327/HKI1105	41.3	111.1	0.6	0.3	0.1	62.6	64.4	2.0	1.4	0.1	16.8	13.1	7.96	4.75	2.0	30.1				
8	CA00106/HKI 1105	46.9	149.4	0.5	0.0	0.0	60.2	62.3	2.0	1.0	0.1	13.7	14.1	6.65	4.31	1.1	43.1				
12	CM311/HKI 1105	49.8	126.2	0.6	0.3	1.1	59.7	62.0	2.5	1.2	12.8	17.1	13.6	6.36	4.12	2.2	32.9				
22	CML327/RK323	46.0	151.2	0.5	0.1	1.0	61.8	63.5	2.0	1.0	6.2	16.7	12.6	5.66	4.12	1.5	25.6				
20	CM311/CM 131	47.4	160.4	0.6	0.0	2.0	58.7	61.3	2.5	1.0	3.7	15.4	14.3	5.45	4.06	1.6	34.5				
28	MH04-5	54.0	158.0	0.6	-0.4	1.8	56.1	57.5	1.0	1.0	2.1	15.5	13.0	7.89	4.03	0.8	16.8				
19	CM118/CM 131	50.1	144.0	0.6	-0.3	1.8	59.6	63.5	4.0	0.9	-0.1	18.9	14.5	5.24	3.85	1.8	22.1				
5	WL28- ^a - ^a -2/HKI 323	52.0	173.2	0.5	-0.4	1.8	54.9	56.9	1.5	0.9	11.1	16.7	12.5	4.68	3.79	0.9	40.4				
4	WL18- ^a - ^a -6/HKI 1105	44.7	155.3	0.6	2.8	0.3	57.6	59.0	1.5	1.0	6.2	18.3	12.8	5.14	3.75	1.8	29.5				
24	CML327/CM131	38.3	132.9	0.6	0.0	0.6	65.4	68.5	4.0	0.9	0.4	18.1	12.7	5.64	3.62	3.1	30.9				
18	CA00106/CM 131	51.2	162.5	0.6	0.0	1.0	59.4	62.0	2.5	1.0	4.1	14.2	13.1	4.86	3.56	1.5	28.5				
14	WL18-x-x-4/HKI 1105	53.2	115.9	0.6	0.0	1.0	62.0	63.2	1.0	1.1	4.4	16.8	11.9	5.10	3.47	2.4	17.8				
17	WL28- ^a - ^a -2/CM 131	34.8	145.2	0.6	0.1	0.1	60.0	61.7	2.0	1.0	4.1	16.8	12.8	4.65	3.43	2.4	30.8				
2	WL8- ^a - ^a -1/HKI 1105	46.7	141.5	0.5	0.1	1.1	59.6	59.7	0.5	1.1	10.3	16.1	13.0	4.45	3.40	1.6	14.1				
13	WL18-x-x-4/HKI 323	51.3	139.2	0.5	0.0	2.6	59.1	61.2	2.0	1.3	-0.1	16.1	12.1	4.40	3.34	2.1	7.7				
7	CA00106/HKI 323	50.6	158.4	0.6	0.3	0.6	60.7	63.0	2.5	1.0	0.1	15.8	13.5	4.66	3.32	2.2	38.1				
9	CM118/HKI 323	47.3	128.9	0.5	0.3	1.0	59.0	60.7	2.0	1.0	7.0	14.6	12.3	4.52	3.24	1.1	24.3				
16	WL18- ^a - ^a -6/CM 131	47.3	123.6	0.6	0.3	0.1	62.1	65.4	3.5	1.3	0.1	16.3	11.9	4.81	3.20	2.5	36.0				
31	ECUMT-991	51.4	166.2	0.6	18.7	2.3	53.2	56.3	3.0	1.1	6.3	15.5	11.6	4.45	3.16	1.9	16.8				
11	CM311/HKI 323	51.1	166.4	0.6	0.0	1.6	58.5	60.6	2.0	1.1	19.6	18.0	14.4	4.59	3.14	2.2	31.7				
26	MH01-3	43.9	159.6	0.6	0.3	2.0	56.5	61.2	3.0	1.0	4.0	15.9	11.9	5.57	2.74	2.1	7.4				
1	WL8- ^a - ^a -1/HKI 323	44.1	130.4	0.6	0.0	1.6	60.4	62.5	2.0	1.0	8.1	14.6	12.0	3.59	2.72	2.6	23.2				

ENT	Pedigree	Chloro		Nodes				Ears per plant	% mortality	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)	Visual score (1-3)	% Yield loss to normal		
		phyll (SPAD unit)	Plant height (cm)	Ear placement	Load (%)	ging brace roots	50% anthesis									50% silking	ASI
3	WL18-*-*6/HKI 323	39.2	136.2	0.6	0.1	0.0	60.8	61.5	1.0	1.2	0.0	13.3	11.6	2.96	2.57	1.5	45.6
27	MH04-3	43.8	147.9	0.5	0.0	0.1	63.5	66.1	2.5	0.9	3.0	15.0	12.4	4.44	2.54	1.2	19.1
15	WL8-*-*1/CM 131	46.4	106.7	0.6	-0.1	1.3	61.2	63.8	2.5	1.2	11.1	14.6	11.7	5.30	2.51	1.9	29.9
21	WL18-*-*4/CM 131	43.7	149.7	0.6	0.0	1.1	58.1	60.2	2.0	1.2	4.0	16.4	12.7	3.45	2.49	2.1	55.5
30	HUMT-983	55.1	162.7	0.6	0.1	2.6	62.1	67.2	5.5	1.1	12.6	14.7	12.2	3.50	2.35	2.1	23.2
29	HUMT-981	39.7	175.0	0.6	-0.4	1.8	62.4	63.9	1.0	1.1	10.8	14.4	12.0	3.48	2.34	1.9	4.9
10	CM118/HKI 1105	47.0	110.2	0.6	0.1	0.6	63.5	63.2	0.0	1.2	21.4	14.4	11.8	3.00	2.08	2.4	58.9
32	Check 1 (Bio-9681)	45.9	143.0	0.6	-0.4	2.3	60.1	63.5	3.0	0.9	-0.5	14.5	12.5	5.29	1.79	2.7	56.3
25	MH01-7	51.9	133.1	0.5	0.0	1.0	64.5	65.7	1.0	1.1	16.5	21.4	13.4	2.20	1.32	2.4	47.2
	MEAN	46.79	144.62	0.54	0.66	1.17	60.02	62.16	2.14	1.07	6.02	16.00	12.70	4.86	3.27	1.89	29.47
	LSD	3.45	11.23	NS	1.80	1.48	5.01	6.70	1.10	NS	1.03	2.81	1.51	1.57	1.12	0.75	
	CV	14.42	12.64	12.64	78.9	61.28	4.05	4.84	90.17	13.23	32.30	8.54	5.76	15.67	16.13	33.54	
	FSIG	5.00	5.00	0.00	0.00	5.00	5.00	5.00	5.00	NS	5.00	1.00	5.00	1.00	1.00	0.00	
	REFF	1.21	1.01	0.92	5.00	1.12	1.09	1.14	0.96	1.45	1.02	0.97	1.11	1.54	1.58	5.00	

Table 74: Performance of F1 progenies of waterlogging tolerance lines (half diallel) under normal moisture conditions (3 locations).

ENT	Pedigree	Nodes with											
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loading (%)	brace roots	50% anthesis	50% silking	ASI	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)
26	WL28*-2xCML429	42.4	195.3	0.5	0.0	1.5	54.1	54.6	1.0	16.2	15.0	11.60	8.65
30	WL28*-2xCA14707	54.4	178.6	0.5	0.0	1.3	57.0	58.4	1.0	16.4	14.1	9.80	7.64
47	CML-427xCML-311	54.5	161.4	0.6	0.0	1.6	57.4	58.0	0.5	14.0	12.6	9.66	7.06
4	CML-327xCML-427	57.1	148.0	0.5	0.0	1.5	56.0	55.9	0.0	16.0	12.6	9.37	6.92
29	WL28*-2xCA00106	50.9	185.0	0.5	0.0	1.6	56.3	57.5	1.0	14.0	13.0	8.65	6.92
42	CML-425xCA14707	47.3	166.6	0.6	0.0	1.0	60.6	60.2	-0.5	17.0	13.9	9.51	6.77
55	CM-118xCML-311	47.0	147.0	0.5	0.0	1.0	56.0	57.2	1.5	14.6	15.1	9.51	6.77
44	CML-425xCML311	45.6	176.5	0.6	0.0	1.6	54.6	56.1	1.5	14.3	13.4	8.50	6.49
38	WL36*-4xCML-311	54.4	151.5	0.6	0.0	1.4	57.6	61.4	3.5	15.0	14.5	8.79	6.34
3	CML-327xWL36*-4	47.0	176.2	0.6	0.0	1.7	61.4	62.4	1.0	14.0	13.7	7.21	6.15
39	WL36*-4xWL18*-4	49.6	151.2	0.6	6.4	2.0	57.2	60.1	2.5	14.8	13.5	5.77	5.98
34	WL36*-4xCML-427	48.7	139.3	0.6	0.0	1.2	59.4	60.8	1.5	15.0	14.0	7.50	5.77
36	WL36*-4xCA00106	55.0	166.4	0.6	0.0	0.4	57.6	60.8	3.0	16.1	15.1	8.22	5.77
24	WL18*-6xCML311	36.1	159.0	0.5	0.0	1.8	60.6	60.6	-0.5	13.6	13.3	3.32	5.69
43	CML-425xCM118	47.9	170.7	0.6	3.6	1.7	57.7	60.0	2.5	16.2	13.8	4.61	5.68
33	WL36*-4xCML-425	53.2	163.8	0.6	0.0	1.9	56.9	58.8	2.0	14.0	13.0	5.77	5.50
13	WL8*-1xCA00106	44.9	171.2	0.6	0.0	2.1	57.0	59.1	2.5	16.3	12.6	7.78	5.48
19	WL18*-6xWL36*-4	45.1	177.0	0.6	13.0	2.2	58.4	59.1	0.5	16.8	13.4	7.35	5.48
31	WL28*-2xCML311	48.7	170.2	0.5	0.0	2.5	55.7	57.3	1.5	14.6	13.2	7.50	5.48
7	WL8*-1xWL18*-6	55.2	174.3	0.6	0.0	1.0	57.2	57.3	0.0	16.4	13.8	7.50	5.33
10	WL8*-1xCML-425	44.8	155.1	0.6	0.0	1.2	56.8	58.9	2.0	15.0	12.0	6.77	5.33
56	CML-311xWL18*-4	48.9	184.4	0.5	0.0	1.1	56.9	57.7	1.0	17.0	14.2	7.50	5.33
17	WL8*-1xWL18*-4	51.6	161.7	0.5	0.0	2.1	53.1	56.1	3.0	13.6	11.5	4.76	5.23
5	CML-327xCML-429	38.9	185.2	0.5	0.0	2.2	58.0	59.0	0.5	14.8	12.9	6.77	5.21
23	WL18*-6xCM118	52.3	165.2	0.6	10.7	2.5	51.7	54.1	2.5	15.6	12.8	6.63	5.19
52	CA00106xCA14707	43.3	186.1	0.6	0.0	1.9	62.7	63.8	1.0	14.6	13.2	5.48	5.12
54	CA14707xCML-311	49.1	146.9	0.5	0.0	2.6	57.0	60.0	2.5	14.6	13.7	4.32	5.10
8	WL8*-1xWL28*-2	49.8	175.8	0.5	0.0	1.4	56.5	57.6	1.0	16.0	14.7	6.20	5.05
12	WL8*-1xCML-429	55.3	172.5	0.6	0.0	1.3	55.2	57.5	2.5	14.2	12.3	6.77	5.05
35	WL36*-4xCML-429	45.0	157.0	0.6	0.0	0.3	60.3	64.4	4.0	15.7	15.1	7.06	5.05

ENT	Pedigree	Nodes with										Grain yield (t/ha)	
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loosening (%)	brace roots	50% anthesis	50% silking	ASI	Ear length (cm)	Ear girth (cm)		Cob weight (t/ha)
50	CML-429xCML-311	54.5	174.8	0.6	6.7	2.2	56.6	58.7	2.5	15.4	13.8	7.78	5.05
6	CML-327xCM-118	39.4	164.7	0.5	0.0	1.3	57.8	58.4	2.0	15.1	13.8	8.63	4.90
49	CML-429xCML118	42.3	169.6	0.5	0.0	1.1	56.6	57.1	1.0	15.4	15.1	7.35	4.90
11	WL8-**-1xCML427	46.0	160.9	0.5	0.0	1.0	56.4	57.8	1.5	16.1	12.7	5.19	4.89
18	WL18-**-6xWL28-**-2	46.7	172.0	0.6	0.0	1.0	60.2	61.3	1.5	16.3	12.5	5.19	4.89
25	WL18-**-6xWL18-**-4	45.9	155.1	0.5	0.0	0.9	55.0	56.8	2.0	14.8	11.2	2.74	4.88
46	CML-427xCML118	38.8	161.1	0.7	6.2	2.0	60.1	61.2	1.0	16.3	13.0	5.33	4.87
26	WL28-**-2xWL36-**-4	41.6	170.9	0.5	0.0	2.1	57.7	59.6	2.5	14.5	15.5	5.69	4.76
40	CML-425xCML-429	48.3	152.8	0.6	0.0	1.0	60.7	61.8	1.0	17.6	14.2	7.06	4.76
48	CML-429xCA00106	53.8	153.7	0.6	0.0	1.5	58.3	59.1	1.0	13.0	14.5	6.20	4.76
15	WL8-**-1xCML118	53.5	144.9	0.5	0.0	1.6	54.8	57.7	2.5	14.6	13.4	5.91	4.61
1	CML-327xWL8-**-1	45.1	153.2	0.5	3.9	1.1	53.7	55.1	1.5	12.2	10.8	5.22	4.61
16	WL8-**-1xCML311	55.8	154.6	0.6	0.0	2.2	55.9	56.5	0.5	15.2	12.3	4.61	4.59
27	WL28-**-2xCML425	46.5	186.7	0.5	0.0	1.9	56.0	59.5	3.5	14.4	11.7	5.48	4.59
22	WL18-**-6xCA00106	51.6	166.3	0.7	0.0	1.2	59.6	61.8	1.5	14.4	11.5	4.32	4.49
9	WL8-**-1xWL36-**-4	57.6	170.4	0.6	0.0	1.3	59.8	60.4	0.5	14.2	14.2	6.34	4.47
2	CML327xWL28-**-2	52.0	173.0	0.5	0.0	2.0	60.4	63.5	2.5	14.6	12.3	3.60	4.39
32	WL28-**-2xWL18-**-4	50.2	159.6	0.6	0.0	1.6	58.3	58.2	0.0	14.2	12.4	4.80	4.35
37	WL36-**-4xCML118	52.5	116.6	0.6	0.0	2.1	59.0	58.8	0.5	13.4	14.3	5.48	4.32
41	CML-425xCA00106	47.6	168.6	0.6	0.0	1.3	62.6	65.4	3.0	15.0	12.4	6.77	4.32
20	WL18-**-6xCML-425	55.5	151.5	0.6	0.0	2.0	55.3	56.8	1.5	17.7	12.9	5.48	4.18
45	CML-425xWL18-**-4	43.8	155.8	0.6	0.0	0.5	56.8	57.8	1.5	18.5	14.2	5.84	4.18
21	WL18-**-6xCML-429	56.7	154.0	0.6	0.0	1.3	56.9	58.0	1.0	15.1	12.1	4.61	4.12
51	CML-429xWL18-**-4	43.8	152.3	0.6	3.0	0.7	61.9	63.1	2.0	15.0	13.5	4.76	4.10
53	CA00106xCML118	44.0	175.6	0.6	0.0	2.3	57.6	59.3	1.5	13.0	13.0	5.48	4.04
14	WL8-**-1xCA14707	60.8	141.1	0.5	0.0	2.2	57.3	59.2	2.0	14.0	12.7	5.33	3.89
	MEAN	46.90	163.91	0.54	0.96	1.54	57.54	59.10	1.56	15.11	13.32	6.49	5.28
	LSD	NS	25.32	NS	NS	NS	4.07	4.55	NS	0.08	0.22	1.01	0.62
	CV	12.69	7.65	9.37	348.48	36.87	3.50	3.81	79.96	0.31	0.81	1.03	1.02
	FSIG	0.00	1.00	0.00	0.00	0.00	1.00	5.00	0.00	1.00	1.00	1.00	1.00
	REFF	1.02	1.37	0.82	1.00	1.30	1.88	1.77	0.94	0.70	0.89	0.12	0.62

Table 75: Performance of F1 progenies of waterlogging tolerance lines (half diallel) under excessive moisture conditions (3 locations).

ENT	Pedigree	Chloro			Nodes			50% anthesis	50% silking	ASI	Ears per plant	% mortality	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)	Visual score (1-3)	% yield loss to normal
		SPAD unit)	Plant height (cm)	Ear place ment	Loading (%)	bract roots	width											
3	CML-327xWL36-2-4	50.6	176.6	0.6	1.6	2.0	59.0	61.5	2.5	1.0	9.0	16.9	14.6	6.80	5.85	1.6	4.9	
33	WL36-2-4xCML-425	51.6	181.7	0.6	0.2	3.0	58.5	61.0	2.5	1.3	4.2	15.8	13.7	7.05	5.20	1.6	5.5	
55	CM-118xCML-311	58.7	160.8	0.5	11.0	2.6	54.0	57.5	3.5	1.1	0.7	17.2	15.3	7.25	5.20	1.6	23.2	
29	WL28-2-2xCA00106	41.6	191.9	0.5	-1.0	1.5	57.5	60.0	2.5	1.1	12.7	15.7	13.7	5.15	5.15	1.5	25.6	
39	WL36-2-4xWL18-2-4	51.4	171.1	0.6	20.6	2.6	54.5	57.0	2.5	1.3	5.0	17.4	15.1	7.55	5.15	1.7	13.9	
44	CML-425xCML311	51.8	163.9	0.5	10.0	2.4	57.0	58.0	1.0	1.0	2.4	16.9	14.4	7.15	5.00	1.5	22.9	
5	CML-327xCML-429	50.7	193.6	0.6	-0.2	1.9	56.5	57.0	0.5	1.0	3.2	15.8	13.9	7.30	4.85	0.9	6.9	
35	WL36-2-4xCML-429	52.6	156.5	0.6	-0.7	2.5	58.5	61.0	2.5	1.0	15.9	14.4	14.9	6.85	4.85	2.0	3.9	
28	WL28-2-2xCML429	52.8	185.7	0.6	2.7	1.4	56.5	57.0	1.5	1.1	6.4	14.9	13.8	6.60	4.80	1.0	44.5	
13	WL8-2-1xCA00106	42.4	187.0	0.6	3.1	2.2	56.0	59.0	3.0	1.1	2.4	16.9	14.2	6.55	4.75	1.3	13.3	
42	CML-425xCA14707	42.6	184.5	0.6	-3.7	2.9	60.0	60.5	0.5	1.0	-2.2	18.0	13.1	7.00	4.75	0.9	29.9	
38	WL36-2-4xCML-311	51.8	170.0	0.6	10.7	2.0	55.5	59.0	3.5	1.2	18.6	14.8	14.4	6.40	4.70	1.5	25.9	
12	WL8-2-1xCML-429	46.8	165.3	0.5	20.5	2.9	53.5	57.5	4.0	1.1	5.5	15.2	13.7	6.30	4.65	1.4	7.8	
43	CML-425xCML118	54.2	159.7	0.6	-0.1	2.1	53.5	56.0	2.5	1.2	2.2	16.9	14.1	6.15	4.55	1.1	19.9	
10	WL8-2-1xCML-425	45.1	165.7	0.5	4.7	3.0	55.5	58.0	2.5	1.2	1.4	17.7	13.6	5.80	4.50	1.5	15.6	
56	CML-311xWL18-2-4	52.2	165.1	0.6	4.7	2.5	56.0	60.5	4.5	1.1	7.7	16.1	13.8	6.70	4.50	1.1	15.6	
36	WL36-2-4xCA00106	49.0	173.0	0.5	9.1	1.9	57.5	60.0	2.5	1.0	8.2	15.5	14.6	6.30	4.45	1.5	22.8	
11	WL8-2-1xCML427	54.4	149.5	0.5	18.6	1.6	56.0	56.5	0.5	1.1	10.1	17.2	12.9	5.90	4.40	1.4	10.0	
23	WL18-2-6xCML118	52.6	146.5	0.6	22.6	0.9	54.0	56.0	2.0	1.1	4.5	15.6	13.5	5.95	4.35	2.0	16.2	
52	CA00106xCA14707	46.3	194.4	0.5	1.6	2.5	60.0	63.0	3.0	1.1	7.8	16.7	14.2	6.30	4.35	1.5	15.0	
9	WL8-2-1xWL36-2-4	43.9	169.6	0.5	-0.5	1.5	56.0	57.5	1.5	1.2	5.4	17.1	14.8	5.65	4.30	1.2	3.8	
46	CML-427xCML118	53.3	163.3	0.6	16.3	1.9	55.0	55.5	0.5	1.4	18.3	16.3	13.5	5.70	4.30	1.9	11.7	
49	CML-425xCML118	48.1	172.1	0.5	0.1	2.2	54.5	56.5	2.0	1.3	3.8	14.1	14.2	5.95	4.25	1.0	13.3	
2	CML327xWL28-2-2	46.5	185.4	0.5	-3.2	0.9	62.0	63.0	1.0	0.9	7.3	16.7	13.6	5.50	4.20	1.9	4.3	
34	WL36-2-4xCML-427	41.0	165.7	0.5	-3.0	0.9	60.0	62.0	2.0	1.0	2.4	16.0	15.4	5.25	4.20	1.6	27.2	
54	CA14707xCML-311	46.2	171.9	0.6	-0.7	3.0	57.0	59.0	2.0	1.1	17.8	17.1	13.7	6.05	4.20	2.0	17.6	
8	WL8-2-1xWL28-2-2	50.0	167.2	0.5	3.2	2.0	54.0	56.0	2.0	1.0	13.1	15.7	12.9	5.25	4.15	1.6	17.7	
41	CML-425xCA00106	47.8	164.5	0.5	6.9	3.0	56.0	60.0	2.0	1.2	11.1	15.3	14.2	6.00	4.15	1.0	4.0	

17	WL8--1xWL18--4	56.8	158.7	0.6	18.4	2.9	53.0	55.0	2.0	1.3	6.1	16.2	14.5	5.80	4.10	1.4	21.6
18	WL18--6xWL28--2	42.4	170.7	0.5	0.0	1.9	55.5	57.0	1.5	1.0	-1.1	18.3	16.0	5.25	4.10	1.5	16.2
22	WL18--6xCA00106	51.9	174.8	0.5	9.7	2.5	57.5	60.0	2.5	0.9	6.4	16.5	12.9	5.75	4.10	1.5	8.7
19	WL18--6xWL36--4	52.4	165.1	0.6	11.7	2.0	54.0	54.5	0.5	1.0	10.4	16.8	14.4	6.00	4.05	1.2	26.1
24	WL18--6xCM1311	53.6	163.9	0.5	0.8	1.5	57.0	57.5	0.5	1.0	1.1	17.7	14.3	5.50	4.05	1.5	28.8
27	WL28--2xCM1425	51.7	191.8	0.5	-1.6	3.0	54.5	56.0	1.5	0.9	7.6	17.8	13.7	5.55	4.05	1.5	11.8
20	WL18--6xCM1425	58.8	160.7	0.6	-0.5	2.1	54.0	55.5	1.5	1.1	4.9	17.6	12.9	6.65	3.95	0.9	5.5
16	WL8--1xCM1311	55.1	166.3	0.5	12.9	1.9	57.5	57.5	0.0	1.0	0.5	16.1	14.4	5.70	3.90	1.4	15.0
6	CM1-327xCM118	52.3	160.5	0.5	2.9	1.0	60.0	61.0	1.0	1.3	18.3	16.1	14.1	5.50	3.85	2.0	21.4
48	CM1-429xCA00106	49.8	172.5	0.5	0.2	2.4	58.0	60.0	2.0	1.1	6.5	17.1	13.9	5.50	3.85	1.9	19.1
53	CA00106xCM118	51.1	166.8	0.5	3.7	2.0	58.5	60.0	1.5	1.3	3.7	16.3	14.5	5.85	3.85	1.6	4.6
50	CM1-429xCM1-311	49.6	168.6	0.5	40.8	1.9	57.5	60.5	3.0	1.0	-1.0	16.7	14.6	5.70	3.80	1.9	24.7
21	WL18--6xCM1-429	52.5	167.5	0.6	0.0	3.0	57.5	58.0	0.5	1.2	8.3	16.5	13.8	5.25	3.65	2.4	11.4
32	WL28--2xWL18--4	50.7	190.1	0.5	-0.6	2.2	53.0	54.0	1.0	1.0	16.8	17.1	13.2	4.80	3.65	1.1	16.1
51	CM1-429xWL18--4	59.8	177.4	0.5	13.9	1.9	59.0	59.0	0.0	1.2	7.0	15.7	13.7	5.40	3.65	1.5	11.0
7	WL8--1xWL18--6	55.6	156.1	0.5	-0.3	2.5	58.0	58.5	0.5	1.0	2.3	16.8	13.3	4.60	3.45	1.5	35.3
30	WL28--2xCA14707	52.3	176.9	0.5	8.8	1.2	58.5	59.5	1.0	1.1	19.6	17.9	13.3	4.45	3.40	2.1	55.5
47	CM1-427xCM1-311	58.1	153.6	0.5	7.7	1.1	56.5	59.0	2.5	1.4	25.5	16.0	13.8	4.80	3.40	1.1	51.9
15	WL8--1xCM118	47.0	138.5	0.5	26.7	2.0	57.5	58.5	1.0	1.1	17.9	16.5	14.3	4.30	3.25	2.5	29.5
37	WL36--4xCM118	56.6	155.2	0.5	2.4	1.6	54.0	55.5	1.5	1.0	20.6	15.6	15.4	4.35	3.25	1.2	24.8
25	WL18--6xWL18--4	53.7	139.4	0.6	20.3	1.5	56.5	58.5	2.0	0.9	2.1	17.6	13.2	4.25	3.15	2.5	35.5
26	WL28--2xWL36--4	53.8	174.4	0.4	12.3	2.0	57.0	60.5	3.5	0.9	8.0	16.0	14.3	4.05	3.15	2.0	33.8
4	CM1-327xCM1-427	61.3	169.8	0.5	0.5	2.0	59.0	61.0	2.0	1.5	16.9	15.1	13.5	5.80	3.10	2.0	55.2
31	WL28--2xCM1311	43.7	163.7	0.5	14.6	2.0	60.0	63.0	3.0	1.0	18.9	15.7	14.5	4.65	3.10	2.2	43.4
14	WL8--1xCA14707	55.8	157.1	0.5	7.6	2.2	53.5	58.0	4.5	1.0	3.2	16.1	13.8	4.05	3.05	1.4	21.6
45	CM1-425xWL18--4	60.9	164.1	0.6	0.6	3.0	55.5	57.5	2.0	1.0	4.0	18.1	14.3	4.25	2.90	1.6	30.6
40	CM1-425xCM1-429	42.4	175.1	0.6	18.7	2.0	58.5	59.0	0.5	1.0	5.4	16.8	14.7	4.35	2.80	1.9	41.1
1	CM1-327xWL8--1	54.4	158.2	0.5	17.7	2.9	51.0	52.0	1.0	1.0	12.9	15.7	12.5	3.25	2.50	1.4	45.7
	MEAN	51.05	168.94	0.51	7.23	2.11	56.55	58.42	1.87	1.09	8.17	16.40	14.01	5.67	4.09	1.55	21.23
	LSD	NS	18.23	NS	NS	NS	4.28	4.18	2.01	0.20	NS	1.95	NS	1.02	0.76	NS	
	CV	10.39	5.34	10.72	135.71	34.00	3.75	3.54	53.22	9.33	98.05	5.88	7.57	19.18	22.58	37.28	
	FSNG	0.00	1.00	0.00	0.00	0.00	1.00	1.00	1.00	1.00	0.00	5.00	0.00	1.00	5.00	0.00	
	REFF	0.98	1.36	0.91	1.15	1.09	0.90	0.88	1.00	1.39	1.14	0.94	0.93	0.90	0.88	1.14	

Table 76: Performance of F1 progenies of waterlogging tolerance lines (LxT) under normal moisture conditions (One location).

ENT	Pedigree	Nodes										
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loadng (%)	braca roots	50% anthesis	50% silking	ASI	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)
5	WL36- ^s - ^s -4 X T4	44.3	166.9	0.7	0.0	1.5	56.0	58.2	2.0	14.7	12.05	9.85
13	CA14707 X T4	45.1	163.7	0.8	0.0	2.5	56.5	58.3	1.5	16.2	12.80	9.45
23	CML-311 X CML-327	43.0	196.1	0.6	0.0	0.5	58.0	60.8	2.5	14.4	11.00	8.45
7	CML-427 X T4	52.5	157.7	0.5	0.0	1.0	53.0	55.7	2.5	13.4	11.45	8.38
20	CML-427 X T1	52.7	157.4	0.6	0.0	1.5	57.0	57.0	0.5	16.1	10.68	8.10
9	CML-311 X T3	46.1	204.9	0.6	3.6	1.5	58.0	59.9	1.5	17.2	11.00	8.06
11	CML-327 X T4	49.5	173.7	0.6	0.0	1.0	59.5	63.3	3.5	17.2	11.43	7.83
6	CML-429 X T4	52.7	173.1	0.6	0.0	2.0	57.0	58.0	1.0	14.3	10.60	7.53
17	CML-429 X T1	47.0	173.6	0.5	3.2	1.5	58.0	58.7	1.0	13.3	9.98	7.53
4	CML-425 X T4	46.0	178.0	0.7	0.0	1.5	58.5	62.2	3.5	16.3	10.60	7.43
16	CML-429 X T2	54.5	167.9	0.6	0.0	2.0	57.0	57.9	0.5	13.9	10.13	7.43
2	CML-427 X T3	46.3	176.6	0.6	0.0	1.5	60.0	61.5	2.0	15.8	10.68	7.23
10	WL28- ^s - ^s -2 X T3	43.1	174.6	0.6	0.0	1.0	55.5	56.2	0.5	15.8	10.05	7.23
1	CML-429 X T3	38.5	134.1	0.5	0.0	1.0	63.5	65.5	2.0	15.8	9.02	7.00
24	PRO-311 (CHBCK)	57.2	143.7	0.6	0.0	2.0	62.0	63.1	1.5	15.8	10.53	6.55
15	CML-427 X T1	47.8	170.7	0.6	0.0	1.0	56.0	56.1	0.0	14.4	8.85	6.48
12	WL36- ^s - ^s -4 X T3	50.3	171.5	0.6	3.6	0.0	54.5	54.9	0.5	13.4	7.88	6.08
14	WL36- ^s - ^s -4 X T2	54.8	149.0	0.5	0.0	1.0	59.5	60.5	1.5	15.2	7.70	5.78
3	WL18-x-x-4 X T3	47.9	170.7	0.5	0.0	2.0	60.5	62.7	2.0	16.2	7.55	5.38
19	CML-327 X T1	39.8	157.2	0.5	3.2	1.5	53.5	55.2	1.5	13.5	5.18	3.88
21	WL28- ^s - ^s -2 X CML-427	51.6	176.4	0.5	0.0	1.5	57.5	57.6	0.0	14.8	5.23	3.85
18	CML-425 X T2	48.9	157.5	0.6	0.0	0.0	59.5	59.5	0.5	14.3	5.08	3.78
8	WL8- ^s - ^s -1 X T3	43.3	134.3	0.6	0.0	2.0	58.5	58.4	0.0	14.6	4.50	3.08
22	WL18- ^s - ^s -6 X CML-427	50.5	156.1	0.6	0.0	1.0	56.0	58.1	2.0	14.3	4.20	3.03
	MEAN	48.04	166.26	0.57	0.56	1.33	57.71	59.13	1.42	15.03	9.09	6.64
	LSD	NS	23.01	NS	NS	NS	4.04	3.98	NS	1.93	2.01	1.06
	CV	13.78	6.56	6.59	379.26	50.87	3.32	3.19	70.55	6.09	25.98	24.16
	FBIG	0.00	1.00	0.00	0.00	0.00	5.00	1.00	0.00	5.00	5.00	5.00
	REFF	0.99	1.37	1.54	0.87	0.84	0.97	1.13	1.00	1.06	1.16	1.22

Table 77: Performance of F1 progenies of waterlogging tolerance lines (LxT) under excessive moisture conditions (One location).

ENT	Pedigree	Nodes															
		Chlorophyll (SPAD unit)	Plant height (cm)	Ear placement	Loadg ing (%)	with brace roots	50% anthesis	50% silking	ASI	Ears per plant	% mortality	Ear length (cm)	Ear girth (cm)	Cob weight (t/ha)	Grain yield (t/ha)	Visual score (1-3)	% yield loss to normal
5	WL36-*-*4 X T4	54.5	166.6	0.6	0.0	1.5	56.1	58.8	2.5	0.9	3.4	16.8	15.8	7.57	5.61	1.0	43.0
4	CML-425 X T4	51.6	165.5	0.5	0.0	2.0	53.7	55.2	1.5	1.1	0.0	16.7	14.1	6.90	5.06	1.0	31.8
7	CML-427 X T4	55.5	166.6	0.6	0.0	1.5	54.8	56.5	1.5	1.1	5.8	14.3	13.8	7.07	5.06	1.5	39.6
11	CML-327 X T4	54.2	166.0	0.5	0.0	0.5	58.4	60.2	2.0	0.9	20.7	18.0	14.3	7.14	4.91	2.0	37.3
18	CML-425 X T2	53.8	164.7	0.6	11.8	2.5	52.3	53.3	1.0	1.1	8.8	16.1	13.2	6.49	4.84	1.5	17.8
12	WL36-*-*4 X T3	52.3	165.4	0.5	0.0	1.6	53.0	54.6	1.5	1.3	39.5	16.4	14.3	6.37	4.74	1.0	22.0
23	CML-311 X CML-327	58.4	165.4	0.6	0.0	1.1	56.0	57.1	1.0	1.2	12.5	17.0	14.0	6.62	4.84	2.0	45.1
13	CA14707 X T4	49.4	166.0	0.5	6.1	2.0	55.0	55.3	0.5	1.0	6.1	14.7	13.5	6.13	4.62	1.5	51.1
2	CML-427xT3	53.3	166.5	0.6	0.0	2.5	57.3	58.8	1.5	1.4	3.4	15.3	13.5	4.64	4.29	1.0	40.6
17	CML-429 X T1	50.3	166.0	0.5	15.7	3.0	54.2	53.9	0.0	1.2	7.3	15.1	14.9	6.12	4.24	1.5	43.7
3	WL18-*-*4 X T3	52.9	166.0	0.6	3.2	3.0	55.8	58.2	2.5	1.1	7.7	17.1	14.3	6.20	4.14	2.5	23.0
10	WL28-*-*2 XT3	51.4	166.0	0.5	0.0	1.0	54.1	55.0	1.0	1.2	13.8	14.9	14.1	5.43	4.11	1.0	43.1
9	CML-311 X T3	46.4	183.2	0.6	11.9	2.5	56.6	58.0	1.0	1.1	16.1	18.1	15.2	5.88	3.96	2.5	50.8
1	CML-429xT3	45.2	166.0	0.7	6.3	2.5	56.8	58.7	2.0	0.9	6.5	15.5	14.8	6.35	3.94	1.5	43.7
21	WL28-*-*2 X CML-427	48.3	166.0	0.5	8.3	3.0	51.6	52.5	1.0	0.9	8.3	18.4	12.6	5.03	3.86	1.0	22.6
14	WL36-*-*4 X T2	49.5	166.6	0.5	0.0	2.0	55.1	56.3	1.0	1.0	9.1	16.7	15.7	5.02	3.76	2.0	34.9
19	CML-327 X T1	53.8	166.0	0.5	20.3	2.9	53.7	55.1	1.5	1.2	23.1	15.1	13.8	4.92	3.74	1.5	3.5
16	CML-429 X T2	48.3	166.0	0.5	3.2	1.5	54.9	55.4	0.5	1.1	11.5	14.3	14.9	5.46	3.84	1.5	51.0
20	CML-427 X T1	50.9	166.0	0.4	3.6	2.5	52.0	54.3	2.5	1.3	12.2	16.9	13.8	4.63	3.48	1.5	57.0
8	WL8-*-*1 X T3	48.6	166.5	0.4	11.8	3.0	54.5	56.1	1.5	1.2	16.7	15.3	13.3	4.41	3.42	1.5	34.6
15	CML-427 X T1	46.1	166.0	0.5	0.0	1.5	54.0	54.3	0.5	1.2	4.6	14.4	13.4	4.33	3.32	2.5	48.7
6	CML-429 X T4	53.9	166.0	0.5	0.0	1.5	54.6	57.6	3.0	1.1	0.0	15.1	14.2	6.52	3.13	1.0	58.4
24	PRO-311 (CHECK)	58.9	166.6	0.6	13.8	1.5	56.8	57.5	0.5	1.1	13.8	18.8	16.2	5.13	3.03	1.5	25.8
22	WL18-*-*6 X CML-427	53.3	166.0	0.5	16.3	1.5	54.0	54.8	1.0	1.5	33.8	18.0	13.8	2.98	2.33	2.5	23.0
MEAN		51.68	166.73	0.51	5.49	2.00	54.79	56.15	1.35	1.13	11.84	16.20	14.22	5.81	4.15	1.58	37.2
LSD		NS	NS	NS	NS	NS	2.75	3.12	0.09	NS	14.89	NS	1.55	1.84	1.44	NS	
CV		11.11	2.91	12.45	116.4	47.00	2.38	3.30	77.28	13.34	59.59	9.28	5.15	15.02	16.48	38.57	
FSIG		0.00	0.00	0.00	0.00	0.00	5.00	5.00	5.00	0.00	1.00	0.00	5.00	1.00	5.00	0.00	
REFF		0.84	1.06	0.93	0.87	1.03	1.54	1.31	0.95	1.06	1.00	0.77	1.09	1.26	1.31	0.96	

ENTOMOLOGY

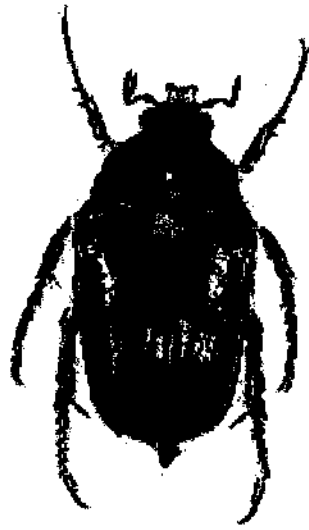


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Screening of germplasm for resistance against *Chilo partellus*

A total of 89 lines of maize germplasm and 32 lines of Quality Protein Maize were screened for resistance against maize stalk borer, *Chilo partellus* (Swinhoe) at Delhi, Udiapur, Ludhiana and Kolhapur by artificially inoculating the plants by black headed stage eggs. Out of 89 lines, 48 lines were evaluated for first year and 41 lines for the second year. The plants were rated on 1-9 scales and categorized as resistant (0-3); moderately resistance (3.1-6.0) and susceptible (6.1-9).

Table: 1 Summary of germplasm evaluation against *C. partellus* in each maturity group.

	Early Maturity		Medium Maturity		Full Season Maturity		QPM-1	QPM-2
	1 st Year	2 nd Year	1 st Year	2 nd Year	1 st Year	2 nd Year		
Total Entry	26	17	11	14	11	10	20	13
Delhi								
Resistant	8	3	-	-	-	-	-	-
Moderately Resistant	17	14	9	13	8	10	10	7
Susceptible	1	-	2	1	3	-	10	5
Udiapur								
Resistant	-	-	-	-	-	-	-	-
Moderately Resistant	6	4	4	8	4	2	-	-
Susceptible	20	13	7	6	7	8	-	-
Ludhiana								
Resistant	1	1	2	1	1	-	12	11
Moderately Resistant	20	10	9	11	9	9	8	2
Susceptible	5	6	-	1	1	-	-	-
Kolhapur								
Resistant	-	-	-	-	-	-	-	-
Moderately Resistant	-	-	7	13	11	7	-	-
Susceptible	-	-	4	1	-	2	-	-

Table 2: Resistant lines observed during screening under artificial infestation

	Delhi	Ludhiana
Early Maturity	PMZ-138 MCH-6 HKH-1176 BVM-5 BVM-6 X-1182 D X-2097 DEH-10303 JKM-204-1 AH-23021	AH-01411
Medium Maturity	-	HKH-1203 BH-3443 PMZ-136
Full Season Maturity	-	MH-01-1

- AET for 2nd year
- AET for 1st year

Twenty lines in QPM-1 and 13 in QPM-2 trials were screened at Delhi and Ludhiana by artificially infesting the plants. Ten lines in QPM-1 and seven lines QPM-2 were observed to be moderately resistant at Delhi where as 12 lines in QPM-1 and 11 lines in QPM-2 trials were found resistant at Ludhiana.

Table 3: Screening of maize germplasm (Trial No. 75, Early Maturity) to *C. partellus* during Kharif, 2004

S. No.	Pedigree	Mean Leaf injury score per plant*			
		Delhi (A)	Udaipur (A)	Ludhiana (A)	Karnal (N)
AET 1 ST YEAR EARLY MATURITY					
1.	FH-3259	3.4	6.4	6.8	5.5
2.	JH-31005	4.0	6.1	4.8	0.5
3.	JH-31036	4.2	6.9	5.4	5.0
4.	JH-3964	4.5	7.0	5.7	1.0
5.	HKH-1176	2.8	6.5	6.4	-
6.	AH-24007	5.2	6.2	5.7	-
7.	AH-01411	4.1	6.0	2.9	1.0
8.	R-03/702	3.3	7.5	3.9	-
9.	BVM-5	1.8	7.2	5.1	-
10.	BVM-6	2.1	7.7	7.4	0.5
11.	X-1182 D	2.2	7.1	5.1	2.5
12.	X-1182 K	3.3	5.5	6.6	0.5
13.	JKM-1701	4.3	6.8	5.1	0.5
14.	X-2097	3.0	4.9	7.7	0.5

AET 1st YEAR (EXTRA EARLY MATURITY)					
15.	DEH-10103	4.3	6.3	4.2	7.5
16.	DEH-10303	2.9	6.6	3.1	0.5
17.	DEH-10503	4.6	6.7	4.2	0.5
18.	DEH-11303	4.3	7.3	5.5	3.0
19.	FH-3211	3.1	6.3	3.6	7.3
20.	BVM-7	6.6	5.7	4.0	4.0
21.	JKMH-204-1	2.2	7.1	5.8	-
22.	HKH-1183	3.6	6.2	5.1	1.0
23.	AH-23021	2.3	5.8	5.1	3.8
24.	AH-23025	4.4	4.8	6.0	4.0
25.	AH-23035	3.4	6.4	3.5	0.5
26.	AH-23039	3.4	6.7	4.2	-
AET 2 nd YEAR (EARLY MATURITY)					
27.	JH-3851	3.2	5.6	5.9	1.5
28.	BH-2862	3.8	5.4	5.4	8.0
29.	PMZ-135	4.9	7.6	5.4	2.3
30.	PMZ-138	1.3	7.8	6.5	0.5
31.	MCH-5	4.0	6.4	5.6	-
32.	MCH-6	3.0	7.9	3.8	3.5
33.	JKMH-810	5.0	7.3	6.3	-
34.	X-2182	4.0	7.3	5.9	0.5
AET 2 nd YEAR (EXTRA EARLY MATURITY)					
35.	FH-3210	4.0	7.8	6.4	-
CHECKS					
36.	KIRAN	4.9	7.6	6.1	4.5
37.	MAHI KANCHAN	3.3	6.7	3.9	0.5
38.	X-3342	3.5	6.8	2.4	2.5
39.	PARKASH	4.0	5.1	5.4	0.5
40.	HIM-129	3.2	5.1	7.4	-
41.	SURYA	3.6	6.6	7.2	7.5
42.	CM-500	2.4	7.3	4.1	-
43.	LOCAL	3.2	6.2	4.8	5.0

* Mean Leaf Injury rating on 1-9 scale

A- Artificial Infestation

N- Natural Infestation

Table: 4 Screening of maize germplasm (Trial No. 76, Medium Maturity) to *C. partellus* during Kharif, 2004

S. No.	Pedigree	Mean Leaf injury score per plant*				
		Delhi (A)	Udaipur (A)	Ludhiana (A)	Karnal (N)	Kolhapur (A)
AET 1st YEAR (MEDIUM MATURITY)						
1.	BH-3443	5.7	6.0	2.0	2.0	6.3
2.	L-134	5.1	5.6	5.4	2.8	5.1
3.	EH-30969	6.0	5.8	3.7	3.5	6.1
4.	EH-31079	5.4	7.1	4.2	0.5	5.0
5.	HKH-1200	5.0	5.8	3.8	1.8	5.0
6.	AH-017045	3.2	6.1	3.8	3.0	5.3
7.	AH-23071	6.5	6.4	3.6	1.5	5.7
8.	AH-24008	5.6	6.1	3.1	0.5	5.6
9.	PMZ-136	5.6	6.3	2.3	1.3	6.8
10.	BIO-22069	6.5	6.8	4.4	0.5	6.9
11.	X-2005	3.9	7.0	5.2	-	4.9
AET 2nd YEAR (MEDIUM MATURITY)						
12.	EC-3121	6.9	6.9	4.7	4.5	4.8
13.	BH-2359	5.7	4.7	4.8	1.0	5.6
14.	HKH-1203	5.6	5.2	3.0	1.0	5.0
15.	HKH-1208	5.0	7.1	4.2	5.3	6.0
16.	JKMH-1001	5.2	7.0	4.6	-	5.5
17.	SEEDTEC-1081	4.5	4.8	6.3	0.5	5.1
18.	PMZ-131	5.0	6.6	4.5	5.6	5.9
19.	PMZ-237	5.3	5.2	4.3	1.0	4.1
20.	NECH-120	4.2	5.3	3.3	0.5	6.6
21.	X-26	5.7	7.5	3.9	4.0	4.8
CHECKS						
22.	NAVJOT	5.3	5.6	4.8	0.5	5.1
23.	KH 510	5.4	6.5	5.5	-	5.2
24.	CM-500	6.0	7.5	4.6	3.0	5.6
25.	Local	5.7	5.8	-	2.0	4.1

* Mean Leaf Injury rating on i-9 scale

A- Artificial Infestation

N- Natural Infestation

Table 5: Screening of maize germplasm (Trial No. 77, Full Season Maturity) to *C. partellus* during Kharif, 2004

S. No.	Pedigree	Mean Leaf injury score per plant*				
		Delhi (A)	Udaipur (A)	Ludhiana (A)	Karnal (N)	Kolhapur (A)
AET 1st YEAR (FULL SEASON MATURITY)						
1.	JH-10655	4.7	4.8	6.1	2.6	5.0
2.	JC 1441 C3 FS	6.1	5.6	3.6	3.7	4.8
3.	BH-3301	4.3	5.9	4.2	0.8	5.5
4.	BH-3313	4.6	6.5	4.9	-	3.8
5.	BH-3315	4.8	7.1	4.8	0.7	5.2
6.	BH-3316	5.4	6.1	4.3	0.5	5.7
7.	MH-01-1	4.0	6.5	2.4	-	4.2
8.	MH-01-2	6.5	5.1	5.3	1.0	4.5
9.	MH-01-3	5.0	8.1	3.6	1.5	5.9
10.	MH-01-4	4.4	7.4	5.1	1.0	4.7
11.	PMZ-235	4.4	6.9	4.9	3.9	5.7
AET 2nd YEAR (FULL SEASON MATURITY)						
12.	ROBUST	3.5	6.7	3.0	1.2	5.8
13.	NECH-117	5.1	7.3	5.9	-	5.2
14.	MCH-1	5.8	6.9	5.0	1.0	6.1
15.	MCH-2	4.8	6.5	5.2	1.0	6.0
CHECKS						
16.	PARBHAT	4.3	6.2	3.2	2.3	5.2
17.	BIO-9681	4.5	6.1	3.5	5.6	5.8
18.	PRO-311	4.1	5.1	4.4	6.5	4.0
19.	SEEDTEC-2324	4.0	5.3	3.9	0.5	4.2
20.	CM-500	4.1	6.2	3.6	0.5	5.1
21.	LOCAL (SUSCEPTIBLE CHECK)	5.5	7.2	-	-	-

* Mean Leaf Injury rating on 1-9 scale

A- Artificial Infestation

N- Natural Infestation

Table: 6 Screening of Quality Protein Maize germplasm (Trial QPM-1) to *C. partellus* during Kharif, 2004

S. No.	Pedigree	Mean Leaf injury score per plant*	
		Delhi (A)	Ludhiana (A)
1.	D QPMC-3 (Y)	9.0	2.8
2.	D QPMC-4 (W)	9.0	2.8
3.	BVM-8	6.5	2.4
4.	BQPMH-41	7.1	2.8
5.	BQPMH-43	7.0	3.6

6.	BQPMH-46	4.0	4.8
7.	BQPMH-50	5.5	4.3
8.	BQPMH-51	5.3	2.6
9.	BQPMH-52	9.0	2.5
10.	BQPMH-53	7.5	2.9
11.	BAJQPM-5	6.4	3.6
12.	HQPM-4	4.5	4.1
13.	HQPM-5	5.8	4.1
14.	DMRQPM-17-⊗-⊗ X DMRQPM-58-⊗-⊗	6.0	2.1
15.	DMRQPM-17-⊗-⊗ X DMRQPM-03-101	4.0	2.1
16.	DMRQPM-17-⊗-⊗ X DMRQPM-03-106	5.3	3.0
17.	DMRQPM-75-⊗-⊗ X DMRQPM-17-⊗-⊗	4.5	2.5
CHECKS:			
18.	SHAKTIMAN-1	6.0	5.2
19.	PRO-311	6.6	4.5
20.	SHAKTI-1	6.3	2.9

* Mean Leaf Injury rating on 1-9 scale

A- Artificial Infestation

Table: 7 Screening of Quality Protein Maize germplasm (Trial QPM-2) to *C. partellus* during Kharif, 2004

S. No.	Pedigree	Mean Leaf injury score per plant*	
		Delhi (A)	Ludhiana (A)
1.	HQPM-1	6.3	3.2
2.	HQPM-2	6.8	2.5
3.	HQPM-3	4.0	2.4
4.	B-QPM-31	-	3.0
5.	B-QPM-32	5.8	2.4
6.	B-QPM-33	4.0	2.8
7.	JH QPM-41	5.0	2.0
8.	JH QPM-83	7.0	2.0
9.	JH QPM-155	6.5	2.3
10.	JH WX-29	5.8	2.4
CHECKS:			
11.	SHAKTIMAN-1	8.3	3.6
12.	PRO-311	4.4	2.3
13.	SHAKTI-1	5.0	2.4

* Mean Leaf Injury rating on 1-9 scale

A- Artificial Infestation

531 lines which have been screened for *Sesamia inferens* at Hyderabad were selfed for attainment of homogeneity at Delhi centre during kharif 2004. Four lines which have been screened four times against *S. inferens* at Hyderabad were screened against *C. partellus* and sibbed for recombining the resistance.

Table:8 Screening of inbred trial of maize germplasm against *C. partellus* at Udaipur

Entry No.	Pedigree	Rating
1.	EI-579	5.6
2.	EI-580	5.4
3.	EI-581	6.1
4.	EI-582	5.9
5.	EI-583	8.1
6.	EI-584	7.3
7.	EI-585	7.6
8.	EI-586	5.8
9.	EI-587	4.7
10.	EI-588	4.5
11.	EI-589	6.0
12.	EI-590	4.8
13.	EI-591	6.8
14.	EI-592	6.6
15.	EI-593	8.3
16.	EI-594	5.8
17.	EI-595	6.0
18.	EI-596	4.7
19.	EI-597	5.1
20.	EI-598	5.5
21.	EI-599	5.6
22.	EI -600	6.8
23.	EI-601	5.7
24.	EI-602	7.0
25.	EI-603	7.5
26.	EI-604	5.7
27.	EI-605	7.4
28.	EI-606	5.3
29.	EI -607	6.9
30.	EI-578	8.9
31.	EI-576	7.5
32.	EI-574	5.5
33.	EI-571	8.6
34.	EI570	7.1
35.	EI-569	8.1
36.	EI-608	7.9
37.	EI-609	6.8

38.	EI -610	4.4
39.	EI-611	8.0
40.	EI-612	7.2
41.	EI-613	7.4
42.	EI-614	6.6
43.	EI -615	6.5
44.	EI-617	9.0
45.	EI-618	8.1
46.	EI -619	7.1
47.	EI-621	5.0
48.	EI-622	6.6
49.	EI-616	8.8
50.	EI-478	8.4
51.	EI-528	7.7
52.	EI-481	7.0
53.	EI-535	6.5
54.	EI-496	7.6
55.	EI-495	6.6
56.	EI-532	7.2
57.	EI-497	9.0
58.	EI-477	8.1
59.	EI-518	7.5
60.	EI-460	7.5
61.	EI -623	7.7
62.	EI-624	6.5
63.	EI-466	6.9
64.	EI-470	7.1
65.	EI -4 71	7.6
66.	EI -472	5.4
67.	EH-30624	8.9
68.	EH-30969	5.8
69.	EH-1389	8.1
70.	EH-3146	7.5
71.	EC-3151	5.7
72.	EC-3144	5.9
73.	ECF-3135	6.3
74.	EC-3121	6.7
75.	EC-3150	4.9
76.	Navjot	5.4
77.	CM -400	6.0
78.	CM-500	7.7

79.	CM-137	7.3
80.	CM -600	8.3
81.	Mahi Kanchan	6.0
82.	PEHM-1	5.5
83.	Kiran	7.3
84.	ECF-3138	6.2

Different doses of Cruiser 70 WS as seed treatment was tested and compared with Chlorpyrifos and Imidacloprid for the management of termite at Udaipur. Chlorpyrifos @ 4 ml/kg seed gave maximum control followed by Imidacloprid. 3.5 g/kg seed and Cruiser @ 2 g/kg seed at Udaipur.

Table: 9 Evaluation of Crusier 70 WS against termite infesting maize at Udaipur during Kharif 2004

S. No.	Treatments	Percent plant Infested on number Basis
1	Crusier 70 WS @ 0.5 g/kg seed	29.76 (24.65) ^d
2.	Crusier 70 WS @ 1.0 g/kg seed	28.30 (22.49) ^d
3.	Crusier 70 WS @ 1.5 g/kg seed	24.86 (17.68) ^c
4.	Crusier 70 WS @ 2.0 g/kg seed	24.07 (16.64) ^{bc}
5.	Crusier 70 WS @ 4.0 g/kg seed	22.77 (15.00) ^{bc}
6.	Chloropyrifos @ 4 ml/kg seed	18.64 (10.22) ^a
7.	Imidacloprid @ 3.5 g/kg seed	21.67 (13.64) ^b
8.	Control (Untreated)	37.47 (37.02) ^c
	SEM±	0.935
	CD at 5%	2.836

The damage caused by Phadka grasshopper in Rajasthan was on increase. One spray of Carbarl at 20 DAG and two sprays of Neem at 30 and 40 DAG gave best results for the control of this pest.

Table: 10 Chemical Control of Phadka Grasshopper Infesting maize at Udaipur during Kharif 2004

S. No.	Treatment	% of plants showing foliar symptoms
1.	At 20 DAG Carbaryl both on Crops as well as on bunds	45.16 (50.30)
2.	At 30 DAG Anti feedant spray (Neem)	52.73 (63.39)
3.	1 & 2	38.93 (39.50)
4.	At 40 DAG Anti feedant spray (Neem)	63.91 (80.66)

5.	3&4	31.06 (26.33)
6.	At 20 DAG Anti feedant on Crop & Carbaryl on bunds	47.309(54.32)
7.	Control	68.16
	SEM±	1.953
	CD 5%	5.923

Best results were shown by spraying Decis @ 400 ml at 7 DAG and one release of *Trichogramma* at 14 DAG. However when the Decis was replaced by one release of *Trichogramma* the results were not much different from the best and at the same time we had pesticide free crop.

Table: 11 Testing of different *C. partellus* management options in maize at Udaipur

S. No.	Treatment	% Plants showing death hearts formation (%)
1.	Decis 400 ml at 7 & 14 DAG	31.62 (27.50) ^{ab}
2.	Decis 400 ml at 7 DAG + Achook 2.0 lit/ha at 14 DAG	32.17 ^a (28.35)
3.	Achook 2.0 lit/ha at 7 & 14 DAG	37.16 (36.48) ^b
4.	Trichogramma release at 1.5 lakh/ha at 7 & 14 DAG	38.58 (38.90) ^{bc}
5.	Decis 400 ml at 7 DAG + Trichogramma 1.5 Lakh/ha at 14 DAG	28.73 (23.11) ^a
6.	Endosulfan (standard check) 1.5 lit/ha at 7 & 14 DAG	30.20 (25.30) ^a
7.	Control (spray of water) at 7 & 14 DAG	40.28 (41.80) ^c
	SEM±	2.41
	CD at 5 %	7.30

Study on the biotypes of *C. partellus* was initiated in Punjab. The larvae from 4 locations in 15 districts of Punjab were collected with a view to determine if they showed differences in their severity. The cultures of these populations were maintained separately and variety JH 3459 was infested at the vulnerable stage of the plant. The leaf injury rating range from 2.05 to 6.25 on 1-9 scale which showed that severity in the population vary significantly. They have been grouped into two categories as severe and less severe populations.

Table: 12 Screening of biotypes of *C. partellus* against JH 3459 at PAU, Ludhiana

S.No.	Populations from	LIR	
1.	Kohara (Ludhiana)	2.05	a
2.	Hamedi (Kapurthala)	2.10	
3.	Bidhipur (Gurdaspur)	2.10	
4.	Baba bukala (Amritsar)	2.15	b
5.	Manawala (Amritsar)	2.20	c
6.	Sayian Khurd (Ludhiana)	2.20	
7.	Karyam (Nawanshar)	2.25	d
8.	Tangra (Amritsar)	2.25	
9.	Ghumrounda (Patiala)	2.25	
10.	Baura Jail Farm (Patiala)	2.30	
11.	Hargorindwala (Gurdaspur)	2.35	e
12.	Mehli (Nawanshar)	2.40	
13.	Fatehgarh (Fatehgarh)	2.40	
14.	Batala (Gurdaspur)	2.40	
15.	Saini Majra (Fatehgarh)	2.40	f
16.	Madyala (Hoshiarpur)	2.45	
17.	Hamedi (Kapurthala)	2.45	g
18.	Pange bahri (Hoshiarpur)	2.60	
19.	Goraya (Jalandhar)	2.75	
20.	Chakdana (Nawanshar)	2.80	
21.	Chandpurana (Moga)	2.80	
22.	Laltan Khurd (Ludhiana)	2.80	
23.	Kharuda (Fatehgarh)	2.85	
24.	Narangural (Ludhiana)	2.85	
25.	Chakriwala (Hoshiarpur)	2.95	h
26.	Singhawala (Moga)	2.95	
27.	Ajitwal (Moga)	3.20	
28.	Tapa (Bathinda)	3.35	
29.	Gohawar (Jalandhar)	3.45	
30.	Sahyada (Ludhiana)	3.45	
31.	Kotkupura (Faridkot)	3.50	
32.	Subhanpur (Kapurthala)	3.75	
33.	Nawan churchak (Moga)	3.80	
34.	Daumna Farm (Ropar)	3.80	
35.	Pipal Majra (Ropar)	3.80	
36.	Hardarpur (Patiala)	3.85	
37.	Sherpur (Ropar)	4.00	
38.	Panjgarian (Faridkot)	4.10	
39.	Hazara (Jalandhar)	4.35	
40.	Khurda (Nawanshar)	4.55	
41.	Rampura Phul (Bathinda)	4.55	
42.	Mehta (Bathinda)	5.45	i
43.	General Mat (PAU, Ludhiana)	5.70	j
44.	Handyaya (Sangrur)	6.25	k

CD= 1.62 at 0.05 probability

Table: 13 Biotypes (Showing LIR < 3 on 1-9 scale) Less severe populations

S. No.	Biotypes	Leaf Injury Rating (<3)
1.	Kohara (Ludhiana)	2.05
2.	Harnedi (Kapurthala)	2.10
3.	Bidhipur (Gurdaspur)	2.10
4.	Baba bukala (Amritsar)	2.15
5.	Manawala (Amritsar)	2.20
6.	Sayian Khurd (Ludhiana)	2.20
7.	Karyam (Nawanshar)	2.25
8.	Tangra (Amritsar)	2.25
9.	Ghumrounda (Patiala)	2.25
10.	Baura Jail Farm (Patiala)	2.30
11.	Hargorindwala (Gurdaspur)	2.35
12.	Mehli (Nawanshar)	2.40
13.	Fatehgarh (Fatehgarh)	2.40
14.	Batala (Gurdaspur)	2.40
15.	Saini Majra (Fatehgarh)	2.40
16.	Madyala (Hoshiarpur)	2.45
17.	Harnedi (Kapurthala)	2.45
18.	Pange bahri (Hoshiarpur)	2.60
19.	Goraya (Jalandhar)	2.75
20.	Chakdana (Nawanshar)	2.80
21.	Chandpurana (Moga)	2.80
22.	Laltan Khurd (Ludhiana)	2.80
23.	Kharuda (Fatehgarh)	2.85
24.	Narangural (Ludhiana)	2.85
25.	Chakriwala (Hoshiarpur)	2.95
26.	Singhawala (Moga)	2.95

Table: 14 Biotypes (Showing LIR > 3 on 1-9 scale) Severe populations

S. No.	Biotypes	Leaf Injury Rating (>3)
1.	Ajitwal (Moga)	3.20
2.	Tapa (Bathinda)	3.35
3.	Gohawar (Jalandhar)	3.45
4.	Sahyada (Ludhiana)	3.45
5.	Kotkupura (Faridkot)	3.50
6.	Subhanpur (Kapurthala)	3.75
7.	Nawan churchak (Moga)	3.80
8.	Daamna Farm (Ropar)	3.80
9.	Pipal Majra (Ropar)	3.80
10.	Hardarpur (Patiala)	3.85
11.	Sherpur (Ropar)	4.00
12.	Panjgarian (Faridkot)	4.10

13.	Hazara (Jalandhar)	4.35
14.	Khurda (Nawanshar)	4.55
15.	Rampura Phul (Bathinda)	4.55
16.	Mehta (Bathinda)	5.45
17.	General Mat (PAU, Ludhiana)	5.70
18.	Handyaya (Sangrur)	6.25*

* Most severe

Table: 15 Evaluation of Late Yellow (LY) maize varieties for their reaction to *C. partellus*, during Kharif 2004, Ludhiana

S. No.	Pedigree	Mean Leaf Injury Rating (1-9 Scale)
1.	LY-L-30-2-2-3-1-2-1-1	2.2
2.	LY-L-30-2-2-3-1-2-1-2	2.1
3.	LY-L-30-2-2-4-1-1-3-1	2.0
4.	LY-L-30-2-2-4-1-1-1-1	2.2
5.	LY-L-30-2-2-4-1-1-2-1	2.3
6.	LY-L-30-2-2-4-1-1-3-1	2.7
7.	CML-300	2.6
8.	CML-500	6.6
9.	LY-L-30-2-2-4-1-2-1-2	2.0
10.	LY-L-30-2-5-2-2-1-2-1	3.5
11.	LY-L-30-2-5-2-2-1-3-1	3.5
12.	LY-L-30-2-5-2-2-2-1-1	2.5
13.	LY-L-30-2-5-2-2-2-2-1	2.0
14.	LY-L-30-2-5-4-1-2-1-1	2.0
15.	LY-L-30-2-5-4-1-1-1-1	2.0
16.	LY-L-30-2-5-4-1-1-2-1	2.0
17.	LY-L-30-2-2-3-2-1-1-1	2.0
18.	LY-L-38-2-1-2-2-2-1-1	3.3
19.	LY-L-38-2-1-2-2-2-3-1	2.5

Table: 16 Evaluation of Early Yellow (LY) maize varieties for their reaction to *C. partellus* during Kharif 2004, Ludhiana

S. No.	Pedigree	Mean Leaf Injury Rating (1-9 Scale)
1.	EY-D2-8-1-3-3-2-2-1	6.4
2.	EY-D2-8-1-3-3-2-2-2	4.1
3.	EY-D2-12-1-2-5-2-1-1	3.8
4.	EY-D2-12-1-2-5-2-1-2	2.5
5.	EY-D2-12-1-2-5-2-2-1	3.3
6.	EY-D2-12-1-2-5-2-2-2	4.0
7.	EY-D2-12-1-2-6-4-1-1	4.4
8.	EY-D2-12-1-2-6-4-1-2	5.0
9.	EY-D2-12-1-2-6-4-2-1	5.7
10.	EY-D2-12-1-2-6-4-2-2	6.4
11.	EY-D2-12-1-3-2-3-1-1	3.7
12.	EY-D2-12-1-3-2-3-1-2	4.9
13.	EY-D2-12-1-3-2-3-2-1	4.1
14.	EY-D2-12-1-3-2-3-2-2	9.0
15.	EY-D1-16-3-2-7-3-2-1	4.7
16.	EY-D1-16-3-2-7-3-2-2	2.1
17.	EY-D1-16-3-4-1-1-1-1	4.5
18.	EY-D1-16-3-4-1-1-1-2	5.2
19.	EY-D-16-3-4-2-2-2-1	3.8
20.	EY-D-16-3-4-2-2-3-1	3.1
21.	CM-300	2.5
22.	CM-500	3.2
23.	EY-D-16-3-4-2-2-3-2	2.2
24.	EY-D-16-3-4-2-2-4-1	6.2
25.	EY-D-16-3-4-2-2-4-2	2.0

Heavy infestation of *C. partellus* has been reported from Karnal (37-61%). Chaffer beetle *Chiloloba acuta* which feed on pollen was reported from Karnal two years back this beetle has also been reported from Karnataka and Belipar of Gorakhpur district by the monitoring teams.

Table: 17 Maize Insect Pest Trap Nursery Kharif-2004 (Kolhapur)

S. No.	Inbred lines	Stemborer, <i>C. partellus</i> (% infested plants)			Grasshopper (% infested plants)	<i>Spodoptera</i> (No. of larvae/plant)	<i>Myllocerus</i> Weevil (No. of adults/10 Plants)	Aphids (% plant infested)	Lady bird beetles (No. of adults/plant)		
		1*	2*	3*							
1.	CM-105	7	08	08	10	25	2	3	2	2	
2.	CM-111	10	10	10	13	23	-	-	-	-	
3.	CM-115	19	19	19	12	21	02	02	10	04	
4.	CM-116	10	10	10	10	15	-	04	07	02	
5.	CM-125	12	12	12	12	18	4	03	05	01	
6.	CM-126	20	20	20	16	25	3	02	-	-	
7.	CM-127	18	18	18	07	20	-	-	18	03	
8.	CM-128	04	05	05	-	-	-	03	15	02	
9.	CM-129	09	09	10	11	19	-	-	-	-	
10.	CM-132	06	06	06	15	25	-	02	03	01	
11.	CM-207	05	05	05	05	18	-	02	08	01	
12.	CM-500	02	02	02	-	13	-	-	07	01	
13.	CM-501	12	12	12	18	23	-	02	12	02	
14.	CM-502	08	08	08	09	16	-	02	18	03	
15.	CM-601	11	11	11	15	21	-	-	-	-	
										02	04

1. Date of Sowing : 19-06-2004

2. Date of germination: 25-06-2004

3. Dates of observation

1* 15 days after germination

2* 45 days after germination

3* 80 days after germination

10-07-2004

10-08-2004

15-09-2004

Damage did not increase after 15th days of germination

Table: 18 Monitoring of insect pests and natural enemies on different time of crop in Hyderabad during *Kharif* 2004 (Sweet Corn)

Days after germination	Percent infested plants							No. of predators/ 100 plant		
	Stem borer		Leaf roller	Grass hopper	Shoot Bug	Aphids	Coccinellids	Spiders		
	Infested plants	Dead hearts								
7	15.86	-	1.89	2.10	-	-	0.10	-		
15	17.02	3.15	2.10	1.05	-	-	6.83	0.21		
30	17.02	5.25	6.09	2.31	0.63	-	0.84	0.10		
45	17.02	5.57	-	0.94	-	-	1.26	-		
60	17.02	11.97	-	-	-	-	-	-		
Ear damage	2.10									

Number of green ears harvested 2485
Weight of green ears 480.90 kg

Date of planting: 19th July, 2004
Variety: Win Sweetcorn
Area: 1000 m²

Stem borer - *Chilo partellus*; leaf roller - *Marasmia trapezalis*;
Grass hopper - *Colemania Spp.*; Shoot bug - *Perigrinus maidis*;
Aphids - *Rhopalosiphum maidis*

Table: 19 Monitoring of insect pests and natural enemies on different time of crop in Hyderabad during *Kharif* 2004 (Pop corn)

Days after Germination	Percent infested plants										
	Stem borer		Leaf roller	Grass hopper	Shoot bug	Thrips	Aphids	Spodoptera	Flea beetles	Coccinellids	Spider
	Infested plants	Dead hearts									
7	7.43	-	1.48	3.07	-	2.51	0.33	-	3.43	-	0.83
15	8.03	-	5.75	1.58	-	0.59	-	0.17	-	2.68	-
30	8.32	4.95	3.17	3.96	0.50	-	-	-	-	0.67	0.08
45	8.32	5.85	4.85	0.69	1.17	-	-	-	-	1.09	-
60	8.32	6.74	7.33	1.78	0.16	-	-	-	-	0.42	-
Ear damage	2.18										

Date of planting: 9th July, 2004

Variety: Win Popcorn

Area: 1000 m²

Grain Yield 160.80 kg

Stem borer - *Chilo partellus*; leaf roller - *Marasmia trapezalis*;Grass hopper - *Colemania Spp.*; Shoot bug - *Perigrinus maidis*;Aphids - *Rhopalosiphum maidis*

IPM trials were conducted at Ludhiana, Hyderabad and Udaipur. The farmers obtained higher yield in IPM field as compared to the other farmers. The per cent yield gain was 17.6, 26.0 and 8.8 at Ludhiana, Hyderabad and Udaipur respectively.

Table: 20 Effect of *Trichogramma chilonis* releases on the management of *C. partellus* and maize yield during *Kharif* 2004, Ludhiana

Location	No. of Trails	Acreage	Dead Heart (%)		Yield (q/ha)		% Yield Increase Over Control
			<i>T. chilonis</i>	Control	<i>T. chilonis</i>	Control	
Nawanshahr	17	31.00	2.68	10.42	38.75	32.33	19.85
Gurdaspur	11	20.50	1.38	13.92	34.55	28.17	22.65
Ropar	7	11.00	4.54	12.63	39.30	31.76	23.74
Hoshiarpur	15	28.75	1.20	7.64	33.00	29.37	12.35
Jalandhar	8	11.50	9.46	14.21	30.42	27.80	9.42
Mean			3.85	11.76	35.20	29.88	17.60

Table: 21 IPM validation for stem borers in Hyderabad (Kharif, 2004)

Treatment	Percent infested plants				Harvest/4000 m ²		
	Stem borer	Deadhearts	Leaf Roller	Flowering beetle	Yield (Kg)	Number of ears	
Normal	13.99 (2.23)	11.76	9.63	0.04	1002.30	13610	
Under management	8.65 (0.92)	7.73	5.92	0.06	1262.20	17146	
Increase in yield					25.90%	26.00%	

Date of planting: 19th July, 2004

Variety: Win Sweetcorn

Area: 1000 m²*Trichogramma chilonis* egg parasitoid released @ 8 cards /ha (1.60 lakh parasitoids)1st release : 2nd September, 20042nd release : 13th September, 2004Stem borer *Chilo partellus*Leaf roller *Marasmia trapezalis*Flowering beetle *Chiloloba acuta*

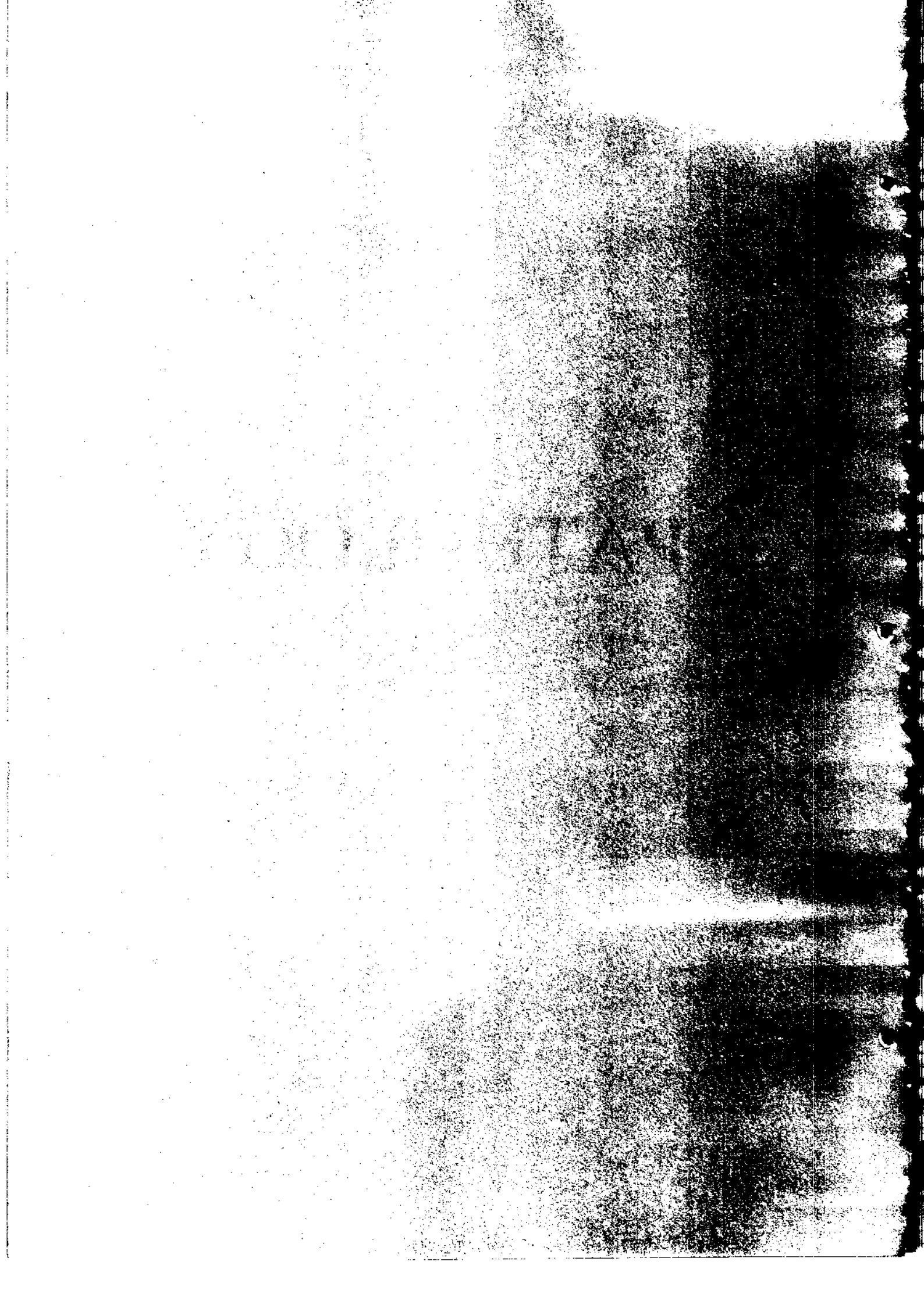
Table: 22 IPM FLD's conducted on farmer's field during kharif 2004 at udaipur centre

S. No.	Farmer's name, address & category	Area	Variety	Date of sowing	Grain Yield in kg.		Remarks
					Improved practices	Farmer's practices	
1.	Sh. Kem Raj Dangi Vill. Chotta Guda, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	7.7.2004	255	227	All plant protection components have been distributed timely and applied as and when required. Monitoring of these FLD's have been done four times. Observations have been recorded diseases like MLB, CLS, BS, BSDM and PFSR have been noticed in traces in farmers practices. Severe lodging was also noticed due to heavy rains and strong winds in Sept-Oct months which caused reduction in yields.
2.	Sh. Gamer Lal Dangi Vill. Bichdi, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	243	228	
3.	Sh. Bheru Lal Dangi Vill. Bichdi, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	305	276	
4.	Sh. Chain Ram Dangi Vill. Bichdi, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	247	221	
5.	Sh. Roop Singh Dewada Vill. Debari, Udaipur (General)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	315	285	
6.	Sh. Ram Lal Dangi Vill. Bhallo-ka-Guda, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	245	224	
7.	Sh. Shankar Lal Dangi Vill. Bhallo-ka-Guda, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	20.7.2004	251	233	
8.	Sh. Poonam Chand Gayri, Vill. Titardi, Udaipur (OBC)	Approx. 1 Bigha	Mahi Dhawal	21.7.2004	210	193	

Following inputs were supplied to each farmer: DAP 12.5 kg, Urea 12 kg, weedicide Atrazin-125 g.

Seeds were treated with insecticides, fungicides, bio-agents as per recommendation in package of practices in improved practices. Phorate granules were also applied at knee high stage of crop in improved practices, in farmer's practices. Farmers adopted their own local practices.

PATHOLOGY



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Table No.1 Evaluation of maize genotypes (IET full-season maturity) against diseases during kharif 2004- Trial No.61A

SL. NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	RAJ
1	JH-10733	1.5	1.0	1.8	2.7	1.5	2.8	2.0	2.0	-	3.0
2	PRO-311 (CHECK)	1.3	1.0	1.8	3.2	1.5	2.8	2.0	2.0	-	2.0
3	AH-31413	1.0	1.5	3.3	3.0	2.0	1.5	3.0	3.0	0.5	1.0
4	HKH-1215	1.3	1.0	2.5	3.8	1.5	2.5	3.0	3.0	-	2.0
5	MH 04-1	1.8	2.0	3.0	2.8	1.5	1.8	2.0	2.0	-	5.0
6	MS POOL C7	1.8	1.0	2.8	2.0	1.5	1.8	2.4	2.4	-	4.0
7	SMH-3303 (Y)	1.0	1.0	1.5	2.6	1.5	1.5	2.6	2.6	1.0	3.0
8	MCH-23	1.0	1.0	2.0	2.7	1.5	1.8	2.3	2.3	2.0	3.0
9	C-302	1.3	3.0	2.8	4.2	1.5	3.5	2.5	2.5	0.5	2.0
10	BIO-31006	1.3	2.0	3.0	4.0	1.5	2.5	2.3	2.3	0.5	1.0
11	NECH-128	1.3	1.0	2.3	3.2	1.5	2.5	2.5	2.5	-	3.0
12	PHS-25 (Y)	1.3	2.0	2.0	2.0	1.5	2.8	2.8	2.8	-	3.0
13	OMZ-140	1.5	1.0	2.5	4.0	1.5	2.5	2.5	2.5	-	3.0
14	MH 04-3	1.5	3.0	3.0	2.9	2.0	3.0	2.4	2.4	-	4.0
	CHECK										
15	BIO-9681	1.8	2.0	2.8	3.8	1.5	2.8	2.8	2.8	-	4.0
16	PARBHAT	1.3	2.0	3.0	2.0	1.5	2.0	2.0	2.0	-	5.0
17	SEEDTEC-2324	1.5	3.0	2.3	2.7	1.5	2.8	2.7	2.7	-	2.0
			2.0	3.3	4.5		1.8	4.0	4.0	2.6	
			Local	Novjot	GM-L186 Local	Paras	HKI-1341	Early comp.			

Table No. 1

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	RAJ	BLSB (1-5) PANT	DEL	BAJ	RAJ
1	JH-10733	2.5	3.0	3.5	1.0	1.5	2.0	2.3	3.5	2.0	2.0
2	PRO-311 (CHECK)	1.5	3.0	3.0	1.5	2.0	2.0	2.5	3.5	1.0	2.0
3	AH-31413	1.3	3.0	3.5	2.5	1.0	1.0	2.5	3.5	-	1.0
4	HKH-1215	1.8	2.0	4.5	2.0	0.5	2.0	2.5	3.5	2.0	1.0
5	MH 04-1	2.0	3.0	3.0	1.5	0.5	4.0	2.5	3.5	1.0	3.0
6	MS POOL C7	3.0	3.6	3.5	1.0	3.5	3.0	2.5	3.0	2.0	2.0
7	SMH-3303 (Y)	1.3	2.0	2.5	1.5	2.0	2.0	2.3	3.5	1.0	3.0
8	MCH-23	1.8	2.1	4.5	2.5	0.5	2.0	2.3	3.0	1.0	3.0
9	C-302	1.6	3.5	2.0	1.0	2.0	2.0	2.3	3.5	3.0	3.0
10	BIO-31006	1.0	3.0	4.0	1.5	0.5	2.0	2.5	3.5	2.0	3.0
11	NECH-128	3.3	4.0	3.5	2.5	3.5	2.0	2.3	3.0	2.0	5.0
12	PHS-25 (Y)	2.8	2.6	2.0	1.0	3.0	3.0	2.3	2.5	1.0	3.0
13	OMZ-140	3.3	2.5	2.0	2.5	2.0	4.0	2.5	3.0	2.5	2.0
14	MH 04-3	2.8	2.0	2.0	1.0	2.0	3.0	2.8	3.5	3.0	5.0
	CHECK										
15	BIO-9681	2.8	2.5	2.5	1.5	2.0	3.0	2.5	4.0	2.0	3.0
16	PARBHAT	3.0	2.9	2.5	2.5	3.0	4.0	2.5	3.5	2.0	2.0
17	SEEDTEC-2324	2.5	3.0	4.5	2.0	2.5	3	2.5	3.5	1.5	3.0
			5.0	6.0	1.5	4.5		3.8		2.5	
		2.0						3.3			
	CM-202			MAI120	CM-500	Early comp.		Beet			
	CI-4							Pragati			Early comp.

Table No.1

SL NO	Pedigree	SDM (%)		BSDM (1-5)		RDM		DM (1-5)		PFSR (1-9)		HYD		UDP
		MAND	COIM	DHAU	PANT	UDP	RAJ	LUD	HYD	Lcheck(W)	Lcheck(Y)			
1	JH-10733	90.3	100.0	1.0	2.0	48.0	2.0	2.7	7.7	7.1				
2	PRO-311 (CHECK)	57.6	75.0	2.0	1.8	8.0	1.0	4.0	7.1	6.2				
3	AH-31413	96.4	100.0	2.0	1.8	88.0	2.0	4.2	7.7	5.8				
4	HKH-1215	83.9	100.0	2.5	1.3	100.0	2.0	4.2	8.1	8.3				
5	MH 04-1	94.4	94.4	3.0	2.0	28.0	1.0	4.1	7.8	5.9				
6	MS POOL C7	94.4	95.4	3.0	2.3	80.0	1.0	2.8	7.9	6.2				
7	SMH-3303 (Y)	100.0	91.9	3.0	2.0	4.0	3.0	4.0	7.9	7.5				
8	MCH-23	100.0	97.2	2.5	1.5	0.0	3.0	3.8	7.9	4.8				
9	C-302	84.4	86.1	1.0	1.8	17.3	3.0	5.4	7.7	3.7				
10	BIO-31006	97.3	83.8	2.5	1.8	9.1	2.0	3.8	7.9	5.1				
11	NECH-128	53.6	73.7	3.0	2.8	4.1	3.0	1.9	7.3	4.8				
12	PHS-25 (Y)	94.3	81.1	3.0	1.5	28.0	2.0	3.8	4.9	4.4				
13	OMZ-140	100.0	100.0	1.0	2.5	0.0	1.0	2.1	8.2	6.8				
14	MH 04-3 CHECK	2.7	100.0	2.0	3.8	0.0	3.0	3.8	4.9	4.1				
15	BIO-9681	47.2	91.1	2.0	1.8	12.0	2.0	4.9	7.9	4.4				
16	PARBHAT	97.1	94.7	3.0	2.5	8.0	2.0	3.2	7.7	5.4				
17	SEEDTEC-2324	78.1	92.9	2.5	1.3	20.0	3.0	6.2	7.1	4.9				
		100.0	100.0	1.2	3.9	9.1	2.0	2.9	8.4	7.2				
					2.4	24.0				6.0				
		CM-500	CM-500	Local	Beeti Pragatti	Lcheck(W) Lcheck(Y)		Paras	CM-600	Lcheck(W) Lcheck(Y)				

Table No.1

SL. NO	Pedigree	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH	P. Rust (1-5) NAG	Brown spot (1-5) RAJ
1	JH-10733	96.7	0.0	2.0	1.0	2.0
2	PRO-311 (CHECK)	7.8	4.7	2.5	1.5	3.0
3	AH-31413	36.8	0.0	2.5	4.5	2.0
4	HKH-1215	14.5	0.0	1.0	1.5	3.0
5	MH 04-1	43.7	0.0	1.0	3.0	3.0
6	MS POOL C7	26.8	0.0	4.5	2.0	2.0
7	SMH-3303 (Y)	8.1	0.0	2.5	2.0	3.0
8	MCH-23	11.6	0.0	1.0	2.5	3.0
9	C-302	29.1	5.5	3.0	1.0	2.0
10	BIO-31006	6.1	0.0	2.0	2.5	2.0
11	NECH-128	6.0	11.1	2.0	1.0	4.0
12	PHS-25 (Y)	22.4	0.0	1.5	2.5	4.0
13	OMZ-140	28.3	5.0	2.5	2.0	3.0
14	MH 04-3 CHECK	21.7	0.0	1.0	1.0	3.0
15	BIO-8881	29.3	7.1	2.0	3.0	3.0
16	PARBHAT	34.7	0.0	3.0	3.5	3.0
17	SEEDTEC-2324	33.3	0.0	1.0	2.0	2.0
		10.3	10.6 2.4	3.8 1.0	3.0	
		Local	Beal Pragati	CM-202 CI-4	MAI 120	

Table No.2 Evaluation of maize genotypes (IET full-season maturity) against diseases during kharif 2004- Trial No.61B

SL. NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	RAJ
1	HKH-1179	2.0	2.0	2.3	2.4	1.5	2.5	2.0	-	2.0
2	JH-10858	1.3	2.0	1.8	2.8	1.5	2.3	1.5	0.5	1.0
3	MH 04-2	1.5	2.0	2.0	3.0	1.5	1.8	2.4	-	2.0
4	AH-31410	1.5	3.0	3.0	4.2	2.0	1.0	2.5	0.5	3.0
5	TUX POOL C7	1.3	1.0	2.8	2.8	1.5	2.3	1.5	0.5	3.0
6	JKMH-51	1.5	3.0	2.8	4.2	1.5	1.5	2.3	-	4.0
7	GK-3050	1.8	2.0	2.8	3.4	1.5	2.8	2.5	-	2.0
8	PARAS JANAK	1.0	3.0	3.8	2.9	2.0	1.5	2.8	-	4.0
9	C-555	1.3	2.5	3.5	3.2	2.0	2.0	2.8	-	5.0
10	BIO-31030	1.3	2.0	2.8	3.0	1.5	2.0	2.3	-	3.0
11	X-2406	1.5	3.0	2.8	2.0	1.5	1.8	2.5	-	3.0
12	NECH-129	1.0	1.0	1.8	2.0	1.5	1.8	1.5	-	2.0
13	KAVARI-244	1.3	2.5	3.5	2.9	2.0	1.5	2.4	-	3.0
14	MCH-24	1.0	2.0	2.8	3.2	1.5	1.3	2.2	0.5	4.0
	CHECKS									
15	PRO-311	1.3	2.0	1.8	2.0	1.5	1.3	2.7	0.5	2.0
16	BIO-9681	1.3	3	2.5	2.9	1.5	3	1.5	-	2.0
17	PARBHAT	1.5	2	2.5	2	2	1.8	2.7	-	3.0
18	SEEDTEC-2324	1.5	1.5	2.3	2.2	1.5	1.5	2.3	-	3.0
			1.1	3.5	4.5		2.3	4.0	2.5	
			Local	Novjot	CML186 Local		Paras	HKI-1341	Early comp.	

Table No.2

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	RAJ	BLSB (1-5) PANT	OEL	BAJ	RAJ
1	HKH-1179	1.8	3.0	3.5	0.0	1.5	2.0	3.5	3.5	2.0	2.0
2	JH-10858	1.3	2.0	4.5	1.0	1.0	1.0	2.5	3.0	2.0	2.0
3	MH 04-2	3.5	1.0	2.0	1.0	3.0	1.0	2.5	3.0	1.0	2.0
4	AH-31410	3.5	3.0	4.0	0.5	3.5	2.0	2.3	3.5	1.0	2.0
5	TUX POOL C7	2.8	2.5	2.0	1.5	2.5	1.0	2.5	4.0	2.0	1.0
6	JKMH-51	2.5	2.5	3.5	1.5	0.5	2.0	2.5	3.0	1.0	2.0
7	GK-3050	1.8	3.0	4.5	2.0	0.5	1.0	2.8	3.5	2.0	2.0
8	PARAS JANAK	3.0	3.0	2.5	2.0	2.0	3.0	2.8	3.0	0.5	2.0
9	C-555	3.0	3.0	4.5	1.5	1.5	4.0	2.5	3.0	1.0	2.0
10	BIO-31030	3.0	2.8	2.5	1.5	0.5	3.0	3.0	3.5	2.0	2.0
11	X-2406	1.8	3.0	3.5	1.5	1.0	3.0	3.0	2.5	1.0	2.0
12	NECH-129	2.5	2.0	3.0	2.0	2.5	3.0	2.5	3.0	1.0	2.0
13	KAVERI-244	1.5	2.0	4.5	2.5	3.0	3.0	2.5	3.0	0.5	3.0
14	MCH-24	1.3	1.0	3.5	1.0	1.0	3.0	2.3	3.0	1.0	2.0
	CHECKS										
15	PRO-311	2.0	3.0	4.5	1.5	3.0	2.0	2.3	3.5	1.0	2.0
16	BIO-9681	1.3	2.0	3.6	1.0	1.0	2.0	2.8	3	2.0	4.0
17	PARBHAT	2.5	4.0	2.0	2.5	0.5	3.0	2.5	3.5	2.0	4.0
18	SEEDTEC-2324	3.0	2.0	4.6	1.0	0.5	2.0	3.2	3.0	2.0	2.0
			5.0	5.0	1.5	4.5		3.8		2.5	
		1.0						3.3			
	CM-202		CM-202	MAI120	CM-500	Early comp.		Basi		Early comp.	
	CH-4		CH-4					Pragati			

Table No.2

SL. NO	Pedigree	SDM (%)		BSDM (1-5)		RDM		DM (1-5)		PFSSR (1-9)		UDP
		MAND	COIM	DHAU	PANT	UDP	RAJ	LUD	HYD			
1	HKH-1179	100.0	98.2	3.0	1.8	27.7	3.0	5.5	8.1	7.7		
2	JH-10858	66.7	57.1	2.0	1.8	0.0	2.0	2.5	7.7	4.9		
3	MH 04-2	100.0	96.4	1.0	1.8	8.3	3.0	4.0	7.9	7.3		
4	AH-31410	100.0	96.6	1.0	1.5	47.8	3.0	5.2	8.1	7.3		
5	TUX POOL C7	88.1	98.2	1.0	1.8	20.0	2.0	3.6	8.1	4.6		
6	JKMH-51	71.4	92.9	1.5	1.5	12.0	3.0	3.5	8.0	6.6		
7	GK-3050	85.7	96.4	2.0	2.3	28.0	2.0	6.3	7.8	5.3		
8	PARAS JANAK	100.0	100.0	1.5	1.5	36.0	2.0	3.0	7.8	5.7		
9	C-555	95.8	100.0	2.0	1.5	8.3	4.0	4.7	8.0	5.4		
10	BIO-31030	77.1	94.6	1.5	1.8	14.2	2.0	6.1	7.6	6.3		
11	X-2406	67.9	96.4	2.5	2.0	29.1	2.0	6.0	7.9	3.6		
12	NECH-129	38.1	98.3	1.0	1.5	0.0	3.0	4.3	7.9	4.8		
13	KAVERI-244	45.5	100.0	2.5	1.5	32.0	3.0	4.2	8.1	6.9		
14	MCH-24	100.0	100.0	3.0	1.5	28.0	3.0	3.5	7.6	6.7		
	CHECKS											
15	PRO-311	33.3	96.7	3.0	1.5	8.0	3.0	4.2	4.9	7.5		
16	BIO-9881	28.1	87.9	3.0	2.3	4.3	3.0	5.4	7.7	6.5		
17	PARBHAT	100	100.0	2.0	1.8	30.0	3.0	3.5	7.7	5.6		
18	SEEDTEC-2324	91.2	100.0	3.0	1.5	12.0	4.0	4.7	7.7	5.0		
		100.0	100.0	1.8	3.9	36.0		4.8	8.4	4.8		
					2.4	80.0				5.9		
		CM-500	CM-500	Local	Basi Pragati	L.check(W) L.check(Y)		Paras	CM-600	L.check(W) L.check(Y)		

Table No.2

SL NO	Pedigree	ESR (%)		C. RUST (1-5)		P. Rust (1-5)		Brown spot (1-5)	
		DHAU	PANT	ARBH	NAG	RAJ	ARBH	NAG	RAJ
1	HKH-1179	19.5	9.0	1.0	3.0	2.0			2.0
2	JH-10858	22.5	6.2	1.0	1.0	1.0			1.0
3	MH 04-2	31.2	7.6	1.5	1.0	2.0			2.0
4	AH-31410	27.5	0.0	3.0	1.5	3.0			3.0
5	TUX POOL C7	4.7	5.5	3.5	1.5	1.0			1.0
6	JKMH-51	37.9	17.6	1.0	1.0	2.0			2.0
7	GK-3050	19.3	75.4	1.5	3.5	2.0			2.0
8	PARAS JANAK	41.5	0.0	1.0	1.0	3.0			3.0
9	C-555	18.7	14.3	1.0	1.0	3.0			3.0
10	BIO-31030	8.1	8.3	1.5	1.0	2.0			2.0
11	X-2406	3.4	6.5	1.5	2.5	2.0			2.0
12	NECH-128	8.2	8.8	1.0	1.5	2.0			2.0
13	KAVERI-244	31.7	6.2	1.0	2.5	2.0			2.0
14	MCH-24	2.9	0.0	1.0	3.0	2.0			2.0
	CHECKS								
15	PRO-311	13.8	20	2.0	1.0	2.0			2.0
16	BIO-8881	32.2	6.8	2.8	2.0	2.0			2.0
17	PARBHAT	41.5	16.3	2.0	1.0	2.0			2.0
18	SEEDTEC-2324	35.5	5.8	1.0	1.0	2.0			2.0
		12.1	10.8	5.0	3.6				
			2.4	1.0					
	Local		Basal	CM-202	MAI120				
			Pragati	CH-4					

Table No 3 Evaluation of maize genotypes (IET medium maturity) against diseases during kharif 2004 - Trial No.62 A

SL NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	RAJ
1	AH-31417	3.3	2.0	2.8	3.0	2.0	2.0	2.3	-	2.0
2	V-34	3.3	3.0	3.0	4.2	2.5	2.8	3.5	1.0	2.0
3	L-180	2.5	2.0	3.3	2.8	1.5	2.8	2.3	0.5	1.0
4	CHF-219	2.0	3.0	3.3	4.2	2.5	2.3	2.6	0.5	2.0
5	JH-10877	2.0	1.5	2.0	2.6	1.5	2.0	2.0	-	4.0
6	L-186	2.8	3.0	3.0	4.0	2.0	3.0	2.0	-	4.0
7	HKH-1191	3.0	2.5	3.0	2.7	3.0	2.8	3.2	-	4.0
8	MH-03-2	3.0	2.0	2.8	2.9	1.5	2.0	2.2	0.5	3.0
9	V-32	3.0	2.0	2.8	2.6	2.5	3.5	2.4	-	2.0
10	AH-31406	2.8	3.0	3.3	3.2	2.5	2.5	2.0	1.0	3.0
11	X-85	1.8	2.0	3.0	2.3	1.5	2.5	2.1	-	2.0
12	PMZ-150	2.5	3.0	2.5	2.2	1.5	2.0	2.3	-	2.0
13	JKMH-702	2.5	4.0	3.3	3.2	2.5	2.8	2.8	-	3.0
14	SMH-3103	3.0	2.0	2.8	3.7	1.5	2.3	2.3	0.5	3.0
15	CHECK									
	KH 510	2.0	2.5	2.5	2.0	1.5	3.0	2.0	-	4.0
16	NAVJOT	2.3	2.0	3.3	3.8	3.0	2.5	2.7	-	3.0
			1.4	3.0	4.5		2.0	4.0	2.5	
			Local	Navjot	CML186 Local		Paras	HKI-1341	Early comp.	

Table No 3

SL. NO	Pedigree	SDM (%)	COIM	BSDM (1-5) DHAU	PANT	RDM UDP	DM (1-5) RAJ	PFSR (1-9) LUD	HYD	UDP
1	AH-31417	100.0	100.0	1.0	1.8	21.0	2.0	3.1	7.7	5.4
2	V-34	100.0	100.0	1.0	2.5	20.0	2.0	3.1	7.8	5.6
3	L-180	100.0	100.0	2.0	2.0	8.0	2.0	4.2	7.9	5.6
4	CHK-219	100.0	96.6	1.0	1.8	8.0	4.0	4.6	7.6	6.5
5	JH-10877	85.7	84.2	3.0	1.3	0.0	1.0	2.5	7.7	6.3
6	L-186	96.6	96.6	3.0	1.3	0.0	2.0	4.9	7.7	3.7
7	HKH-1191	100.0	100.0	3.0	2.0	69.5	2.0	6.5	8.2	4.7
8	MH-03-2	100.0	94.9	2.0	1.5	0.0	2.0	2.4	7.6	6.2
9	V-32	100.0	100.0	1.0	1.8	16.0	1.0	5.5	7.9	5.0
10	AH-31408	100.0	100.0	2.0	2.5	56.0	2.0	4.1	7.1	6.7
11	X-85	55.2	94.8	2.0	1.8	0.0	1.0	4.1	7.1	2.0
12	PMZ-150	100.0	76.3	3.0	1.8	25.0	3.0	5.8	7.0	5.0
13	JKMH-702	100.0	100.0	3.0	2.3	36.0	2.0	4.9	7.9	6.0
14	SMH-3103	80.0	75.4	2.0	1.5	0.0	3.0	3.7	7.8	5.3
	CHECK									
15	KH 510	96.4	98.1	2.0	1.8	8.0	3.0	5.3	7.4	4.6
16	NAVJOT	96.4	100.0	3.0	2.0	32.0	2.0	4.1	8.2	7.0
		100.0	100.0	1.6	3.9	50.0		3.0	8.4	7.2
					2.4	30.4				6.6
		CM-500	CM-500	Local	Basi Pragati	Lcheck(W) Lcheck(Y)		Paras	CM-600	Lcheck(W) Lcheck(Y)

Table No 3

SL NO	Pedigree	ESR (%)	PANT	C. RUST (1-5) ARB	P. Rust (1-5) NAG	Brown spot (1-5) RAJ
1	AH-31417	28.8	58.8	3.5	4.5	1.0
2	V-34	37.6	55.5	3.5	4.0	2.0
3	L-180	46.7	20.0	4.0	4.0	1.0
4	CHH-219	45.4	19.6	2.0	3.5	2.0
5	JH-10877	14.3	0.0	1.0	1.5	3.0
6	L-186	30.6	10.0	2.5	3.5	3.0
7	HKG-1191	55.0	13.3	1.0	4.5	4.0
8	MH-03-2	63.2	5.2	2.0	4.5	3.0
9	V-32	31.0	5.9	3.0	3.5	2.0
10	AH-31406	46.8	0.0	3.0	4.0	2.0
11	X-65	36.6	29.5	2.0	2.5	2.0
12	PMZ-160	50.0	33.3	2.0	1.5	3.0
13	JKM-702	56.1	0.0	2.0	2.5	2.0
14	SMH-3103	50.0	6.8	1.0	4.0	3.0
	CHECK					
15	KH 510	51.4	55.2	2.0	2.0	3.0
16	NAVJOT	43.3	12.1	3.5	4.0	2.0
	Local	10.4	10.8	3.5	3.5	
	Beal		2.4	1.0		
	Pragati					
	CM-202				MAI120	
	CI-4					

Table No 4 Evaluation of maize genotypes (IET medium maturity) against diseases during kharif 2004 - Trial No.62B

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	RAJ
1	MH-03-1	1.3	2.0	2.5	2.4	1.5	2.0	2.4	-	2.0
2	V-33	1.3	3.0	2.8	2.8	2.0	2.3	2.4	-	5.0
3	HKH-1188	1.5	2.5	2.8	2.7	1.5	2.0	1.5	-	3.0
4	L-185	1.8	2.0	3.3	3.2	2.0	2.5	2.4	-	2.0
5	EC-3138A	1.8	2.0	3.5	3.4	2.5	2.5	2.7	0.5	2.0
6	CHH-218	1.8	2.0	3.3	3.5	2.0	2.0	2.0	-	2.0
7	AH-31408	1.8	3.0	3.0	4.2	2.0	3.0	2.3	0.5	3.0
8	HKH-1211	1.3	3.0	2.0	4.0	1.5	1.5	1.5	-	3.0
9	AH-31403	2.3	3.5	2.8	2.0	2.0	2.0	2.5	0.5	3.0
10	PHS-79 (WHITE)	1.5	2.0	3.0	4.1	1.5	2.5	2.3	-	2.0
11	PMZ-139	1.3	3.0	2.3	2.8	1.5	3.3	2.2	-	3.0
12	MCH-25	1.3	1.0	2.8	3.4	1.5	1.5	1.5	-	3.0
13	KAVERI-2727	1.5	2.0	3.0	3.2	2.5	2.3	2.3	-	3.0
14	CHECK KH 510	2.3	2.5	2.3	3.0	1.5	1.0	2.0	0.5	3.0
15	NAVJOT	2.0	3.0	3.3	2.7	2.5	2.5	2.2	1.0	2.0
			1.1	3.3	4.5		1.0	4.0	2.5	

Local (s) Novjot CML186
Local

Paras(S) HK-134(R) Early comp.

Table No 4

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	RAJ	BLSB (1-5) PANT	DEL	BAJ	RAJ
1	MH-03-1	2.0	2.0	3.5	1.0	0.5	2.0	3.0	3.5	1.0	2
2	V-33	2.0	2.0	4.5	1.5	1.0	4.0	2.8	3.0	3.0	3.0
3	HKH-1188	2.3	1.5	4.5	0.0	0.5	2.0	3.3	3.0	2.0	3.0
4	L-185	3.0	4.0	4.5	1.5	0.5	2.0	3.0	3.0	2.0	3.0
5	EC-31381	3.0	3.5	2.5	1.5	2.5	2.0	2.8	3.5	1.5	4.0
6	CHH-218	2.5	3.1	3.5	1.0	2.5	2.0	2.8	3.0	2.0	2.0
7	AH-31402	2.8	3.8	2.5	2.0	3.0	4.0	3.0	3.5	2.5	2.0
8	HKH-1211	2.3	2.5	4.5	2.0	1.5	2.0	2.8	3.0	1.0	2.0
9	AH-31403	2.0	3.0	2.5	1.0	3.0	3.0	2.8	3.5	1.0	3.0
10	PHS-78 (WHITE)	2.0	3.0	4.5	1.5	2.5	1.0	2.3	3.0	1.0	2.0
11	PMZ-139	1.3	2.0	3.5	1.0	1.0	3.0	2.8	3.0	2.0	3.0
12	MCH-25	2.5	2.0	3.5	2.5	0.5	2.0	2.5	3.5	-	4.0
13	KAVERI-2727	1.8	2.3	3.5	0.0	0.5	2.0	2.5	3.0	1.0	2.0
14	CHECK KH 510	1.5	2.0	3.5	1.5	0.5	2.0	3.0	3.5	2.0	2.0
15	NAVJOT	2.0	3.3	3.5	2.0	0.5	1.0	3.0	3.0	3.0	2.0
			5.0	4.5	2.5	3.5	2.0	3.8		2.5	
			2.0			4.5	1.0	3.3			
		CM-302(S) CI-4		MAI120(S)	CM-500	Early comp.		Basal Pragati		Early comp.	

Table No 4

SL. NO	Pedigree	SDM (%)	COIM	BSDM (1-5) DHAU	PANT	RDM	DM (1-5) RAJ	PFSR (1-9) LUD	HYD	UDP
1	MH-03-1	100.0	98.6	3.0	2.0	62.0	3.0	4.3	7.7	4.0
2	V-33	10.0	97.5	2.0	1.8	32.0	3.0	2.8	7.9	3.8
3	HKH-1188	37.5	100.0	2.0	3.8	52.0	3.0	6.2	8.0	4.7
4	L-185	100.0	100.0	2.5	2.5	36.0	2.0	3.9	7.9	5.6
5	EC-3138A	100.0	96.4	2.0	2.0	34.7	2.0	3.5	7.9	5.1
6	CHH-218	100.0	96.5	2.0	3.0	36.0	2.0	3.1	7.9	5.8
7	AH-31408	100.0	96.4	2.0	2.3	40.0	2.0	3.2	8.0	5.9
8	HKH-1211	100.0	100.0	2.5	1.5	36.0	2.0	5.2	7.9	7.4
9	AH-31403	100.0	100.0	3.0	2.8	44.0	2.0	2.7	5.0	4.4
10	PHS-79 (WHITE)	100.0	96.1	2.0	2.3	56.0	2.0	2.0	7.8	7.2
11	PMZ-139	100.0	100.0	2.0	2.0	43.7	2.0	5.0	7.6	7.4
12	MCH-25	96.8	10.0	1.0	1.8	0.0	4.0	2.2	7.7	3.2
13	KAVERI-2727	98.9	100.0	1.5	2.3	56.0	2.0	4.8	7.4	3.8
14	KH 510	79.2	91.5	1.5	1.5	12.5	2.0	4.4	7.7	6.0
15	NAVJOT	100.0	100.0	1.0	2.0	64.0	1.0	3.0	7.9	6.4
		100.0	100.0	1.7	3.9	52.0		2.2	8.4	5.8
					2.4	36				6.5
		CM-500	CM-500	Local	Basic Pragati	Local Check(W) Check(Y)		Paras	CM-600	Local Check(W) Check(Y)

Table No 4

SL NO	Pedigree	ESR (%)	DHAU	PANT	C. RUST (1-6)	P. Rust (1-5)	Brown spot (1-5)
1	MH-03-1	42.3		12.2	ARBH 1.8	NAG 3.0	RAJ 3.0
2	V-33	54.3		0.0	1.5	2.0	4.0
3	HKH-1188	56.3		6.2	1.0	2.5	3.0
4	L-185	56.2		15.8	2.5	3.0	2.0
5	EC-31381	70.7		9.0	2.5	2.0	3.0
6	CHH-218	37.3		5.5	2.3	3.5	3.0
7	AH-31408	40.0		8.3	2.5	3.5	2.0
8	HKH-1211	37.5		10.0	1.0	4.0	3.0
9	AH-31403	20.0		0.0	3.3	4.5	4.0
10	PHS-79 (WHITE)	12.7		0.0	1.8	2.0	2.0
11	PMZ-138	34.2		0.0	1.0	4.5	3.0
12	MCH-25	24.1		12.5	1.0	3.5	3.0
13	KAVERI-2727	18.5		15.0	1.0	3.5	3.0
14	CHECK	49.1		0.0	2.7	3.0	3.0
15	KH 510	32.4		7.6	2.5	4.5	2.0
	NAVJOT	9.4		10.8	1.0	3.5	
				2.4	1.0		
	Local		Basel		CH-202(8)	MA1120	
			Pragati		CH-4		

Table No 5 Evaluation of maize genotypes (IET Early maturity) against diseases during kharif 2004 - Trial No.63

SL NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ
1	JH-31013	1.0	2.0	2.3	4.0	1.5	1.8	1.5	2.0
2	JH-3882	1.0	2.0	2.5	3.7	2.0	3.0	2.5	1.0
3	JH-31041	1.0	1.5	2.3	4.4	1.5	1.8	2.0	0.5
4	JC-3272	1.3	3.0	3.5	4.0	3.0	3.3	2.8	0.5
5	L-201	1.5	2.0	3.0	4.3	2.0	2.5	2.4	1.0
6	FH-3273	1.0	2.0	1.8	4.2	1.5	2.5	1.5	-
7	FH-3289	1.0	3.0	2.5	3.4	1.5	3.0	1.5	-
8	ECH-1389	1.5	3.0	3.5	4.0	2.0	2.5	2.5	0.5
9	EH-1485	1.5	3.0	3.3	4.2	2.0	2.8	2.4	-
10	BVM-4-1	1.3	2.0	3.8	3.6	2.0	3.5	3.0	1.0
11	BVM-6	1.5	3.0	3.8	4.2	2.5	2.8	2.3	0.5
12	HKH-1199	1.3	2.0	3.3	3.5	1.5	2.5	2.2	-
13	HKH-1237	1.8	3.0	3.0	3.8	2.0	3.8	2.5	-
14	AH-31405	1.8	2.0	3.5	2.9	1.5	3.0	1.5	1.0
15	AH-31415	1.5	2.0	3.0	3.6	2.0	3.3	2.3	-
16	PMZ-146	1.0	1.5	2.0	4.4	1.5	2.0	2.2	-
17	MCH-26	1.5	2.0	3.3	4.5	1.5	2.0	2.2	0.5
18	MCH-27	1.3	2.5	2.0	3.4	1.5	2.0	2.7	0.5
19	JKMH-10	1.3	2.0	2.8	2.9	1.5	2.0	1.5	-
20	X-2484	2.0	2.5	3.5	3.6	2.0	2.5	2.8	2.0
21	X-1363 B	1.8	3.0	2.5	4.0	1.5	2.3	2.0	0.5
	CHECKS								
22	X-3342	1.5	2.0	2.5	3.7	2.0	2.5	2.4	0.5
23	MAHI KANCHAN	2.5	2.5	2.8	3.6	2.5	3.5	3.5	-
24	KIRAN	1.3	3.0	4.0	1.8	2.5	2.5	2.6	-
25	PARKASH	1.3	2.0	3.5	3.5	2.0	1.5	1.5	-
			1.2	3.5	4.5	1.8	4.0	2.5	
			Local (s)	Novjot	CML186 Local	Paras(S)	-KI-1341(R)	Early comp.	

Table No 5

SL NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	BLSB (1-5) PANT	DEL	BAJ
1	JH-31013	3.5	3.8	3.5	1.0	3.5	2.5	3.5	2.0
2	JH-3082	3.8	4.3	2.5	1.0	3.0	3.5	3.5	2.0
3	JH-31041	3.3	2.8	3.0	1.0	3.5	3.0	3.0	1.0
4	JC-3272	4.0	4.5	3.0	1.0	4.5	3.3	3.5	-
5	L-201	3.5	2.4	4.5	1.5	4.5	3.3	4.0	2.5
6	FH-3273	2.8	2.3	3.5	1.0	2.5	4.8	3.5	-
7	FH-3289	2.8	3.0	3.5	1.0	2.0	3.0	3.5	1.0
8	EH-1388	3.0	3.5	4.5	0.0	2.0	3.3	3.5	1.0
9	EH-1485	3.0	3.0	2.5	1.0	3.0	2.8	3.5	3.5
10	BVM-4-1	3.5	4.3	4.5	1.0	3.5	3.0	3.5	2.5
11	BVM-8	3.0	3.2	2.5	1.0	3.0	2.8	3.5	1.0
12	HKH-1198	2.5	2.9	2.0	1.5	2.5	2.8	3.5	2.0
13	HKH-1237	2.8	2.5	3.5	2.0	3.5	3.0	4.0	2.0
14	AH-31405	3.0	4.0	4.0	2.0	1.0	3.5	3.5	2.0
16	AH-31415	2.0	3.5	3.5	1.0	2.0	2.5	3.5	2.0
20	PMZ-146	1.0	2.0	5.0	1.5	2.5	2.8	4.0	1.0
22	MCH-26	1.3	3.0	3.5	1.0	3.5	3.0	3.0	2.0
23	MCH-27	2.3	2.8	4.0	2.5	4.0	2.8	3.5	3.0
25	JOMH-10	2.0	2.3	5.0	1.0	1.0	3.3	4.0	2.0
28	X-2484	2.5	2.0	3.0	2.5	2.0	2.5	4.0	2.5
31	X-1383 B	2.5	2.0	3.5	2.0	3.5	2.5	2.5	1.0
	CHECKS								
32	X-3342	2.0	2.3	4.5	2.5	3.5	3.0	4.0	2.0
33	MAHI KANCHAN	2.0	4.5	3.5	1.0	3.5	3.5	3.5	2.0
34	KIRAN	2.3	3.5	2.5	2.5	3.5	3.0	3.5	2.0
35	PARKASH	3.0	3.2	3.5	1.0	3.5	2.8	3.0	2.5
			5.0	5.0	2.0	4.5	3.8		3.0
			1.8				3.3		

CM-202(S) MAI120(S) CM-500
CH-4

Basl
Pragati

Early
comp.

Early
comp.

Table No 5

SL. NO	Pedigree	SDM (%)		BSDM (1-5)		RDM		PFSR (1-9)		UDP	
		MAND	COIM	DFAU	PANT	UDP	LUD	HYD	UDP		
1	JH-31013	100.0	100.0	3.0	1.3	70.8	2.9	8.1	4.0		
2	JH-3982	100.0	96.3	2.0	2.0	64.0	1.7	7.1	3.8		
3	JH-31041	100.0	100.0	3.0	1.5	56.0	4.0	6.8	3.4		
4	JC-3272	100.0	100.0	1.0	2.5	72.0	4.0	8.1	6.4		
5	L-201	100.0	96.3	1.5	2.3	34.7	4.0	7.8	5.4		
6	FH-3273	100.0	98.3	2.5	1.8	4.0	5.5	7.8	4.8		
7	FH-3289	100.0	100.0	3.0	1.8	4.0	3.7	6.9	3.2		
8	ECH-1369	100.0	98.3	3.0	2.3	58.3	3.2	4.9	4.1		
9	EH-1485	94.1	82.8	2.0	2.3	12.0	3.9	7.8	4.9		
10	BVM-4-1	100.0	94.7	2.5	3.5	24.0	3.7	7.3	6.4		
11	BVM-8	100.0	94.6	3.0	2.8	36.0	4.3	7.2	7.4		
12	HKH-1199	100.0	100.0	3.0	1.8	91.6	2.0	7.3	6.5		
13	HGT-1237	100.0	100.0	3.5	3.5	66.6	4.3	4.9	5.6		
14	AH-31405	100.0	100.0	2.5	1.8	78.2	1.6	7.3	5.7		
15	AH-31415	100.0	96.4	4.0	2.5	66.6	2.3	6.9	6.0		
20	PMZ-146	90.0	77.3	3.0	1.5	0.0	2.4	8.1	6.0		
22	MCH-26	80.0	77.6	2.5	2.5	8.3	2.3	7.3	6.7		
23	MCH-27	100.0	94.7	2.0	1.5	16.6	1.6	7.5	4.9		
25	JKMH-10	96.0	87.7	2.5	1.5	8	2.7	7.7	3.1		
28	X-2484	100.0	100.0	3.0	2.0	96.0	2.0	7.9	5.0		
31	X-1363 B	90.3	100	2.5	1.5	20.0	1.7	7.7	7.0		
	CHECKS										
32	X-3342	96.8	88.9	2.5	2.0	32.0	4.2	7.9	5.5		
33	MAHI KANCHAN	100.0	100	3.5	3.0	60.0	4	7.3	5.6		
34	KIRAN	96.0	96.2	1.0	2.0	41.6	4.3	7.7	6.9		
35	PARKASH	100.0	100	2.0	1.5	58.3	1.5	7.4	7.0		
		100.0	100.0	1.1	3.9	56.3	2.3	8.4	5.0		
					2.4	12.0					
		CM-500	CM-500	Local	Basl Pragati	L check(W) L check(Y)	Paras	CM-600	Local		

Table No 5

SL NO	Pedigree	ESR (%)	DHAU	PANT	C. RUST (1-5)	P. RUST (1-5)
1	JH-31013	17.7			1.5	3.5
2	JH-3982	62.3		18.1	2.0	2.5
3	JH-31041	55.5		6.6	2.3	4.5
4	JC-3272	93.4		6.5	1.8	4.0
5	L-201	89.0		0.0	1.0	4.5
6	FH-3273	65.3		13.3	1.0	4.0
7	FH-3289	67.1		0.0	2.3	3.5
8	ECH-1369	76.4		14.2	3.0	3.5
9	EH-1485	80.0		0.0	3.0	3.0
10	BVM-4-1	83.6		7.7	2.3	4.0
11	BVM-6	86.5		6.6	1.8	3.5
12	HKH-1189	91.0		6.6	1.5	2.0
13	HKH-1237	84.3		66.6	1.7	4.5
14	AH-31405	8.0		8.3	2.5	2.5
15	AH-31415	96.0		0.0	3.0	3.0
20	PMZ-146	68.7		6.3	2.0	3.5
22	MCH-26	43.7		12.7	1.3	3.5
23	MCH-27	58.9		10.0	1.8	4.5
25	JKMH-10	90.3		0.0	1.3	2.5
26	X-2494	74.6		5.2	1.3	1.0
31	X-1963 B	58.0		9.5	1.0	3.5
	CHECKS					
32	X-3942	79.4		22.5	2.4	1.0
33	MAH KANCHAN	92.7		22.5	3.0	3.5
34	KIRAN	92.4		23.5	1.0	1.0
35	PARKASH	82.6		11.1	1.5	1.0
	Local	6.4		10.8	3.8	3.5
	Beed			2.4	1.0	
	Pragati					
	CM-202(S)					MA1120
	CI-4					

Table No6 Evaluation of maize genotypes (IET extra-early maturity) against diseases during kharif 2004- Trial No64

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	RAJ
1	DEH-105	1.5	2.0	3.8	4.2	2.5	2.8	3.2	1.0	1.0
2	DEH-107	1.3	3.0	3.3	3.7	3.0	3.0	3.0	0.5	2.0
3	DEH-111	1.5	4.0	4.0	4.0	3.5	3.8	3.0	1.0	2.0
4	FH-3245	1.3	2.0	1.8	4.2	1.5	2.0	2.1	-	3.0
5	FH-3248	1.0	2.0	2.0	4.2	2.0	2.8	1.5	2.0	2.0
6	FH-3277	1.0	1.0	1.8	4.3	1.5	1.8	2.3	-	2.0
7	FH-3288	1.0	1.0	2.5	3.8	2.5	2.8	2.4	-	2.0
8	VL-103	2.0	3.0	3.3	4.2	2.0	4.0	2.7	-	2.0
9	VL-105	1.8	3.0	3.8	3.6	3.5	3.0	2.4	0.5	2.0
10	VL-108	1.3	1.5	2.8	3.6	3.0	3.5	2.5	0.5	3.0
11	VL-109	1.5	3.0	3.3	3.7	2.0	3.3	3.7	-	2.0
12	VL-110	1.5	1.5	2.5	4.0	3.0	2.5	3.0	1.0	3.0
13	VL-111	1.0	2.5	2.8	4.4	2.0	3.0	3.3	-	2.0
14	JH-31053	1.5	2.0	2.8	4.2	2.0	1.8	1.5	-	1.0
15	CHH-212	1.5	3.5	1.8	3.8	2.0	3.8	2.8	0.5	3.0
16	CHH-215	1.5	2.0	2.3	2.4	1.5	3.0	2.3	0.5	2.0
17	IC-0301 (SZM 421) CHECKS	1.3	3.0	2.8	4.0	2.0	3.3	2.6	0.5	2.0
18	HIM-129	1.0	3.5	2.3	4.2	1.5	2.3	2.0	1.0	3.0
19	SURYA	1.5	2.0	3.0	3.9	2.0	2.5	2.2	2.0	4.0
		1.8	3.0	3.3	4.3	3.5	3.0	3.0	2.0	3.0
				3.3	4.5		2.0	4.0	2.5	

Novjot CML186 Local Paras(S) -IKI-1341(R) Early comp.

Table No6

SL NO	Pedigree	TLB (1-5)	ALM	ARB	NAG	COIM	BAJ	RAJ	BLSB (1-5)	PANT	DEL	BAJ	RAJ
1	DEH-106	1.8	3.0	5.0	1.0	3.0	2.0	3.0	3.0	4.0	2.0	2.0	2.0
2	DEH-107	1.8	3.5	3.0	1.0	3.5	1.0	3.5	5.0	4.0	2.0	2.0	2.0
3	DEH-111	3.0	4.5	3.5	0.0	2.5	1.0	3.3	3.3	4.0	3.0	3.0	2.0
4	FH-3245	2.0	4.0	4.0	2.5	2.0	2.0	4.5	4.5	4.0	2.0	3.0	1.0
5	FH-3248	2.3	2.8	4.5	2.0	2.0	2.0	4.5	4.5	4.5	3.0	3.0	2.0
6	FH-3277	1.3	3.5	2.0	2.5	1.0	1.0	3.8	3.8	4.0	1.0	1.0	1.0
7	FH-3288	2.0	4.0	3.5	1.0	0.5	1.0	3.8	3.8	3.5	1.0	2.0	2.0
8	VL-103	2.5	2.0	4.5	0.0	3.0	3.0	4.5	4.5	4.0	2.0	2.0	2.0
9	VL-105	3.0	2.3	4.0	10.0	3.5	3.5	3.8	3.8	4.0	1.0	1.0	2.0
10	VL-108	2.3	2.0	3.5	1.0	3.0	3.0	3.8	3.8	4.0	1.0	1.0	2.0
11	VL-109	2.0	3.0	2.5	0.0	4.5	3.0	4.5	4.5	4.0	2.0	2.0	2.0
12	VL-110	2.0	4.5	3.0	2.5	2.0	3.0	3.0	3.0	4.0	4.0	0.5	2.0
13	VL-111	2.5	2.0	4.5	3.0	4.0	2.0	3.3	3.3	4.5	1.0	1.0	2.0
14	JH-31053	3.0	3.0	3.5	2.5	4.0	1.0	3.8	3.8	3.5	2.0	2.0	2.0
15	CHH-212	2.3	2.3	3.5	1.0	3.0	2.0	3.5	3.5	3.5	2.0	2.0	3.0
16	CHH-215	2.0	4.5	5.0	2.5	3.5	3.0	4.0	4.0	3.5	3.5	4.0	4.0
17	IC-0301 (SZM 421)	2.0	4.0	5.0	3.0	2.0	2.0	3.3	3.3	3.0	3.0	3.0	2.0
18	CHECKS	2.5	4.5	4.5	1.0	3.0	4.0	4.0	4.0	3.5	3.5	3.0	2.0
19	HIM-129	2.5	4.0	4.5	0.0	3.0	3.0	4.0	4.0	4.0	4.0	2.0	2.0
	SURYA	3.0	4.8	2.0	1.5	4.0	2.0	3.8	3.8	3.5	2.0	2.0	2.0
			5.0	5.0	1.0	3.5	3.5	3.8	3.8	2.0	2.0	2.0	2.0
			2.0			4.5	4.5	3.3	3.3	2.5	2.5	2.5	2.5

CM-302(S) MAJ120(S) CM-500
CH-4 Early comp.

Basel Pragas Early comp.

Table No6

SL. NO	Pedigree	SDM (%)	COIM	BSDM (1-5) DHAU	PANT	RDM	DM (1-5) RAJ	PFSR (1-9) LUD	HYD	UDP
1	DEH-105	100.0	90.9	3.0	3.5	32.0	2.0	3.3	8.0	4.9
2	DEH-107	100.0	85.7	1.0	2.0	24.0	2.0	3.7	8.2	4.0
3	DEH-111	100.0	86.0	1.0	2.0	40.0	3.0	5.3	7.9	4.4
4	FH-3245	92.6	81.8	2.5	2.5	16.6	4.0	4.4	8.1	5.9
5	FH-3248	90.9	80.4	3.0	3.5	16.0	2.0	4.3	7.8	8.2
6	FH-3277	100.0	61.8	2.0	1.8	4.0	2.0	2.3	7.9	5.9
7	FH-3288	100.0	96.3	2.5	2.5	73.9	2.0	5.2	8.1	5.8
8	VL-103	96.4	96.2	2.0	2.5	28.0	3.0	4.6	7.9	5.6
9	VL-105	100.0	98.1	1.0	2.3	30.4	2.0	4.1	7.8	5.2
10	VL-108	100.0	100.0	2.0	2.0	52.0	2.0	3.2	8.2	5.7
11	VL-109	97.1	97.2	2.0	3.0	28.0	2.0	5.5	7.9	6.3
12	VL-110	100.0	100.0	2.0	2.5	31.8	2.0	3.9	8.1	6.7
13	VL-111	100.0	98.3	1.0	2.0	24.0	1.0	3.3	7.9	5.8
14	JH-31053	100.0	100.0	1.0	2.5	64.0	2.0	3.6	8.0	4.1
15	CHH-212	98.9	92.7	3.0	2.5	28.0	2.0	3.5	7.9	5.7
16	CHH-215	100.0	97.4	2.0	2.3	28.0	1.0	2.6	8.1	5.5
17	IC-0301 (SZM 421) CHECKS	98.4	92.6	2.5	2.5	13.0	1.0	3.3	7.9	8.1
18	HIM-129	93.1	96.2	2.5	1.5	21.0	2.0	3.5	7.6	6.3
19	SURYA	100.0	92.3	3.0	3.3	4.0	1.0	5.5	7.9	3.7
		100.0	100.0	2.5	1.5	60.8	1.0	4.4	7.9	4.2
		100.0	100.0	1.3	3.9	19.0		2.7	8.4	4.1
					2.4	18.1				6.1
		CM-500	CM-500	Local	Besi Pragati	L-check(W) L-check(Y)	Paras	Paras	CM-600	Local

Table No6

SL NO	Pedigree	ESR (%)	DHAU	PANT	C. RUST (1-5) ARBH	P. Rust (1-5) NAG	Brown spot (1-5) RAJ
1	DEH-105	85.9	7.1	2.0	4.5	1.0	
2	DEH-107	71.4	0.0	1.5	3.5	2.0	
3	DEH-111	91.6	8.9	2.0	3.0	4.0	
4	FH-3245	91.5	37.5	2.0	4.5	5.0	
5	FH-3248	84.3	14.2	2.5	4.0	5.0	
6	FH-3277	80	6.2	1.3	1.5	5.0	
7	FH-3288	87.6	18.5	2.5	2.5	2.0	
8	VL-103	79.2	25.0	1.0	3.0	2.0	
9	VL-105	76.5	14.7	1.0	4.0	3.0	
10	VL-108	77.2	16.6	1.0	2.5	3.0	
11	VL-109	76.1	14.5	1.0	4.0	3.0	
12	VL-110	80	0.0	1.0	3.5	2.0	
13	VL-111	55	8.9	1.0	3.0	3.0	
14	JH-31053	53.4	22.5	2.3	4.0	4.0	
15	CHH-212	34.4	0.0	1.0	2.0	4.0	
16	CHH-215	56.8	10.4	1.0	3.0	2.0	
17	IC-0301 (SZM 421)	50.8	15.7	1.3	2.5	1.0	
18	CHECKS	66.2	9.7	1.5	1.0	4.0	
19	HMA-129	90.3	30.0	1.0	4.0	5.0	
	SURYA	58	18.3	1.0	1.5	2.0	
		11.7	10.8	1.0	3.0		
			2.4	1.0			
	Local						
			Basal	CM-202(S)	MAI120		
			Pragati	CH-4			

Table No 7 Evaluation of maize genotypes (Early maturity) against diseases during kharif 2004 - Trial No.76

SL. NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ
1	FH-3259	1.0	1.5	1.8	4.3	2.0	2.0	2.0	1.5	-
2	JH-31005	1.5	1.5	2.0	2.4	1.5	1.8	1.8	2.5	-
3	JH-31038	1.5	2.0	2.0	2.2	1.5	1.8	1.8	2.5	-
4	JH-3084	1.3	1.5	2.0	3.8	1.5	1.8	1.8	1.5	-
5	HKT-1176	1.3	1.5	2.5	2.4	2.5	2.5	2.5	2.3	-
6	AH-24007	1.5	1.5	3.0	3.8	1.5	2.5	2.5	2.5	0.5
7	AH-01411	1.3	2.0	2.8	3.9	2.0	2.3	2.3	2.0	0.5
8	R-03/702	1.5	2.0	3.0	4.0	2.5	2.3	2.3	3.8	-
9	BVM-5	1.3	2.5	2.8	3.5	2.0	2.5	2.5	2.8	-
10	BVM-6	1.3	2.0	2.8	4.3	3.0	2.8	2.8	3.0	-
11	X-1182 D	1	2.0	2.3	2.0	2.5	2.3	2.3	2.7	-
12	X-1182 K	1	1.5	2.3	2.5	2.0	2.0	2.0	2.3	-
13	JKMH-1701	1.3	1.0	2.3	3.7	1.5	2.0	2.0	2.5	-
14	X-2087	1.5	1.0	3.0	4.0	2.0	2.8	2.8	2.4	-
AET 1st YEAR (EXTRA EARLY MATURITY)										
15	DEH-10103	1.8	3.0	3.8	3.7	2.5	3.5	3.5	2.5	0.5
16	DEH-10303	1.5	2.0	3.6	3.5	2.0	2.5	2.5	3.0	-
17	DEH-10503	1.3	2.0	3.3	3.2	1.5	3.3	3.3	3.0	2.0
18	DEH-11303	1.3	3.0	3.6	2.9	2.0	3.3	3.3	3.5	1.0
19	FH-3211	1.5	3.0	2.3	3.4	2.0	3.3	3.3	2.2	-
20	BVM-7	1.3	4.0	3.3	3.0	2.0	3.0	3.0	3.5	0.5
21	JKMH-204-1	1.5	1.0	2.5	2.8	1.5	2.0	2.0	1.5	1.0
22	HKT-1183	1.3	1.0	2.3	3.2	1.5	1.8	1.8	2.3	0.5
23	AH-23021	1.8	3.0	3.3	4.0	2.5	2.5	2.5	2.5	1.0
24	AH-23025	1.5	1.0	3.0	3.7	2.0	3.5	3.5	1.5	-
25	AH-23035	1.3	1.0	2.3	3.8	2.5	2.5	2.5	2.3	-

Table No 7

SL. NO	Pedigree	MLB (1-5) ALM	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ
26	AH-23039	1.3	1.0	2.3	3.2	1.5	2.0	2.2	-
27	AET 2nd YEAR (EARLY MATURITY)	1.3	1.0	2.3	2.0	1.5	2.5	-	-
28	JH-3951	1.5	2.0	3.0	2.5	2.0	2.0	Further	-
29	BH-2062	1.8	2.0	1.8	3.2	1.5	2.3	-	-
30	PMZ-135	1.8	2.0	2.5	2.4	1.5	2.5	-	-
31	PMZ-138	1.3	2.0	1.5	3.2	1.5	1.5	Data	-
32	MCH-5	1.5	1.0	1.8	3.3	2.0	2.3	-	-
33	MCH-6	1.5	1.0	1.8	3.5	1.5	1.8	-	-
34	JKMH-810	1.3	1.0	3.0	3.2	2.5	2.8	Not	2.0
35	X-2182	1.8	2.0	3.0	3.2	2.0	2.5	available	1.0
	EXTRA EARLY MATURITY								
	FH-3210	1.3	2.0	3.0	4.4	2.0	3.0	in	1.0
	CHECKS	2.0	1.0	3.5	4.0	3.5	3.8	-	-
36	KIRAN	1.8	2.0	2.3	3.8	2.0	2.3	-	-
37	MAHI KANCHAN	1.5	1.0	2.5	2.2	1.5	2.6	-	-
38	X-3342	1.8	3.0	3.0	3.6	2.0	3.3	Manuscript	-
39	PARKASH	1.8	1.0	3.8	3.5	1.5	2.5	-	-
40	HIM-129	2.5	4.0	3.8	4.5	2.5	4.0	-	-
41	SURYA	NS	1.2	3.0	4.4	-	2.3	-	2.5
42	CM-500			2.5	4.5				
43	LOCAL			3.0	4.4				
				2.5	4.5				
				3.0					

Paras(S) -KI-1341(R)

Local (e) Novjot CM-L186
Local

Table No 7

SL NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	BLSB (1-5) PANT	DEL	BAJ	
1	FH-3259	4.5	3.0	3.5	2.5	0.5	4.0	4.5	1.0	
2	JH-31005	4.5	3.8	4.5	2.5	4.0	3.8	3.5	0.5	
3	JH-31036	4.3	4.5	2.0	0.0	4.0	3.6	3.5	1.0	
4	JH-3984	3.5	3.0	2.0	1.5	3.5	3.3	4.0	1.0	
5	HGH-1178	3.5	2.0	4.5	2.5	2.0	3.5	3.5	1.0	
6	AH-24007	3.8	3.4	4.0	1.0	2.0	2.8	3.0	-	
7	AH-01411	3.5	3.8	4.0	3.0	2.5	2.8	3.5	1.0	
8	R-03/702	3.0	2.5	3.5	1.5	2.0	3.3	4.5	1.0	
9	BVM-5	3.8	2.9	4.0	2.0	3.5	2.5	3.0	2.0	
10	BVM-6	4.0	4.2	4.0	1.5	3.5	2.5	3.5	0.5	
11	X-1182 D	4.3	2.0	3.0	1.5	3.5	3.0	3.0	1.0	
12	X-1182 K	2.8	2.0	4.5	1.5	0.5	2.8	3.5	0.5	
13	JGMH-1701	2.0	3.0	2.0	2.5	1.5	4.0	4.0	3.0	
14	X-2097	2.0	2.8	2.0	2.5	1.5	2.8	2.5	-	
AET 1st YEAR (EXTRA EARLY MATURITY)										
15	DEH-10103	2.8	2.5	4.0	2.0	0.5	3.8	4.0	2.0	
16	DEH-10303	1.5	2.3	4.0	1.0	0.5	3.3	4.0	3.0	
17	DEH-10603	3.0	2.6	2.0	0.0	2.5	4.3	4.0	1.0	
18	DEH-11303	4.0	4.3	5.0	1.0	2.5	2.5	4.0	3.0	
19	FH-3211	3.5	2.5	2.5	2.0	2.0	3.8	4.0	2.0	
20	BVM-7	3.0	3.0	5.0	2.5	3.5	3.8	3.5	3.0	
21	JGMH-204-1	2.3	2.0	5.0	2.5	0.5	3.3	3.5	2.0	
22	HGH-1183	3.0	2.0	3.5	2.0	0.5	3.5	3.5	2.0	
23	AH-23021	3.3	2.0	5.0	2.0	0.5	3.8	4.0	1.0	
24	AH-23025	1.8	2.5	4.0	2.5	1.5	3.0	3.5	1.0	
25	AH-23035	2.5	3.3	4.5	3.0	3.0	3.0	3.0	1.0	

Table No 7

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	BLSB (1-5) PANT	DEL	BAJ
26	AH-23039	2.5	3.0	4.5	1.0	2.5	3.5	3.5	2.0
27	AET 2nd YEAR (EARLY MATURITY)	4.0	5.0	3.5	0.0	4.0	3.5	4.0	2.0
28	JH-3651	3.0	2.0	3.5	1.0	2.0	2.8	3.5	2.0
29	BH-2662	2.0	3.0	4.5	1.0	1.0	2.5	3.5	1.0
30	PMZ-135	1.5	1.5	3.0	0.0	1.0	2.8	3.0	0.5
31	PMZ-138	1.3	2.0	3.5	1.0	1.5	2.8	3.5	2.0
32	MCH-5	1.8	1.8	5.0	0.0	0.5	3.0	2.5	2.0
33	MCH-6	2.5	1.8	3.5	1.0	1.0	3.3	3.5	3.0
34	JKMH-810	3.0	2.5	4.5	2.5	2.5	2.5	4.0	3.0
35	X-2182	3.0	2.9	5.0	2.5	2.0	3.3	3.5	3.0
	EXTRA EARLY MATURITY								
36	FH-3210	4.0	3.8	3.0	2.0	2.5	2.8	3.5	3.0
37	CHECKS	3.8	2.7	3.5	0.0	4.5	3.0	3.0	2.0
38	KJRN	2.5	2.4	2.5	1.0	4.5	3.3	4.0	0.5
39	MAHI KANCHAN	4.3	4.8	4.5	1.5	3.5	3.3	3.5	1.0
40	X-3342	4.3	2.0	3.5	2.5	3.5	4.0	4.0	1.0
41	PARKASH	4.5	3.5	3.5	2.0	3.5	3.3	4.0	2.0
42	HIM-129	4.5	2.0	3.0	1.5	3.5	4.5	4.0	1.0
43	SURYA	NS	2.0	NG	1.0	4.5	2.8	-	2.5
	CM-500		5.0	5.0	1.5	4.5	3.8		
	LOCAL		2.0				3.3		

CM-202(S) MAI120(S) CM-500 E.Com.
CI-4

Basel Pragati
Early composite

Table No 7

SL NO	Pedigree	SDM (%)		BSDM (1-5)		RDM		PFSR (1-9)		HYD	UDP
		MAND	COIM	DHAU	PANT	UDP	LUD				
1	FH-3259	100.0	100.0	2.6	1.5	40.0	4.3	7.2	5.1		
2	JH-31005	100.0	100.0	3.0	1.3	60.0	3.0	5.0	3.5		
3	JH-31035	100.0	100.0	3.0	1.5	64.0	2.4	6.2	5.5		
4	JH-3964	100.0	100.0	2.0	3.0	20.0	3.0	7.8	5.3		
5	HKH-1176	100.0	100.0	2.0	1.5	65.2	2.4	7.2	6.2		
6	AH-24007	100.0	100.0	2.5	2.5	56.8	4.2	6.9	7.0		
7	AH-01411	100.0	100.0	3.5	1.5	61.1	2.4	7.9	6.6		
8	R-03/702	96.2	98.1	3.0	2.0	12.5	4.4	7.9	5.4		
9	BVM-5	96.6	92.5	2.0	2.3	24.0	5.1	7.1	6.1		
10	BVM-6	100.0	93.8	3.0	3.3	28.0	1.8	7.4	5.8		
11	X-1182 D	95.8	90.4	2.0	1.5	4.0	5.5	7.5	4.7		
12	X-1182 K	75.9	92.0	2.0	1.5	4.0	2.7	4.9	5.0		
13	JKMH-1701	91.7	100.0	2.5	1.8	6.2	3.7	6.5	4.8		
14	X-2097	96.4	96.3	3.0	1.8	20.0	3.2	6.4	5.1		
AET 1st YEAR (EXTRA EARLY MATURITY)											
15	DEH-10103	100.0	89.4	3.0	2.5	24.0	3.9	5.0	6.8		
16	DEH-10303	93.8	90.0	2.0	2.5	17.0	4.7	6.9	7.7		
17	DEH-10503	100.0	100.0	2.5	2.3	40.0	5.5	7.9	5.2		
18	DEH-11303	100.0	100.0	3.0	2.0	20.0	6.7	7.1	6.2		
19	FH-3211	100.0	100.0	2.0	4.8	40.0	2.8	8.5	4.5		
20	BVM-7	96.6	91.6	2.0	2.5	32.0	7.1	7.9	6.6		
21	JKMH-204-1	100.0	96.7	3.0	2.0	23.5	4.3	6.9	5.9		
22	HKH-1183	100.0	100.0	3.6	2.0	42.8	5.6	6.9	5.3		
23	AH-23021	100.0	100.0	2.5	2.3	28.0	3.1	7.1	6.6		
24	AH-23025	100.0	95.9	2.0	2.0	40.9	2.1	6.5	6.9		
25	AH-23035	100.0	96.0	3.0	2.0	8.3	2.9	6.6	6.2		

Table No 7

SL. NO	Pedigree	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH	P. RUST (1-5) NAG
1	FH-3259	55.1	8.3	2.3	3.0
2	JH-31005	49.0	0.0	1.3	2.0
3	JH-31036	48.2	7.1	1.0	2.5
4	JH-3984	73.5	15.1	3.5	2.5
5	HKH-1178	50.9	0.0	2.0	4.0
6	AH-24007	42.0	6.6	1.0	4.5
7	AH-01411	26.2	66.6	1.0	1.0
8	R-03702	17.7	9.0	1.0	3.0
9	BVM-6	43.7	33.3	2.8	1.0
10	BVM-8	47.8	13.5	2.5	1.5
11	X-1182 D	56.6	0.0	3.0	3.0
12	X-1182 K	50.3	20.0	2.3	2.0
13	JKMH-1701	64.2	14.1	2.5	3.5
14	X-2097	39.2	0.0	2.6	2.0
	AET 1st YEAR (EXTRA EARLY MATURITY)				
15	DEH-10103	27.0	12.6	1.0	2.5
16	DEH-10303	36.2	37.6	1.0	3.5
17	DEH-10503	24.4	27.2	2.3	3.0
18	DEH-11303	22.2	18.1	1.0	3.5
19	FH-3211	63.3	16.6	2.5	1.0
20	BVM-7	34.1	16.6	1.5	3.5
21	JKMH-204-1	31.5	0.0	1.0	3.0
22	HKH-1183	76.0	14.2	1.0	3.5
23	AH-23021	51.7	0.0	1.8	4.0
24	AH-23025	52.6	0.0	2.8	3.5
25	AH-23035	32.5	9.0	1.8	1.0

Table No 7

SL. NO	Pedigree	ESR (%)	DHAU	PANT	C. RUST (1-5) ARBH	P. Rust (1-5) NAG
26	AH-23039	23.4	11.7		1.8	3.5
27	AET 2nd YEAR (EARLY MATURITY)	94.0	0.0		1.0	4.0
28	JH-3851	63.4	30.7		2.0	2.5
29	BH-2862	22.2	0.0		1.0	1.0
30	PMZ-135	38.2	0.0		1.0	4.5
31	PMZ-138	37.0	0.0		1.3	2.5
32	MCH-5	55.3	16.6		1.3	1.0
33	MCH-6	53.7	21.4		1.3	3.5
34	JKMH-810	40.0	7.6		1.0	3.5
35	X-2182	90.0	13.1		2.0	2.0
	EXTRA EARLY MATURITY					
36	FH-3210	52.2	10.5		1.0	2.5
37	CHECKS	46.2	17.5		2.8	1.0
38	KIRAN	67.3	11.1		3.3	2.5
39	MAHI KANCHAN	37.2	9.0		3.3	2.0
40	X-3342	58.1	13.3		2.3	4.0
41	PARKASH	34.2	25.8		1.0	3.4
42	HIM-129	50.0	40.0		2.0	4.0
43	SURYA	8.6	13.3		2.0	NG
	CM-500					
	LOCAL					
	Local					
	Basel	10.8			1.0	3.5
	Pragati	2.4			1.0	
	CM-202(S)					MA1120
	CI-4					

Table No.8 Evaluation of maize genotypes (medium maturity) against diseases during kharif 2004- Trial No.76

SL. NO	Pedigree	MLB (1-5)	DHAU	JASH	DHO	DEL	LUD	KAR	BAJ	
1	BH-3443	1.3	1.0	2.3	2.4	2.0	2.0	2.3	-	
2	L-134	1.5	1.0	3.0	3.9	2.5	1.5	2.7	1.0	
3	E	1.5	2.0	3.8	3.8	2.5	1.5	3.0	-	
4	EH-31079	2.5	3.0	3.5	4.0	2.5	3.0	3.6	-	
5	HKH-1200	2.0	3.0	2.8	4.0	1.5	2.0	2.5	-	
6	AH-017046	1.5	2.5	3.5	3.4	2.0	1.5	3.0	2.0	
7	AH-23071	1.5	2.0	3.3	2.7	2.5	1.5	2.4	2.0	
8	AH-24008	1.5	1.0	2.8	3.4	2.0	2.0	2.6	1.0	
9	PMZ-136	1.8	1.0	2.3	3.2	1.5	2.0	3.2	1.0	
10	BIO-22069	1.5	1.0	2.8	3.5	2.0	1.5	2.4	1.0	
11	X-2005	1.5	1.0	2.8	2.0	1.5	1.5	2.0	1.0	
AET 2nd YEAR (MEDIUM MATURITY)										
12	EC-3121	1.8	2.0	3.8	3.7	2.5	2.5	3.6	1.0	
13	BH-2359	1.8	1.0	2.3	2.0	1.5	1.5	3.2	-	
14	HKH-1203	1.5	1.0	2.5	2.0	2.5	2.5	2.6	1.0	
15	HKH-1208	1.5	1.0	1.5	2.5	1.5	1.8	2.2	0.5	
16	JKMH-1001	1.5	2.0	2.8	3.0	2.0	1.0	3.0	-	
17	SEEDTEC-1081	1.5	1.5	2.0	2.6	2.0	1.8	2.3	1.0	
18	PMZ-131	1.0	1.0	2.5	2.3	2.5	1.0	2.3	1.0	
19	PMZ-237	1.3	2.0	2.5	2.2	1.5	2.0	3.3	1.0	
20	NECH-120	1.3	1.0	1.8	2.7	1.5	2.5	2.3	-	
21	X-26	2.8	3.0	3.3	3.7	3.5	3.0	3.6	2.0	
CHECKS										
22	NAVJOT	1.8	1.0	3.5	3.4	2.5	2.0	3.3	2.0	
23	KH 510	1.3	1.0	3.0	3.2	1.5	1.5	2.5	2.0	
24	CM-500	1.0	1.0	3.5	4.0	2.5	2.5	3.0	2.0	
25	LOCAL	NS	1.0	3.3	4.3	-	1.5	4.5	2.0	
				3.3	4.5		1.5	4.5	2.0	

Novjot CML186 Local Paras(S) IKI-1341(R Early Com.

Table No.8

SL NO	Pedigree	TLB (1-6) ALM	ARB	NAG	COIM	BAJ	BLSB (1-5) PANT	DEL	BAJ	
1	BH-3443	3.3	3.0	3.5	1.5	3.5	2.8	3.0	1.0	
2	L-134	3.3	2.5	3.5	1.5	1.5	2.8	3.0	2.0	
3	EH-30869	3.5	4.0	2.5	0.0	3.5	3.3	3.5	2.0	
4	EH-31079	3.3	3.5	2.0	1.5	3.5	2.8	3.5	2.0	
5	HKH-1200	3.0	2.0	2.0	1.5	1.5	2.3	4.0	1.0	
6	AH-017045	3.3	3.0	3.5	1.0	3.0	3.3	3.5	1.0	
7	AH-23071	3.0	3.3	3.5	1.5	3.5	2.5	3.5	2.0	
8	AH-24008	3.0	4.5	2.0	1.5	4.0	3.5	3.0	1.0	
9	PMZ-138	2.5	2.3	2.0	1.0	1.5	3.3	2.5	2.0	
10	BIO-22089	1.3	2.0	2.0	1.5	1.0	2.6	3.0	3.0	
11	X-2005	2.3	2.0	4.5	2.5	2.0	2.3	3.5	2.0	
AET 2nd YEAR (MEDIUM MATURITY)										
12	EC-3121	2.6	3.0	2.5	1.0	3.5	2.5	3.5	-	
13	BH-2359	3.0	2.8	2.0	1.5	3.5	2.5	3.0	1.0	
14	HKH-1203	3.0	3.0	3.5	1.0	4.0	3.0	3.5	2.0	
15	HKH-1208	3.0	2.5	4.5	2.0	3.5	3.3	3.5	1.0	
16	JKMH-1001	2.0	2.0	3.5	2.5	1.5	2.8	3.5	1.0	
17	SEEDTEC-1081	3.0	2.0	3.5	1.0	2.0	2.8	3.5	1.0	
18	PMZ-131	2.3	2.0	3.5	2.5	2.0	2.3	3.5	-	
19	PMZ-237	1.8	2.3	2.5	1.0	1.0	3.0	4.0	0.5	
20	NECH-120	2.3	1.0	3.5	1.0	2.5	2.5	3.5	0.5	
21	X-28	1.3	3.5	4.5	2.5	2.0	2.5	3.5	1.0	
CHECKS										
22	NAVJOT	2.3	3.0	3.5	2.5	3.5	2.8	3.5	1.0	
23	KH 610	1.6	2.0	2.0	2.5	3.5	3.0	4.0	1.0	
24	CM-500	2.3	4.0	3.0	2.0	3.5	2.5	3.5	1.0	
25	LOCAL	NS	2.3	NG	1.0	4.0	3.5	-	-	
			6.0	4.5	1.5		3.8		2.0	
			2.0				3.3			
			CM-202(S) CH-1	MA120(S)	CM-500	Early comp.	Basl Pragati		Early comp.	

Table No.8

SL NO	Pedigree	SDM (%)	COIM	BSDM (1-6)	PANT	RDM UDP	PFSR (1-9)	HYD	UDP	
1	BH-3443	100.0	100.0	2.0	1.8	72.0	LUD	7.8	4.6	
2	L-134	100.0	100.0	3.0	1.8	41.8	LUD	7.8	5.4	
3	EH-30669	100.0	98.8	3.0	2.8	57.1	LUD	7.6	7.1	
4	EH-31079	95.2	98.3	2.0	1.5	54.6	LUD	7.3	4.3	
5	HKH-1200	100.0	100.0	3.0	2.3	72.0	LUD	4.7	2.8	
6	AH-017045	96.3	100.0	2.0	2.5	60.0	LUD	7.3	4.4	
7	AH-23071	100.0	98.8	3.0	2.3	36.3	LUD	7.5	5.6	
8	AH-24008	100.0	100.0	3.0	2.5	50.0	LUD	7.9	7.2	
9	PMZ-136	82.1	95.9	3.0	1.5	17.0	LUD	7.8	2.8	
10	BIO-22069	53.8	95.8	1.0	2.5	20.0	LUD	7.9	5.6	
11	X-2005	96.3	98.8	2.0	1.5	8.6	LUD	7.6	4.5	
AET 2nd YEAR (MEDIUM MATURITY)										
12	EC-3121	91.7	100.0	2.5	2.3	29.1	LUD	7.8	5.8	
13	BH-2359	100.0	100.0	3.0	1.5	68.0	LUD	7.5	4.5	
14	HKH-1203	100.0	100.0	1.5	1.8	64.0	LUD	7.8	6.7	
15	HKH-1208	100.0	100.0	1.0	1.5	25.0	LUD	7.2	7.5	
16	JKMH-1001	19.4	70.0	2.0	2.0	0.0	LUD	7.9	6.8	
17	SEEDTEC-1081	74.1	91.5	2.0	1.5	16.0	LUD	6.8	3.0	
18	PMZ-131	94.1	58.9	2.5	1.8	8.0	LUD	7.7	4.1	
19	PMZ-237	87.1	95.9	2.0	2.3	0.0	LUD	8.1	3.3	
20	NECH-120	100.0	100.0	3.0	2.5	24.0	LUD	4.9	4.3	
21	X-26	40.0	69.3	2.0	1.5	0.0	LUD	7.9	5.7	
CHECKS										
22	NAVJOT	100.0	100.0	3.0	3.0	47.0	LUD	7.6	6.3	
23	KH 510	82.1	83.3	2.0	1.8	12.0	LUD	7.6	3.5	
24	CM-500	100.0	100.0	2.0	2.0	47.3	LUD	7.4	7.1	
25	LOCAL	38.7	100.0	1.5	3.5	0.0	LUD	7.9	5.8	
		100.0	100.0		3.9	28.0	LUD	8.4	6.2	
					2.4	28.0	LUD			
		CM-500	CM-500		Basal Pragati	L-check(W) L-check(Y)	Paras	CM-500	Local	

Table No.8

SL NO	Pedgree	ESR (%)	PANT	C. RUST (1-5) ARBH	P. Rust (1-5) NAG
1	BH-3443	36.9	14.3	3.3	4.0
2	L-134	35.7	10.0	3.4	1.5
3	EH-30869	52.3	13.1	3.5	2.5
4	EH-31079	28.9	28.5	2.0	1.0
5	HKA-1200	37.5	13.3	3.0	2.5
6	AH-017045	72.0	7.8	4.5	1.0
7	AH-23071	83.7	0.0	2.0	2.5
8	AH-24008	65.8	13.3	1.0	3.5
9	PMZ-136	58.0	0.0	2.5	3.5
10	BIO-22089	20.9	7.6	1.8	2.5
11	X-2005	13.2	0.0	4.0	3.0
AET 2nd YEAR (MEDIUM MATURITY)					
12	EC-3121	40.7	18.1	3.0	2.5
13	BH-2359	27.6	13.8	2.3	2.0
14	HKA-1203	18.4	33.3	2.3	3.0
15	HKA-1208	24.0	0.0	1.8	1.5
16	JMH-1001	38.0	5.5	1.0	2.5
17	SEEDTEC-1081	13.8	60.0	1.0	2.5
18	PMZ-131	35.8	6.8	3.8	4.5
19	PMZ-237	45.1	28.5	2.3	2.5
20	NECH-120	33.3	0.0	1.0	2.5
21	X-28	51.5	16.6	2.0	1.0
CHECKS					
22	NAVJOT	46.6	11.9	2.3	3.0
23	KH 510	0.0	33.3	2.0	2.5
24	CM-500	19.1	0.0	2.0	1.5
25	LOCAL	7.3	30.7	1.0	NG
			10.8	3.3	3.0
			2.4	1.0	
			Basal Pringed	CM-202(S) CI-4	MAJ120

Table No.9 Evaluation of maize genotypes (full-season maturity) against diseases during kharif 2004 - Trial No.77

SL NO	Pedigree	MLB (1-5)	ALM	DHAU	JASH	DHO	DEL	LUD	KAR	BAU
1	JH-10855	1.0	1.0	1.0	1.5	2.3	1.5	1.5	1.5	-
2	JC 1441 C3 FS	1.8	1.0	1.0	2.3	2.9	2.0	2.0	1.5	-
3	BH-3301	1.3	2.0	2.0	2.0	2.7	1.5	2.3	1.5	-
4	BH-3313	1.3	2.0	2.0	2.0	2.5	1.5	3.0	1.5	-
5	BH-3315	1.3	2.0	2.0	3.0	4.3	2.5	3.0	2.5	-
6	BH-3316	1.0	1.0	1.0	2.5	4.0	2.5	2.8	2.2	-
7	MH-01-1	1.8	3.0	3.0	4.0	4.2	3.0	3.0	2.5	2.0
8	MH-01-2	1.8	2.0	2.0	3.0	2.4	2.5	1.5	1.5	1.0
9	MH-01-3	1.0	2.0	2.0	1.8	4.0	-	1.5	1.0	1.0
10	MH-01-4	1.5	2.5	2.5	2.3	4.0	2.0	2.5	2.0	1.0
11	PMZ-235	1.5	2.5	2.5	2.3	3.9	2.0	2.0	1.0	-
AET 2nd YEAR (FULL SEASON MATURITY)										
12	ROBUST	1.5	3.0	3.0	2.5	4.2	1.5	3.3	1.0	-
13	NECH-117	1.0	2.0	2.0	1.5	2.7	1.5	1.5	1.0	0.5
14	MCH-1	1.0	1.5	1.5	2.5	3.0	2.0	1.8	1.0	-
15	MCH-2	1.0	1.0	1.0	1.3	2.6	1.5	1.8	1.0	-
CHECKS										
16	PARBHAT	1.3	2.0	2.0	2.8	3.8	2.0	2.8	2.0	-
17	BIO-9881	1.5	2.0	2.0	2.8	4.0	2.5	2.5	2.0	-
18	PRO-311	1.5	2.0	2.0	2.8	2.4	2.0	2.8	2.0	0.5
19	SEEDTEC-2324	1.5	2.0	2.0	2.0	4.2	2.0	2.0	1.0	-
20	CM-500	1.5	3.0	3.0	3.5	4.0	2.0	3.0	1.5	-
21	LOCAL (SUSCEPTIBLE CHECK)	NSC	2.0	2.0	3.0	4.4	1.5	2.5	2.5	2.0
					3.3	4.5		2.5	4.0	2.0

Novjot CML186 Paras(S) -KJ-1341(R)

Local

Option Button 1

Table No.9

SL. NO	Pedigree	TLB (1-5) ALM	ARB	NAG	COIM	BAJ	BLSB (1-5) PANT	DEL	BAJ	
1	JH-10855	1.3	2.0	2.5	2.0	0.5	2.0	3.5	3.0	
2	JC 1441 C3 FS	2.8	2.8	3.5	2.5	2.0	2.3	3.5	1.0	
3	BH-3301	2.8	3.0	3.5	2.5	2.5	2.5	3.0	-	
4	BH-3313	2.8	2.0	4.0	2.0	0.5	2.5	3.5	3.0	
5	BH-3315	3.5	4.8	4.5	1.0	4.5	2.8	3.0	3.0	
6	BH-3316	3.8	4.3	2.0	3.0	3.5	3.0	3.0	3.0	
7	MH-01-1	3.5	2.0	2.5	2.0	3.0	3.0	4.0	2.0	
8	MH-01-2	3.5	3.0	4.0	1.0	4.0	3.0	3.0	2.0	
9	MH-01-3	2.5	3.0	4.5	1.0	2.0	2.8	-	1.0	
10	MH-01-4	2.5	4.0	2.5	1.5	3.5	2.8	3.0	1.0	
11	PMZ-235	2.8	3.3	2.5	2.5	0.5	2.8	3.0	1.0	
AET 2nd YEAR (FULL SEASON MATURITY)										
12	ROBUST	2.3	2.3	2.0	2.0	0.5	2.8	3.5	1.0	
13	NECH-117	2.0	2.5	3.5	1.0	0.5	2.8	3.5	3.0	
14	MCH-1	2.3	2.6	4.5	2.0	0.5	2.5	3.0	0.5	
15	MCH-2	1.3	1.8	3.5	1.0	-	2.0	2.5	-	
CHECKS										
16	PARBHAT	3.0	2.0	4.5	2.0	2.0	2.0	3.0	1.0	
17	BIO-8881	1.3	2.7	3.5	2.0	0.5	2.5	3.5	-	
18	PRO-311	2.5	2.5	2.0	2.5	1.5	2.8	3.5	-	
19	SEEDTEC-2324	2.8	2.8	3.5	3.0	1.5	2.8	4.0	-	
20	CM-500	3.0	4.3	3.5	1.0	0.5	2.5	3.5	2.0	
21	LOCAL (SUSCEPTIBLE CHECK)	NS	4.0	NG	2.0	2.0	2.8	3.5	1.0	
CM-202(S) MAI120(S) CM-500										
		6.0	5.0	5.0	1.5	4.0	3.8		2.0	
		2.0					3.3			
		CM-202(S) CI-4		MAI120(S)	CM-500	Early comp.	Basi Pragati		Early comp.	

Table No.9

SL. NO	Pedigree	SDM (%)		BSDM (1-5)		RDM		PFSR (1-9)		UDP
		MAND	COIM	DHAU	PANT	UDP	LUD	HYD		
1	JH-10655	54.5	89.6	1.5	1.8	0.0	2.5	7.9	5.0	
2	JC 1441 C3 FS	100.0	98.3	2.0	2.5	45.8	2.5	7.8	7.1	
3	BH-3301	100.0	100.0	2.0	3.5	60.0	2.1	7.8	5.2	
4	BH-3313	100.0	81.3	1.5	1.8	14.2	3.7	7.3	4.8	
5	BH-3315	100.0	100.0	1.5	3.6	73.6	3.7	7.5	7.2	
6	BH-3316	100.0	100.0	2.5	2.3	92.0	2.6	7.6	5.7	
7	MH-01-1	100.0	100.0	3.0	3.0	80.0	2.8	8.1	8.2	
8	MH-01-2	100.0	95.9	2.5	2.3	46.6	2.6	6.9	7.7	
9	MH-01-3	96.3	94.0	2.0	1.8	20.0	3.9	7.6	7.4	
10	MH-01-4	96.6	85.7	1.5	2.5	4.0	2.5	7.8	7.6	
11	PMZ-235	94.3	78.0	1.5	1.8	4.0	4.1	7.6	5.4	
AET 2nd YEAR (FULL SEASON MATURITY)										
12	ROBUST	93.8	85.4	2.0	2.3	8.6	3.6	7.8	5.5	
13	NECH-117	100.0	93.7	2.5	1.5	8.0	2.8	7.8	4.7	
14	MCH-1	100.0	91.7	2.0	1.5	12.5	2.8	8.2	8.1	
15	MCH-2	87.5	92.6	2.5	1.5	4.0	2.1	8.0	4.5	
CHECKS										
16	PARBHAT	96.8	91.7	3.0	2.0	24.0	3.1	7.9	4.9	
17	BIO-9681	20.0	75.5	2.5	2.0	0.0	3.7	7.7	6.0	
18	PRO-311	42.4	64.0	3.5	2.5	12.0	2.7	7.9	4.7	
19	SEEDTEC-2324	77.4	79.2	2.5	1.8	52.0	3.4	7.8	3.7	
20	CM-500	100.0	100.0	2.5	2.3	44.0	6.6	7.7	6.6	
21	LOCAL (SUSCEPTIBLE CHECK)	81.3	100.0	2.0	3.3		3.7	7.9		
		100.0	100.0		3.9	52.1	3.4	8.4	5.1	
		CM-500	CM-500	Local	Basal Pragati	L-check(W)	Paras	CM-600	Local	

Table No.9

SL NO	Pedigree	ESR (%) DHAU	PANT	C. RUST (1-5) ARBH	P. Rust (1-5) NAG
1	JH-10865	34.2	0.0	1.0	1.0
2	JC 1441 C3FS	32.4	13.3	2.5	2.5
3	BH-3301	27.2	0.0	2.6	2.5
4	BH-3313	22.7	20.0	1.0	1.0
5	BH-3315	21.4	16.2	3.0	1.0
6	BH-3316	38.1	0.0	1.0	1.0
7	MH-01-1	42.8	0.0	2.8	1.0
8	MH-01-2	43.4	10.0	1.0	1.0
9	MH-01-3	34.2	6.2	2.0	2.5
10	MH-01-4	0.0	6.2	1.5	1.0
11	PMZ-235	45.4	14.2	2.0	1.0
AET 2nd YEAR (FULL SEASON MATURITY)					
12	ROBUST	58.8	10.0	1.0	1.0
13	NECH-117	29.0	5.2	1.0	1.0
14	MCH-1	65.0	0.0	1.0	3.5
15	MCH-2	100.0	5.0	1.0	1.0
CHECKS					
16	PARBHAT	24.3	0.0	1.3	2.0
17	BIO-9981	17.0	9.0	1.5	3.0
18	PRO-311	34.6	0.0	1.5	1.0
19	SEEDTEC-2324	21.9	7.6	1.0	1.0
20	CM-500	23.0	8.3	2.0	1.0
21	LOCAL (SUSCEPTIBLE CHECK)	8.6	12.8	2.0	NG
		10.8	10.8	1.0	3.0
		2.4	2.4	1.0	
		Best	Best	CM-202(S)	MAI120
		Pragati	Pragati	CH-4	CH-4

Table 10: Trap Nursery 2004 Kharif

S.No.	Pedigree	MILB (1-5) ALM	BAU	DHAU	DHO	DEL	LUD	PANT	JASH	KAR
1	CM 105	1.5	-	2.0	3.8	1.5	3.0	1.0	2.0	2.0
2	CM 111	1.3	-	3.5	3.0	2.0	2.0	1.0	2.5	2.5
3	CM 115	1.8	-	3.0	2.8	2.0	4.0	1.0	3.0	2.5
4	CM 116	1.3	1.0	3.0	3.2	2.0	2.0	3.0	3.0	2.5
5	CM 125	2.3	-	4.0	3.0	3.0	3.0	-	2.5	2.5
6	CM 126	2.0	0.5	3.0	2.7	3.0	3.5	1.0	1.5	3.0
7	CM 127	NG	NG	3.0	3.0	-	-	-	-	2.5
8	CM 128	1.8	0.5	3.5	2.9	2.0	2.0	1.0	3.5	2.0
9	CM 129	1.3	0.5	2.0	3	2.0	2.5	1.0	-	2.0
10	CM 132	1.5	-	3.0	2.8	2.5	1.5	1.0	2.5	Nil
11	CM 207	1.0	-	2.0	2.7	2.6	2.0	1.0	1.5	-
12	CM 500	1.3	-	2.0	2.4	1.5	1.5	1.0	3.0	Nil
13	CM 501	1.0	-	3.0	2.2	1.5	2.0	1.0	1.5	Nil
14	CM 502	1.8	3.0	2.5	2.7	1.5	2.0	1.0	1.5	-
15	CM 601	2.5	1.5	2.0	3.9	2.0	4.0	1.0	1.5	-

Table 10:

S.No.	Pedigree	TLB (1-5) ALM	BAJ	KOL	DHO	ARBH	NAG	BSDM (1-5)		SDM (%)	
								DHAU	PANT	MAND	MAND
1	CM 105	1.3	-	2.5	1.5	1.5	2.0	2.5	1.5	90.0	
2	CM 111	1.5	1.5	1.7	3.0	3.0	2.5	2.0	2.0	77.7	
3	CM 115	1.8	2.5	3.7	4.0	4.0	2.0	2.0	3.5	55.5	
4	CM 116	1.8	2.0	2.7	3.0	3.0	3.0	3.0	2.0	66.6	
5	CM 125	1.8	1.5	2.8	3.0	3.0	2.5	3.0	-	100.0	
6	CM 126	2.3	1.0	1.8	4.5	4.5	2.5	2.0	2.5	100.0	
7	CM 127	NG		1.2	4.5	4.5	NG	2.0	-	NG	
8	CM 128	2.5	2.0	2.0	3.0	3.0	3.5	2.0	2.0	100.0	
9	CM 129	1.3	1.0	3.2	3.0	3.0	3.0	2.0	1.0	0.0	
10	CM 132	2.0	0.5	1.5	2.0	2.0	3.0	3.0	2.0	61.5	
11	CM 207	2.0	3.0	1.8	2.0	2.0	3.5	2.0	2.5	90.0	
12	CM 500	1.5	0.5	1.0	2.0	2.0	4.0	2.0	1.0	38.8	
13	CM 501	1.3	2.0	1.0	2.5	2.5	2.0	3.5	1.0	10.0	
14	CM 502	1.5	2.0	0.7	2.2	2.2	2.5	2.0	1.0	NG	
15	CM 601	2.5	3.0	1.2	4.0	4.0	4.0	2.5	2.5	100.0	
					4.8	4.8					
					1.0	1.0					

CM 188 CM-202
LOCAL GL 4

Table 10:

S.No.	Pedigree	BLSB (1-5) BAJ	DHAU	DHO	PANT	JASH
1	CM 105	2.0	-	-	2.5	3.5
2	CM 111	1.0	3.0	-	2.0	4.0
3	CM 115	3.0	2.0	4.0	3.0	3.0
4	CM 116	2.0	2.0	-	2.5	4.0
5	CM 125	-	4.0	-	-	4.0
6	CM 126	-	3.0	8.0	2.0	4.0
7	CM 127	-	3.0	-	-	-
8	CM 128	1.0	1.5	-	2.5	4.0
9		0.5	2.0	8.0	3.0	-
10	CM 132	2.0	2.0	-	2.5	4.0
11	CM 207	0.5	2.5	-	2.0	3.0
12	CM 500	2.5	1.0	8.0	2.0	3.0
13	CM 501	1.5	3.0	-	2.0	3.0
14	CM 502	1.5	2.5	-	2.5	3.0
15	CM 601	3.0	3.5	8.0	3.5	3.0

Table 10:

S.No.	Pedigree	ESR %		Brown Spot(1-5)		Curvularia leaf spot (1-5)		Seed Rot (%)		C.Rust (1-5)	
		DHAU	PANT	DHAU	BAJ	DHAU	JASH	JASH	ARBH	ARBH	
1	CM 105	11.1	0.0	-	-	2.0	2.0	20.0	1.0	1.0	
2	CM 111	21.7	0.0	2.0	1.0	3.0	1.5	20.0	1.0	1.0	
3	CM 115	24.5	0.0	3.0	5.0	1.0	1.0	18.7	1.0	1.0	
4	CM 116	13.3	0.0	2.0	0.5	2.5	1.5	17.4	3.0	3.0	
5	CM 125	20.1	-	3.0	1.0	2.0	1.0	43.5	4.0	4.0	
6	CM 126	25.4	0.0	3.0	-	2.0	1.0	63.3	2.0	2.0	
7	CM 127	28.6	-	-	-	1.5	-	64.3	2.0	2.0	
8	CM 128	28.8	0.0	2.0	0.5	3.0	1.5	32.6	2.0	2.0	
9	CM 129	23.4	0.0	1.0	0.5	1.0	-	83.7	2.0	2.0	
10	CM 132	18.6	0.0	3.5	0.5	2.0	1.0	37.7	1.0	1.0	
11	CM 207	7.1	0.0	3.0	-	2.0	2.0	23.4	1.0	1.0	
12	CM 500	9.1	0.0	2.5	1.0	1.0	2.0	16.7	1.0	1.0	
13	CM 501	0.0	0.0	2.5	-	1.0	1.5	37.0	1.0	1.0	
14	CM 502	13.3	0.0	3.0	-	1.0	1.0	26.7	1.0	1.0	
15	CM 601	17.6	0.0	3.0	2.0	1.0	1.0	30.8	2.0	2.0	

CM-202
CL 4

Table 11: Evaluation of diseases in QPM 1 during 2004 kharif

S.No.	Pedigree	MLB (1-5)		DHO	LUD	BLSB (1-5)		PFSR (1-9)		LUD
		DEL	DEL			DEL	HYD			
1	D QPMC-3 (Y)	3.5	3.8	1.8	3.5	7.4	4.1			
2	D QPMC-4 (W)	1.5	2.9	1.5	3.5	7.5	3.1			
3	BVM-8	2.0	4.0	2.8	3.5	7.1	3.4			
4	BQPMH-41	2.0	2.0	2.5	3.0	7.5	3.9			
5	BQPMH-43	1.5	2.2	1.5	3.5	7.4	2.4			
6	BQPMH-46	1.5	2.0	1.0	3.0	7.5	3.5			
7	BQPMH-50	2.0	2.4	1.5	3.5	7.5	3.7			
8	BQPMH-51	2.0	3.0	2.5	3.5	7.9	3.0			
9	BQPMH-52	2.0	2.8	2.5	3.5	7.4	3.0			
10	BQPMH-53	2.5	4.0	2.5	4.0	7.6	3.0			
11	BAJQPM-5	2.0	4.2	1.0	3.5	7.5	3.3			
12	HQPM-4	2.5	2.0	1.5	3.5	7.1	2.2			
13	HQPM-5	2.0	2.2	1.5	3.5	7.3	1.9			
14	DMRQPM-17-x0-x0 X	2.5	4.2	1.5	3.5	8.0	3.0			
15	DMRQPM-58-x0-x0 X	2.0	3.7	1.0	3.0	7.6	2.2			
16	DMRQPM-03-x101 X	2.0	4.0	2.0	3.5	7.8	2.9			
17	DMRQPM-03-x106 X	2.0	4.2	1.5	3.5	7.8	2.4			
18	DMRQPM-75-x0-x0 X	2.5	2.2	2.5	4.0	7.9	2.9			
19	DMRQPM-17-x0-x0 X	1.5	2.3	1.5	3.5	5.0	2.3			
20	DMRQPM-17-x0-x0 X	2.5	2.9	1.5	3.5	7.8	4.1			
	CHECKS									
	SHAKTIMAN-1									
	PRO-311									
	SHAKTI-1									
			4.5	2.3		8.4	2.2			
			CML-186 Local	Paras		CM 600	Parse			

Table 12: Evaluation of diseases in QPM-2 during 2004 kharif

S.No.	Pedigree	MLB (1-5)		DHO		LUD		BLSB (1-5)		PFSR (1-9)		LUD	
		DEL						DEL		HYD			
1	HQPM-1	2.0		2.4	2.5	3.0		3.0		6.8		2.6	
2	HQPM-2	2.0		3.2	2.0	3.5		3.5		6.8		5.8	
3	HQPM-3	2.0		2.7	2.5	3.0		3.0		6.8		3.4	
4	B-QPM-31	-		3.8	2.8	-		-		6.5		5.5	
5	B-QPM-32	1.5		4.2	2.3	3.5		3.5		7.4		4.6	
6	B-QPM-33	2.5		2.4	2.0	3.5		3.5		7.2		5.3	
7	JH QPM-41	2.0		4.0	2.5	4.0		4.0		7.2		4.8	
8	JH QPM-83	2.0		3.9	2.0	3.5		3.5		6.9		5.1	
9	JH QPM-155	2.0		4.3	2.8	4.0		4.0		4.9		6.4	
10	JH wx-29	2.0		2.4	2.3	3.0		3.0		7.6		4.5	
11	SHAKTIMAN-1	2.0		3.8	2.0	3.0		3.0		7.5		5.3	
12	PRO-311	2.0		2.4	2.5	3.5		3.5		7.8		5.1	
13	SHAKTI-1	3.0		4.4	2.8	4.0		4.0		7.8		5.1	
				4.5	2.5					8.4		4.5	
					1.6							4.9	
				CML-186 Local	Paras Paras					CM-600		Paras Paras	

Table 13: Evaluation of CIMMYT Collaborative material against PFSR during 2004 K

S.No.	Pedigree	PFSR (1-9) HYD	UDP	LUID	DMR	MLB (1-5) LUD
1	CM-500-2-3	6.5	4.2	5.6	4.0	2.5
2	PFSR-8-2	6.3	6.3	5.4	4.0	3.0
3	PFSR-13-5	4.5	4.5	4.2	3.0	2.0
4	173-1-x-bulk-2-x-bulk-4-1-1-1-1-2	5.8	7.9	4.6	5.0	1.5
5	SW-93D-313-23-Pop.49-S4-1-3-1-1-1-2-1-2-1-1	6.6	6.5	2.8	1.0	2.5
6	CM-117-3-2	6.7	5.0	6.3	3.0	3.0
7	CM-117-3-3	5.0	6.0	4.8	6.0	2.0
8	JCY2-2-4-1-1-1-1	4.2	4.5	4.7	1.0	1.5
9	JCY3-7-1-2-1-b-1	4.3	4.7	3.3	1.0	1.5
10	JCY3-7-1-2-1-b-2	5.2	4.2	3.7	2.0	2.0
11	JCY3-7-1-2-2-1-1	6.1	4.9	5.2	5.0	2.0
12	JCY2-1-1-b-1	5.7	5.6	5.2	3.0	3.0
13	KT x 3752 F2-7-1-1-1-B-B-B-1-1-2-1	5.2	5.9	4.0	3.0	3.5
14	(CML 25 x SE 533)-9-3-1-3-4-3-4-1-2-1	5.6	4.7	4.7	3.0	4.0
15	31024(CML 25 x SE 503)-3-1-2-1-2-3-1-1-2	5.7	6.9	5.0	3.0	3.0
16	CML-90-BB-1	6.0	7.8	5.8	7.0	2.0
17	CML 31 POB 27 C5 HC 117-1-4-B-#-#-#-4-1-1-2	5.9	6.8	3.0	5.0	2.0
18	AMATLCOHS 184-2-FIR-2-3-1-B-2	5.1	6.5	5.3	2.0	3.0
19	CM-117-2	5.1	8.0	5.3	3.0	3.0
20	KT x 3752 F2-7-1-1-B-B-B-5	5.4	4.5	3.0	1.0	3.5
21		4.6	6.8	7.6	3.0	2.5
22		4.7	6.2	4.8	1.0	1.0
23		6.0	3.7	2.7	5.0	2.5
24		5.9	7.8	6.8	2.0	1.5
25		5.7	7.0	7.3	3.0	2.0
26	CM-123-1-3	5.2	3.1	3.7	5.0	2.0
27	PFSR-8-2	4.2	5.3	4.4	3.0	3.0
28	CML 292 (Pop 28 x TSR-33-2-7-1-2 EBHB # B-2-1-1-1-3	5.7	4.1	4.4	3.0	3.0
		8.4	4.5			
		CM-500	4.9			
			L.Check (W)			
			L.Check (Y)			

Table 14: Evaluation of Pools against PFSR during 2003 K

S.No.	Pedigree	PFSR (1-9) HYD
1	PFSR (Y)-C1	5.0
2	PFSR (Y)-C0	6.0
3	PFSR (White)	6.0
4	Excis-early (White)	2.0
5	Indimyt-100	5.0
6	Indimyt-300	2.0
7	Indimyt-345	5.0

Table 15 Evaluation of maize genotypes against BSDM (1-5) at Parithagar Tr.261 during Kharif 2004

S.No.	Pedigree	BSDM (1-5)
1	NAJ-139	1.5
2	CM-111	1.7
3	Comp.8527x8516 x 1-2-7-#-5-2-2	1.5
4	Comp.8527x8551 x 8-2-1-7-B-2-2-1	2.5
5	Comp.8527x8516 x 1-2-7-5-1-1-5-2-4	1.5
6	NAJ-139 (13)	1.5
7	CM-140	2.5
8	9578 C-1	2.3
9	9883 A-1	3.3
10	Comp.85134x85164 x 1-1-6-3-2-2-4-1	4.8
11	Comp.85134x85164 x 1-1-6-3-2-2-4-2	4.3
12	IPA 34-02-f-#-#-1-4-3	2.5
	Check	2.0
	Susceptible check	1.7

Table 16 Evaluation of maize genotypes against BSDM (1-5) at Pantnagar Tr.262 during kharif 2004

S.No.	Pedigree	BSDM (1-5)
1	IPA-34-62-f-# (CM 213)-1-#	2.0
2	IPA-34-62-f-# (CM 213)-2-#	1.5
3	SC7-2-1-2-7-f	1.2
4	MAI 108-2	1.5
5	CM-111-1-#	1.7
6	5036	2.3
7	CM-136-1-1-#	1.5
8	CM-136-1-2-#	1.5
9	9678 C.1-2	1.8
10	9678 C.1-3	3.0
11	9680 F.2-2	2.5
12	9680 F.2-3	3.8
13	9679 A.1-1-#	1.7
14	9679 A.1-2-#	1.5
15	CM 142-2	2.7
16	CM 142-3	2.0
17	CM 142-3	1.0
18	CM 142-3	1.7
	R. Check	1.7
	S. Check	1.8

Table 17 Evaluation of maize genotypes against BSDM (1-5) at Pantnagar Tr.263 during kharif 2004

S.No.	Pedigree	BSDM (1-5)
1	CM 135-3-6	1.5
2	CM 135-3-8	1.5
3	CM 135-1-1	1.5
4	CM 135-1-1	1.5
5	CM 135-1-4	1.5
6	CM 137-3-#	1.5
7	CM 137-3-1	2.0
8	CM 137-3-3	4.0
9	CM 137-2	1.5
10	CM 138 (-3)-1	1.5
11	CM 138 (-3)-2	1.5
12	CM 138 (-3)-3	3.5
13	CM 138 (-3)-4	1.5
14	CM 138-4	1.5
	R. Check	2.0
	S. check	1.5

Table :18 Evaluation of composite maize varieites against diseases under natural conditions at Jashipur against MLB disease during 2004 kharif

SL. NO	Pedigree	MLB (1-5) JASH
1	Kanchan	2.0
2	Sweta	2.3
3	Gaurav	2.3
4	Surya	3.0
5	Pragati	2.3
6	Amar	2.8
7	Navin	2.8
8	Kiran	2.2
9	Pusa Comp II	2.3
10	Parbhat	2.0
11	Navjot	2.7
12	Vijaya	1.8

Table :19 Evaluation of composite maize varieites against diseases under natural conditions at Jashipur against BLSB disease during 2004 kharif

SL. NO	Pedigree	BLSB (1-5) JASH
1	Kanchan	2.2
2	Sweta	2.3
3	Gaurav	2.0
4	Surya	2.3
5	Pragati	2.5
6	Amar	2.3
7	Navin	2.0
8	Kiran	2.2
9	Pusa Comp II	2.2
10	Parbhat	2.2
11	Navjot	2.5
12	Vijaya	2.7

Table :20 Evaluation of composite maize varieties against diseases under natural conditions at Jashipur against TLB disease during 2004 kharif

SL. NO	Pedigree	TLB (1-5) JASH
1	Kanchan	1.3
2	Sweta	2.0
3	Gaurav	1.0
4	Surya	1.5
5	Pragati	1.5
6	Amar	1.0
7	Navin	1.2
8	Kiran	1.2
9	Pusa Comp II	1.3
10	Parbhat	1.2
11	Navjot	1.5
12	Vijaya	1.0

Table 21 Evaluation of S3 selfs of AMBIONET and QPM maize lines for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	SW-2000L-3085-18	33.3
2	SW-2000L-3085-21	22.2
3	SW-2000L-3085-22	46.4
4	SW-2000L-3085-26	45.8
5	SW-2000L-3085-29	0.0
6	QPM-6418	100.0
7	QPM-6419	64.7
8	QPM-6420	93.3
9	QPM-6421	100.0
10	QPM-6423	92.8
11	QPM-6424	100.0
	CM500	100.0

Table 22 Evaluation of S1 selfs of Nagenahalli maize hybrids for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	NAH-1088	18.7
2	NAH-1110	3.1
3	NAH-1115	16.0
4	NAH-1127	27.7
5	NAH-1137	25.0
6	NAH-1138	55.5
7	NAH-1144	14.3
8	NAH-1146	0.0
9	NAH-2044	29.4
10	NAH-2049	23.5
11	NAH-2075	33.3
12	NAH-2088	0.0
13	NAH-2089	12.1
14	NAH-2093	36.3
15	NAH-2095	62.8
16	NAH-2096	40.6
17	NAH-2022	80.0
18	NAH-2100	34.3
19	NAH-2101	8.6
20	NAH-234	76.4
21	Nandi-909	84.4
22	PMZ-303	91.4
23	Kanek	54.5
	CM-500	100.0

Table 23 Evaluation of S2 selfs of Nagenahalli maize hybrids for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	NAH-1100	41.6
2	NAH-1101	18.7
3	NAH-1103	23.0
4	NAH-1109	30.7
5	NAH-1112	0.0
6	NAH-1114	14.3
7	NAH-1117	7.1
8	NAH-1124	41.6
9	NAH-1127	0.0
10	NAH-1136	38.4
11	NAH-1137	50.0
12	NAH-1140	86.6
13	NAH-1141	0.0
14	NAH-1142	80.0
15	NAH-1144	0.0
16	NAH-1146	12.5
17	NAH-1153	76.4
18	NAH-1162	17.6
19	NAH-1163	17.6
20	NAH-1164	52.9
21	NAH-1165	30.7
22	NAH-1170	58.8
23	NAH-1176	73.7
24	NAH-1179	66.6
25	NAH-1182	5.5
26	NAH-1184	33.3
27	NAH-1190	11.7
28	NAH-2022	0.0
29	NAH-2024	33.3
30	NAH-2041	18.7
31	NAH-2042	5.9
	CM-500	100.0

Table 24 Evaluation of S1 selfs of Nagenahalli maize hybrids for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	NAH-1051	11.1
2	NAH-1075	20.0
3	NAH-1107	29.4
4	NAH-1109	44.1
5	NAH-1137	12.0
	CM-500	100.0

Table 25 Evaluation of S5 selfs of Mandya maize hybrids for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	MAH-1074	20.0
2	MAH-1077	11.1
3	MAH-1085	28.6
4	MAH-1088	10.0
5	MAH-1093	88.0
6	MAH-1096	0.0
7	MAH-1101	15.4
8	MAH-1107	60.7
	CM-500	100.0

Table 26 Evaluation of selfs of Nagenahalli maize inbred lines for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)	S.No.	Pedigree	SDM (%)
1	NAI-109	57.9	31	NAI-154	72.2
2	NAI-112	94.7	32	NAI-155	100.0
3	NAI-113	85.7	33	NAI-156	100.0
4	NAI-115	100.0	34	NAI-158	100.0
5	NAI-116	11.5	35	NAI-159	100.0
6	NAI-117	56.5	36	NAI-160	96.0
7	NAI-119	94.1	37	NAI-161	0.0
8	NAI-122	47.3	38	NAI-162	7.4
9	NAI-123	28.2	39	NAI-163	25.0
10	NAI-124	86.6	40	NAI-164	91.3
11	NAI-125	71.4	41	NAI-165	100.0
12	NAI-126	10.5	42	NAI-166	100.0
13	NAI-127	18.2	43	NAI-168	77.3
14	NAI-129	57.1	44	KUI-1411	96.5
15	NAI-130	0.0	45	KUI-1414A	96.9
16	NAI-132	100.0	46	CM-105	100.0
17	NAI-133	100.0	47	CM-111	85.7
18	NAI-135	7.7	48	CM-114	85.0
19	NAI-138	91.6	49	CM-118	100.0
20	NAI-139	100.0	50	CM-201	5.5
21	NAI-142	4.0	51	CM-205	91.3
22	NAI-143	86.4	52	CM-501	14.2
23	NAI-144	5.0	53	CM-600	86.6
24	NAI-146	89.3	54	MO-17	31.8
25	NAI-147	89.5	55	HI-55	100.0
26	NAI-148	40.0	56	A-419	100.0
27	NAI-149	38.4	57	A-432	100.0
28	NAI-151	70.6	58	Fla-2-At-115-1	100.0
29	NAI-152	50.0			
30	NAI-153	100.0		CM 500	96.1

Table:27 Evaluation of selfs of Mandya maize Inbred lines for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	MAI-104	97.2
2	MAI-105	3.5
3	MAI-107	12.9
4	MAI-109	75.0
5	MAI-110	100.0
6	MAI-111	41.6
7	MAI-112	69.2
8	MAI-113	96.5
9	MAI-114	80.0
10	MAI-115	100.0
11	MAI-120	81.2
12	MAI-121	87.0
	CM 500	100.0

Table:28 Evaluation of single crosses of maize Inbred lines for downy mildew (S1 selfs) at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	MAI-105 x NAI-116	9.5
2	MAI-122 x MAI-105	63.6
3	NAI-116 x MAI-105	12.1
4	NAI-116 x NAI-144	13.6
5	MAI-122 x NAI-142	37.7
6	NAI-144 x MAI-105	17.4
7	KUI-1411 x MAI-105	86.7
8	KUI-1411 x NAI-142	0.0
	CM-500	100.0

Table:29 Evaluation of CIMMYT Late maturity inbred lines for downy mildew at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	CIMMYT-5	3.1
2	CIMMYT-6	66.0
3	CIMMYT-8	0.0
4	CIMMYT-11	5.0
5	CIMMYT-13	35.7
6	CIMMYT-17	33.3
7	CIMMYT-18	15.6
8	CIMMYT-30	11.5
9	CIMMYT-31	7.1
10	CIMMYT-35	29.2
11	CIMMYT-36	64.3
12	CIMMYT-37	3.8
13	CIMMYT-38	0.0
14	CIMMYT-40	0.0
15	CIMMYT-42	2.9
16	CIMMYT-44	39.1
17	CIMMYT-45	21.7
18	CIMMYT-46	34.6
19	CIMMYT-47	21.4
	CM 500	100.0

Table 30 Evaluation of maize disease monitoring nursery Trial at Mandya during 2004 kharif

S.No.	Pedigree	SDM (%)
1	TRN-1001	76.9
2	TRN-1002	-
3	TRN-1003	57.7
4	TRN-1004	88.5
5	TRN-1005	22.7
6	TRN-1006	47.3
7	TRN-1007	43.4
8	TRN-1008	87.8
9	TRN-1009	90.2
10	TRN-1010	91.1
11	TRN-1011	85.3
12	TRN-1012	50.0
13	TRN-1013	54.5
14	TRN-1014	45.7
15	TRN-1015	44.8
16	TRN-1016	100.0
17	TRN-1017	34.5
18	TRN-1018	87.7
19	TRN-1019	73.3
20	TRN-1020	37.9
21	TRN-1021	56.0
22	TRN-1022	18.2

Table:31 Evaluation of QPM genotypes against TLB and C. rust at Mandya during 2004 kharif

S.No.	Pedigree	TLB (1-5)	C. Rust (1-5)
1	CL-171-x-#	4.0	2.0
2	DMRQPM-58-x-x-#	3.0	3.0
3	DMRQPM-75-x-x-#	4.0	1.0
4	DMRQPM-17-x-x-#	3.0	2.0
5	DMRQPM-18-x-x-#	4.5	2.0
6	DMRQPM-28-5-x-x-#	5.0	2.0
7	DMRQPM-03-101-#	5.0	2.0
8	DMRQPM-03-102-#	3.0	2.0
9	DMRQPM-03-106-#	4.0	2.0
10	DMRQPM-03-121-#	5.0	1.0
11	DMRQPM-56-#-x-#	4.0	2.0
12	DMRQPM-03-103-#	3.0	1.0
13	DMRQPM-28-3-#-x-3	4.0	1.0
14	DMRQPM-03-125-#	2.0	1.0
15	DMRQPM-03-124-#	3.0	2.0
16	CML-142	3.0	3.0
17	CML-150	5.0	2.0
18	CML-175	3.0	1.0
19	CML-186	4.0	1.0
20	CML-149	4.0	1.0
21	CML-140	4.0	1.0
22	CML-170	4.0	2.0

Table 32 Evaluation of maize genotypes against BSDM (1-5)
Trial 261 at Pantnagar during 2004 kharif

S.No.	Pedigree	BSDM (1-5)
1		1.5
2		1.0
3		1.5
4		2.5
5		1.5
6		1.0
7		3.5
8		1.5
9		4.0
10		4.5
11		4.0
12		2.5
13		3.0
14		1.5
15		1.5
16		-
17		2.5
18		5.0
19		1.5
20		1.0
21		3.0
22		3.0
23		2.0
24		2.5
25		2.5
26		4.0
27		1.5
28		2.0
29		1.5
30		1.5
31		5.0
32		2.0
33		2.0
34		1.5
35		2.0
36		1.5
37		3.5
38		3.0
39		1.5
40		2.0
41		3.0
42		5.0

Table 33 Evaluation of maize genotypes against BSDM (1-5)
Trial 262 at Pantnagar during 2004 kharif

S.No.	Pedigree	BSDM (1-5)	S.No.	Pedigree	BSDM (1-5)
1		2.0	31		2.0
2		1.5	32		2.5
3		1.5	33		2.0
4		2.0	34		2.0
5		1.5	35		1.5
6		2.5	36		1.0
7		1.5	37		1.5
8		1.5	38		2.0
9		1.5	39		1.5
10		4.0	40		2.5
11		3.5	41		1.5
12		5.0	42		3.0
13		2.0	43		2.0
14		1.5	44		1.5
15		3.0	45		2.0
16		1.5	46		1.5
17		1.0	47		1.0
18		1.0	48		2.0
19		1.5	49		1.0
20		1.5	50		1.5
21		1.5	51		1.5
22		1.0	52		1.0
23		1.5	53		2.0
24		1.0	54		2.0
25		2.5	55		1.5
26		3.0	56		1.5
27		2.0	57		1.5
28		2.0	58		1.5
29		1.5	59		4.0
30		2.5	60		2

Table 34 Evaluation of maize genotypes against BSDM (1-5)
Trial 263 at Pantnagar during 2004 kharif

S.No.	Pedigree	BSDM (1-5)	S.No.	Pedigree	BSDM (1-5)
1		1.0	31		3.5
2		1.0	32		2.0
3		1.0	33		1.5
4		1.0	34		1.5
5		1.0	35		2.0
6		1.0	36		1.5
7		1.0	37		1.5
8		4.5	38		1.5
9		2.0	39		1.5
10		1.0	40		1.5
11		1.0	41		1.5
12		3.5	42		2.0
13		3.0	43		1.5
14		2.5	44		1.5
15		2.5	45		4.0
16		2.0	46		3.5
17		2.0	47		1.5
18		1.5	48		1.5
19		1.5			
20		1.5			
21		1.5			
22		1.5			
23		1.0			
24		4.0			
25		3.5			
26		3.0			
27		2.0			
28		1.0			
29		1.0			
30		2.5			

Table 35 Evaluation of maize genotypes against BL&SB under AMBIONET at Pantnagar during 2004 kharif

S.No.	Pedigree	BLSB (1-5)	S.No.	Pedigree	BLSB (1-5)
1		5.0	43		3.0
2		3.5	44		3.5
3		2.0	45		-
4		4.5	46		3.0
5		3.5	47		-
6		3.5	48		-
7		3.0	49		5.0
8		3.5	50		-
9		3.5	51		3.5
10		3.5	52		2.0
11		4.0	53		2.5
12		-	54		-
13		5.0	55		2.5
14		4.5	56		3.0
15		4.0	57		3.5
16		3.0	58		2.5
17		3.0	59		2.0
18		2.5	60		-
19		3.5	61		2.5
20		3.5	62		2.5
21		3.0	63		2.5
22		4.0	64		2.5
23		-	65		3.5
24		-	66		3.0
25		-	67		2.5
26		3.0	68		2.0
27		3.0	69		2.5
28		-	70		2.0
29		-	71		3.0
30		5.0	72		2.5
31		-	73		2.5
32		3.0	74		2.0
33		4.0	75		2.5
34		3.5	76		2.5
35		3.0	77		2.0
36		3.0	78		2.5
37		2.5	79		3.5
38		2.5	80		3.0
39		4.0	81		2.5
40		4.5	82		4.0
41		-	83		3.0
42		3.0	84		3.0

Table 35

S.No.	Pedigree	BLSB (1-5)	S.No.	Pedigree	BLSB (1-5)
85		-	131		2.5
86		4.0	132		2.0
87		2.5	133		2.0
88		2.5	134		2.5
89		2.0	135		3.0
90		2.0	136		2.5
91		2.5	137		5.0
92		2.0	138		4.0
93		2.5	139		4.0
94		3.5	140		2.5
95		3.0	141		2.0
96		3.5	142		2.5
97		-	143		2.5
98		3.5	144		2.5
99		2.0	145		4.5
100		2.5	146		2.5
101		2.0	147		2.0
102		2.5	148		2.5
103		-	149		3.5
104		2.5	150		2.5
105		-	151		3.5
106		-	152		2.5
107		3.5	153		3.0
108		-	154		2.5
109		2.5	155		3.0
110		2.0	156		2.5
111		2.0	157		3.0
112		2.0	158		3.5
113		2.5	159		2.5
114		3.0	160		3.0
115		2.5	161		2.5
116		2.0	162		3.0
117		2.5	163		3.0
118		2.5	164		-
119		-	165		3.5
120		3.0	166		-
121		2.5	167		2.5
122		4.5	168		2.5
123		3.5	169		-
124		3.5	170		-
125		2.0	171		3.0
126		2.5	172		2.5
127		2.5	173		2.5
128		2.5	174		2.0
129		3.0	175		2.0
130		3.0	176		2.0

Table 35

S.No.	Pedigree	BLSB (1-5)
177		2.5
178		2.5
179		-
180		2.5
181		2.5
182		3.0
183		2.5
184		-
185		2.5
186		3.5
187		2.5
188		2.0
189		-
190		3.0
191		2.5
192		2.5
193		2.0
194		2.5
195		3.5
196		3.0
197		2.0
198		2.5
199		2.5
200		2.5
201		2.5
202		2.5
203		3.5
204		3.0
205		2.5
206		2.5
207		4.0
208		2.5
209		2.5
210		2.5
211		2.0
212		2.5
213		2.5
214		-
215		2.5
216		2.5
217		-
218		3.0
219		2.5
220		3.0

Table:36 Evaluation of CM lines against foliar diseases at Dhaula Kuan during kharif 2004
Dr. J.C. Shekhar

S.No.	Pedigree	MLB (1-5)	BSDM (1-5)	BLSB (1-5)	ESR (%)	Physoderma leaf spot (1-5)	Curvularia leaf spot
1	CM 105	2.0	2.0	1.0	12.1	2.0	2.0
2	CM 121	3.0	1.0	2.0	11.1	3.0	1.5
3	CM 122	4.0	2.0	2.0	16.0	2.0	2.0
4	CM 135	4.0	2.5	3.0	14.8	2.0	2.5
5	CM 136	2.0	2.0	2.0	3.9	2.5	2.0
6	CM 137	2.5	2.5	3.0	11.5	3.0	2.0
7	CM 138	3.5	2.5	2.5	3.7	2.0	3.0
8	CM 142	2.0	3.0	2.5	9.5	2.0	2.0
9	CM 207	2.0	2.0	32.0	5.2	2.5	2.0
10	CM 213	4.0	3.0	2.0	14.3	3.0	2.0
11	CM 500	2.0	2.5	2.0	9.5	2.5	1.0
12	CM 501	3.0	2.0	3.0	0.0	3.0	2.0
13	CM 600	2.5	3.0	2.5	12.7	2.0	2.0
14	CM 601	3.0	3.0	3.0	19.0	2.5	2.0

Table: 37 Evaluation of maizedisease monitoring nursery at Nagenahalli during 2004 kharif

SL. NO	Pedigree	TLB (1-5)	Polysora rust (1-5)
1	TRN-1001	3.5	2.5
2	TRN-1002	2.5	1.0
3	TRN-1003	4.0	3.0
4	TRN-1004	4.5	2.5
5	TRN-1005	3.0	1.5
6	TRN-1006	2.5	1.0
7	TRN-1007	2.5	1.5
8	TRN-1008	3.5	1.0
9	TRN-1009	3.5	1.5
10	TRN-1010	NG	NG
11	TRN-1011	5.0	1.5
12	TRN-1012	2.5	1.5
13	TRN-1013	NG	NG
14	TRN-1014	3.0	1.5
15	TRN-1015	2.5	1.5
16	TRN-1016	4.0	1.5
17	TRN-1017	NG	NG
18	TRN-1018	5.0	2.5
19	TRN-1019	5.0	2.5
20	TRN-1020	5.0	3.5
21	TRN-1021	1.5	3.5
22	TRN-1022	4.0	3.0

Table 38 Evaluation of Screening of Maize inbred lines against Turcicum leaf blight and Polysora at Nagenahalli during kharif 2004

S.No.	Pedigree	MLB (1-5)	Polysora rust	S.No.	Pedigree	MLB (1-5)	Polysora rust
1	MAI-105	2.5	1.5	45	NAI-162	3.0	1.0
2	NAI-116	2.0	1.5	46	NAI-163	3.5	1.0
3	NAI-142	2.0	1.0	47	NAI-164	4.5	1.0
4	SK-50	2.0	1.0	48	NAI-165	2.5	2.0
5	NAI-128	2.5	1.5	49	NAI-167	2.0	1.0
6	NAI-137	2.0	1.0	50	KUI-1414	2.0	1.0
7	MAI-110	2.0	3.5	51	KUI-1414A	2.0	2.5
8	NAI-102	2.0	1.0	52	MO-17	2.5	1.0
9	NAI-104	2.5	1.0	53	Fla-2-BT-115	2.0	1.5
10	NAI-108	2.0	1.0	54	HI-55	2.0	1.5
11	NAI-109	2.5	2.0	55	H-4460-Ht-3	2.0	4.0
12	NAI-112	2.0	1.0	56	CM-114	2.0	1.0
13	NAI-113	2.5	2.0	57	CM-115	2.5	3.0
14	NAI-114	2.0	1.5	58	CM-117	2.0	2.0
15	NAI-117	2.0	1.5	59	CM-119	2.0	2.5
16	NAI-119	2.0	2.0	60	CM-122	3.5	0.0
17	NAI-123	2.0	1.0	61	CM-131	3.5	2.5
18	NAI-124	2.0	1.0	62	CM-132	3.0	3.5
19	NAI-125	2.0	2.5	63	CM-205	2.5	2.0
20	NAI-126	2.0	2.0	64	CM-501	2.0	2.5
21	NAI-127	2.0	1.5	65	MAI-104	2.5	1.0
22	NAI-130	2.0	1.0	66	MAI-112	2.0	1.0
23	NAI-132	2.0	1.0	67	MAI-114	2.0	1.0
24	NAI-133	2.0	1.0	68	MAI-123	2.5	1.0
25	NAI-135	2.0	1.0	69	SKV-1	2.0	1.5
26	NAI-138	2.5	1.0	70	SKV-2	2.0	1.5
27	NAI-139	2.5	1.5	71	SKV-3	2.0	1.0
28	NAI-140	2.0	1.0	72	SKV-4	4.5	1.0
29	NAI-141	2.0	1.0	73	SKV-5	2.0	1.0
30	NAI-143	2.0	1.0	74	SKV-6E	3.5	1.0
31	NAI-145	2.5	1.0	75	SKV-6L	3.5	1.0
32	NAI-146	2.0	1.0	76	SKV-7	5.0	1.0
33	NAI-147	2.0	1.0	77	SKV-8	2.0	1.0
34	NAI-148	2.5	1.0	78	SKV-9	3.0	2.0
35	NAI-149	2.5	1.0	79	SKV-10	2.0	1.5
36	NAI-151	2.0	1.0	80	SKV-11	2.0	1.0
37	NAI-152	2.0	3.0	81	SKV-12	2.0	1.0
38	NAI-154	2.0	1.0	82	SKV-13	2.0	1.0
39	NAI-155	2.0	1.0	83	SKV-14	2.5	1.0
40	NAI-156	2.0	1.0	84	SKV-15	2.0	1.0
41	NAI-158	4.0	2.5	85	SKV-17	2.5	1.0
42	NAI-159	4.5	1.0	86	SKV-18	2.0	1.0
43	NAI-160	3.5	2.5	87	SKV-19	2.0	1.0
44	NAI-161	4.0	2.0	88	SKV-20	2.0	2.5

Table 38

S.No.	Pedigree	MLB (1-5)	Polysoa rust
89	SKV-21	2.0	1.0
90	SKV-23	2.0	1.0
91	SKV-24	2.0	1.0
92	SKV-25	2.5	2.5
93	SKV-26	2.5	1.0
94	SKV-27	2.0	1.0
95	SKV-28	2.0	1.0
96	SKV-30	3.5	2.0
97	SKV-31	4.0	4.0
98	SKV-33	2.0	1.5
99	SKV-34	2.5	2.0
100	SKV-35	3.5	1.0
101	SKV-36	3.0	1.0
102	SKV-37	2.5	1.5
103	SKV-38	2.0	1.5
104	SKV-39	3.0	1.0
105	SKV-40	3.5	1.0
106	SKV-42	4.0	1.0
107	SKV-43	2.0	1.0
108	SKV-44	2.0	1.0
109	SKV-45	2.0	2.0
110	SKV-46	2.0	1.0
111	SKV-47	3.0	2.5
112	SKV-48	2.0	1.5
113	SKV-49	2.0	1.0
114	SKV-51	2.5	1.0
115	SKV-52	2.0	1.0
116	SKV-53	2.0	1.0
117	SKV-55	2.0	1.0
118	SKV-57	3.5	1.0
119	SKV-58	2.5	2.0
120	SKV-59	2.0	1.0
121	SKV-60	2.0	2.5
122	SKV-61	2.5	1.0
123	SKV-62	2.0	2.5
124	SKV-63	2.0	1.0
125	SKV-64	4.5	1.0
126	SKV-65	2.5	1.0
127	SKV-66	2.5	1.5
128	SKV-67	2.0	1.5
129	SKV-69	2.0	1.0
130	SKV-70	2.0	1.5
131	SKV-71	2.0	1.5
132	SKV-72	2.0	2.5
133	SKV-74	3.5	2.5
134	SKV-75	2.0	2.5
135	SKV-76	3.0	1.5
	CM-208	4.5	3.0

Table:39 Evaluation of maize hybrids on multi-location trials during 2004 kharif

Sl.No.	Pedigree	TLB score (1-5)	Polysora rust (1-5)
1	AP-407 (Private check)	3.0	3.0
2	NAH-1110	1.5	1.0
3	NAC-6004 (Public check)	2.0	1.0
4	Ganga-11 (Public check)	3.5	2.0
5	MAH-1068	2.0	2.0
6	NMH-145 (Private check)	3.5	3.0
7	NAH-1144	1.5	1.0
8	NAH-2049	2.0	1.0
9	Deccan-105 (Public check)	3.0	2.0

Table:40 Evaluation of Breeder's Inbred materials at Udaipur during 2004 Kharif

SL. NO	Pedigree	FSR %	RDM%	SL. NO	Pedigree
1	EI-578	3.7	0.0	45	EI-618
2	EI-580	3.7	20.0	46	EI-619
3	EI-581	5.2	6.2	47	EI-621
4	EI-582	4.5	36.3	48	EI-622
5	EI-583	4.8	30.7	49	EI-616
6	EI-584	5.2	7.6	50	EI-478
7	EI-585	5.3	9.1	51	EI-528
8	EI-586	4.3	0.0	52	EI-481
9	EI-587	4.5	0.0	53	EI-535
10	EI-588	3.6	26.6	54	EI-496
11	EI-589	5.2	5.2	55	EI-495
12	EI-590	5.7	52.6	56	EI-532
13	EI-591	6.8	31.5	57	EI-497
14	EI-592	7.5	59.1	58	EI-477
15	EI-593	5.5	26.6	59	EI-518
16	EI-594	4.8	5.2	60	EI-460
17	EI-595	2.9	18.1	61	EI-623
18	EI-596	2.8	8.6	62	EI-624
19	EI-597	PG	0.0	63	EI-466
20	EI-598	6.5	17.6	64	EI-470
21	EI-599	3.1	36.8	65	E-471
22	EI-600	4.3	20.0	66	EI-472
23	EI-601	2.8	60.0	67	EH-30624
24	EI-602	4.2	38.8	68	EH-30969
25	EI-603	4.5	36.3	69	EH-1389
26	EI-604	3.0	45.0	70	EC-3146
27	EI-605	2.1	35.0	71	EC-3151
28	EI-606	2.8	66.6	72	EC-3144
29	EI-607	4.6	0.0	73	ECF-3135
30	EI-578	3.0	42.8	74	EC-3121
31	EI-576	4.2	35.2	75	EC-3150
32	EI-574	4.5	70.0	76	Navjot
33	EI-571	3.6	53.8	77	CM-400
34	EI-570	5.2	40.0	78	CM-500
35	EI-569	4.8	42.8	79	CM-137
36	EI-608	5.2	14.2	80	CM-600
37	EI-609	4.0	0.0	81	Mahi Kanchan
38	EI-610	5.8	25.0	82	PEHM-1
39	EI-611	4.9	0.0	83	Kiran
40	EI-612	2.2	14.2	84	ECF-3138
41	EI-613	3.5	0.0	85	Local (White)
42	EI-614	5.6	45.4	86	Local (Yellow)
43	EI-615	3.9	30.7		
44	EI-617	3.0	60.0		

PG=Poor germination
NG=Not germinated

SUMMARY KHARIF, 2004**AICMIP - NEMATOLOGY****COORDINATED TRIALS :****1. Varietal screening :**

One hundred thirty-one lines received from DMR alongwith three local check were tested against maize cyst nematode, *H. zaeae*. Out of 131 lines tested, none showed resistance (0-4 cyst/plant). However, five lines namely DMR- 1626, 1637, 1723, 1504 and 1520 showed moderate resistance (above 4-9 cyst/plant) and rest of the 126 lines were found susceptible to highly susceptible (above 9 cyst/plant) in reaction.

2. Population dynamics :

Studies on population dynamics was undertaken to find out seasonal fluctuation of maize cyst nematode in both treated as well as untreated plots. It has been observed that cyst and cyst contents were highest during October month in treated plots (cyst : 15, cyst contents 124.25) as well as in untreated plots (cyst : 23.25, cyst contents : 137.50). After harvest there has been gradual decline in population till sowing of maize.

3. Survey :

Forty -one samples were collected form un surveyed maize fields of Udaipur district. The results showed 4.33 to 7.80 cyst/plant and 2.67 to 6.40 cyst/100 cc soil with 40.00 to 66.67 % occurrence and maximum (7.80 cyst/plant and 6.40 cyst/100 cc soil) population of *H. zaeae* from Lohara.

STATION TRIALS :**4. Crop loss :**

This trial was conducted in an infested field having 1200 larvae/100 cc soil using carbofuran and neem cake @ 1.5 kg a.i./ha and 5 q/ha, respectively alongwith untreated check.

The results revealed 24.25 and 20.49 % avoidable yield loss with 46.08 and 34.78 % reduction in nematode population over check (23.00 cyst/plant) with the application of carbofuran and neem cake, respectively.

5. Management :

(A) Field trial : Field trial was conducted using neem cake and neem leaf (5 q/ha), carbofuran (1 kg a.i./ha) as soil applicant and neem cake (10 % w/w) and carbosulfan (3 % w/w) as seed dressing and combination of carbosulfan (3 % w/w) + neem cake (5 q/ha) and carbosulfan (1.5 % w/w) + neem cake (2.5 q/ha) alongwith untreated check against *H. zae* in field having 1200 larvae/100 cc soil.

The results showed maximum increase in yield (45.42 %) with the application of carbosulfan 3 % w/w + neem cake 5 q/ha followed by carbofuran 1 kg a.i./ha (35.60 %) which were significantly higher over control (22.92 q/ha). Reduction in nematode population was significantly lower with carbosulfan 3 % w/w + neem cake 5 q/ha (46.27 %) and carbofuran 1 kg a.i./ha (37.50 %) over check (26.67 cyst/plant).

(B) Pot experiment : Four organic amendments (neem cake, karanj cake, neem seed kernel and karanj seed kernel @ 10 % and 5 % w/w alongwith carbosulfan @ 3 % w/w and untreated check were evaluated against maize cyst nematode as seed dressing treated in pot at a population of 1200 larvae/100 cc soil.

Amongst organic amendments, neem seed kernel @ 10 % w/w performed best giving 28.33 % reduction in population over check followed by karanj seed kernel @ 10 % w/w (25.00 %). However, the treated check i.e. carbosulfan was observed best among all the testaments showing 36.67 % reduction in cyst population.

Table 1. Screening of maize entries/germplasm against maize cyst nematode, *Heterodera zeae* during kharif, 2004.

Cyst/plant	Name of entries/germplasm
0-4 (Resistant)	NIL
Above 4-9 (Moderately Resistant)	DMR – 1626 & DMR – 1637 (75 Early maturity) DMR – 1723 (76 Medium maturity) DMR – 1504 & DMR – 1520 (77 Full season maturity)
Above 9 (Susceptible)	75 Early maturity DMR – 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1627, 1628, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1638, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1650, 1651, 1652 Ganga-2 (Local check) 76 Medium maturity DMR – 1701, 1702, 1703, 1704, 1705, 1706, 1707, 1708, 1709, 1710, 1711, 1712, 1713, 1714, 1715, 1716, 1717, 1718, 1719, 1720, 1721, 1722, 1724, 1725, 1726, 1727, 1728, 1729, 1730, 1731, 1732, 1733, 1734, 1735, 1736, 1737, Ganga -2 (Local check) 77 Full season maturity DMR – 1501, 1502, 1503, 1505, 1506, 1507, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1521, 1522, 1523, 1524, Ganga -2 (Local check) Trap nursery CM – 105, 111, 115, 116, 125, 126, 127, 128, 129, 132, 207, 500, 501, 502, 601
No. of lines tested	= 131
Initial population	= 1200 larvae/100 cc soil
Date of sowing	= 15/7/2004

Table 2. Population dynamics of maize cyst nematode, *H. zae*

Months	Soil population/100 cc soil				E & L/cyst	
	Cyst		Larvae		Treated	Untreated
	Treated	Untreated	Treated	Untreated		
January, 2004	9.00	11.25	230.00	410.75	106.25	118.00
February, 2004	10.00	12.00	355.50	470.00	110.00	123.50
March, 2004	11.25	14.50	408.25	505.50	112.25	126.25
April, 2004	12.75	16.00	446.75	540.50	116.50	131.00
May, 2004	10.00	13.00	400.00	515.00	113.00	124.75
June, 2004	9.25	10.75	330.00	390.25	100.75	110.00
July, 2004	11.00	11.50	410.25	425.00	114.50	117.00
August, 2004	12.00	15.00	500.75	580.50	117.00	122.50
September, 2004	14.25	19.00	545.00	690.75	121.00	130.00
October, 2004	15.00	23.25	685.50	830.00	124.25	137.50
November, 2004	18.50	20.50	640.00	785.25	118.75	133.25
December, 2004	13.25	15.00	605.25	655.00	110.00	125.50

Table 3. Occurrence of maize cyst nematode, *H. zae* on maize during kharif, 2004

S.No.	Places	No. of samples collected	No. of samples containing <i>H. zae</i>	% occurrence	Average population	
					Cyst/plant	Cyst/100 cc soil
1.	Lohara	8	5	62.50	7.80	6.40
2.	Thour	5	3	60.00	6.30	4.00
3.	Lakhawali	6	4	66.67	7.25	5.25
4.	Eklingpura	5	3	60.00	6.67	3.00
5.	Kanpur	6	3	50.00	4.33	2.67
6.	Kaladwas	6	4	66.67	7.50	5.50
7.	Lakadwas	5	2	40.00	4.50	3.00
Total		41	24	58.54	6.19	4.26

Total samples = 41
 Occurrence = 40.00 to 66.67 %
 Population range = 4.33 to 7.80 cyst/plant
 2.67 to 6.40 cyst/100cc soil

Table 4. Crop loss trial against *H. zea* on maize during kharif, 2004

Treatments	Doses	Grain yield			Nematode population	
		Q/ha	% Increase over check	% Avoidable loss	Cyst/plant	% Reduction over check
Carbofuran	1.5 kg a.i./ha	22.64	32.01	24.25	12.40	46.08
Neem cake	5 q/ha	21.57	25.77	20.49	15.00	34.78
Check	-	17.15	-	-	23.00	-

Initial population = 1200 larvae/100 cc soil

Crop = Maize

Variety = Ganga - 2

Plot size = 26 m X 4 m

Date of sowing = 14/7/2004

Table 5. Management of maize cyst nematode, *H. zea* during kharif, 2004 (Field trial)

Treatments	Doses	Grain yield			Nematode population	
		kg/ha	Q/ha	% Increase over check	Cyst/plant	% Reduction over check
Neem cake	5 q/ha	3.40	28.33	23.60	19.33	27.52
Neem leaf	5 q/ha	3.05	25.42	10.91	23.33	12.52
Carbofuran	1 kg a.i./ha	3.73	31.08	35.60	16.67	37.50
Neem cake	10 % w/w	2.87	23.92	4.36	24.00	10.01
Carbosulfan	3 % w/w	3.34	27.83	21.42	18.67	30.00
Carbosulfan + Neem cake	3 % w/w + 5 q/ha	4.00	33.33	45.42	14.33	46.27
Carbosulfan + Neem cake	1.5 % w/w + 2.5 q/ha	3.48	29.00	26.53	17.33	35.02
Check	-	2.75	22.92	-	26.67	-
SEm±		0.140	-	-	1.048	-
CD at 5 %		0.426	-	-	3.177	-

Initial population = 1200 larvae/100 cc soil

Crop = Maize

Variety = Ganga - 2

Plot size = 4 m X 3 m

Date of sowing = 14/7/2004

Table 6. Management of maize cyst nematode through seed dressing treatment with plant products during kharif, 2004 (pot trial)

Treatments	Doses	Cyst/plant	% reduction over check
Ncem cake	10 % w/w	12.75	15.00
Neem cake	5 % w/w	13.75	8.33
Karanj cake	10 % w/w	13.25	11.67
Karanj cake	5 % w/w	14.00	6.67
Neem seed kernel	10 % w/w	10.75	28.33
Neem seed kernel	5 % w/w	13.00	13.33
Karanj seed kernel	10 % w/w	11.25	25.00
Karanj seed kernel	5 % w/w	13.50	10.00
Carbosulfan	3 % w/w	9.50	36.67
Check	-	15.00	-

Note : Data are the average value of four replications

Initial population = 1200 larvae/100 cc soil

Crop = Maize

Variety = Ganga - 2

Plot size = 9"

Date of sowing = 4/8/2004

**METOROLOGICAL DATA FOR THE GROWING PERIOD
(KHARIF 2004)**

STATION	Month/Year	Temperature °C		RH%	Rainfall in m.m.	Sunshine hours
		Min	Max			
LUDHIANA	JUNE	25.1	35.9	58.0	55.4	8.2
	JULY	27.2	35.8	68.0	32.1	7.9
	AUGUST	26.0	32.9	81.0	225.4	7.3
	SEPTEMBER	23.7	34.3	70.0	2.6	8.9
	OCTOBER	17.1	29.7	72.0	33.0	7.4
DHAULA KUAN	JUNE	21.5	33.8	74.5	221.9	6.6
	JULY	23.6	32.3	79.0	164.8	5.4
	AUGUST	23.4	34.8	85.0	570.0	4.2
	SEPTEMBER	21.3	31.6	75.4	76.8	6.8
NAGENAHALLI	JUNE	19.0	29.8	79.5	58.0	133.0
	JULY	19.1	29.3	82.1	133.0	-
	AUGUST	19.2	28.8	80.7	30.0	-
	SEPTEMBER	19.5	29.7	81.5	166.0	-
	OCTOBER	18.7	29.3	81.2	119.0	-
JASHIPUR	NOVEMBER	16.6	28.1	8.6	40.0	-
	JUNE	27.5	32.8	-	265.4	-
	JULY	25.3	30.1	-	275.6	-
	AUGUST	25.3	28.3	-	381.6	-
	SEPTEMBER	24.4	29.0	-	225.4	-
MANDYA	OCTOBER	21.4	27.7	-	88.6	-
	NOVEMBER	16.8	27.1	-	NIL	-
	JUNE	19.7	30.7	50.0	17.0	-
	JULY	19.6	29.6	48.0	85.0	-
	AUGUST	19.1	29.6	53.0	17.0	-
ARBHAVI	SEPTEMBER	19.2	29.8	48.0	255.5	-
	OCTOBER	17.6	29.8	44.0	159.9	-
	NOVEMBER	16.1	29.1	46.0	18.4	-
	JUNE	28.6	24.8	70.5	104.1	-
ARBHAVI	JULY	28.0	24.6	74.5	41.6	-
	AUGUST	26.3	23.5	80.1	23.4	-
	SEPTEMBER	27.9	23.1	73.5	47.0	-
	OCTOBER	27.2	18.9	70.0	40.2	-
	NOVEMBER	24.5	15.6	61.7	13.5	-

Survey and Surveillance-2004

Under the survey and surveillance programme in maize growing areas extensive surveys were conducted in Uttaranchal, Rajasthan, Karnataka, Himachal Pradesh, Gujarat, Madhya Pradesh and Maharashtra.

In Uttaranchal state, different areas were covered having different altitude i.e. low (<900 m) mid (900-1500 m) and high (>1500 m). Data on occurrence of diseases at seedling, tasseling and post-flowering stage of crops were recorded. TLB was recorded as a major disease in this area and it was prevalent in all the growth stages of the crop. The occurrence was more in high hills. The incidence of MLB was recorded from moderate to low and occurred during tasseling and post-flowering stages on mid-hills. Whereas the incidence of BLSB was recorded in tasseling and post-flowering stages in mid-hills and the occurrence was very low. Curuvularia leaf spot, Brown spot were recorded in mid hills. Common rust was recorded only few locations of mid-hills during post-flowering stage. *Phaeosphaeria* leaf spot was recorded during tasseling post-flowering stages and the disease incidence was low.

In Rajasthan the areas surveyed were Udaipur, Rajsamand, Banswara, Chittor, Bhilwara and Ajmer. Incidence of important maize disease like Rajasthan downy mildew, Maydis leaf blight, Brown spot, Post-flowering stalk rot, Banded leaf and sheath blight, Curuvularia leaf spot, Head smut and false smut were found from trace to severe.

In extensive surveys on above districts at farmers' fields the incidence of BSDM was found to be severe conditions in villages Iswal, Kavita, Kumawaton-Ka-Guda, Sahada, Sardar Nagar and Gangrar, CLS were severe in Jogiwad, Dhikwas, Magra, Jumdar, Lakhmavaton-ka-Guda, Chittorgarh and Panchdevla. MLB was severe in Magra, Tumdar, Ghodimari, Madar, Kavita, Lakhmavton-ka-Guda and Sardarnagar. BS was severe in tumdar, Ghodimari, Lakhmavton-ka-Guda, Chittorgarh and Panchdewla and BLSB was found severe in Ghodimari, Dhungri, Sahada and Gangrar.

Survey of Gujarat, Madhya Pradesh, Maharashtra, Karnataka was conducted when crop was at flowering stage in Godhra district of Gujarat, Nagpur and Kolhapur district of Maharashtra, Chhindwara district of Madhaya Pradesh and Arbhavi district of Karnataka. Surveys of major maize growing areas of aforesaid districts showed the incidence important maize disease like Maydis leaf blight, Brown spot, stalk rot, Banded leaf and sheath blight, Curuvularia leaf spot, Bacterial leaf strip and viral disease were recorded from trace to severe.

In Himachal Pradesh different villages like Sarahan, Kildin Paonta, Naya Shillari and Rampur etc. surveyed in Sirmour district. The incidences of diseases like *Erwinia* stalk rot, BLSB, Brown spot, MLB and BSDM were from moderate to low.

In Karnataka state, Belgaum, Dharwad Haveri Gadag Bagalkot Bijapur districts were surveyed (640 to 800 m.a.s.l.) during August-September). The incidence of TLB, common rust and MLB were recorded from low to moderate, *Phaeosphaeria* leaf spot and *curvularia* leaf spot from low to mild and incidence of *Cephasloporium* stalk rot was recorded moderate.

States	TLB	MLB	BLSB	Bacterial leaf strip	Brown spot	Cov. Leaf spot	RDM	BSDM	Pythium stalk rot
Uttaranchal	+++	++	++	+	-	+	-	-	-
Bihar	-	++	++	-	-	-	-	-	-
Orissa	+	+++	+++	-	-	+	-	-	-
Rajasthan	++	+++	+++	++	++	-	+++	+++	-
Haryana	-	++	+++	++	++	-	-	-	-
Himachal Pradesh	-	++	+++	+	++	-	-	++	-
Assam	-	-	+++	-	-	-	-	-	-
Meghalaya	-	-	+++	-	-	-	-	-	-
Nagaland	-	-	+	-	-	-	-	-	-
Gujarat		+++	-	++	-	+			-
Madhya Pradesh	++	++	++	-	++	++			-
Maharashtra	+++	+++	+	-	-	+++			-
Karnataka	+++	++		-	+	++			-

States	ESR	PFSR	Cob rot	Common rust	Head smut and false smut	SR	Viral	Phaeosporaria leaf spot	
Uttaranchal	-	-	-	-	+++	-	-		
Bihar	+	+	-	-	-	-	-		
Orissa	-	-	-	-	-	-	-		
Rajasthan	-	++	-	-	+++	++	+		
Haryana	++	-	-	-	-				
Himachal Pradesh	++	-	-	-	-	-			
Assam	-	-	-	-	-	-			
Meghalaya	-	-	-	-	-	-			
Nagaland	-	-	-	-	-	-			
Gujarat					-	-	+		
Madhya Pradesh						+	+		
Maharashtra				+++		+			
Karnataka		.	++			++		++	

+ Trace
 ++ Moderate
 +++ Severe

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ANNUAL REPORT OF BIOCHEMISTRY AND QUALITY (2004-2005)

A. Performance of QPM materials (Hyd 2003R) with relation of non-zein/zein ratio

Among QPM materials (hard endosperm opaque-2) endosperm vitreousness and hardness, which are related to storage protein- "zein", are also main parameters for screening purpose apart from lysine and tryptophan. Although this zein, which contribute major protein fraction, is extremely deficient in lysine and tryptophan. Therefore, in the present study, sixteen advanced stage QPM cultivars were evaluated for their total protein, their zein, lysine and tryptophan contents and compared with normal-SURYA, QPM-SHAKTI-1 and chalky opaque-2-SHAKTI as check. Among QPM cultivars two materials namely DMRQPM-28-5(X)-(X) # and DMRQPM-03-124 # which have very low non-zein/zein ratio (less than 1.00) also have low tryptophan and lysine content (less than 0.60 and 3.0 g/16gN) and high protein (more than 12%) (Table-1). Low value of non-zein/zein ratio are mainly due to high fraction of zein (more than 50%) than non-zein fractions. In all the QPM cultivars zein content was found higher than chalky opaque-2-SHAKTI and lower than normal maize- SURYA as check.

B. Storage protein-zein

Protein fractionation

The result of various protein values like albumin, globulin, zein-I (prolamin), zein-II (prolaminlike) and glutelin in QPM (hard endosperm opaque-2), chalky opaque-2 and normal maize endosperm are given in Table 2. The non-zein (albumin + globulin + glutelin) content were found more in chalky opaque-2 followed by QPM and the least in normal maize endosperm. Individually globulin and glutelin were found higher in QPM and chalky opaque-2 than in normal maize endosperm. Whereas albumin was found higher in chalky opaque-2 only than QPM and normal maize endosperm. In case of either total zein (zein I + zein II) or zein-I, reverse trends were observed which were found more in normal, followed by QPM and the least in chalky opaque-2 maize endosperm. In case of zein-II (prolaminlike) independently this trend was not same as zein-I (prolamin) and total zein (zein I + zein II together). It was found maximum in QPM followed by normal and least in chalky opaque-2 endosperm proteins which are respectively 79.63 and 65.81 per cent higher than chalky opaque-2 and normal maize endosperm zein II.

SDS-PAGE of zein I and zein II fraction

SDS-PAGE pattern of zein I (prolamin) and zein II (prolaminlike) are given in Table 3. In zein I fraction five polypeptide bands were observed in normal, chalky opaque-2 and QPM at 27, 22, 19, 16 and 14 K Da. The r-zein was observed in two polypeptide bands at 27 and 16 K Da. The 27 K Da of r-zein was more intense in QPM

than normal and chalky opaque-2 endosperm. The second polypeptide band of r-zein at 16 KDa was found with same intensity in all the three maize varieties. The polypeptide bands of β -zein at 14 KDa showed same intensity in the endosperm of all the three varieties. The polypeptide bands of ϵ -zein was observed at 22 and 19 KDa. The polypeptide bands of L-zein at 22 KDa was observed more intense in normal followed by QPM and least in chalky opaque-2 endosperm. The second polypeptide band of ϵ -zein at 19 KDa was found very faint in the endosperm of all the three varieties.

In zein-II fraction nine polypeptide bands were observed in normal and QPM varieties at 58, 41, 34, 27, 22, 19, 16, 14 and 12 KDa whereas in chalky opaque-2 endosperm only seven polypeptide bands were observed at 58, 41, 34, 27, 22, 19 and 16 KDa. Among these polypeptide bands 58, 41, 34, 27, 19 and 16 KDa bands were found more intense in QPM and normal than chalky opaque-2 whereas 22 KDa polypeptide band was found more intense in normal followed by QPM and least in chalky opaque-2 varieties. The polypeptide bands at 14 and 12 KDa of β and δ -zein were observed with its same intensity in normal and QPM varieties. These two polypeptide bands are totally absent in chalky opaque-2 variety. The polypeptide bands of r-zein at 58, 27 and 16 KDa were found more intense in QPM and normal than chalky opaque-2 varieties. The intensity of ϵ -zein at 22 KDa was found more in normal followed by QPM and least in chalky opaque-2 varieties. The second polypeptide bands of ϵ -zein at 19 KDa was found more intense in normal and QPM than chalky opaque-2 variety.

Evaluation of quality protein maize (QPM) germplasm grown at different maize centres during 2004-05 Rabi & Kharif

Evaluation of advance trial no-71, Trial-205 QPM full season, Trial-206 QPM early maturity, Trial-207 and Trial-208 received from PAU, Ludhiana 2003 K for quality test

57 maize germplasm were received from Ludhiana for % protein, % tryptophan in protein, 100 kernel weight and specific gravity. Data are presented in table no. 4, 5, 6, 7 and 8. % protein ranged 6.62 to 10.12 in C-1921 and J.H. (QPM) 156 respectively. The % tryptophan ranged from 0.38 to 0.89 in JH 3459 and J.H. (QPM) 83 respectively. 100 kernel weight ranged from 17.10 gm. to 34.00 gm. in J.H. (QPM) 83 and Paras respectively and specific gravity ranged from 1.08 to 1.28 in J.H. (QPM) 157 and J.H. (QPM) 108 respectively.

Evaluation of QPM germplasm, QPM Trial No-1 and QPM Trial No-2 received from PAU, Ludhiana 2003 K for quality test

54 QPM germplasm were received from PAU, Ludhiana for % protein, % tryptophan in protein, 100 kernel weight and specific gravity. Data are presented in table no. 9 and 10. The minimum % protein 7.23 in CML-142 x CML-150, QPM Trial No-1 and maximum 10.35 in BH QPM-45 in Trial no. QPM-2. The tryptophan in protein was minimum 0.40 in BQPM024 and maximum 0.82 in HQPM-3, Trial No-1. 100 kernel weight minimum 20.70 in CML-142 x CML-150 and maximum 33.20 in PRO-311 QPM Trial No-1.

Specific gravity ranged from minimum 1.04 in BQPM-33 QPM Trial no. 1 and maximum 1.29 in BH QPM-50 QPM Trial no. 2.

Evaluation of QPM materials and advance trial received from PAU, Ludhiana, Kharif 2003 for quality test.

22 QPM germplasm analysed for % protein, % tryptophan in protein, 100 kernel weight and specific gravity as presented in table no. 11 and 12. In these trials total materials were found to be in normal nature.

Evaluation of waxy maize germplasm received from PAU, Ludhiana, Kharif 2003 for carbohydrate profiles.

35 waxy maize germplasm have been analysed for % starch, % Amylose in starch, % Amylopectin in starch. Data is presented in table no. 13. The % starch ranged from 55.68 to 72.23 in 3912 and 3932 respectively. The amylose in starch ranged from 7.62 to 51.55 in 3904 and 3927 respectively. The amylopectin in starch ranged from 48.45 to 92.38 in 3927 and 3904 respectively.

Evaluation of QPM germplasm received from Hyderabad, 2003 Rabi for quality test and hybrid estimation

Ten QPM germplasm has been analysed for % protein, % tryptophan in protein, 100 kernel weight, specific gravity and oil on dry basis. Data is presented in table no.-14. The data showed that all the germplasm were of normal maize nature, but the lipid content were to higher which ranged from 3.00 to 6.29 of ARS Amberpet Hyd.-1 and ARS, Amberpet, Hyd.-10 respectively.

Evaluation of QPM germplasm received from Uchani, Karnal 2003 Rabi for quality test

116 QPM germplasm has been analysed for % protein, % tryptophan in protein, 100 kernel weight and specific gravity. Data is presented in table no. 15. The minimum % protein 7.40 in HQPM-6 and maximum % protein 12.99 in 139-3 (D) x 35-2. The minimum Tryptophan 0.39 in 536-1 (1-3TB) 33 x 35 and maximum tryptophan 1.01 in 139-6-1 x 34-2 respectively.

Evaluation of High oil germplasm received from Uchani, Karnal, Rabi 2003 for lipid content.

35 high oil germplasm were analysed for lipid content on dry basis, the data is presented in table no. 16. The % oil content ranged from 3.27 to 6.88 in SHD 3RD and 41-1-1-4 (WG) respectively.

Evaluation of ae and waxy germplasm received from Uchani, Karnal, Rabi-2003 for carbohydrate profiles

5 ae and 1 waxy germplasm has been analysed. Data is presented in table no. 17.

Evaluation of selected QPM lines, selected QPM SO/SN composite, selected white conversion program lines, He viterosity and CML lines received from DMR grown at Hyderabad 2003 Rabi, for quality test.

80 germplasm has been analysed for % protein, % tryptophan in protein, 100 kernel wt. and specific gravity. Data were presented in table no. 18, 19 and 20. % protein ranged from 6.96 to 13.08 in CML 142 # and DMR QPM-17-⊗-⊗ X DMR QPM-18-⊗-⊗. The tryptophan in protein ranged from 0.34 to 0.97 in DMR QPM-58-#-⊗ and DMR QPM-03-101 X DMR QPM-28-5-⊗-⊗ respectively. 100 kernel weight ranged from 10.30 to 23.70 in P43R CAMEROON X CML-150³-#-⊗ and Shakti-1 respectively. The specific gravity ranged from 1.03 to 1.30 in P43R CAMEROON X CML-150³-#-⊗ and DMR QPM-03-101 X DMR QPM-17-⊗-⊗ respectively.

Evaluation of amylase extender lines received from DMR, 2003 Rabi grown at Hyderabad.

Eight germplasm has been analysed for % starch, % amylose in starch and % amylopectin in starch. Data is presented in table. 21. Minimum amylose in starch's was 11.60 in Waxy corn-⊗-⊗ while maximum starch's was 71.25 and maximum amylopectin in starch's was 88.40 in the same germplasm and maximum was 48.03 amylose in starch in ae-46-4-4-B-⊗-15-#-⊗-Bulk-⊗. Minimum % starch's 62.96 and maximum amylopectin in starch 51.97 in the same germplasm.

Evaluation of high oil lines for oil estimation received from DMR, 2003 Rabi

Four germplasm has been analysed, data is presented in table no. 22. The % oil on dry basis ranged from 4.15 to 6.29 in Temp x Trop High oil QPM C14-⊗-#-⊗-bulk-⊗ and Tearp ⊗ HO C15 #-#-⊗-⊗-⊗ respectively.

Evaluation of pool of germplasm having high amylase, high oil, high protein quality, waxy with specialty starch and vegetable types received from DMR, grown at Hyderabad 2003 rabi. Data is presented in table no. 23.

Evaluation of QPM (Shaktiman) germplasm received from Rajendra Agriculture University, Samastipur, Bihar for quality analysis, 2004 Kharif

Seven QPM Shaktiman germplasm were analyzed for % Protein, % Tryptophan in Protein, 100 kernel weight and specific gravity. Data is presented in Table no. 24. For protein estimation marked difference in Shaktiman 1, 2,3,4. But maximum 9.24% protein was recorded in CML-161-13-3-⊗ and Tryptophan in Protein maximum 0.86 in Shaktiman-1.

Shaktiman and Ganga-2 seeds received from International Book Distributing Co., Chaman Studio Building, IInd floor, Lucknow, U.P., India for quality test: Data presented in table no. 25.

Evaluation of trial no. 205 QPM and Trial 71 AET 2nd Year Zone-2 Early maturity Set-1 received from PAU, Ludhiana for quality test, 2004 Kharif

19 Samples has been analyzed. Data is presented in table no. 26 and 27. In Trial no. 205 QPM have only one germplasm NRAINGARH which has more than 9% Protein. But six germplasm had more than 0.7% Tryptophan in Protein. In Trial no. 71 AET 2nd Year Zone-2 Early maturity Set-1 all the germplasm showed normal maize type nature.

Evaluation of Trial QPM-1, germplasm received from DMR, Delhi, Ludhiana and VPKAS, Almora for quality test 2004 K

Twenty QPM germplasm has been analysed for % protein, % tryptophan in protein, 100 kernel weight and specific gravity. Data is presented in table no. 28. Maximum % protein was 11.44 in BQPMH-46 at Delhi and Ludhiana centre and 11.51 in BQMH-53 at Almora centre. Maximum Tryptophan in protein 0.86 in DMRQPM-17-⊗-⊗ X DMRQPM-58-⊗-⊗ at Delhi, 0.95 in BQMH-51 at Ludhiana and 0.99 in HQPM-5 at Almora centre.

Evaluation of Trials QPM-2 germplasm received from DMR, Delhi, Ludhiana and VPKAS, Almora for quality test 2004 Kharif.

Thirteen QPM germplasm has been analysed for % protein, % tryptophan in protein, 100 kernel weight and specific gravity data presented in table no. 29. Significant improvement was found compared to check germplasm in Try (g/16g N) and not difference in Kernel weight.

Table 1: Performance of QPM cultivars-selected inbred lines (Hyd2003 R)

S.No.	Pedigree	100 kernel wt (g)	Specific gravity (g/ml)	Total protein (%)	Tryptophan (g/16 gN)	Lysine (g/16N)	Zein (%)	Non-zein (%)	Ratio of non-zein/zein
1.	ML-171-(X)-#	20.60	1.14	8.48	1.05	4.62	29.69	70.31	2.37
2.	DMR QPM-58-(X)-(X)#	17.44	1.25	10.02	0.85	3.75	42.17	57.83	1.37
3.	DMR QPM-75-(X)-(X)#	18.24	1.30	10.24	0.80	3.51	37.48	62.52	1.67
4.	DMR QPM-17-(X)-(X)#	18.48	1.16	12.08	0.75	3.31	42.36	57.64	1.36
5.	DMR QPM-18-(X)-(X)#	15.12	1.08	11.30	0.77	3.39	36.08	63.92	1.77
6.	DMR QPM-28-5(X)-(X)#	18.52	1.32	13.30	0.53	2.27	50.76	49.24	0.97
7.	DMR QPM-03-101-#	18.32	1.15	9.97	0.70	3.07	46.49	53.51	1.15
8.	DMR QPM-03-107-#	14.20	1.18	11.33	0.65	2.86	39.86	60.14	1.51
9.	DMR QPM-03-106-#	20.72	1.30	10.76	0.78	3.44	43.70	56.30	1.29
10.	DMR QPM-03-121-#	13.80	1.15	10.89	0.87	3.82	40.15	59.85	1.49
11.	DMR QPM-03-124-#	13.32	1.33	9.14	0.91	4.01	45.27	54.73	1.21
12.	DMR QPM-56-#-(X)-#	18.84	1.18	12.12	0.54	2.21	50.69	49.31	0.97
13.	DMR QPM-03-103-#	19.12	1.20	11.07	0.83	3.66	39.09	60.91	1.59
14.	DMR QPM-28-3-#-(X)-#	13.36	1.34	10.54	0.87	3.83	36.03	63.97	1.78
15.	DMR QPM-03-125-#	14.12	1.18	10.80	0.85	3.73	42.33	57.67	1.36
16.	Shakti (Opaque-2)	18.16	1.04	8.11	0.89	4.07	30.58	69.42	2.27
17.	Shakti-1 (QPM)	22.28	1.24	9.19	0.73	3.23	45.59	54.41	1.19
18.	Surya (Normal)	20.44	1.25	11.13	0.41	2.30	53.95	46.05	0.85
	Maximum	22.28	1.34	13.30	1.05	4.62	53.95	70.31	2.37
	Minimum	13.32	1.04	8.11	0.41	2.21	22.94	46.0	0.97

Table 2: Protein fractions of QPM, Chalky opaque-2 and normal maize endosperm (mg/100 mg endosperm).

Protein fractions	Normal maize (Navjot)	Chalky opaque-2 (Shakti)	QPM (Shakti-1)
Zein	Zein-I	1.40 (17.26)	2.25 (24.48)
	Zein II	1.08 (13.71)	1.94 (21.11)
Non-zein	Albumin	0.46 (5.77)	0.34 (3.70)
	Globulin	0.32 (3.94)	0.26 (2.83)
	Glutelin	3.71 (44.39)	2.92 (31.77)
Residue	1.05 (13.78)	1.25 (15.41)	1.48 (16.10)
Total protein	7.62	8.11	9.19
Total zein	4.34 (56.96)	2.48 (30.58)	4.19 (45.59)
Total non-zein including residue	3.28 (43.04)	5.63 (69.42)	5.00 (54.41)

Figures in parenthesis indicate percent of total protein

Table 3 : Rf values, molecular weight and intensities of different polypeptide bands in zein I and zein II fractions

S.No.	R.f. value	Molecular Weight (KDa)	Zein-I			Zein-II		
			Normal	Chalky opaque-2	QPM	Normal	Chalky opaque-2	QPM
1	0.31	58 γ				++		++
2	0.46	41				++		++
3	0.54	34				++		++
4	0.65	27 γ	+	+	++	++	+	++
5	0.73	22 α	++++	+++	++++	++++	+++	++++
6	0.79	19 α	+	+	+	+++	++	+++
7	0.87	16 γ	+	+	++	++	+	++
8	0.92	14 β	++	++	++	++		++
9	0.99	12 δ				++		++
Total number of polypeptide bands			5	5	5	9	7	9

Normal- Navjot, Chalky opaque-2 Shakti, QPM-Shakti-I

Table 4: Advance trial no-71 received from PAU, Ludhiana for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	SEEDTEC-1205	9.42	0.55	18.00	1.20
2.	HIM-129	8.34	0.49	22.20	1.11
3.	SURYA	8.26	0.53	17.30	1.15
4.	X-3342	9.84	0.55	18.40	1.22
	Maximum	9.84	0.55	22.20	1.22
	Minimum	8.26	0.49	17.30	1.11

Table 5: Trial-205 QPM full season received from PAU, Ludhiana 2003 K for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	J.H. (QPM) 4	9.06	0.42	30.10	1.20
2.	J.H. (QPM) 15	7.37	0.95	32.90	1.10
3.	J.H. (QPM) 29	7.08	0.95	28.90	1.15
4.	J.H. (QPM) 108	7.30	0.78	25.70	1.28
5.	J.H. (QPM) 125	8.35	0.80	28.90	1.15
6.	J.H. (QPM) 1	9.04	0.71	32.90	1.10
7.	J.H. (QPM) 141	8.36	0.56	29.20	1.17
8.	J.H. (QPM) 152	8.41	0.74	27.60	1.22
9.	J.H. (QPM) 153	7.46	0.83	27.10	1.20
10.	J.H. (QPM) 154	8.22	0.86	32.80	1.09
11.	J.H. (QPM) 115	7.52	0.82	30.10	1.20
	Paras	8.01	0.47	34.00	1.13
	Maximum	9.06	0.95	34.00	1.28
	Minimum	7.08	0.42	25.70	1.09

Table 6: Trial-206 QPM early maturity received from PAU, Ludhiana 2003 K for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	J.H. (QPM) 35	8.62	0.79	27.00	1.22
2.	J.H. (QPM) 83	8.29	0.77	17.10	1.14
3.	J.H. (QPM) 84	8.54	0.78	23.80	1.19
4.	J.H. (QPM) 1	9.00	0.72	28.10	1.12
5.	J.H. (QPM) 86	8.11	0.76	20.60	1.17
6.	J.H. (QPM) 156	10.01	0.78	18.30	1.22
7.	J.H. (QPM) 157	7.80	0.73	21.70	1.08
8.	JH 3459	8.78	0.38	27.00	1.22
	Maximum	10.01	0.79	28.10	1.22
	Minimum	7.80	0.38	17.10	1.08

Table 7: Trial-207 received from PAU, Ludhiana 2003 K for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	J.H. (QPM) 4	7.23	0.61	30.50	1.10
2.	J.H. (QPM) 15	6.22	0.80	23.20	1.10
3.	J.H. (QPM) 29	7.20	0.75	26.80	1.07
4.	J.H. (QPM) 108	8.00	0.50	22.60	1.13
5.	J.H. (QPM) 125	7.56	0.85	30.60	1.11
6.	Shaktiman-1	9.03	0.72	29.10	1.16
7.	J.H. (QPM) 141	7.64	0.65	30.50	1.05
8.	J.H. (QPM) 152	8.31	0.69	28.30	1.13
9.	J.H. (QPM) 153	6.92	0.75	24.90	1.24
10.	J.H. (QPM) 154	8.21	0.41	30.40	1.21
11.	J.H. (QPM) 155	7.19	0.45	28.70	1.15
12.	Paras	8.30	0.53	31.90	1.06
13.	J.H. (QPM) 35	8.57	0.69	24.40	1.22
14.	J.H. (QPM) 83	7.84	0.89	17.90	1.19
15.	J.H. (QPM) 84	8.84	0.84	24.30	1.21
16.	Shaktiman	9.00	0.71	27.60	1.10
17.	J.H. (QPM) 86	8.00	0.80	23.30	1.16
18.	J.H. (QPM) 156	10.12	0.71	21.30	1.06
19.	J.H. (QPM) 157	8.62	0.48	23.30	1.16
20.	JH 3459	9.17	0.40	25.60	1.28
	Maximum	10.12	0.89	31.90	1.28
	Minimum	6.22	0.40	17.90	1.05

Table 8: Trial-208 received from PAU, Ludhiana 2003 K for quality test

S. No	Pedigree	% Starch	% Amylose in Starch	Amylopectin in Starch
1.	J.H. (Mose) 25	71.88	13.19	86.81
2.	J.H. (Mose) 32	68.47	19.22	80.78
3.	Paras	66.20	48.58	51.42
4.	J.H. (ae) 8	67.34	45.65	54.35
5.	JH 3459	68.85	51.76	48.24
	Maximum	71.88	51.76	86.81
	Minimum	66.20	13.19	48.24

Table 9: QPM Trial no-1 received from PAU, Ludhiana 2003 K for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	B-QPM-12	10.41	0.48	27.50	1.10
2.	HQPM-2	9.02	0.57	28.80	1.15
3.	B-QPM-024	10.74	0.40	24.90	1.24
4.	JH-QPM-83	8.56	0.54	22.80	1.14
5.	B-QPM-33	8.87	0.56	31.30	1.04
6.	B-QPM-32	9.20	0.53	25.30	1.26
7.	SEEDTEC-2324	8.95	0.54	30.20	1.21
8.	SHAKTIMAN-1	9.01	0.72	28.40	1.13
9.	HQPM-1	8.89	0.72	29.70	1.18
10.	B-QPM-31	9.66	0.54	23.00	1.15
11.	HQPM-3	8.78	0.82	28.80	1.15
12.	KH-510	8.69	0.67	30.00	1.20
13.	PRO-311	8.23	0.53	33.20	1.10
14.	CML-142 X CML-150	7.23	0.57	20.70	1.18
	Maximum	10.74	0.82	33.20	1.26
	Minimum	7.23	0.40	20.70	1.04

Table 10: QPM Trial No-2 for quality test received from DMR grown at Delhi Kharif 2003

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	SHAKTIMAN-1	9.01	0.71	20.00	1.14
2.	JH ae-7	8.84	0.55	24.50	1.22
3.	BH QPM-41	9.31	0.49	26.90	1.08
4.	BH QPM-47	8.20	0.52	24.60	1.23
5.	S99TLWQ-HG-B	8.79	0.58	26.60	1.06
6.	JH wx-29	9.55	0.42	28.00	1.12
7.	BH QPM-43	9.45	0.49	24.90	1.24
8.	XP-0103	7.56	0.61	27.60	1.10
9.	BAJ QPM-1	8.85	0.58	21.90	1.09
10.	BH QPM-44	8.22	0.46	26.80	1.22
11.	KH-510	8.86	0.48	24.80	1.24
12.	JH QPM-155	8.58	0.54	25.60	1.24
13.	JH QPM-41	8.58	0.56	27.90	1.12
14.	JH QPM-144	8.78	0.69	25.50	1.27
15.	BVM-7	8.05	0.57	22.00	1.10
16.	BH QPM-46	6.71	0.60	23.10	1.10
17.	BIO 9681	6.95	0.56	25.30	1.26
18.	BH QPM-48	8.27	0.58	27.80	1.11
19.	BH QPM-45	10.35	0.46	23.30	1.16
20.	BAJ QPM-2	9.38	0.54	24.50	1.22

Q-12

21.	X P 0105	7.70	0.66	30.30	1.21
22.	B H QPM-40	9.47	0.49	24.60	1.23
23.	X-3342	9.31	0.43	23.60	1.18
24.	PRO-311	8.58	0.54	<u>31.10</u>	1.24
25.	B H QPM-42	9.56	<u>0.42</u>	24.70	1.23
26.	S99TLWQ-HG-AB	7.41	0.58	25.00	1.25
27.	J H QPM-35	9.24	0.50	26.60	<u>1.06</u>
28.	B H QPM-50	8.88	0.51	25.80	<u>1.29</u>
	Maximum	10.35	0.71	31.10	1.29
	Minimum	6.71	0.42	20.00	1.06

Table 11: QPM materials received from PAU, Ludhiana, Kharif 2003 for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	3876-1-5	9.90	0.52	25.70	<u>1.28</u>
2.	3877-1	8.83	0.49	27.70	1.11
3.	3878-1-4	10.47	0.44	21.00	1.20
4.	3879-1-2	10.95	0.50	20.40	1.16
5.	3880-1-3	9.57	0.39	16.10	1.07
6.	3881-1-5	8.26	0.45	<u>31.60</u>	1.26
7.	3882-1-5	10.88	0.30	23.70	1.18
8.	3883-1	<u>12.77</u>	0.57	25.80	1.15
9.	3884-1-9	9.59	<u>0.72</u>	26.30	<u>1.05</u>
10.	3885-1,2,5-8	10.38	0.62	20.90	1.19
11.	3886-1	<u>8.18</u>	0.70	17.70	1.18
12.	3887-1-2	10.13	0.66	19.90	1.14
	Maximum	12.77	0.72	31.60	1.28
	Minimum	8.18	0.30	16.10	1.05

Table 12: Advance trial 2003 K from Ludhiana for quality test

S. No	Pedigree	% Protein	Try (g/16g N)	100 Kernel wt.	Sp. Gravity
1.	JH-1089	<u>9.87</u>	0.56	28.50	1.14
2.	C-1821	7.91	0.63	30.90	<u>1.23</u>
3.	Paras	8.43	<u>0.51</u>	<u>34.60</u>	1.15
4.	JH-10653	6.97	0.63	28.90	1.16
5.	C-1921	<u>6.62</u>	0.65	30.30	1.21
6.	F-9572 A	7.25	0.59	<u>27.20</u>	<u>1.09</u>
7.	JH-10655	8.18	0.53	33.60	1.12
8.	Danble	7.91	0.64	33.00	1.10
9.	Hi Shell-717	6.91	<u>0.67</u>	29.10	1.16
10.	Seedtec-2324	7.24	0.57	29.90	1.20
	Maximum	9.87	0.67	34.60	1.23
	Minimum	6.62	0.51	27.20	1.09

Table 13: Waxy material received from PAU, Ludhiana for % Starch, % Amylose in starch & Amylopectin in starch estimation Kharif 2003.

S. No	Pedigree	% Starch	% Amylose in Starch	Amylopectin in Starch
1.	3901	68.09	17.76	82.24
2.	3902	69.99	10.02	89.98
3.	3903	60.52	32.44	67.56
4.	3904	71.26	7.62	92.38
5.	3905	62.42	49.18	50.82
6.	3906	67.71	8.73	91.27
7.	3907	57.06	27.93	72.07
8.	3908	61.69	31.67	68.33
9.	3909	56.38	26.02	73.98
10.	3910	56.42	30.95	69.05
11.	3911	61.91	28.48	71.52
12.	3912	55.68	30.05	69.95
13.	3913	63.55	26.04	73.96
14.	3915	70.00	16.97	83.03
15.	3916	68.85	10.54	89.46
16.	3917	68.09	9.94	90.06
17.	3918	65.07	9.59	90.41
18.	3919	65.22	9.64	90.36
19.	3920	68.85	9.03	90.97
20.	3921	69.98	8.87	91.13
21.	3922	68.09	9.16	90.84
22.	3923	69.22	9.35	90.65
23.	3924	71.83	7.89	92.11
24.	3925	68.47	7.68	92.32
25.	3926	68.47	8.03	91.97
26.	3927	66.21	51.55	48.45
27.	3928	68.47	8.87	91.13
28.	3930	71.48	7.69	92.31
29.	3931	71.83	8.66	91.34
30.	3932	72.23	8.50	91.50
31.	3933	71.47	8.60	91.40
32.	3935	71.85	8.55	91.45
33.	3936	71.47	8.83	91.17
34.	3937	70.00	48.73	51.27
35.	3938	69.23	47.19	52.81
	Maximum	72.23	51.55	92.38
	Minimum	55.68	7.62	48.45

Q-14

Table 14: QPM germplasm received from Hyderabad for % Protein, Tryptophan, 100 Kernel weight, Specific gravity and oil estimation 2003 R

S. No	Pedigree	% Protein	% Try. in protein	100 Kernel wt.	Sp. Gravity	% oil on dry basis
1.	ARS, Amberpet, Hyd.-1	11.82	0.48	22.00	1.10	3.00
2.	ARS, Amberpet, Hyd.-2	13.00	0.52	29.00	1.16	5.19
3.	ARS, Amberpet, Hyd.-3	10.86	0.41	30.20	1.20	4.54
4.	ARS, Amberpet, Hyd.-4	12.14	0.43	25.80	1.28	4.46
5.	ARS, Amberpet, Hyd.-5	12.84	0.40	24.40	1.22	4.38
6.	ARS, Amberpet, Hyd.-6	10.91	0.42	26.80	1.07	5.43
7.	ARS, Amberpet, Hyd.-7	13.00	0.47	36.60	1.22	5.14
8.	ARS, Amberpet, Hyd.-8	12.98	0.53	29.90	1.20	5.41
9.	ARS, Amberpet, Hyd.-9	13.05	0.44	23.90	1.20	5.48
10.	ARS, Amberpet, Hyd.-10	10.06	0.56	28.20	1.13	6.29
	Maximum	13.05	0.56	36.60	1.28	6.29
	Minimum	10.06	0.40	22.00	1.07	3.00

Table 15: QPM germplasm received from Uchani, Karnal, for quality analysis 'Rabi' 2003

S. No	Pedigree	% Protein	% Try. in protein	100 Kernel wt.	Sp. Gravity
1.	2-1-1-1	11.09	0.87	16.60	1.10
2.	4-5-1	9.89	0.76	21.10	1.05
3.	11-1-1	10.98	0.64	16.40	1.09
4.	14	11.71	0.63	16.00	1.06
5.	14-1	10.38	0.68	18.10	1.20
6.	15-2-1 (1-3)-1	10.20	0.52	12.00	1.07
7.	17	11.50	0.80	15.20	1.01
8.	19-1-1	10.81	0.57	16.50	1.10
9.	20-1-1(1-3)-1	8.67	0.85	16.80	1.12
10.	20-27-1	8.28	0.75	14.30	1.14
11.	26-2-3(1-4)-1	10.52	0.73	12.60	1.05
12.	26-2-4(1-2)	10.40	0.85	16.10	1.07
13.	27-3-1	10.88	0.70	21.00	1.05
14.	28 (3+4)-1A	10.27	0.80	17.40	1.16
15.	31-2	10.74	0.69	16.10	1.07
16.	31-3(1-3)(1-2)	9.79	0.92	12.00	1.20
17.	31-3-2(1+2)	11.67	0.67	12.50	1.04
18.	32-2-3	10.22	0.80	13.80	1.15
19.	33-5-2(1-2)	11.30	0.59	24.80	1.03
20.	33-5-3(1-2)	8.90	0.80	17.20	1.14
21.	34	12.01	0.68	15.20	1.01
22.	34(1+2) (3-4)	10.16	0.42	23.10	1.15

Q-15

23.	35-(1-2) Bulk	10.14	0.77	15.30	1.02
24.	35 (3-6)	10.35	0.63	11.70	<u>0.97</u>
25.	38-2-2 (1-6)	9.51	0.78	14.90	1.19
26.	139-1wa x 35 x 35-1 (1-2)	10.52	0.71	20.70	1.03
27.	139-2 x 35-1 (RG)	11.12	0.60	32.00	1.06
28.	139-3T x 35-1	10.17	0.71	25.10	1.25
29.	139-3 x 35-1-1	11.12	0.66	23.30	1.16
30.	139-3RG x 35-1D (1-4)-2 RG	9.15	0.86	28.00	1.12
31.	139-3RG x 35-1D (1-4)-3 RG	9.67	0.64	21.60	1.08
32.	139-3RG x 35-1D (1-4)-4 RG	9.04	0.90	23.00	1.15
33.	139-3 x 35-1D-5	10.65	0.69	14.90	1.19
34.	139-3WG x 35-1D-6 (WG)	9.95	0.84	23.10	1.15
35.	139-2 x 35-1(3-5) TB (RG)	11.04	0.63	20.40	1.13
36.	139-3 (D) x 35-2	<u>12.99</u>	0.55	31.10	1.24
37.	139-3 x 35-2 (D)-1 RG	10.20	0.79	23.10	1.15
38.	139-3 x 35-2D-2	10.80	0.88	23.20	1.16
39.	139-3 x 35-2D-3	9.55	0.97	17.70	1.18
40.	139-3 x 35-2D-4 (RG)	12.62	0.73	24.10	1.20
41.	139-3 WG x 35-2T (WG)	10.96	0.65	20.10	1.14
42.	139-3 RG x 35-2T (RG)	10.34	0.60	20.40	1.16
43.	139-3 (D) x 35-3-1	10.16	0.67	26.10	1.04
44.	139-3 x 35 x 35	10.57	0.64	22.50	1.12
45.	139-6-1 x 34-2	9.36	<u>1.01</u>	17.70	1.18
46.	139-6-1 x 34-3	9.81	0.72	19.60	<u>1.30</u>
47.	139-6-1 x 34 (1)-1	9.74	0.84	13.40	1.12
48.	139-6-1 x 34-4	8.35	0.83	17.20	1.14
49.	139-6-1 x 34-1 (WG)	9.65	0.92	17.70	1.18
50.	139-6-1 x 34-2 (WG)	10.40	0.75	17.50	1.16
51.	139-6-1 x 34-3 (WG)	9.02	0.83	18.50	1.23
52.	142	10.20	0.72	24.40	1.22
53.	142	11.11	0.68	21.50	1.07
54.	C-161	11.39	0.54	31.30	1.25
55.	163 (dwarf)	9.21	0.78	24.00	1.20
56.	164-3 (1-2)-1	8.64	0.84	24.50	1.22
57.	165	9.21	0.83	20.20	1.15
58.	170	8.70	0.97	21.00	1.20
59.	170 (1+2)	10.65	0.82	24.00	1.20
60.	172 (1+2+3)	10.12	0.74	20.30	1.16
61.	191	11.41	0.60	24.60	1.23
62.	193-1	10.61	0.67	21.30	1.06
63.	193-2	10.64	0.67	21.00	1.20
64.	368-1 x 33 x 33	12.87	0.48	14.00	1.16
65.	368-1-1 x 35 x 35 (1)	12.88	0.59	14.10	1.12
66.	368-1-1 x 35 x 35 (2)	10.58	0.64	15.00	1.06

Q-16

67.	368-2-2-36 (1)	11.36	0.55	13.50	1.08
68.	368-2-2-36-1	10.06	0.80	14.00	1.12
69.	368-2-2-36-2	11.89	0.67	16.70	1.11
70.	368-1-2 x 35 x 35 (WG)	12.21	0.64	19.10	1.27
71.	368-2 x 35	11.55	0.85	17.30	1.15
72.	368-2 x 36 x 36-2	9.55	0.64	12.50	1.25
73.	368-3-1 x 36	12.00	0.75	15.10	1.08
74.	368-3-1 x 36-2	12.70	0.77	16.90	1.12
75.	368-3-2 x 36	12.63	0.75	17.30	1.15
76.	368-3-3 x 36	12.38	0.68	15.50	1.03
77.	368-3-4 x 36	10.80	0.76	14.40	1.15
78.	368-3 x 36 x 36-1	11.82	0.79	15.10	1.20
79.	368-4 x 36 x 36 (WG)	10.37	0.90	20.00	1.14
80.	536-1 (1-3TB) 33 x 35	10.67	0.39	22.50	1.12
81.	536-1 (3-5TB) 33 x 33	10.34	0.49	24.70	1.23
82.	536-2 (2) x 33-2	10.62	0.46	16.60	1.10
83.	536-2 x 34-2	12.31	0.50	20.50	1.17
84.	536-3 x 33	10.96	0.66	18.30	1.22
85.	536-3 x 33 x 33-2-3	12.20	0.42	23.50	1.17
86.	536-3 x 33 x 33-2-1	10.85	0.50	16.30	1.08
87.	536-3 x 33 x 33-2-2	10.85	0.51	21.80	1.09
88.	536-4 x 36-1	12.21	0.44	21.60	1.23
89.	536-4 x 36-2	12.90	0.50	19.80	1.13
90.	586-2 x 33-1 (RG)	12.41	0.42	14.10	1.17
91.	586-2 x 33-1 (WG)	10.58	0.64	15.10	1.09
92.	586-1 x 33 (2+3+5)	9.12	0.65	15.60	1.04
93.	586-1 x 33 x 33-1	9.61	0.87	15.30	1.05
94.	586-1 x 33 x 33 (2+3) (RG)	10.44	0.80	15.80	1.11
95.	1105-2 x 33 x 35-3	9.44	0.85	27.70	1.18
96.	1105-2 x 33 x 35-2	9.44	0.87	17.70	1.17
97.	1105-2 x 33 x 35-5	9.53	0.86	14.10	1.20
98.	1105-3E x 35-1 (1-2)	9.61	0.89	20.40	1.11
99.	1105-3E x 35-2	9.73	0.72	21.30	1.20
100.	1105-3E x 35-3	9.66	0.91	14.60	1.16
101.	1162-1	7.72	0.88	11.60	1.16
102.	1352-2F x 142 x 142 WG	10.20	0.75	24.10	1.20
103.	5072-1BT	7.96	0.94	20.60	1.21
104.	Pool C8 QPM-4 (WG)	11.20	0.79	16.80	1.12
105.	HHM-1 (Open seed)	10.34	0.68	22.00	1.10
106.	HHM-2 (Open seed)	9.85	0.72	27.40	1.10
107.	HHM-4	8.95	0.45	31.30	1.04
108.	HHM-5	9.36	0.49	30.70	1.02
109.	HHM-6	7.88	0.69	20.60	1.21
110.	HQPM-1	10.49	0.49	25.30	1.01

111.	HQPM-2	8.22	0.53	28.80	1.15
112.	HQPM-3	10.12	0.51	27.00	1.08
113.	HQPM-4	10.11	0.50	32.40	1.08
114.	HQPM-5	10.00	0.50	29.20	1.17
115.	HQPM-6	7.40	0.65	27.90	1.11
116.	Normal Maize	9.61	0.50	24.50	1.22
	Maximum	12.99	1.01	32.40	1.30
	Minimum	7.40	0.39	11.60	0.97

Table 16: High oil germplasm received from Uchani, Karnal, Rabi 2003 for oil estimation

S. No.	Pedigree	% oil on dry basis
1.	41-1-3 (WG)	5.37
2.	41-3-1 (WG)	4.36
3.	41-1-1-4 (WG)	6.88
4.	41-1-1-5 (WG)	5.78
5.	41-1-1-6 (WG)	5.31
6.	41-1-1-7 (WG)	5.62
7.	48-3-2-1 (WG)	5.28
8.	Tel (G) 1-1 (WG)	6.02
9.	Tel (G) 1-1-1 (WG)	6.25
10.	Tel (G) 1-2-1 (WG)	6.05
11.	Tel (G) 1-1-2-1-2 (WG)	6.38
12.	Tel (G) 1-2-1-1-1 (WG)	4.86
13.	Tel (G) 1-2-1-1-3	5.48
14.	Tel (G) 1-1A-2	5.51
15.	Tel (G) 1-2A-1 (WG)	5.11
16.	Tel (G) 1-2A-3 (WG)	3.76
17.	Tel (P)-6-2-3	4.33
18.	Tel (PD)-6-2-2	5.93
19.	Tel (P)-8-2 WG	5.17
20.	Tel (PF)-3-1-1-1 (WG)	5.33
21.	Tel (PF)-3-1-1-2 (WG)	6.17
22.	Tel (PF)-2-5-1 (WG)	6.59
23.	Tel (PF)-2-5-2 (WG)	5.91
24.	SHD-2-1-3	4.71
25.	SHD 3RD . .	3.27
26.	SHD-3WG	3.77
27.	Tel (G)-2 x SHD-1 (RG)	4.05
28.	Tel (G)-2 x SHD (WG)	3.55
29.	Tel (G)-2 x SHD-2	5.31
30.	Tel (G)-4 x SHD-2 (Tell)	5.66
31.	Tel (G)-4 x SHD-2 (RG)	5.48
32.	Tel (G)-4 x SHD-2 (WG)	3.60

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33.	Tel (G)-4 x SHD-4 (WG)	6.56
34.	Tel (G) x SHD(R) (WG)	4.13
35.	Tel (a)-1 x SHD	3.68
	Maximum	6.88
	Minimum	3.27

Table 17: ae and waxy germplasm received from Uchani, Karnal for % Starch, % Amylose in starch and % amylopectin in starch

S. No	Pedigree	% Starch	% Amylose in Starch	Amylopectin in Starch
1.	54-3-1 (1+2)-3-3 (WG)	64.05	38.63	61.37
2.	54-3-1 (1+2)-3-4	65.12	44.13	55.87
3.	54-3-1 (1+2)-3-4	65.50	40.47	59.53
4.	57-6 (1-4)-2-1 (WG)	66.24	46.81	53.19
5.	57-6 (1-4)-2-2 (WG)	64.05	37.52	62.48
Waxy lines				
6.	3322-1	66.98	45.13	54.87
	Maximum	66.98	46.81	62.48
	Minimum	64.05	37.52	53.19

Table 18: Selected QPM lines to be increasing programme received from DMR grown at Hyderabad, 2003 Rabi for quality test.

S. No	Pedigree	% Protein	% Try.	100 Kernel wt.	Sp. Gravity
1.	CML-171-⊗ x DMRQPM-28-5-⊗-⊗	10.85	0.63	14.40	1.15
2.	DMR QPM-28-5-⊗-⊗ X CML-171-⊗	11.36	0.53	22.30	1.11
3.	DMR QPM-58-⊗-⊗ X DMR QPM-17-⊗-⊗	10.89	0.79	21.60	1.08
4.	DMR QPM-17-⊗-⊗ X DMR QPM-58-⊗-⊗	12.64	0.73	19.60	1.30
5.	DMR QPM-75-⊗-⊗ X DMR QPM-17-⊗-⊗	11.77	0.69	17.70	1.18
6.	DMR QPM-17-⊗-⊗ X DMR QPM-75-⊗-⊗	12.64	0.78	21.00	1.20
7.	DMR QPM-17-⊗-⊗ X DMR QPM-18-⊗-⊗	13.08	0.70	15.80	1.26
8.	DMR QPM-18-⊗-⊗ X DMR QPM-17-⊗-⊗	13.08	0.74	20.00	1.14

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9.	DMR QPM-17-⊗-⊗ X DMR QPM-03-101	12.64	0.78	17.30	1.15
10.	DMR QPM-03-101 X DMR QPM-17-⊗-⊗	11.33	0.74	19.50	<u>1.30</u>
11.	DMR QPM-17-⊗-⊗ X DMR QPM-03-106	11.77	0.77	18.60	1.24
12.	DMR QPM-03-106 X DMR QPM-17-⊗-⊗	12.21	0.67	20.60	1.17
13.	DMR QPM-18-⊗-⊗ X DMR QPM-03-103	12.21	0.80	16.20	1.08
14.	DMR QPM-03-103 X DMR QPM-18-⊗-⊗	10.89	0.73	17.30	1.15
15.	DMR QPM-18-⊗-⊗ X DMR QPM-03-106	10.48	0.85	16.20	1.08
16.	DMR QPM-03-106 X DMR QPM-18-⊗-⊗	10.05	0.66	18.80	1.25
17.	DMR QPM-28-5-⊗-⊗ X DMR QPM-03-101	11.36	0.78	15.50	1.24
18.	DMR QPM-03-101 X DMR QPM-28-5-⊗-⊗	9.17	<u>0.97</u>	15.80	1.26
19.	DMR QPM-03-101 X DMR QPM-03-103	10.48	0.75	12.70	1.27
20.	DMR QPM-03-103 X DMR QPM-03-101	11.36	0.78	14.20	1.18
21.	CML-171-⊗	9.61	0.87	21.90	1.09
22.	DMR QPM-5-8-⊗-⊗	10.41	0.84	15.90	1.27
23.	DMR QPM-75-⊗-⊗	8.74	0.86	21.00	1.05
24.	DMR QPM-17-⊗-⊗	10.48	0.94	18.10	1.20
25.	DMR QPM-18-⊗-⊗	12.31	0.80	13.90	1.15
26.	DMR QPM-28-5-⊗-⊗	10.92	0.58	20.70	1.04
27.	DMR QPM-03-101	11.11	0.53	16.20	1.08
28.	DMR QPM-03-102	11.36	0.60	13.60	1.13
29.	DMR QPM-03-106	12.23	0.51	<u>10.80</u>	1.08
30.	DMR QPM-60-#-#-⊗	10.05	<u>0.50</u>	20.80	<u>1.04</u>
31.	DMR QPM-03-103	10.92	0.83	17.40	1.16
32.	DMR QPM-20-7-#-#-⊗	10.05	0.85	17.90	1.19
33.	DMR QPM-03-105	10.48	0.77	15.80	1.05
34.	DMR QPM-53-⊗-⊗ Bulk-⊗	<u>8.30</u>	0.90	18.20	1.21
35.	DMR QPM-28-5-⊗-⊗ Bulk-⊗	9.17	0.87	16.80	1.12
36.	DMR QPM-03-107	11.02	0.90	19.40	1.29
	Maximum	13.08	0.97	22.30	1.30
	Minimum	8.30	0.50	10.80	1.04

Table 19: Selected QPM SO/SN composite for increase

S. No	Pedigree	% Protein	% Try.	100 Kernel wt.	Sp. Gravity
1.	Mod OP x Shakti 50%-#-SNf-#####	10.05	0.85	20.10	1.14
2.	SO/SN Comp (ABP) SN ² cc Bulk-f-#####	10.05	0.76	22.60	1.13
3.	SO/SN Comp (P)(ABP) 25%-f-#####	8.74	0.95	18.40	1.22
4.	SO/SN Comp Bulk # SN ² cc Bulk 75%-f-#####	10.92	0.68	18.30	1.22
5.	Comp (ESN)cc bulk 50%-f-#####	10.05	0.72	23.50	1.17
6.	Shakti	9.83		17.90	1.19
7.	DMR QPM-03-113	10.18	0.78	13.70	1.14
8.	Shakti-1	10.05	0.71	23.70	1.18
Parents for marking single cross					
9.	DMR QPM-03-117	11.36	0.71	17.40	1.16
10.	DMR QPM-03-120	7.43	0.79	20.80	1.18
QPM lines for increase					
11.	DMR QPM-03-121	12.23	0.70	14.90	1.19
12.	DMR QPM-03-124	10.05	0.76	16.10	1.07
13.	DMR QPM-58-#-⊗	11.36	0.34	18.60	1.24
14.	DMR QPM-60-#-⊗	10.92	0.72	20.20	1.15
15.	DMR QPM-28-3-#-⊗	11.79	0.61	16.80	1.12
16.	DMR QPM-03-125	11.36	0.65	15.30	1.22
Selected white conversion programme lines HE vetocity					
17.	P502C1-#-315-3-1-1-B-2-6-BB x CML-142 ³ -⊗	10.48	0.67	16.00	1.06
18.	(P-25-f-118-25B)-1-BBB-1-B-###-BBB-BB x CML-150 ³ -#-⊗	10.92	0.56	18.50	1.23
19.	P43R CAMEROON X CML-150 ³ -#-⊗	11.36	0.52	10.30	1.03
20.	Mg-54-11-1-B-x CML 150 ³ -#-⊗	7.46	0.86	13.50	1.12
21.	SLW-#G 888-CDHG-3-2-2-B-B-B-B X CML-142 ³ -#-⊗	9.61	0.80	16.20	1.08
22.	CML 322 X CML-150 ³ -#	9.17	0.84	17.70	1.18
23.	CML 400 X CML-150 ³ -#	10.02	0.67	18.20	1.21
24.	Posta Sequa (3-5-)-2-1-BBBB-BB x CML 150 ³ -#	9.58	0.53	14.40	1.16

25.	CML 342 La Posta Sequa C3 H1-2-2-3-2-1-#-#-BBBB x CML 150 ³ -#	8.27	0.93	17.90	1.19
26.	P 501C13-303-1-1-2-2-1-1-BB x CML 150 ³ -#	8.71	0.84	16.40	1.09
27.	CML 8-P-21 HC 218 x CML 56 G 24 TSR-29-BBBBB x CML 142 ³ -#	8.27	0.80	23.10	1.15
28.	P 501C1#-500-2-1-2-2-2-2-BB x CML 142 ³ -#	9.15	0.49	21.60	1.08
Yellow conversion programme lines HE vitrocitry					
29.	CM-111 x SO/SN ⁶ comp SN ⁶ cc bulk-50%-f-⊗ ³ -#-#-#	10.02	0.84	18.10	1.20
30.	CM-111 x SO/SN comp category 'o'###-bulk-1-1-#-#- ⊗ ³ -#-#	10.14	0.88	16.40	1.09
31.	CM-121 x SO/SN comp SN ⁶ cc bulk-50%-f-⊗ ³ -#-#-#	10.43	<u>0.95</u>	11.70	1.17
32.	CM-127 x SO/SN comp(P) SN ⁶ cc bulk-50%-f-⊗ ³ -#-#	<u>12.67</u>	0.54	12.90	1.07
33.	CM-129 x SO/SN comp(P) SN ⁶ cc bulk-50%-f-⊗ ³ -#-#	11.77	0.61	17.60	1.17
34.	CM-118 x SO/SN comp(P) SN ⁶ cc bulk-50%-f-#-⊗ ³ -#-#	10.48	0.61	20.10	1.15
35.	CM-133 x SO/SN comp(P) SN ⁶ cc bulk-50%-#-⊗ ³ -#-#	10.40	0.83	19.80	1.13
	Maximum	12.67	0.95	23.70	1.24
	Minimum	7.43	0.34	10.30	1.03

Table 20: CML lines for increase

S. No	Pedigree	% Protein	% Try.	100 Kernel wt.	Sp. Gravity
1.	CML-142-#	<u>6.96</u>	0.73	13.80	1.10
2.	CML-150-#	<u>11.10</u>	<u>0.62</u>	15.00	1.20
3.	CML-175-#	9.15	0.91	<u>20.60</u>	1.17
4.	CML-176-#	9.58	0.73	11.70	1.17
5.	CML-186-#	10.89	0.83	18.20	1.21
6.	CML-149-#	9.58	0.68	18.60	1.24
7.	CML-140-#	7.48	0.74	18.60	<u>1.29</u>
8.	CML-162-1-⊗-⊗	9.58	<u>0.92</u>	<u>10.50</u>	<u>1.05</u>
9.	CML-167-1-⊗-⊗	8.27	0.71	20.20	1.15
	Maximum	11.10	0.92	20.60	1.29
	Minimum	6.96	0.62	10.50	1.05

Table 21: High amylose lines for increase

S. No	Pedigree	% Starch	% Amylose in Starch	Amylopectin in Starch
1.	ae-40-1-1-B-⊗-29-#-⊗-⊗-Bulk-⊗	68.44	44.61	55.39
2.	ae-46-4-4-B-⊗-15-#-⊗-Bulk-⊗	62.96	48.03	51.97
3.	ae-47-7-5-B-⊗-13-#-⊗-⊗-5-⊗	64.07	45.28	54.72
4.	ae-47-7-5-B-⊗-13-#-⊗-⊗-6-⊗	65.15	43.24	56.76
Waxy lines for increase				
5.	Kisan Waxy Wx-2-1-6-BB-⊗-17-#-⊗-⊗	65.52	32.34	67.66
6.	Waxy corn composite-#-3-⊗-⊗-⊗	66.25	26.25	73.75
7.	Waxy corn-⊗-⊗	71.25	11.60	88.40
8.	Sukhothai-1-Wax-⊗-⊗	66.25	24.50	75.50
	Maximum	71.25	48.03	88.40
	Minimum	62.96	11.60	51.97

Table 22: High oil lines for increase

S. No.	Pedigree	% oil on dry basis
1.	Temp x Trop High oil QPM C14-#-⊗-3-#-⊗-⊗-⊗	5.23
2.	Temp x Trop High oil QPM C14-⊗-4-#-⊗-⊗-⊗	5.46
3.	Temp x Trop High oil QPM C14-⊗-#-⊗-bulk-⊗	4.15
4.	Tearp ⊗ HO C15 #-#-⊗-⊗-⊗	6.29
	Maximum	6.29
	Minimum	4.15

Table 23: Pool of germplasm having high amylose, high oil content, high protein quality, waxy with speciality starch and vegetable type received from DMR, grown at Hyd. 2003 R for all the analysis.

S. No.	Pedigree	% oil on dry basis	% Protein	% Try.	100 Kernel wt.	Sp. Gravity	% Starch	% Amylose in starch	% Amylopectin in starch
1.	CIMMYT 18385/20596	4.30	10.02	0.52	23.50	1.17	68.44	45.27	54.73
2.	CIMMYT 18405/20596	4.92	12.51	0.35	34.60	1.15	67.71	45.99	54.01
3.	CIMMYT 18405/26074	4.86	11.42	0.50	26.70	1.06	65.88	43.23	56.77
4.	CIMMYT 18405/26075	4.92	11.79	0.47	34.80	1.16	65.88	41.39	58.61
5.	CIMMYT 18385/20726	4.65	10.92	0.42	31.60	1.26	65.88	42.53	57.47
6.	CIMMYT 22488/25418	5.91	11.16	0.47	25.80	1.29	69.17	43.33	56.67
7.	CIMMYT 22489/25419	5.97	11.00	0.43	28.80	1.15	69.17	40.08	59.92
8.	CIMMYT 22490/25420	5.11	11.90	0.45	31.00	1.24	70.99	43.33	56.67
9.	CIMMYT 22491/25421	5.46	12.23	0.43	30.40	1.21	71.00	40.65	59.35
10.	CIMMYT 22492/25422	5.00	12.20	0.39	29.90	1.20	64.07	51.55	48.57
11.	CIMMYT 22493/25423	5.40	10.73	0.52	30.40	1.21	62.22	50.43	49.57
12.	CIMMYT 22494/25424	5.57	10.92	0.47	26.70	1.07	68.08	43.64	56.36
13.	CIMMYT 22495/25425	4.67	11.36	0.48	40.30	1.15	66.98	46.31	53.69
	Maximum	5.97	12.51	0.52	40.30	1.29	71.00	51.55	59.92
	Minimum	4.30	10.02	0.35	23.50	1.06	62.22	40.08	48.57

Table 24: Evaluation of QPM (Shaktiman) germplasm received from Rajendra Agriculture University, Bihar, Samastipur for quality analysis

S. No	Pedigree	% Protein	% Try. in Protein	100 Kernel wt.	Sp. Gravity
1.	Shaktiman-1	9.10	0.86	27.80	1.11
2.	Shaktiman-2	9.27	0.70	26.10	1.30
3.	Shaktiman-3	8.86	0.61	33.00	1.10
4.	Shaktiman-4	9.10	0.63	31.70	1.15
5.	CML-161-13-3-⊗	9.42	0.65	28.40	1.27
6.	CML-161-7-2-⊗	8.50	0.71	25.50	1.25
7.	CML-169-23-⊗	8.41	0.70	24.80	1.24
	Maximum	9.42	0.86	33.00	1.30
	Minimum	8.41	0.61	24.80	1.10

Table 25: Shaktiman seed received from International Book Distributing Co., Chaman Studio Building, IInd floor, Lucknow-226004, U.P., India, for quality analysis

S. No	Pedigree	% Protein	% Try. in Protein	100 Kernel wt.	Sp. Gravity
1	Shaktiman	9.20	0.88	33.20	1.11
2	Ganga-2	10.05	4.0	32.10	1.07

Table 26: Trial No.-205 (QPM) received from PAU, Ludhiana for quality test 2004 K

S. No	Pedigree	% Protein	% Try. in Protein	100 Kernel wt.	Sp. Gravity
1.	Isolation	8.33	0.92	29.70	1.19
2.	Hyd. 29x30	7.78	0.85	27.00	1.08
3.	31x32	8.15	0.59	26.80	1.19
4.	DMR	7.05	0.85	28.10	1.12
5.	Isolation	8.06	0.82	17.80	1.18
6.	35x36	7.94	1.02	25.00	1.28
7.	39x40	7.52	0.60	27.60	1.10
8.	Nraingarh	9.10	0.43	31.10	1.24
9.	43x44	7.05	0.92	28.10	1.12
10.	45x46	7.10	0.93	26.50	1.06
11.	41x42	8.47	0.96	21.20	1.06
12.	Nraingarh	9.40	0.43	23.00	1.15
	Maximum	9.40	1.02	31.10	1.28
	Minimum	7.05	0.43	17.80	1.06

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Table 27: 71 AET 2nd Year Zone-2 Early Maturity (Set-1) received from PAU, Ludhiana for quality test 2004 K

S. No	Pedigree	% Protein	% Try. in protein	100 Kernel wt.	Sp. Gravity
1.	JH-3851	8.59	0.44	22.40	1.12
2.	PMZ-138	11.32	0.34	21.60	1.08
3.	MCH-5	9.23	0.39	24.10	1.20
4.	JKMH-810	7.79	0.46	24.40	1.22
5.	X-2182	9.47	0.37	22.00	1.25
6.	X-3342	9.85	0.52	24.00	1.20
CHECKS:					
7.	PARKASH	10.51	0.56	22.50	1.12
8.	KIRAN	10.69	0.51	18.90	1.26
9.	MAHI KANCHAN	9.40	0.52	21.00	1.05
	Maximum	11.32	0.56	24.70	1.26
	Minimum	7.79	0.34	18.90	1.05

Table 28: QPM germplasm received from DMR, Ludhiana and VPKAS, Almora for quality analysis Kharif-2004, Trial QPM-1

S. No	Pedigree	% Protein			% Try. in Protein			100 Kernel wt.			Sp. Gravity		
		Delhi	Lud.	Almora	Delhi	Lud.	Almora	Delhi	Lud.	Almora	Delhi	Lud.	Almora
1.	D QPMC-3 (Y)	9.61	8.59	9.09	0.60	0.75	0.62	22.20	20.00	24.20	1.11	1.17	1.21
2.	D QPMC-4 (W)	8.22	8.14	8.41	0.63	0.70	0.67	21.90	27.00	30.00	1.09	1.08	1.20
3.	BVM-8	10.48	10.91	9.41	0.52	0.48	0.51	17.20	22.10	31.60	1.15	1.10	1.26
4.	BQPMH-41	9.84	9.15	10.48	0.49	0.44	0.45	16.50	25.10	26.60	1.10	1.15	1.06
5.	BQPMH-43	9.55	10.47	10.89	0.71	0.62	0.67	13.40	26.90	24.70	1.12	1.08	1.23
6.	BQPMH-46	11.44	11.44	9.51	0.49	0.52	0.48	24.40	26.30	27.10	1.22	1.05	1.08
7.	BQPMH-50	8.09	8.07	9.72	0.49	0.51	0.49	18.40	23.20	26.20	1.22	1.16	1.16
8.	BQPMH-51	8.61	8.59	9.13	0.72	0.95	0.95	19.30	21.00	24.10	1.10	1.20	1.20
9.	BQPMH-52	9.14	9.16	8.91	0.56	0.60	0.68	18.00	21.80	22.20	1.20	1.09	1.11
10.	BQPMH-53	9.47	8.80	11.51	0.64	0.66	0.54	14.30	18.00	27.50	1.14	1.20	1.10
11.	BAQPM-5	9.14	9.35	10.70	0.62	0.74	0.70	26.80	19.10	22.40	1.07	1.27	1.12
12.	HQPM-4	9.02	8.94	8.73	0.68	0.71	0.68	19.40	26.10	27.10	1.10	1.04	1.08
13.	HQPM-5	8.89	8.62	8.24	0.81	0.82	0.99	18.10	28.90	28.40	1.20	1.15	1.13
14.	DMRQPM-17- 8-8 X DMRQPM-58- 8-8	8.27	8.74	8.16	0.86	0.89	0.90	14.30	19.30	19.30	1.14	1.28	1.28
15.	DMRQPM-17- 8-8 X DMRQPM-03-101	9.14	8.36	9.11	0.82	0.79	0.87	12.60	14.60	20.70	1.26	1.16	1.05
16.	DMRQPM-17- 8-8 X DMRQPM-03-106	9.66	8.46	9.00	0.65	0.51	0.64	24.70	20.50	23.10	1.23	1.17	1.15
17.	DMRQPM-75- 8-8 X DMRQPM-17- 8-8	9.68	9.39	9.47	0.62	0.72	0.85	9.50	21.30	18.30	0.95	1.06	1.22
CHECKS													
18.	SHAKTIMAN-1	9.17	9.19	9.13	0.73	0.63	0.61	12.60	28.10	30.10	1.26	1.12	1.20
19.	PRO-311	11.36	8.71	8.65	0.58	0.39	0.44	17.40	30.00	29.00	1.16	1.20	1.16
20.	SHAKTI-1	9.74	9.87	9.85	0.64	0.69	0.69	18.00	20.10	23.50	1.20	1.14	1.17
	Maximum	11.44	11.44	11.51	0.86	0.95	0.99	26.80	30.00	31.60	1.26	1.28	1.28
	Minimum	8.09	8.07	8.16	0.49	0.39	0.44	9.50	14.60	18.30	0.95	1.04	1.05

Table 29: QPM germplasm received from DMR, Ludhiana and VPKAS, Almora for quality test Kharif-2004, Trial QPM-2

S. No	Pedigree	% Protein			% Try. in Protein			100 Kernel wt.			Sp. Gravity		
		Delhi	Lud.	Almora	Delhi	Lud.	Almora	Delhi	Lud.	Almora	Delhi	Lud.	Almora
1.	HQPM-1	9.17	8.17	8.01	0.50	0.63	0.64	26.40	25.50	26.00	1.06	1.27	1.04
2.	HQPM-2	10.05	7.27	10.20	0.33	0.69	0.60	23.70	26.80	33.40	1.18	1.07	1.11
3.	HQPM-3	8.74	7.80	9.01	0.70	0.79	0.82	10.90	25.60	28.30	1.26	1.02	1.13
4.	B-QPM-31	8.30	9.82	-	0.53	0.40	-	18.30	16.70	-	1.08	1.11	-
5.	B-QPM-32	8.68	9.18	9.71	0.47	0.35	0.64	29.10	24.50	26.00	1.16	1.22	1.15
6.	B-QPM-33	9.17	9.94	10.66	0.63	0.60	0.61	26.30	16.70	30.00	1.31	1.11	1.20
7.	JH QPM-41	8.12	8.69	8.61	0.63	0.66	0.73	23.70	29.20	24.20	1.18	1.16	1.21
8.	JH QPM-83	8.74	8.40	9.11	0.89	0.82	0.90	24.60	20.90	18.00	1.23	1.05	1.20
9.	JH QPM-155	9.17	7.96	8.56	0.81	0.73	0.95	33.60	25.10	15.90	1.12	1.25	1.06
10.	JH WX-29	10.68	7.12	8.24	0.49	0.60	0.80	33.50	24.20	24.60	1.17	1.21	1.23
CHECKS													
11.	SHAKTIMAN-1	9.64	9.23	9.21	0.71	0.68	0.63	21.40	19.20	33.50	1.07	1.28	1.11
12.	PRO-311	9.96	8.86	8.92	0.58	0.46	0.43	17.80	31.60	41.30	1.18	1.05	1.03
13.	SHAKTI-1	9.23	9.87	9.89	0.73	0.67	0.68	28.50	20.40	23.70	1.14	1.16	1.18
	Maximum	10.68	9.94	10.66	0.89	0.82	0.95	33.60	31.60	41.30	1.31	1.28	1.23
	Minimum	8.12	7.12	8.01	0.33	0.35	0.43	10.90	16.70	15.90	1.06	1.02	1.03